

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA M\DATA\BM121517\  
 Data File : BM013474.D  
 Acq On : 16 Dec 2017 12:22  
 Operator : SJ/JU  
 Sample : I6799-13  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02E1

Manual Integrations  
 APPROVED

Sohil  
 12/18/2017 2:10:40 PM

Quant Time: Dec 18 02:58:18 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Dec 16 00:23:08 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 370168   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 1605979  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.32 | 164  | 910628   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.07 | 188  | 1891929  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.26 | 240  | 1323610  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.49 | 264  | 1166871  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 21001   | 2.81  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.86  | 99  | 528361  | 16.50 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.02  | 67  | 347263  | 19.01 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.21  | 132 | 471919  | 18.86 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.39  | 113 | 227846  | 8.33  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.83  | 128 | 258093  | 20.26 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 277690  | 20.37 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.08 | 165 | 479956  | 17.09 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.60 | 131 | 350438  | 13.57 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.73 | 166 | 1642071 | 20.26 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.01 | 160 | 2063981 | 20.64 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.54 | 143 | 208466  | 14.81 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.32 | 176 | 1396591 | 20.04 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.44 | 200 | 83405   | 7.01  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.17 | 188 | 2023108 | 21.35 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.47 | 212 | 1895639 | 28.75 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.34 | 264 | 1298674 | 21.85 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |              | Ovalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 44) Dimethylphthalate      | 13.78 | 163 | 236750  | 3.055 ng/ul  | 98     |
| 69) Phenanthrene           | 17.11 | 178 | 290505  | 2.703 ng/ul  | 99     |
| 74) Fluoranthene           | 19.13 | 202 | 826893  | 6.278 ng/ul# | 89     |
| 77) Pyrene                 | 19.49 | 202 | 738170  | 9.180 ng/ul# | 90     |
| 80) Benzo(a)anthracene     | 21.24 | 228 | 355476  | 4.233 ng/ul  | 98     |
| 82) Chrysene               | 21.30 | 228 | 344846  | 4.426 ng/ul  | 96     |
| 85) Benzo(b)fluoranthene   | 22.82 | 252 | 444905  | 5.656 ng/ul# | 97     |
| 86) Benzo(k)fluoranthene   | 22.86 | 252 | 116239m | 1.570 ng/ul  |        |
| 88) Benzo(a)pyrene         | 23.39 | 252 | 303156  | 4.290 ng/ul# | 98     |
| 89) Indeno(1,2,3-cd)pyrene | 25.71 | 276 | 208426  | 2.973 ng/ul# | 96     |
| 91) Benzo(g,h,i)perylene   | 26.40 | 276 | 175443  | 3.172 ng/ul# | 89     |

