

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
 Data File : BP000190.D  
 Acq On : 11 Sep 2019 01:29  
 Operator : HP/JU  
 Sample : K4633-04  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F2D02

Manual Integrations  
 APPROVED

mohammad  
 9/12/2019 10:26:03 AM

Quant Time: Sep 11 04:46:46 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Sep 11 02:03:45 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 440170   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 8.18  | 136  | 1675992  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 9.95  | 164  | 860542   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 11.45 | 188  | 1434741  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 14.15 | 240  | 1126159  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 15.70 | 264  | 1220800  | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

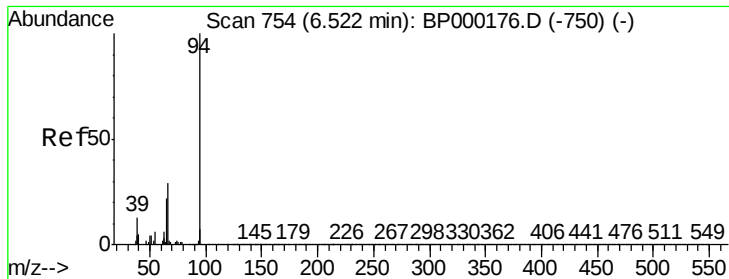
|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 2.62  | 96  | 42875m  | 3.45  | ng/uL | 0.02 |
| 5) Phenol-d5                   | 6.52  | 99  | 794213  | 21.18 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.58  | 67  | 420341  | 21.44 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.66  | 132 | 657678  | 21.69 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 7.26  | 113 | 593951  | 21.09 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 7.45  | 128 | 317244  | 24.93 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 7.78  | 143 | 343148  | 27.70 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 8.02  | 165 | 569566  | 21.66 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 8.23  | 131 | 728421  | 22.40 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 9.63  | 166 | 1586468 | 24.97 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 9.79  | 160 | 1857526 | 23.65 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 10.03 | 143 | 194767  | 17.15 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 10.47 | 176 | 1274130 | 23.61 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 10.53 | 200 | 61408   | 9.31  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 11.51 | 188 | 1730394 | 24.91 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 12.90 | 212 | 1749452 | 26.12 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 15.60 | 264 | 1679536 | 26.54 | ng/ul | 0.02 |

## Target Compounds

|                            |       |     |         |        |        | Ovalue |
|----------------------------|-------|-----|---------|--------|--------|--------|
| 6) Phenol                  | 6.53  | 94  | 127161  | 3.254  | ng/ul  | 97     |
| 45) Dimethylphthalate      | 9.66  | 163 | 578124  | 9.016  | ng/ul  | 98     |
| 70) Phenanthrene           | 11.48 | 178 | 645059  | 7.603  | ng/ul  | 99     |
| 72) Anthracene             | 11.53 | 178 | 138125  | 1.654  | ng/ul  | 100    |
| 75) Carbazole              | 11.68 | 167 | 96873   | 1.357  | ng/ul  | 98     |
| 77) Fluoranthene           | 12.69 | 202 | 1110203 | 12.973 | ng/ul  | 99     |
| 80) Pyrene                 | 12.92 | 202 | 842582  | 9.917  | ng/ul  | 93     |
| 83) Benzo(a)anthracene     | 14.13 | 228 | 505252  | 6.198  | ng/ul  | 98     |
| 85) Chrysene               | 14.17 | 228 | 479145  | 6.405  | ng/ul  | 97     |
| 88) Benzo(b)fluoranthene   | 15.24 | 252 | 590250m | 7.295  | ng/ul  |        |
| 89) Benzo(k)fluoranthene   | 15.26 | 252 | 160179m | 2.100  | ng/ul  |        |
| 91) Benzo(a)pyrene         | 15.63 | 252 | 391551  | 5.158  | ng/ul  | 98     |
| 92) Indeno(1,2,3-cd)pyrene | 17.27 | 276 | 222069  | 2.543  | ng/ul  | 98     |
| 93) Dibenzo(a,h)anthracene | 17.28 | 278 | 73574   | 1.017  | ng/ul# | 77     |
| 94) Benzo(g,h,i)perylene   | 17.73 | 276 | 195040  | 2.678  | ng/ul  | 97     |

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





#6

Phenol

Concen: 3.254 ng/ul

RT: 6.53 min Scan# 755

Delta R.T. 0.01 min

Lab File: BP000190.D

Acq: 11 Sep 2019 01:29

Instrument :

BNA\_P

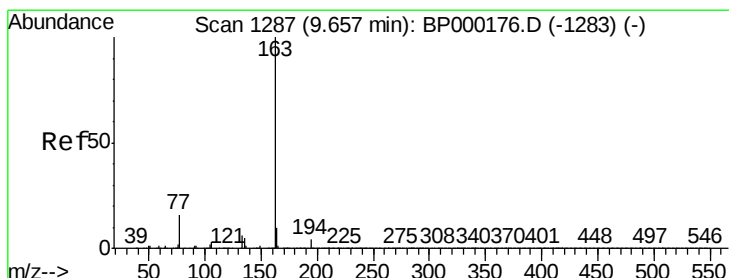
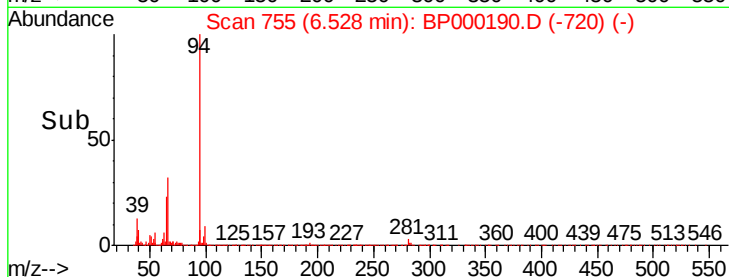
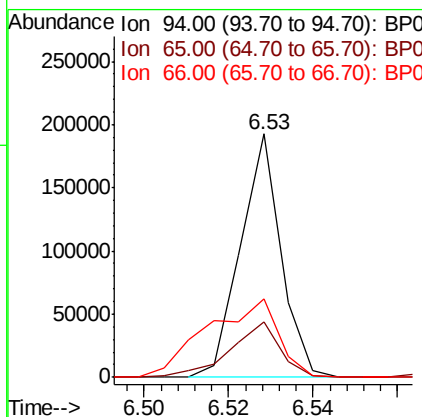
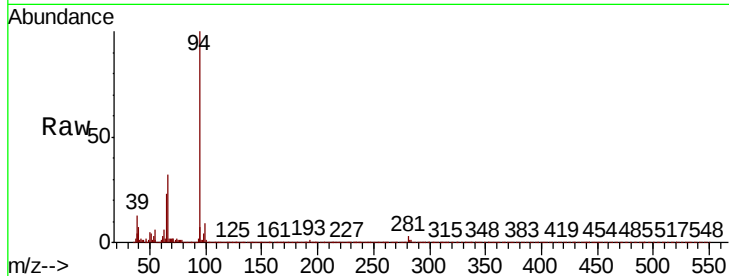
ClientSampled :

