

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101619\  
 Data File : BP000772.D  
 Acq On : 15 Oct 2019 17:45  
 Operator : JU  
 Sample : K5175-21  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 BEPG5

Manual Integrations  
 APPROVED

mohammad  
 10/17/2019 7:59:10 AM

Quant Time: Oct 16 04:54:52 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP100919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Oct 16 02:22:01 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.75  | 152  | 220241   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 8.03  | 136  | 842178   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 9.80  | 164  | 468809   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 11.30 | 188  | 861046   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 13.97 | 240  | 679157   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 15.45 | 264  | 707071   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 2.35  | 96  | 30516   | 5.75  | ng/uL | -0.03 |
| 5) Phenol-d5                   | 6.39  | 99  | 520566  | 30.64 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.43  | 67  | 271693  | 31.99 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 6.52  | 132 | 451837  | 31.57 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 7.13  | 113 | 372688  | 28.71 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 7.31  | 128 | 218913  | 34.20 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 7.63  | 143 | 235403  | 34.53 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 7.88  | 165 | 411796  | 31.56 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 8.09  | 131 | 497607  | 34.29 | ng/ul | 0.00  |
| 44) Dimethylphthalate-d6       | 9.49  | 166 | 1127821 | 34.37 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 9.64  | 160 | 1346319 | 33.35 | ng/ul | 0.00  |
| 52) 4-Nitrophenol-d4           | 9.91  | 143 | 144171  | 28.52 | ng/ul | 0.00  |
| 58) Fluorene-d10               | 10.32 | 176 | 930897  | 33.15 | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 10.39 | 200 | 108698  | 26.51 | ng/ul | 0.00  |
| 71) Anthracene-d10             | 11.35 | 188 | 1315179 | 32.98 | ng/ul | 0.00  |
| 79) Pyrene-d10                 | 12.74 | 212 | 1359584 | 35.40 | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 15.36 | 264 | 1231499 | 35.28 | ng/ul | 0.00  |

## Target Compounds

|                            |       |     |         |        | Ovalue   |
|----------------------------|-------|-----|---------|--------|----------|
| 6) Phenol                  | 6.40  | 94  | 67837   | 3.961  | ng/ul 98 |
| 45) Dimethylphthalate      | 9.51  | 163 | 406147  | 12.420 | ng/ul 99 |
| 70) Phenanthrene           | 11.32 | 178 | 445837  | 9.501  | ng/ul 99 |
| 72) Anthracene             | 11.37 | 178 | 149565  | 3.141  | ng/ul 99 |
| 75) Carbazole              | 11.53 | 167 | 79856   | 1.965  | ng/ul 99 |
| 77) Fluoranthene           | 12.52 | 202 | 524804  | 10.915 | ng/ul 99 |
| 80) Pyrene                 | 12.76 | 202 | 432899  | 8.984  | ng/ul 99 |
| 83) Benzo(a)anthracene     | 13.96 | 228 | 287772  | 6.313  | ng/ul 99 |
| 85) Chrysene               | 13.99 | 228 | 236838m | 5.590  | ng/ul 99 |
| 88) Benzo(b)fluoranthene   | 15.02 | 252 | 247425  | 5.865  | ng/ul 98 |
| 89) Benzo(k)fluoranthene   | 15.05 | 252 | 78931m  | 1.965  | ng/ul 99 |
| 91) Benzo(a)pyrene         | 15.39 | 252 | 173839  | 4.352  | ng/ul 99 |
| 92) Indeno(1,2,3-cd)pyrene | 16.92 | 276 | 82405   | 1.800  | ng/ul 98 |
| 94) Benzo(g,h,i)perylene   | 17.36 | 276 | 56612   | 1.485  | ng/ul 99 |

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

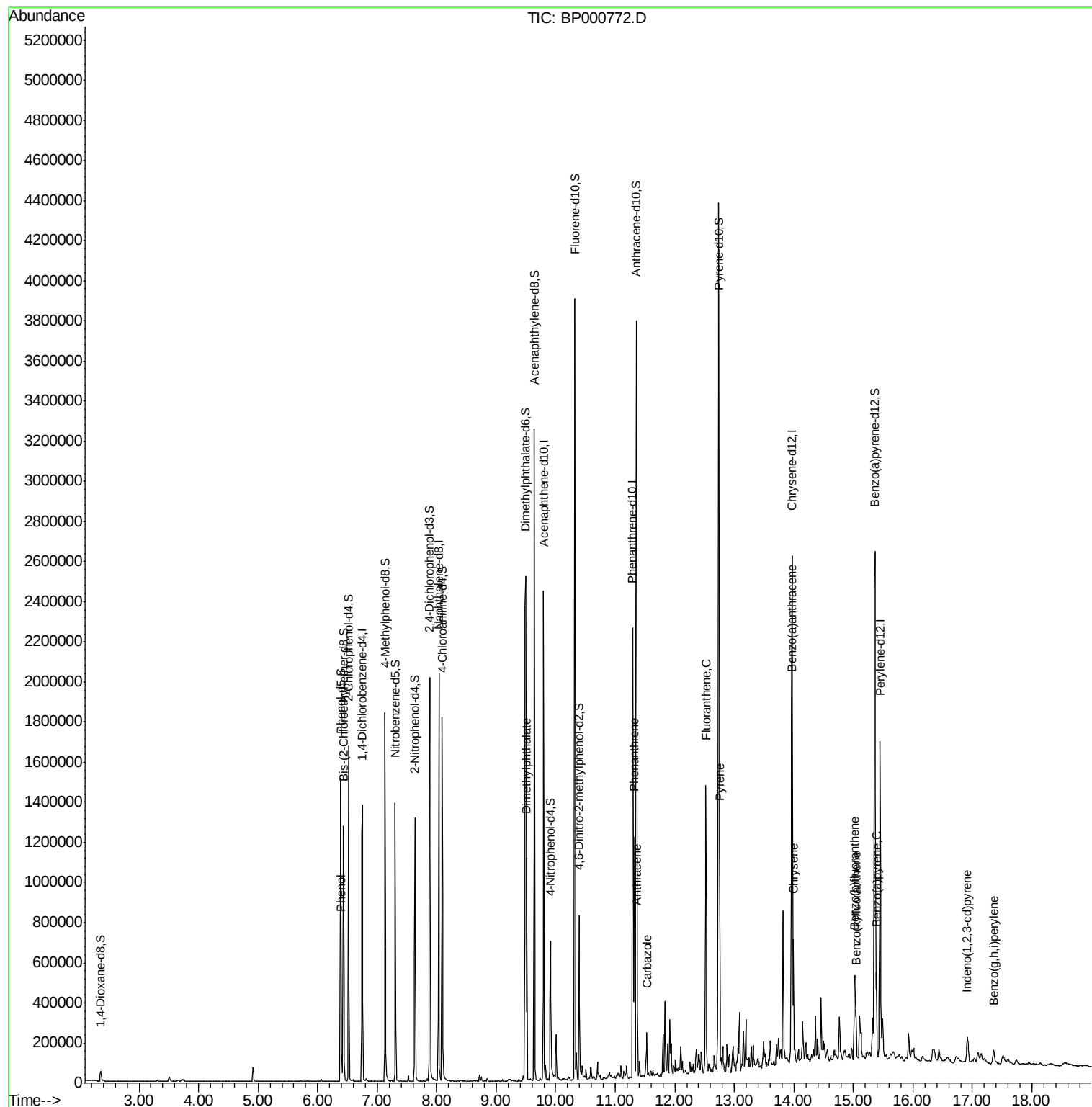
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101619\  
Data File : BP000772.D  
Acq On : 15 Oct 2019 17:45  
Operator : JU  
Sample : K5175-21  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