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

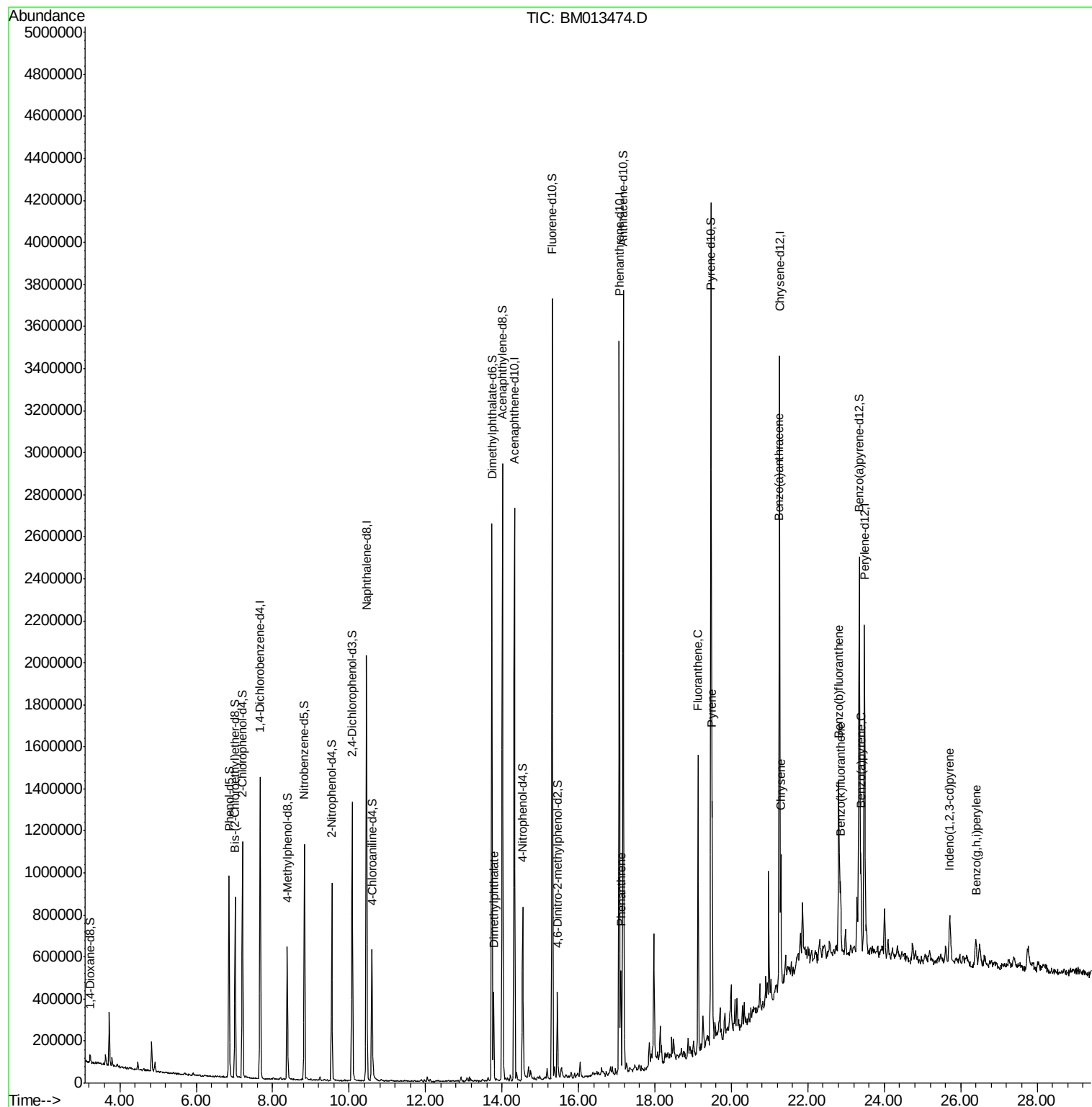
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121517\  
Data File : BM013474.D  
Acq On : 16 Dec 2017 12:22  
Operator : SJ/JU  
Sample : I6799-13  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

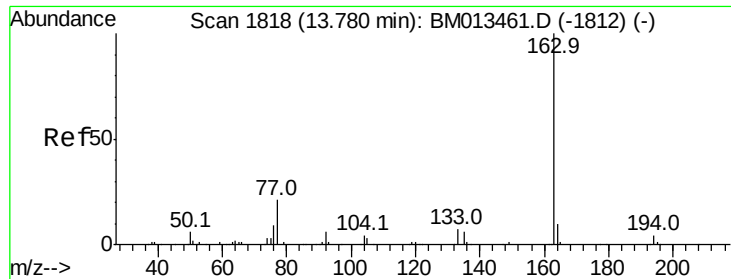
Instrument :  
BNA\_M  
ClientSampleId :  
C02E1

Manual Integrations  
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12/18/2017 2:10:40 PM

Quant Time: Dec 18 02:58:18 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Dec 16 00:23:08 2017  
Response via : Initial Calibration