F2D02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 94    | Resp: | 127161 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 22.8  | 18.8  | 28.2   |
| 66        | 32.2  | 24.2  | 36.2   |

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#45

Dimethylphthalate

Concen: 9.016 ng/ul

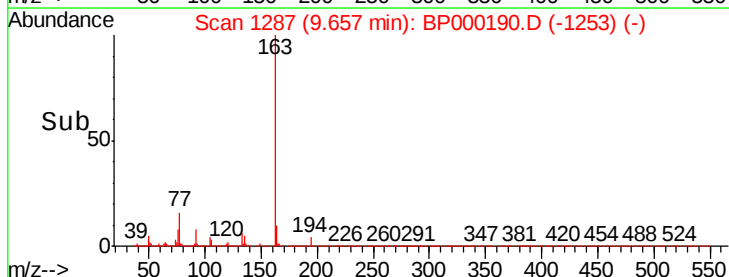
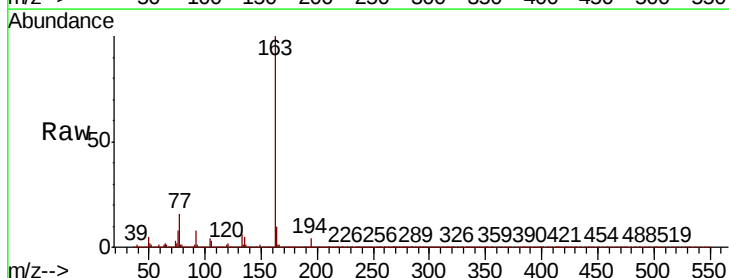
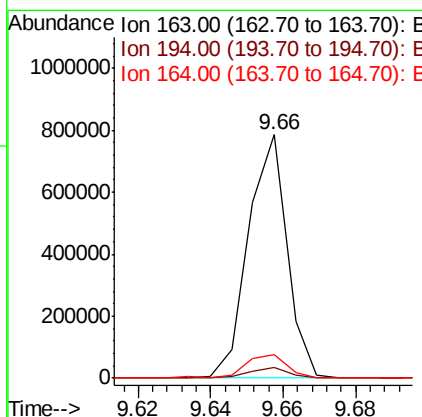
RT: 9.66 min Scan# 1287

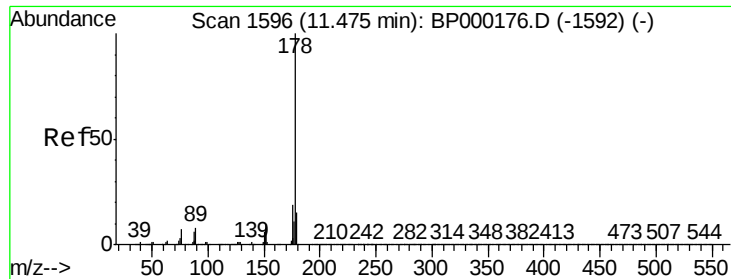
Delta R.T. 0.00 min

Lab File: BP000190.D

Acq: 11 Sep 2019 01:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 578124 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.3   | 3.2   | 4.8    |
| 164       | 9.6   | 8.4   | 12.6   |





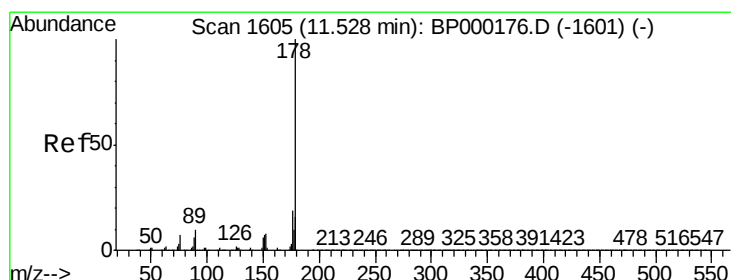
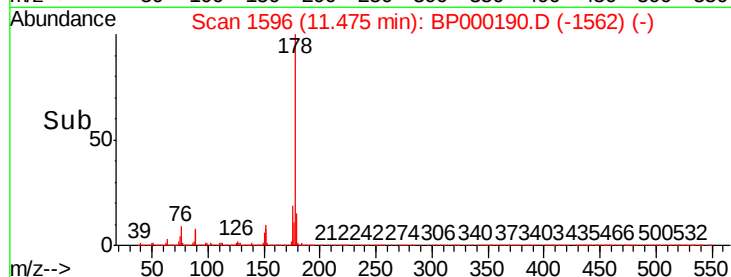
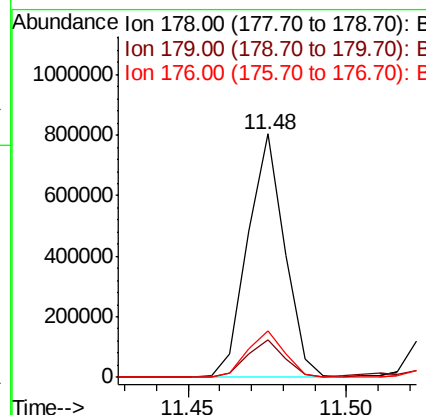
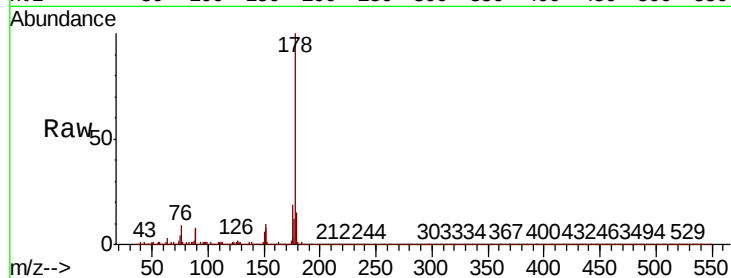
#70  
Phenanthrene  
Concen: 7.603 ng/ul  
RT: 11.48 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: BP000190.D  
Acq: 11 Sep 2019 01:29