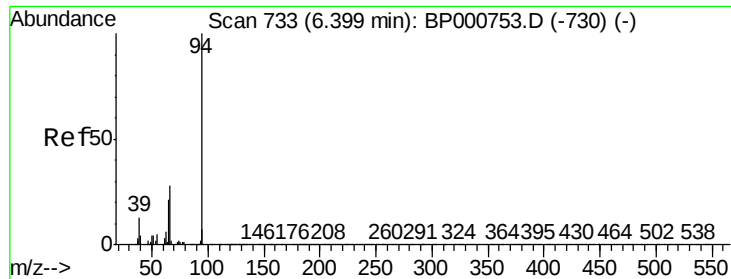
Instrument :  
BNA\_P  
ClientSampleId :  
BEPG5

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Quant Time: Oct 16 04:54:52 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP100919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Oct 16 02:22:01 2019  
Response via : Initial Calibration





#6

Phenol

Concen: 3.961 ng/ul

RT: 6.40 min Scan# 733

Delta R.T. 0.00 min

Lab File: BP000772.D

Acq: 15 Oct 2019 17:45

Instrument :

BNA\_P

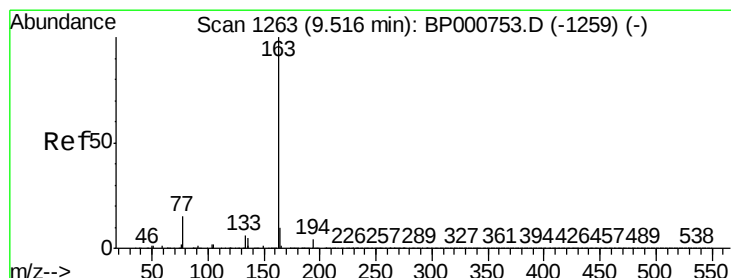
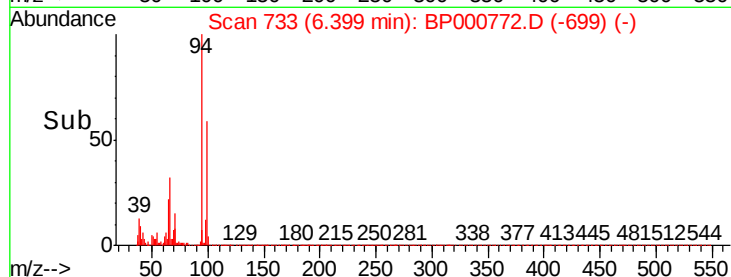
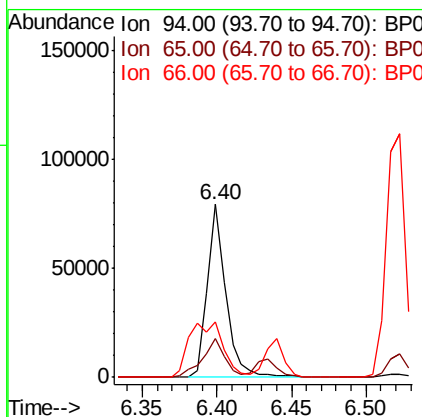
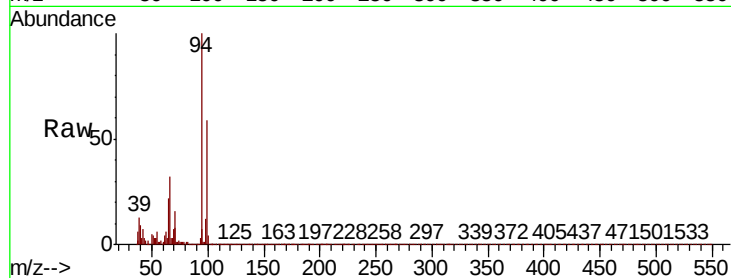
ClientSampleId :

BEPG5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 94    | Resp: | 67837 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 22.2  | 19.2  | 28.8  |
| 66       | 31.8  | 25.7  | 38.5  |