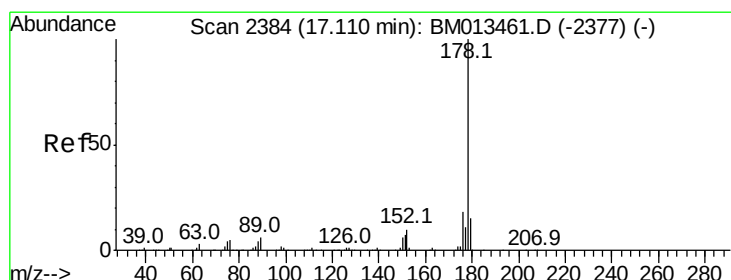
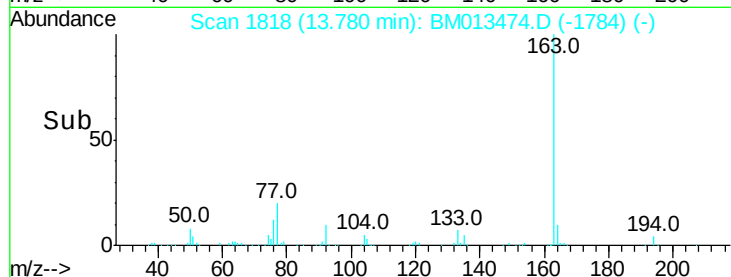
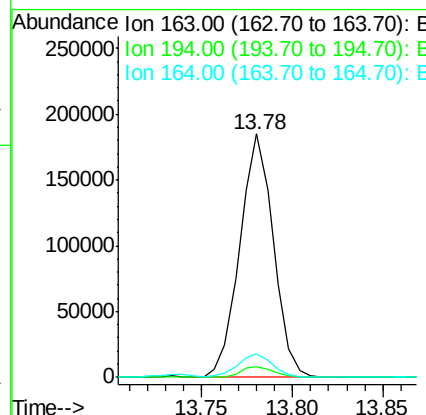
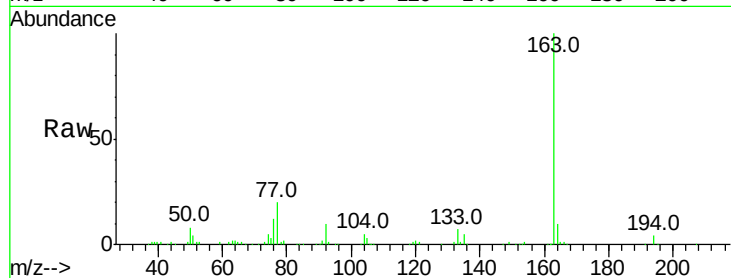
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Dimethylphthalate  
Concen: 3.055 ng/ul  
RT: 13.78 min Scan# 1818  
Delta R.T. -0.00 min  
Lab File: BM013474.D  
Acq: 16 Dec 2017 12:22

Instrument :  
BNA\_M  
ClientSampled :  
C02E1

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 236750 |       |       |
| 194     | 4.4   | 3.5    | 5.3   |       |
| 164     | 9.5   | 8.2    | 12.4  |       |