Instrument :  
BNA\_P  
ClientSampled :  
F2D02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 12.5  | 18.7  |
| 176     | 19.1  | 15.7  | 23.5  |

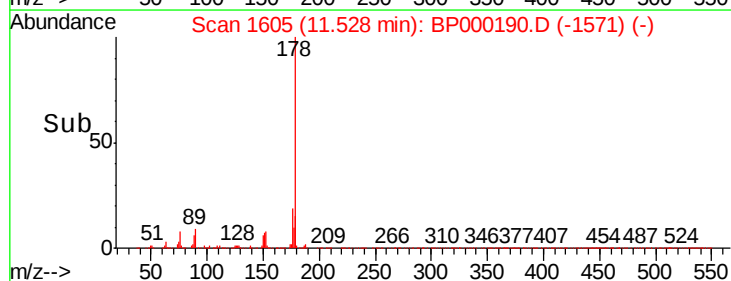
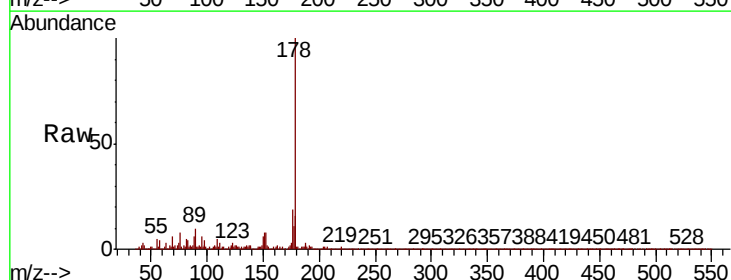
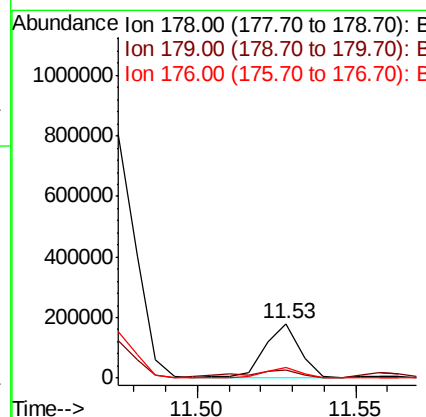
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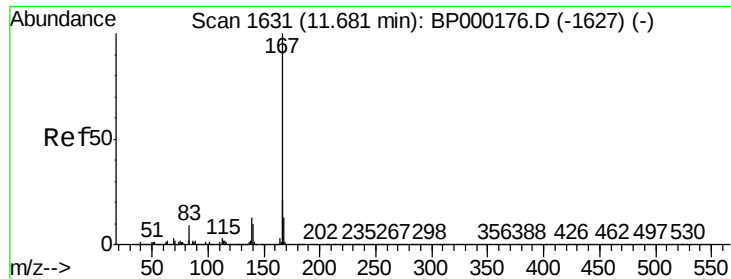
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#72  
Anthracene  
Concen: 1.654 ng/ul  
RT: 11.53 min Scan# 1605  
Delta R.T. 0.00 min  
Lab File: BP000190.D  
Acq: 11 Sep 2019 01:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.8  | 12.3  | 18.5  |
| 176     | 18.9  | 15.1  | 22.7  |





#75

Carbazole

Concen: 1.357 ng/ul

RT: 11.68 min Scan# 1631

Delta R.T. 0.00 min

Lab File: BP000190.D

Acq: 11 Sep 2019 01:29

Instrument :

BNA\_P

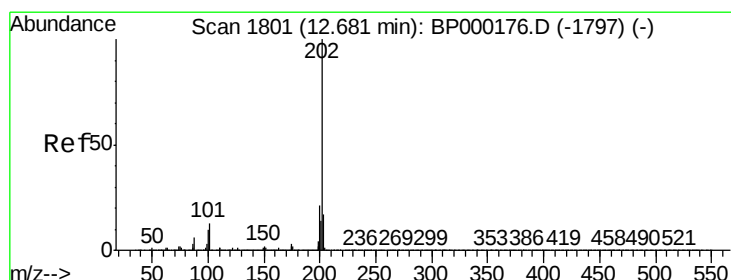
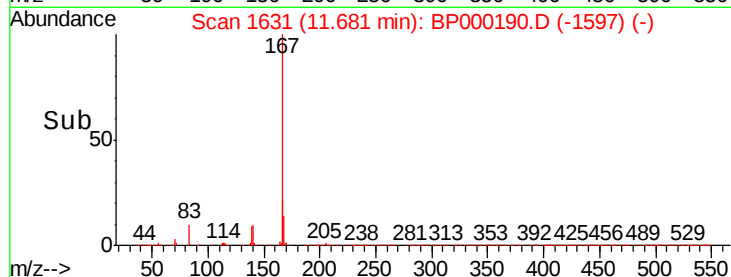
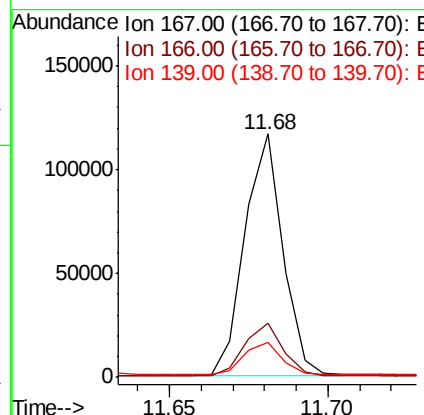
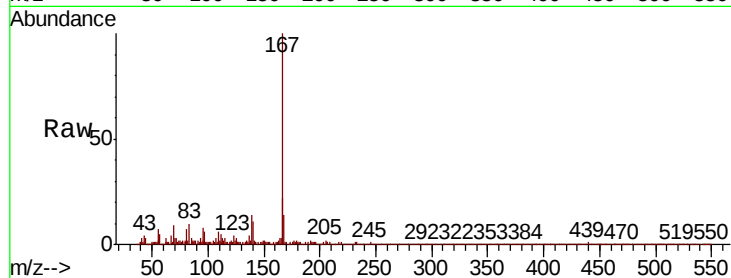
ClientSampleId :