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#45

Dimethylphthalate

Concen: 12.420 ng/ul

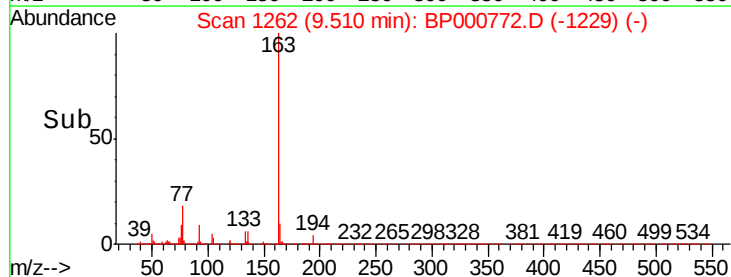
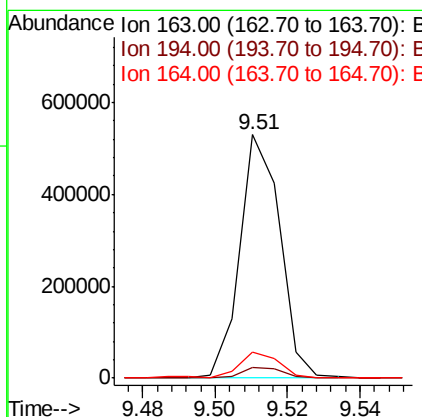
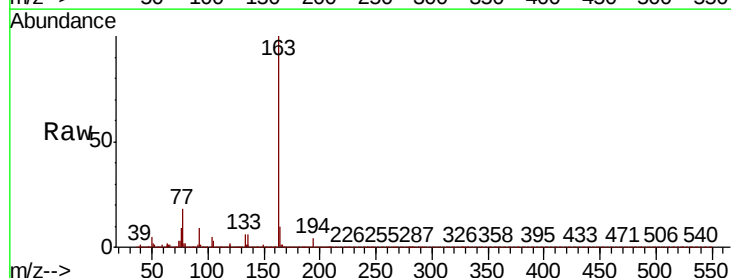
RT: 9.51 min Scan# 1262

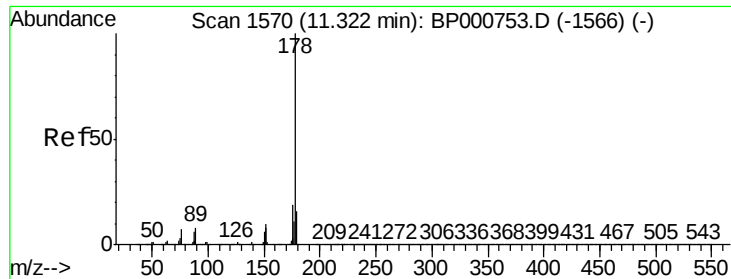
Delta R.T. -0.01 min

Lab File: BP000772.D

Acq: 15 Oct 2019 17:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 163   | Resp: | 406147 |
| Ion      | Ratio | Lower | Upper  |
| 163      | 100   |       |        |
| 194      | 4.2   | 3.3   | 4.9    |
| 164      | 10.4  | 8.1   | 12.1   |





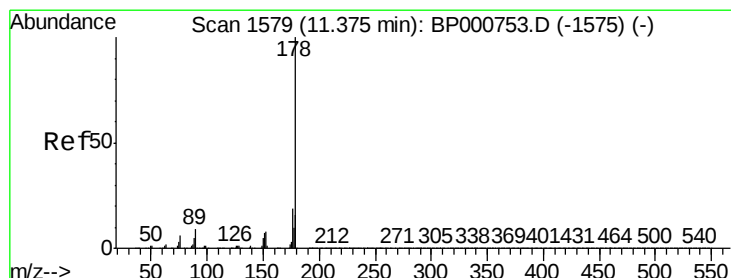
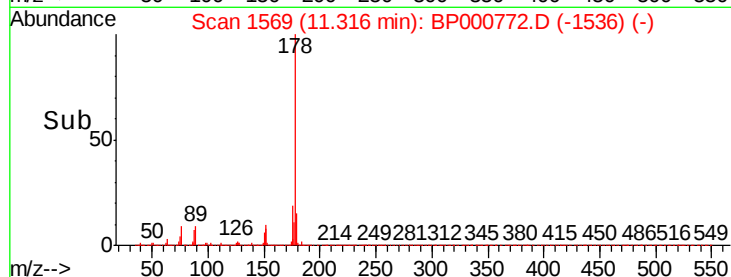
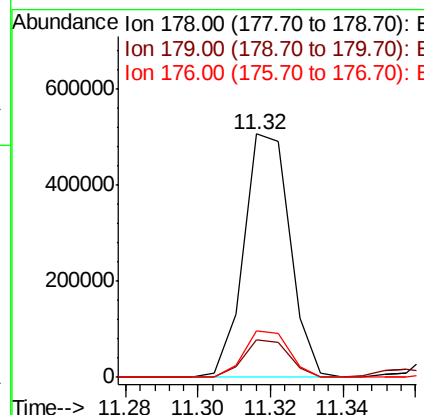
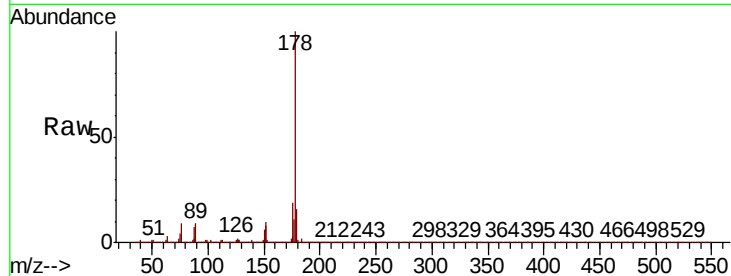
#70  
Phenanthrene  
Concen: 9.501 ng/ul  
RT: 11.32 min Scan# 1569  
Delta R.T. -0.01 min  
Lab File: BP000772.D  
Acq: 15 Oct 2019 17:45

Instrument :  
BNA\_P  
ClientSampleId :  
BEPG5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 12.5  | 18.7  |
| 176     | 18.9  | 15.4  | 23.2  |