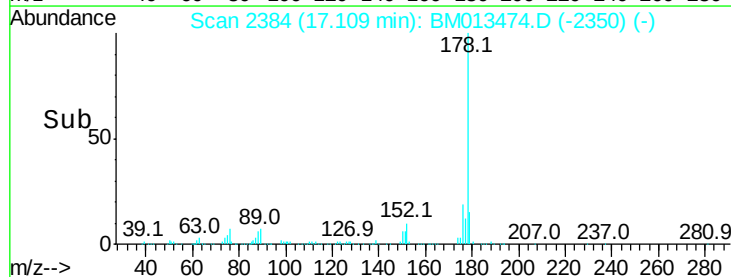
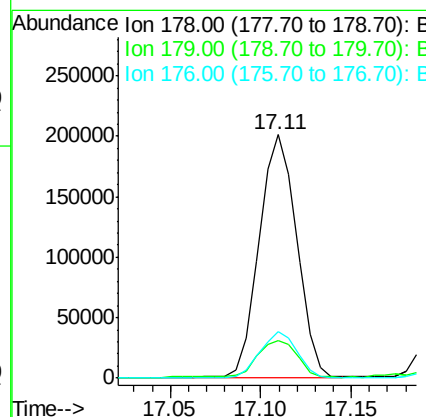
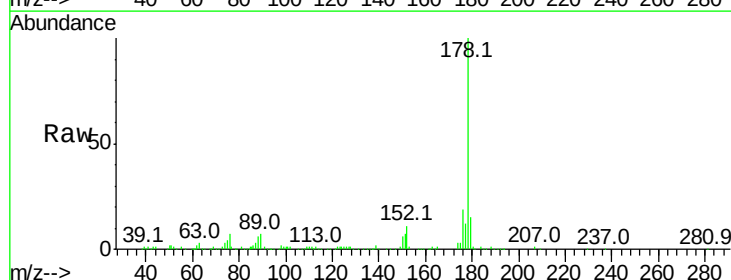
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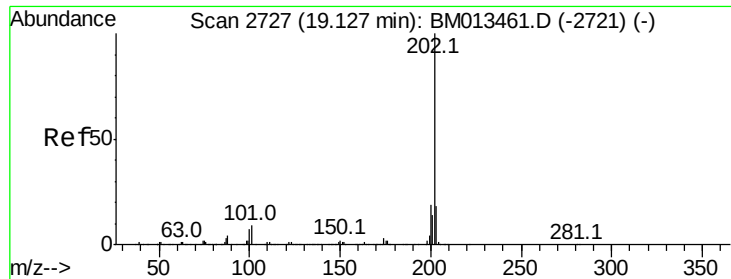
Sohil  
12/18/2017 2:10:40 PM



#69  
Phenanthrene  
Concen: 2.703 ng/ul  
RT: 17.11 min Scan# 2384  
Delta R.T. -0.00 min  
Lab File: BM013474.D  
Acq: 16 Dec 2017 12:22

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 290505 |       |       |
| 179     | 15.2  | 12.6   | 19.0  |       |
| 176     | 18.9  | 14.9   | 22.3  |       |





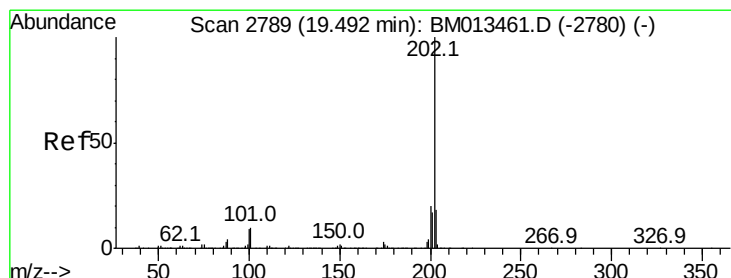
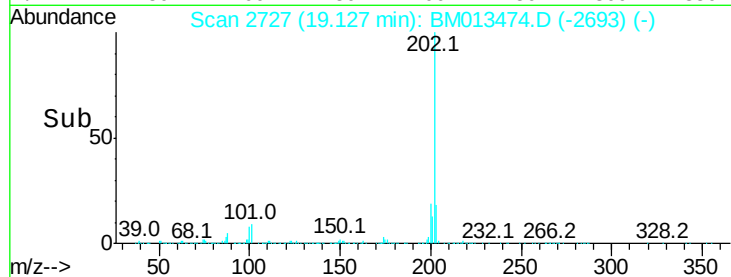
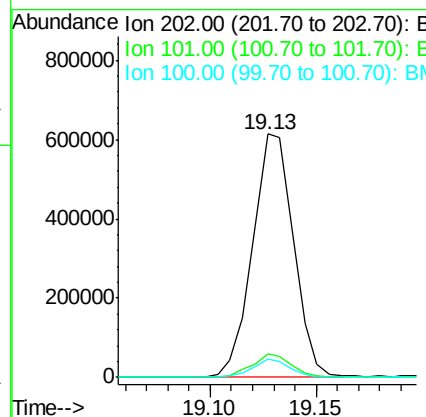
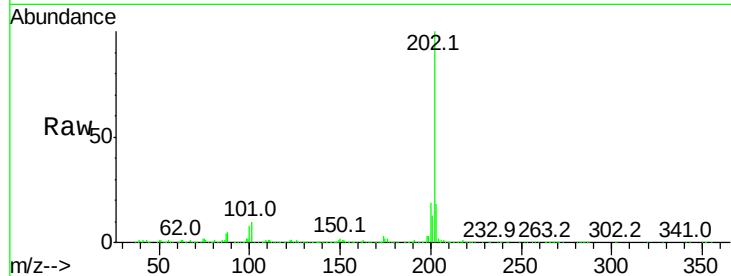
#74  
 Fluoranthene  
 Concen: 6.278 ng/ul  
 RT: 19.13 min Scan# 2727  
 Delta R.T. -0.00 min  
 Lab File: BM013474.D  
 Acq: 16 Dec 2017 12:22