F2D02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 96873 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 22.1  | 17.3  | 25.9  |
| 139       | 14.3  | 10.6  | 15.8  |

Manual Integrations  
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#77

Fluoranthene

Concen: 12.973 ng/ul

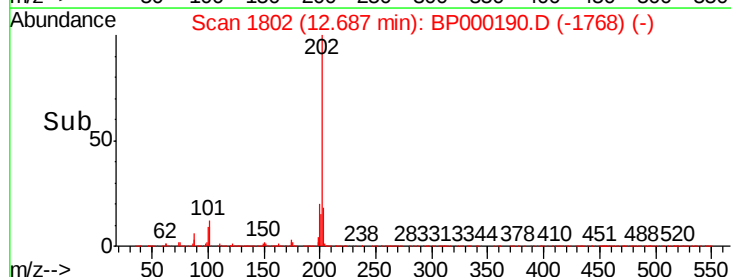
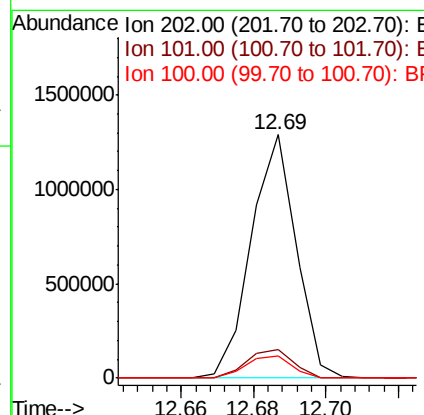
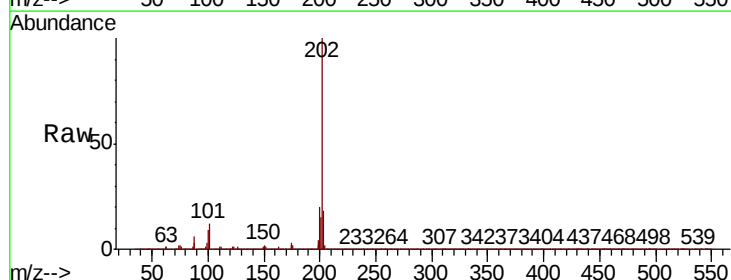
RT: 12.69 min Scan# 1802

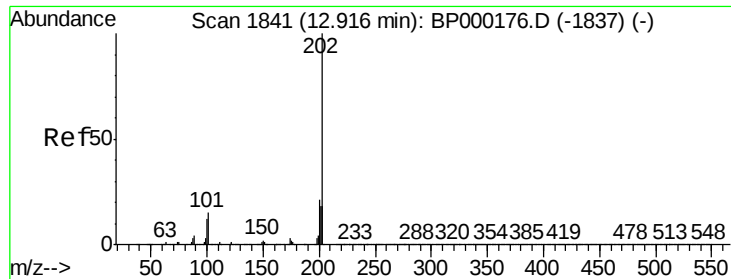
Delta R.T. 0.00 min

Lab File: BP000190.D

Acq: 11 Sep 2019 01:29

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1110203 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 11.7  | 10.0  | 15.0    |
| 100       | 9.1   | 7.4   | 11.2    |





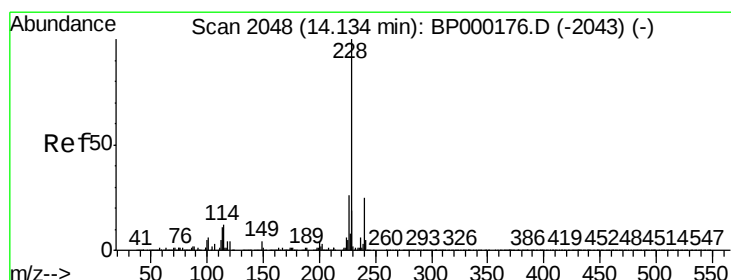
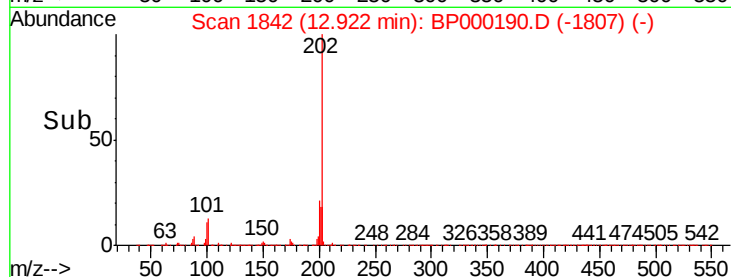
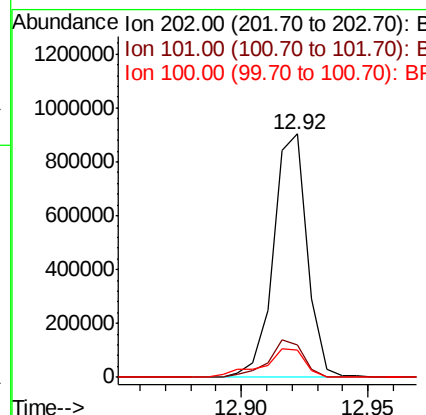
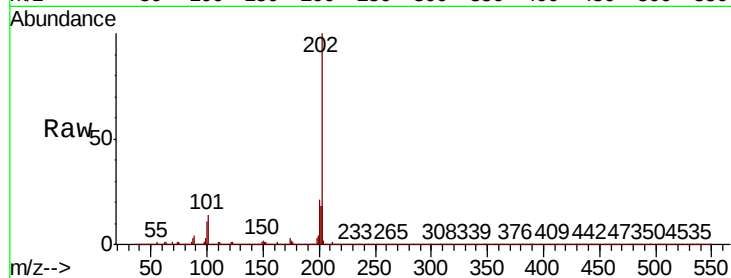
#80  
Pvrene  
Concen: 9.917 ng/ul  
RT: 12.92 min Scan# 1842  
Delta R.T. 0.01 min  
Lab File: BP000190.D  
Acq: 11 Sep 2019 01:29