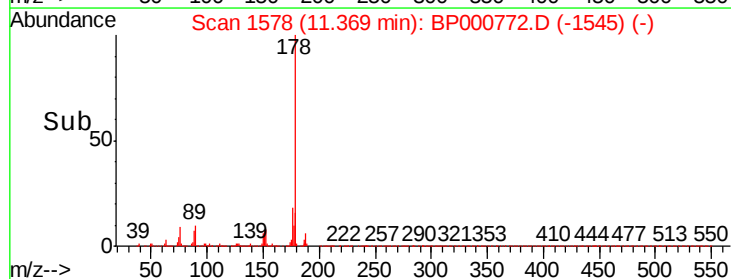
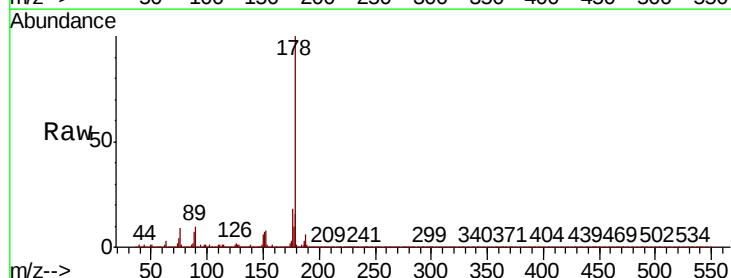
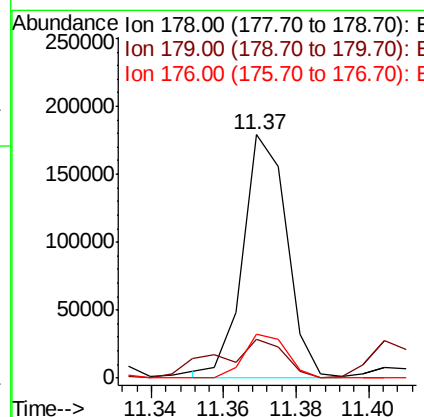
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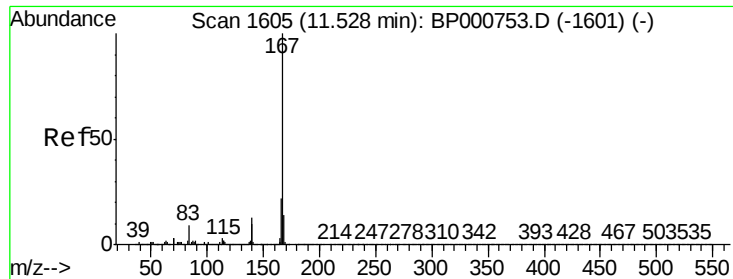
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#72  
Anthracene  
Concen: 3.141 ng/ul  
RT: 11.37 min Scan# 1578  
Delta R.T. -0.01 min  
Lab File: BP000772.D  
Acq: 15 Oct 2019 17:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.9  | 12.4  | 18.6  |
| 176     | 18.3  | 15.1  | 22.7  |





#75

Carbazole

Concen: 1.965 ng/ul

RT: 11.53 min Scan# 1605

Delta R.T. 0.00 min

Lab File: BP000772.D

Acq: 15 Oct 2019 17:45

Instrument :

BNA\_P

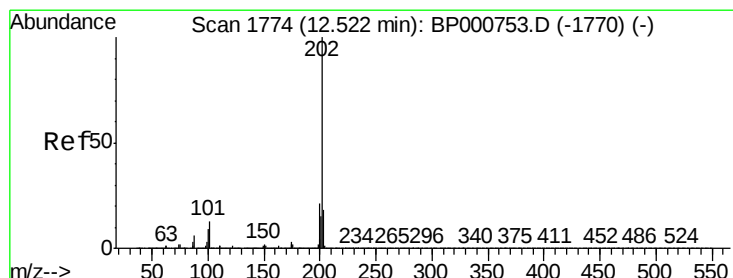
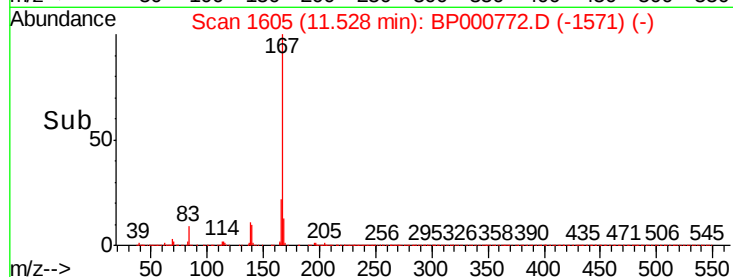
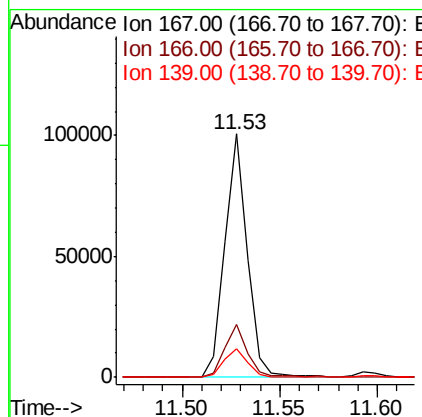
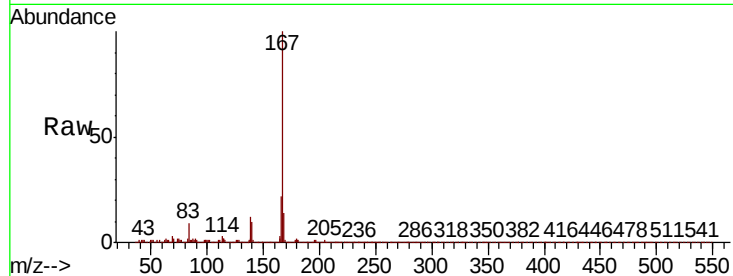
ClientSampleId :

BEPG5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 79856 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 21.8  | 17.4  | 26.0  |
| 139       | 11.9  | 10.2  | 15.4  |