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02E1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 9.5   | 4.6        | 7.0#  |
| 100     | 7.7   | 3.4        | 5.2#  |

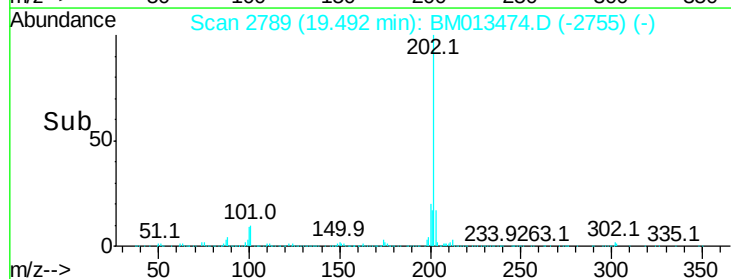
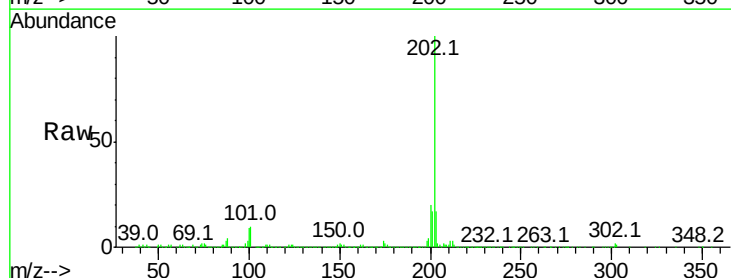
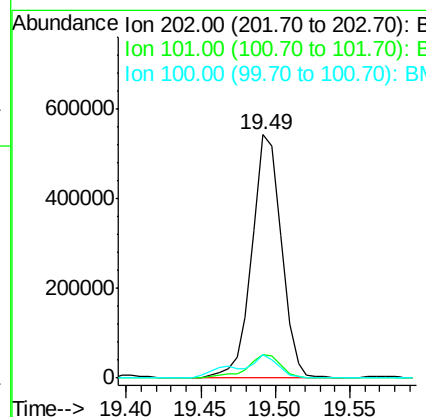
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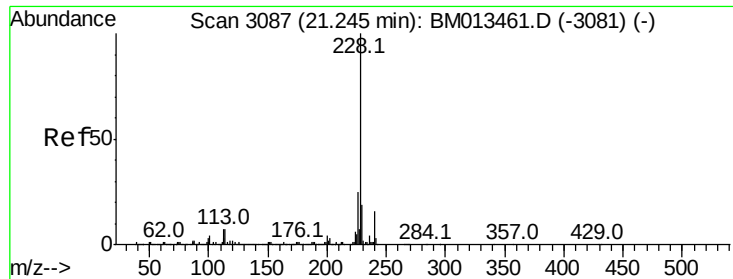
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#77  
 Pyrene  
 Concen: 9.180 ng/ul  
 RT: 19.49 min Scan# 2789  
 Delta R.T. -0.00 min  
 Lab File: BM013474.D  
 Acq: 16 Dec 2017 12:22