Instrument :  
BNA\_P  
ClientSampleId :  
F2D02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.5  | 13.4  | 20.0  |
| 100     | 11.1  | 10.8  | 16.2  |

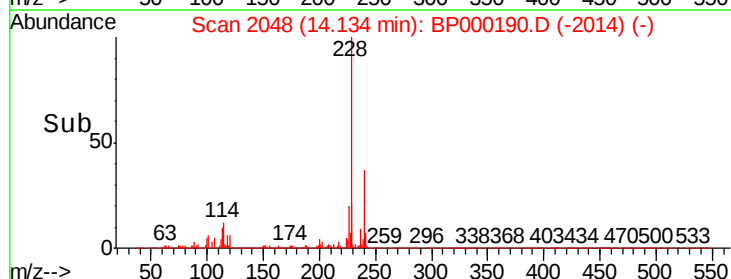
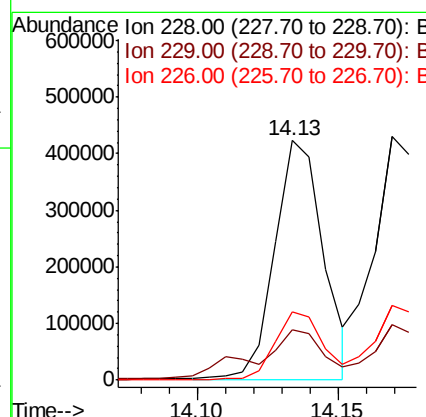
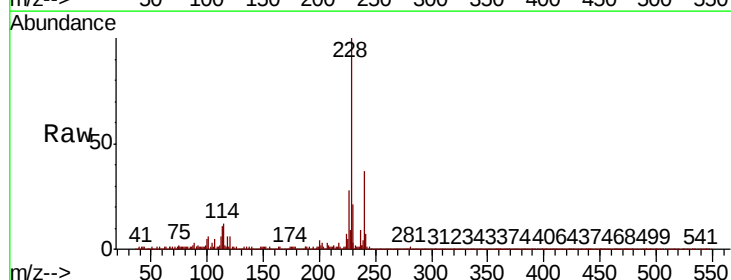
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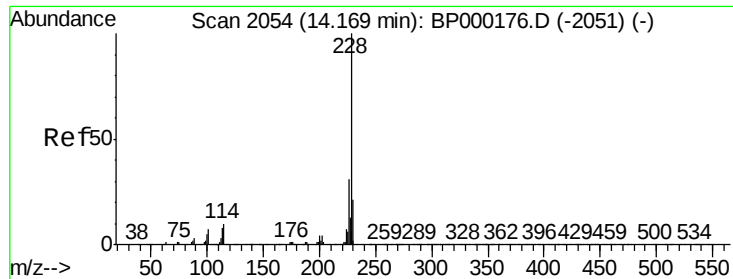
mohammad  
9/12/2019 10:26:03 AM



#83  
Benzo(a)anthracene  
Concen: 6.198 ng/ul  
RT: 14.13 min Scan# 2048  
Delta R.T. 0.00 min  
Lab File: BP000190.D  
Acq: 11 Sep 2019 01:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.8  | 15.9  | 23.9  |
| 226     | 28.5  | 22.1  | 33.1  |





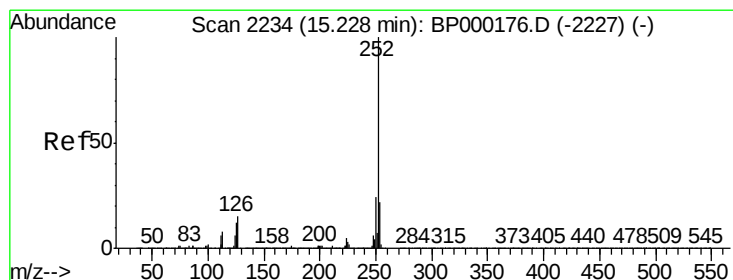
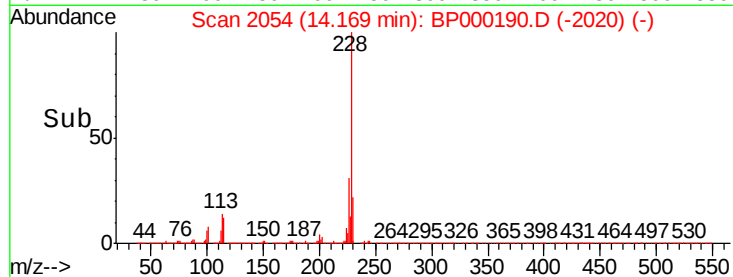
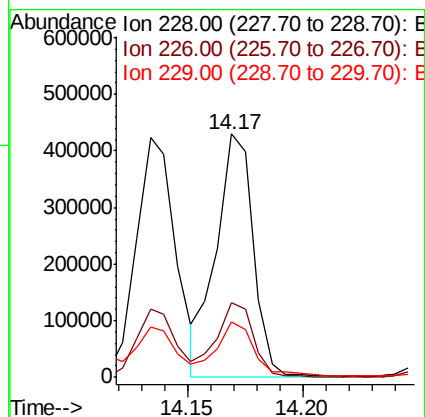
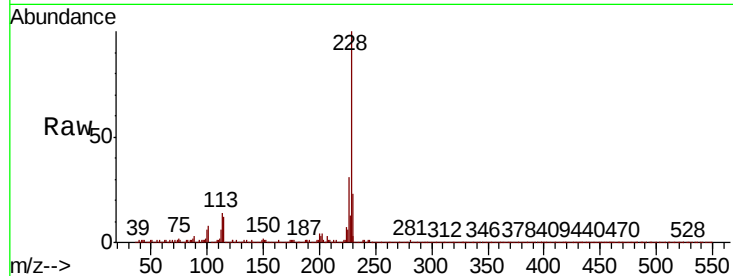
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Chrysene  
Concen: 6.405 ng/ul  
RT: 14.17 min Scan# 2054  
Delta R.T. 0.00 min  
Lab File: BP000190.D  
Acq: 11 Sep 2019 01:29