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#77

Fluoranthene

Concen: 10.915 ng/ul

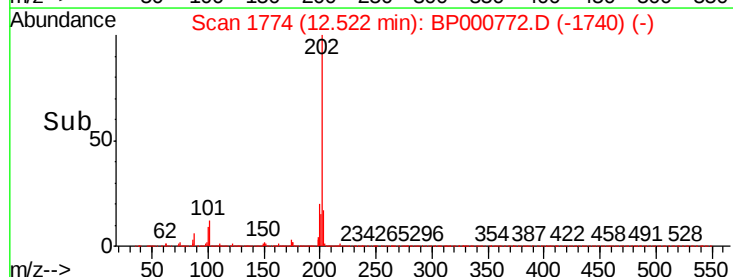
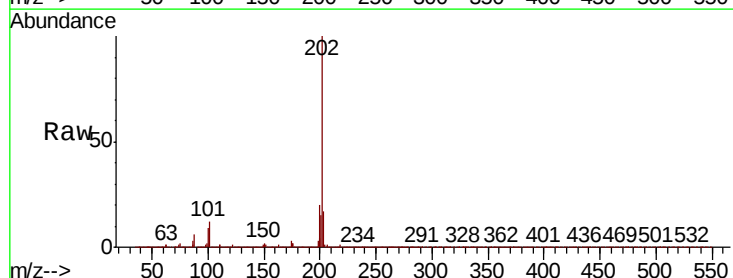
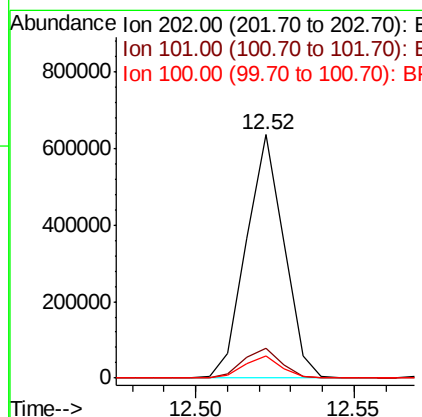
RT: 12.52 min Scan# 1774

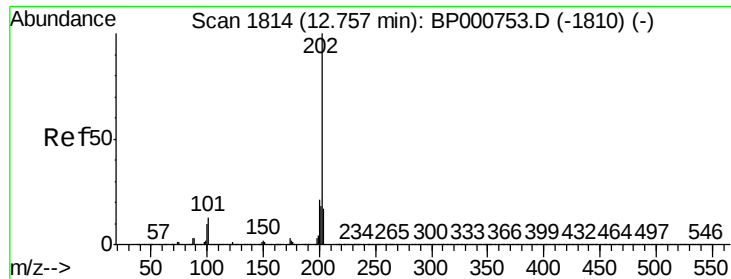
Delta R.T. 0.00 min

Lab File: BP000772.D

Acq: 15 Oct 2019 17:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 524804 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.0  | 9.8   | 14.6   |
| 100       | 9.3   | 7.2   | 10.8   |





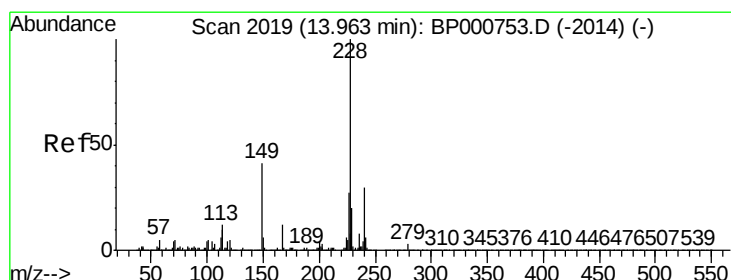
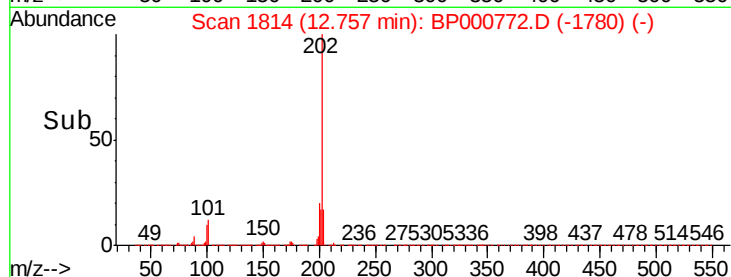
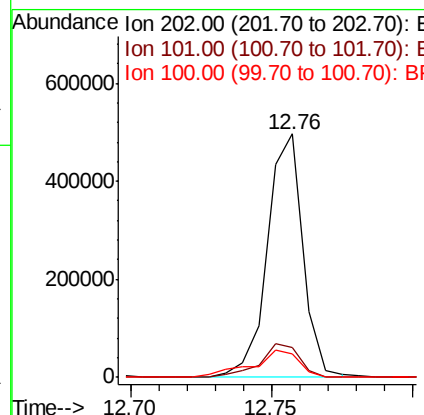
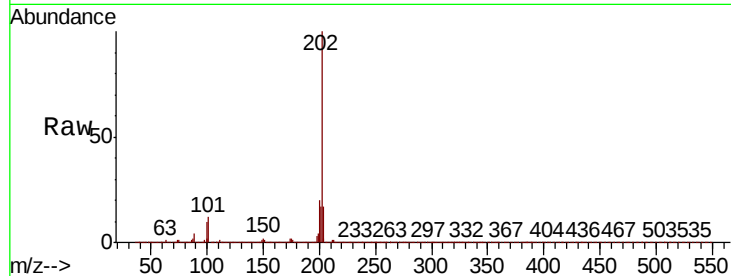
#80  
Pvrene  
Concen: 8.984 ng/ul  
RT: 12.76 min Scan# 1814  
Delta R.T. 0.00 min  
Lab File: BP000772.D  
Acq: 15 Oct 2019 17:45

Instrument :  
BNA\_P  
ClientSampleId :  
BEPG5

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.5  | 9.7        | 14.5  |
| 100     | 9.9   | 7.8        | 11.8  |