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 9.9   | 5.1        | 7.7#  |
| 100     | 9.4   | 4.9        | 7.3#  |





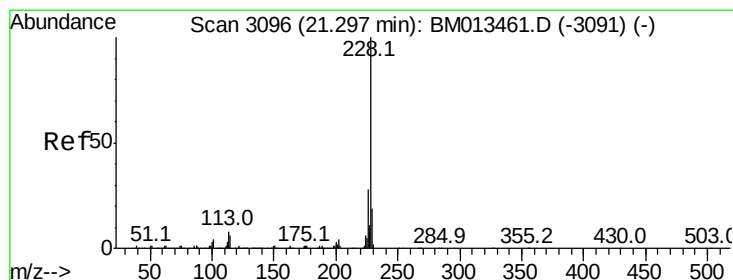
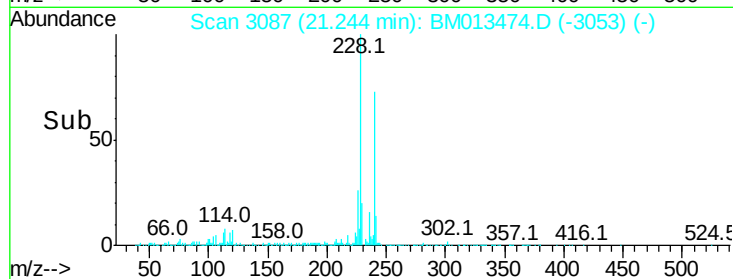
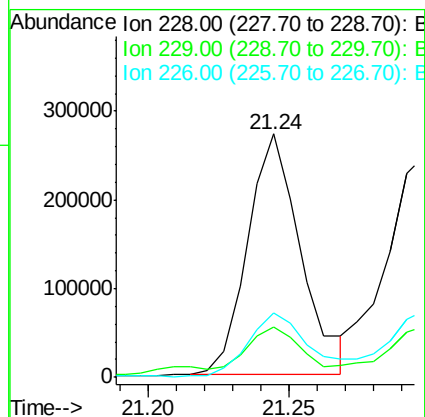
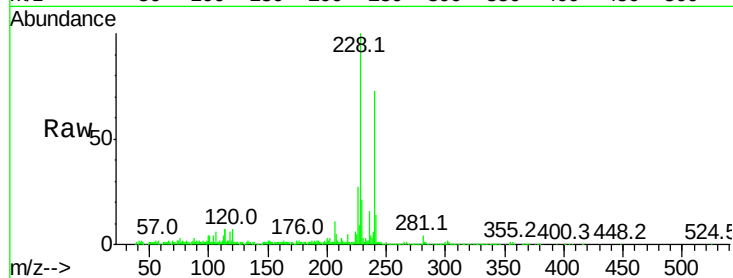
#80  
Benzo(a)anthracene  
Concen: 4.233 ng/ul  
RT: 21.24 min Scan# 3087  
Delta R.T. -0.00 min  
Lab File: BM013474.D  
Acq: 16 Dec 2017 12:22

Instrument :  
BNA\_M  
ClientSampled :  
C02E1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.8  | 15.4  | 23.0  |
| 226     | 26.5  | 21.4  | 32.0  |