Instrument :  
BNA\_P  
ClientSampleId :  
F2D02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 479145 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.7  | 24.4  | 36.6   |
| 229       | 22.9  | 16.0  | 24.0   |

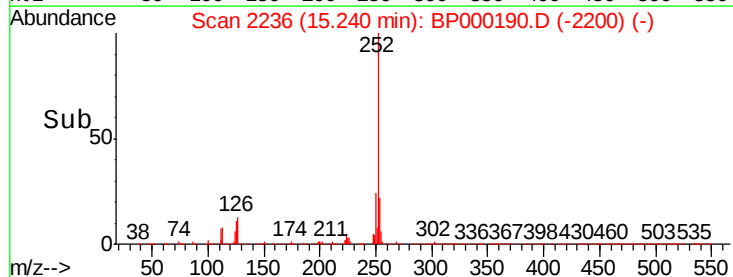
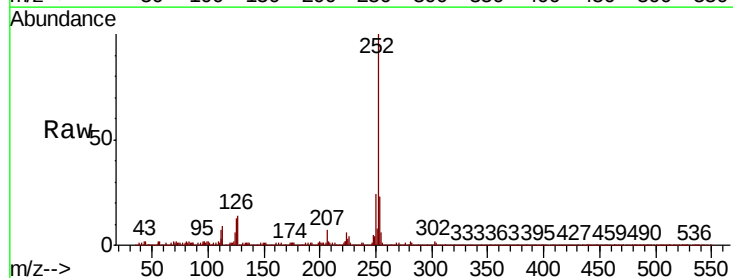
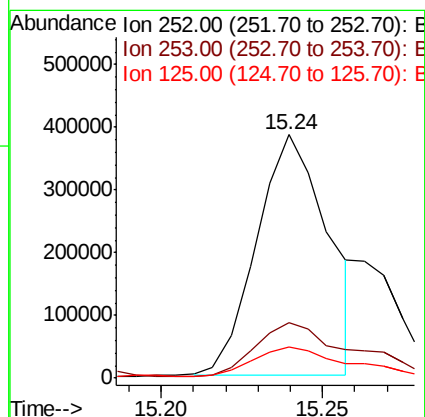
Manual Integrations  
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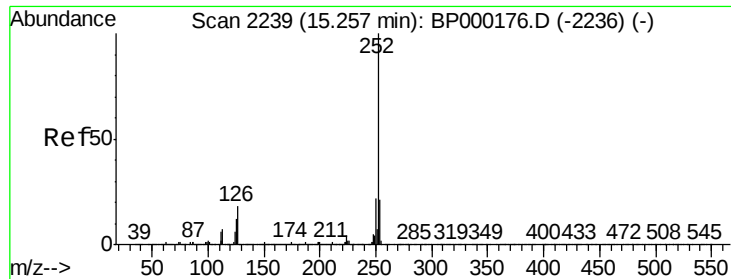
mohammad  
9/12/2019 10:26:03 AM



#88  
Benzo(b)fluoranthene  
Concen: 7.295 ng/ul m  
RT: 15.24 min Scan# 2236  
Delta R.T. 0.01 min  
Lab File: BP000190.D  
Acq: 11 Sep 2019 01:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 590250 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.6  | 17.5  | 26.3   |
| 125       | 12.6  | 9.9   | 14.9   |





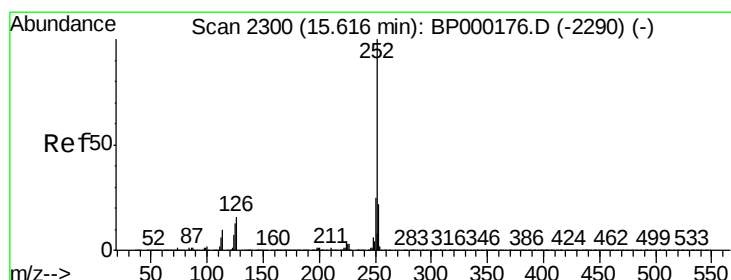
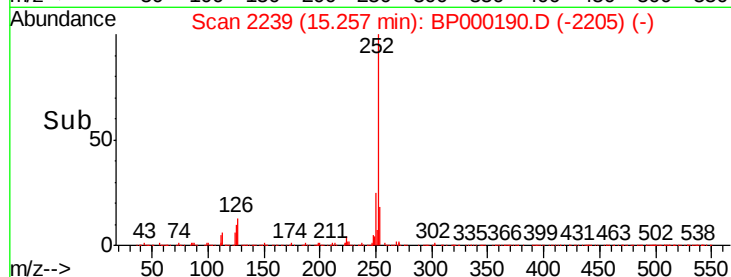
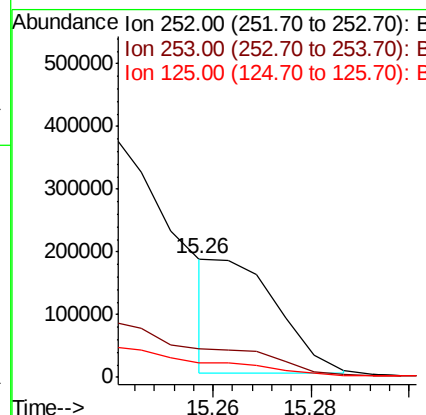
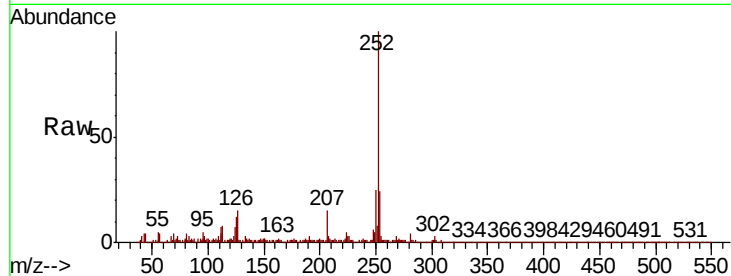
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Benzo(k)fluoranthene  
Concen: 2.100 ng/ul m  
RT: 15.26 min Scan# 2239  
Delta R.T. 0.00 min  
Lab File: BP000190.D  
Acq: 11 Sep 2019 01:29