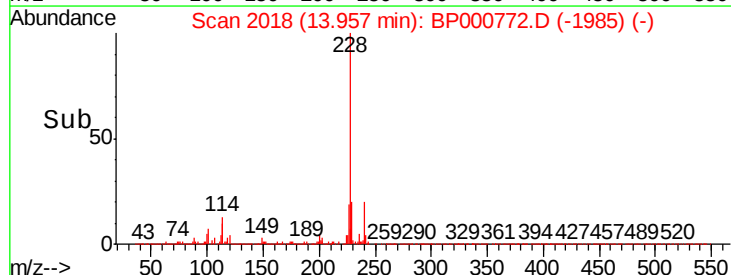
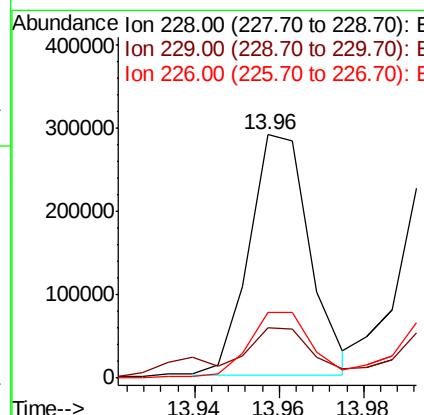
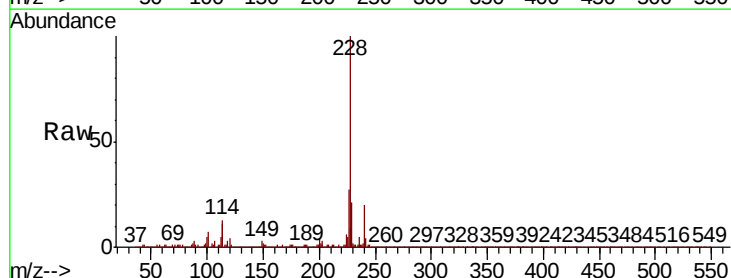
Manual Integrations  
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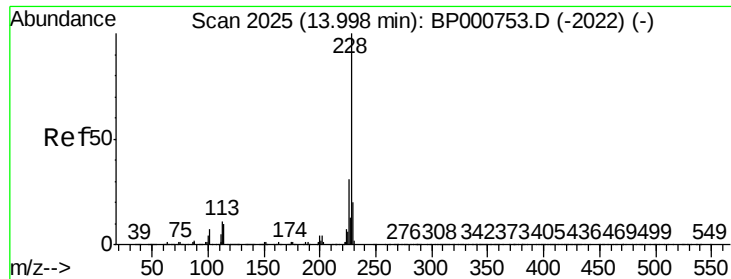
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#83  
Benzo(a)anthracene  
Concen: 6.313 ng/ul  
RT: 13.96 min Scan# 2018  
Delta R.T. -0.01 min  
Lab File: BP000772.D  
Acq: 15 Oct 2019 17:45

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.6  | 15.6       | 23.4  |
| 226     | 27.2  | 21.8       | 32.8  |





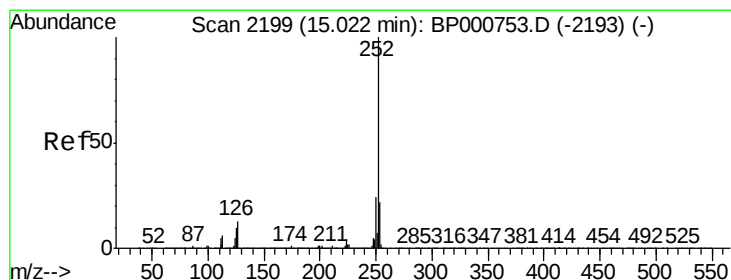
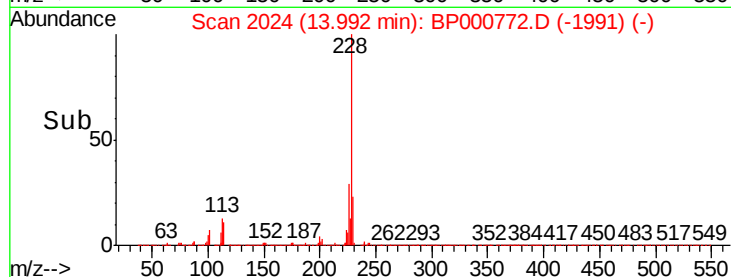
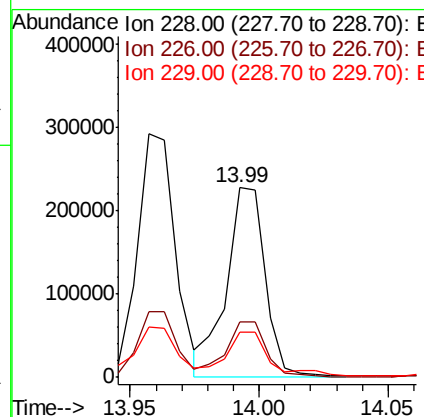
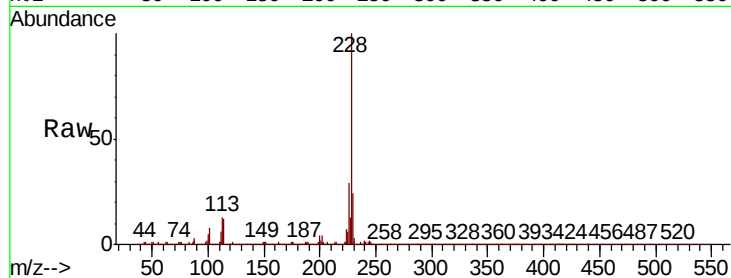
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Chrysene  
Concen: 5.590 ng/ul m  
RT: 13.99 min Scan# 2024  
Delta R.T. -0.01 min  
Lab File: BP000772.D  
Acq: 15 Oct 2019 17:45

Instrument :  
BNA\_P  
ClientSampleId :  
BEPG5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.1  | 24.2  | 36.4  |
| 229     | 24.2  | 15.8  | 23.6  |