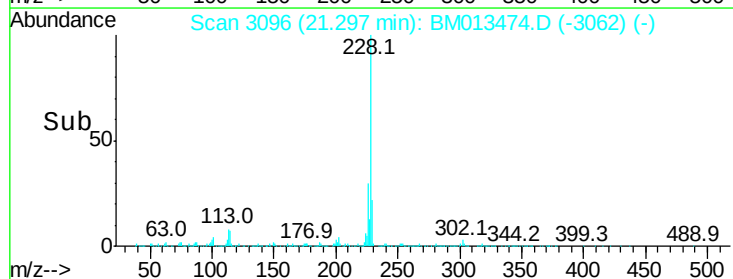
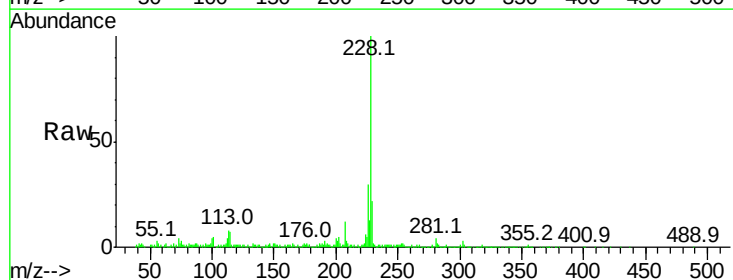
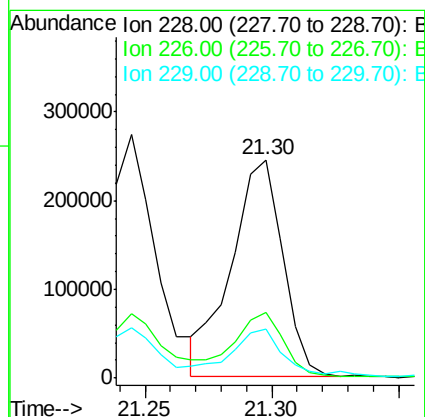
Manual Integrations  
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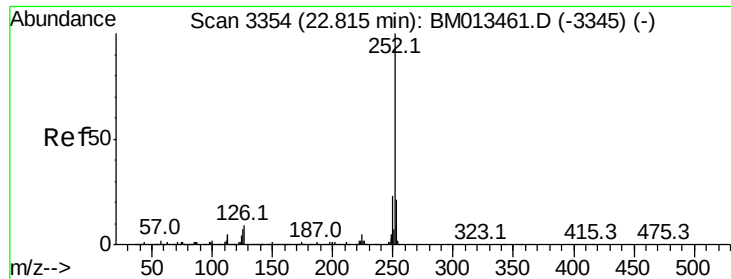
Sohil  
12/18/2017 2:10:40 PM



#82  
Chrysene  
Concen: 4.426 ng/ul  
RT: 21.30 min Scan# 3096  
Delta R.T. -0.00 min  
Lab File: BM013474.D  
Acq: 16 Dec 2017 12:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 23.4  | 35.2  |
| 229     | 22.4  | 15.5  | 23.3  |