Instrument :  
BNA\_P  
ClientSampled :  
F2D02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 18.0  | 27.0  |
| 125     | 12.4  | 10.2  | 15.2  |

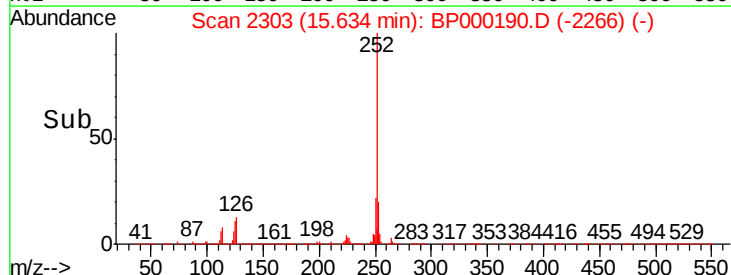
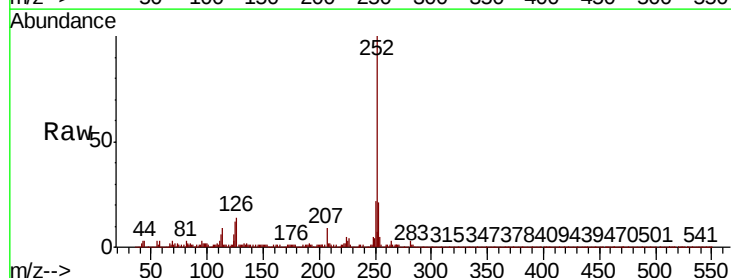
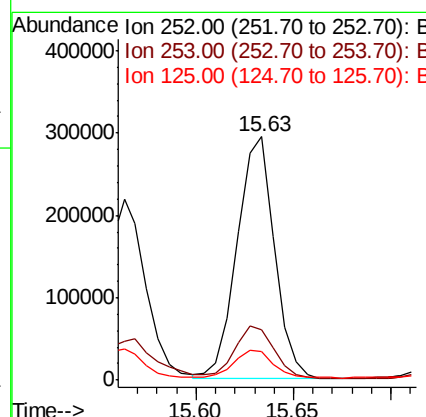
Manual Integrations  
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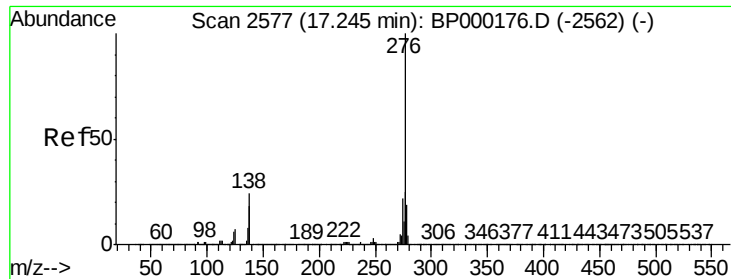
mohammad  
9/12/2019 10:26:03 AM



#91  
Benzo(a)pyrene  
Concen: 5.158 ng/ul  
RT: 15.63 min Scan# 2303  
Delta R.T. 0.02 min  
Lab File: BP000190.D  
Acq: 11 Sep 2019 01:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 20.9  | 17.5  | 26.3  |
| 125     | 11.7  | 10.2  | 15.2  |