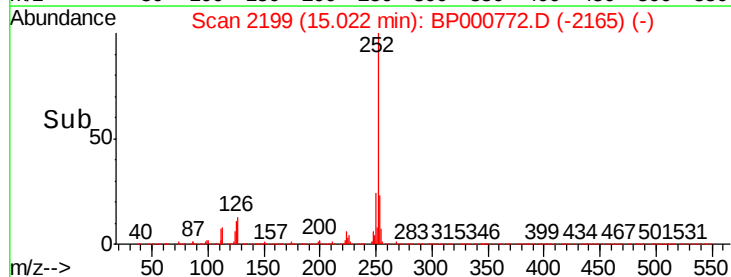
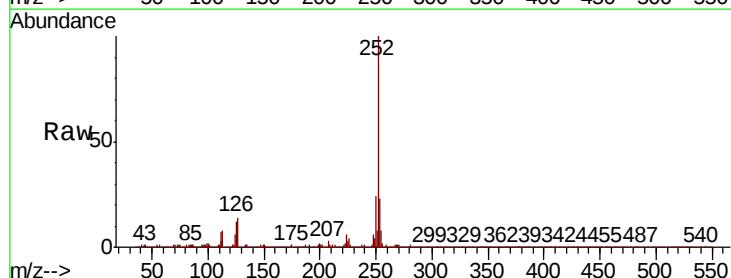
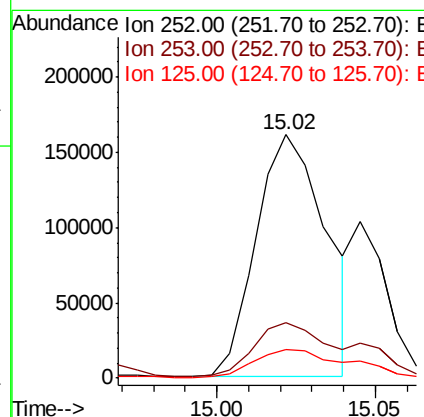
Manual Integrations  
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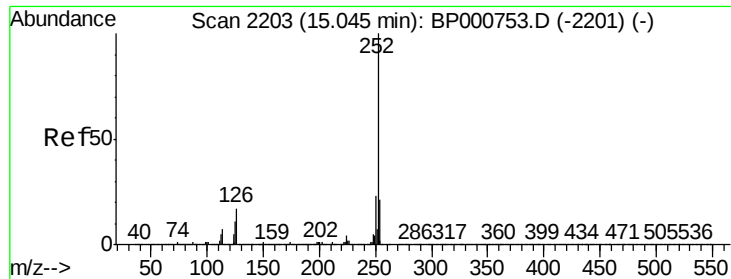
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#88  
Benzo(b)fluoranthene  
Concen: 5.865 ng/ul  
RT: 15.02 min Scan# 2199  
Delta R.T. 0.00 min  
Lab File: BP000772.D  
Acq: 15 Oct 2019 17:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.6  | 26.4  |
| 125     | 11.7  | 8.7   | 13.1  |





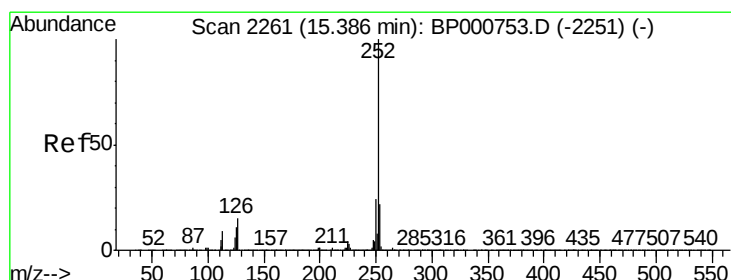
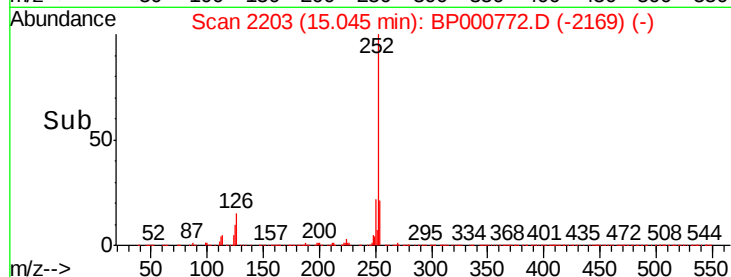
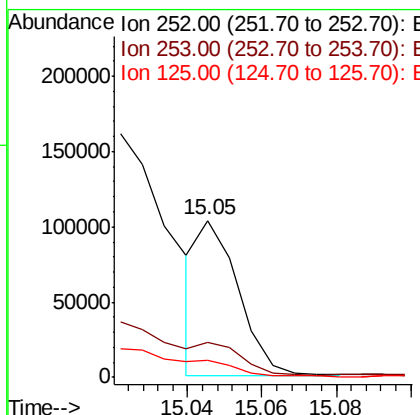
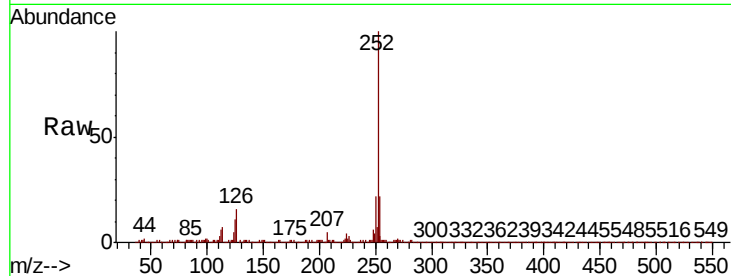
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Benzo(k)fluoranthene  
Concen: 1.965 ng/ul m  
RT: 15.05 min Scan# 2203  
Delta R.T. 0.00 min  
Lab File: BP000772.D  
Acq: 15 Oct 2019 17:45

Instrument :  
BNA\_P  
ClientSampleId :  
BEPG5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.8  | 26.6  |
| 125     | 10.7  | 8.2   | 12.4  |

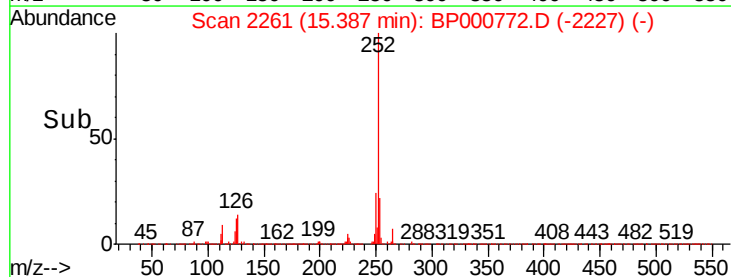
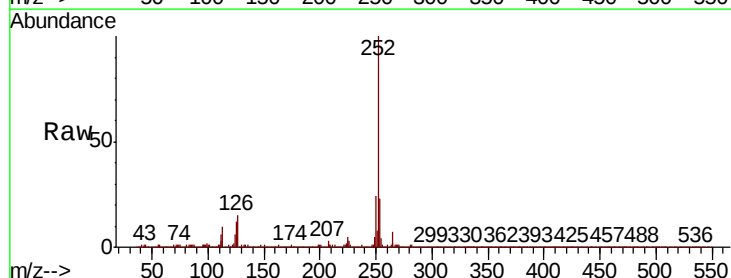
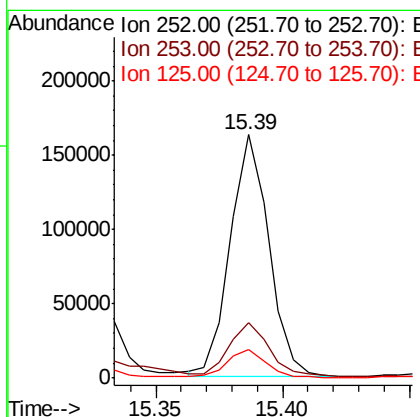
Manual Integrations  
APPROVED

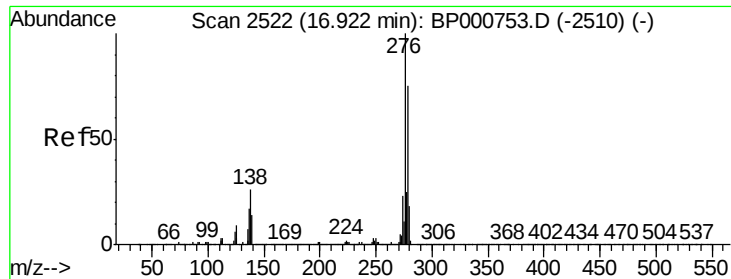
mohammad  
10/17/2019 7:59:10 AM



#91  
Benzo(a)pyrene  
Concen: 4.352 ng/ul  
RT: 15.39 min Scan# 2261  
Delta R.T. 0.00 min  
Lab File: BP000772.D  
Acq: 15 Oct 2019 17:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.6  | 26.4  |
| 125     | 12.0  | 9.7   | 14.5  |





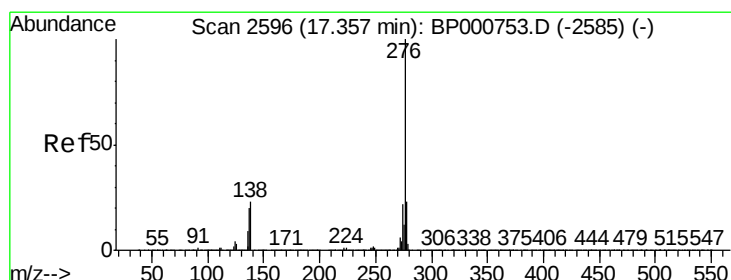
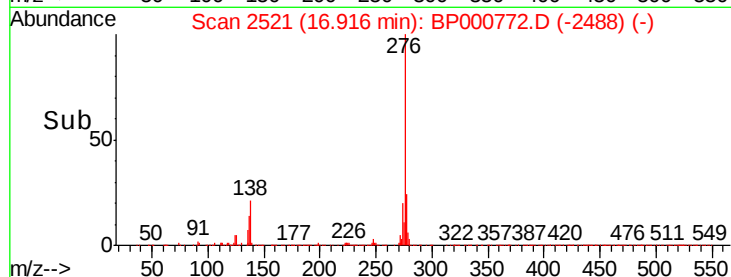
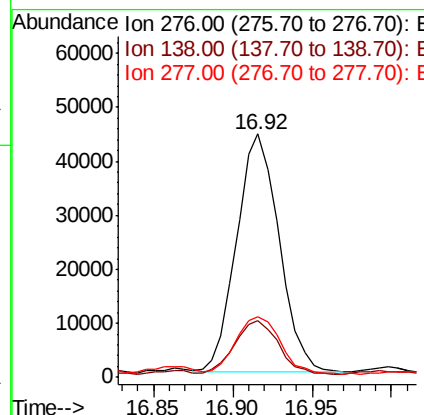
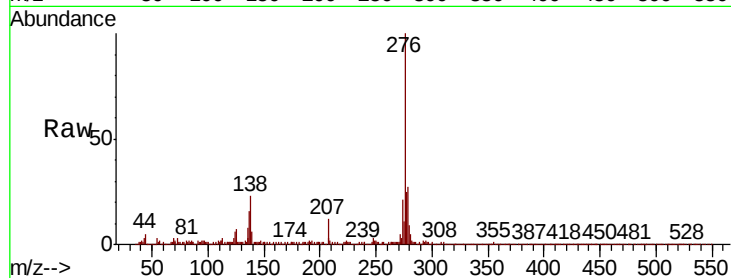
#92  
Indeno(1,2,3-cd)pyrene  
Concen: 1.800 ng/ul  
RT: 16.92 min Scan# 2521  
Delta R.T. -0.01 min  
Lab File: BP000772.D  
Acq: 15 Oct 2019 17:45

Instrument :  
BNA\_P  
ClientSampleId :  
BEPG5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.3  | 20.0  | 30.0  |
| 277     | 24.7  | 19.8  | 29.8  |

Manual Integrations  
APPROVED

mohammad  
10/17/2019 7:59:10 AM



#94  
Benzo(g,h,i)perylene  
Concen: 1.485 ng/ul  
RT: 17.36 min Scan# 2596  
Delta R.T. 0.00 min  
Lab File: BP000772.D  
Acq: 15 Oct 2019 17:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.2  | 18.4  | 27.6  |
| 277     | 23.9  | 19.4  | 29.0  |