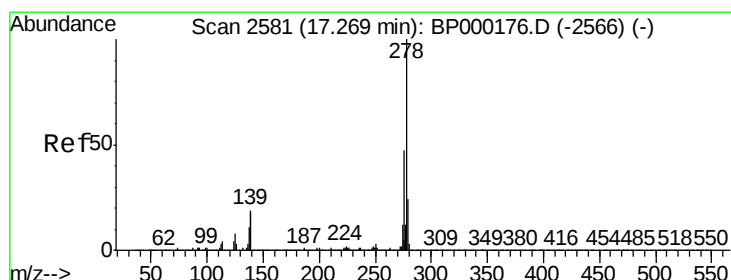
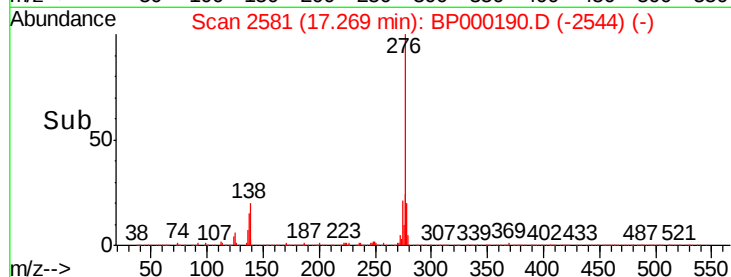
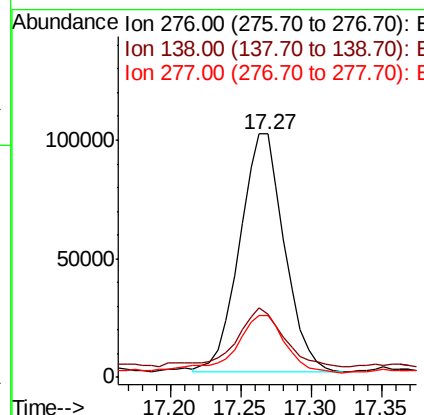
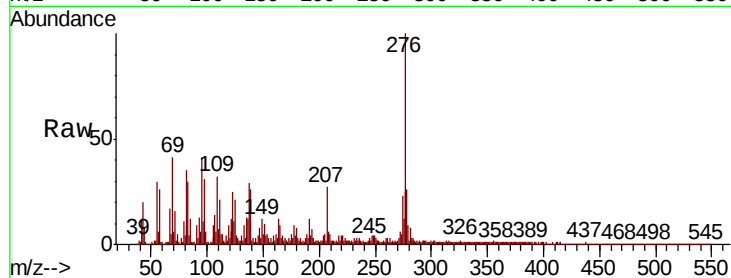
#92  
Indeno(1,2,3-cd)pyrene  
Concen: 2.543 ng/ul  
RT: 17.27 min Scan# 2581  
Delta R.T. 0.02 min  
Lab File: BP000190.D  
Acq: 11 Sep 2019 01:29

Instrument :  
BNA\_P  
ClientSampled :  
F2D02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.8  | 20.0  | 30.0  |
| 277     | 25.4  | 19.4  | 29.0  |

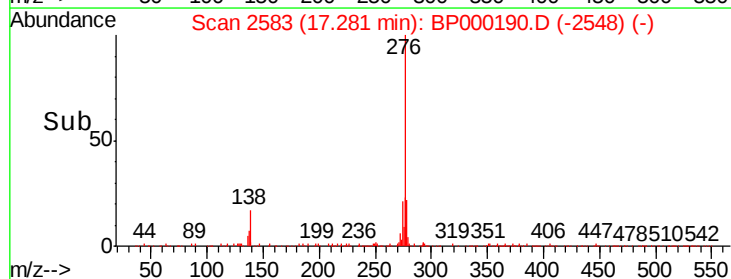
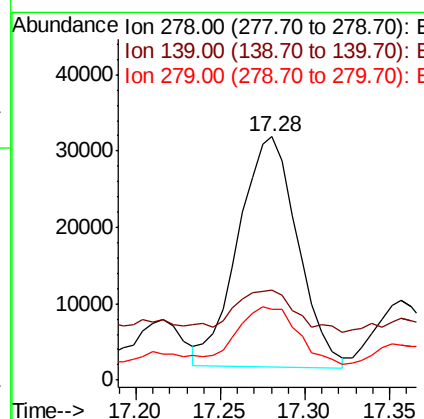
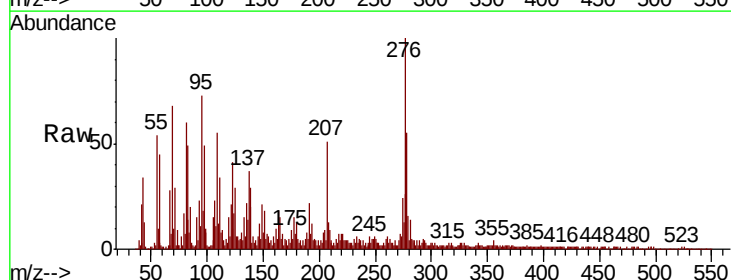
Manual Integrations  
APPROVED

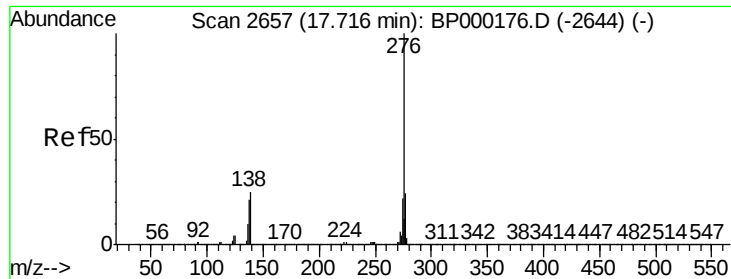
mohammad  
9/12/2019 10:26:03 AM



#93  
Dibenzo(a,h)anthracene  
Concen: 1.017 ng/ul  
RT: 17.28 min Scan# 2583  
Delta R.T. 0.01 min  
Lab File: BP000190.D  
Acq: 11 Sep 2019 01:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 37.1  | 15.1  | 22.7# |
| 279     | 29.0  | 19.2  | 28.8# |





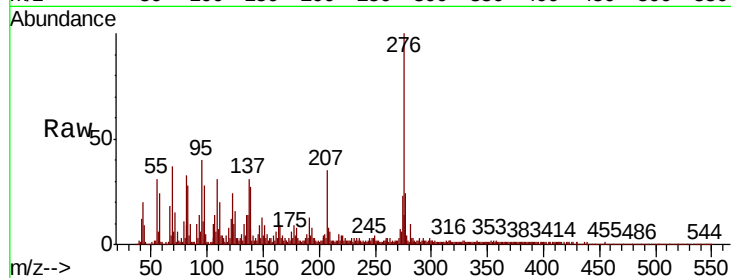
#94  
 Benzo(a,h,i)perylene  
 Concen: 2.678 ng/ul  
 RT: 17.73 min Scan# 2660  
 Delta R.T. 0.01 min  
 Lab File: BP000190.D  
 Acq: 11 Sep 2019 01:29

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F2D02

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 276  | Resp: | 195040 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 138       | 27.3 | 20.0  | 30.0   |
| 277       | 24.3 | 19.1  | 28.7   |

Manual Integrations  
 APPROVED

mohammad  
 9/12/2019 10:26:03 AM



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