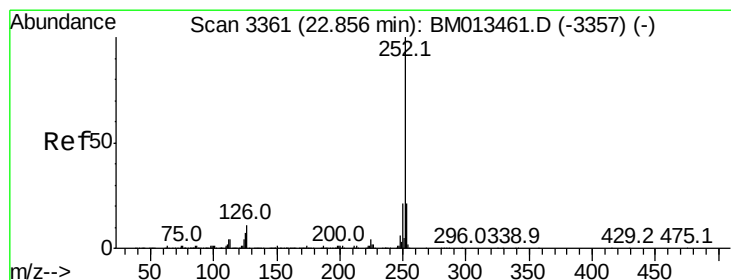
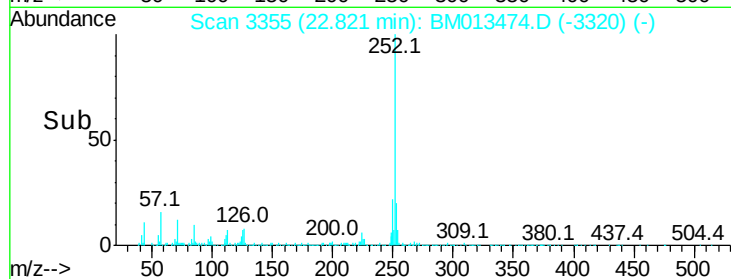
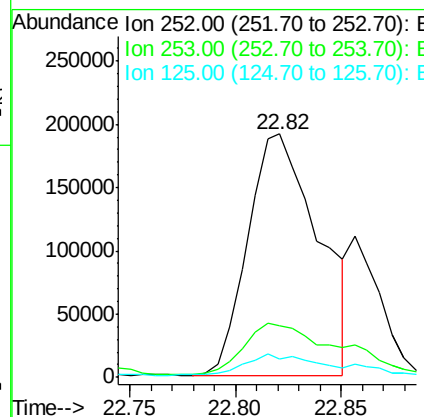
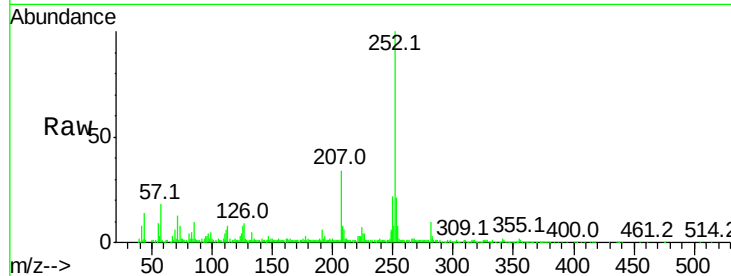
#85  
Benzo(b)fluoranthene  
Concen: 5.656 ng/ul  
RT: 22.82 min Scan# 3355  
Delta R.T. 0.01 min  
Lab File: BM013474.D  
Acq: 16 Dec 2017 12:22

Instrument :  
BNA\_M  
ClientSampled :  
C02E1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.3  | 17.9  | 26.9  |
| 125     | 7.6   | 3.6   | 5.4   |

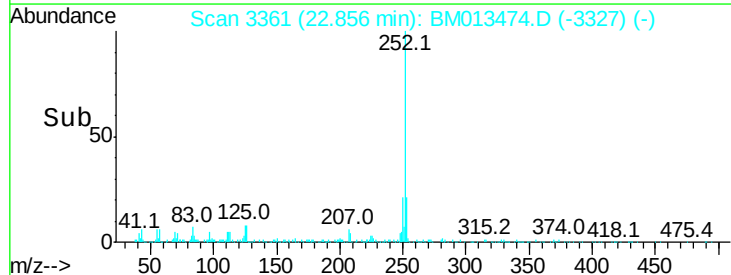
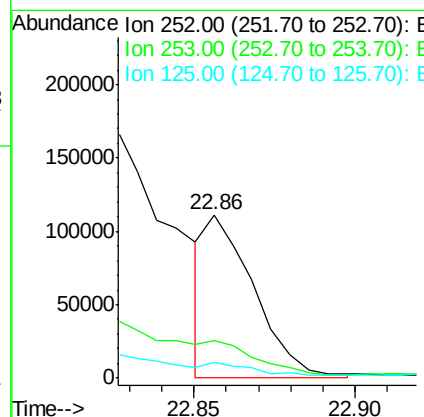
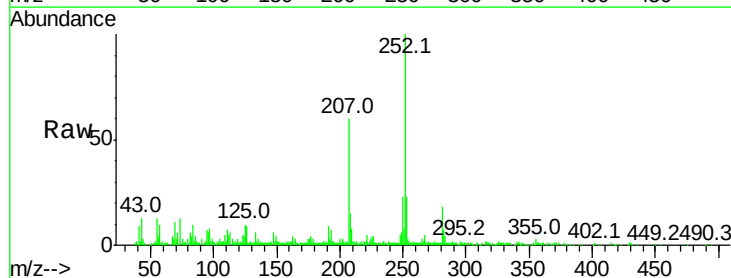
Manual Integrations  
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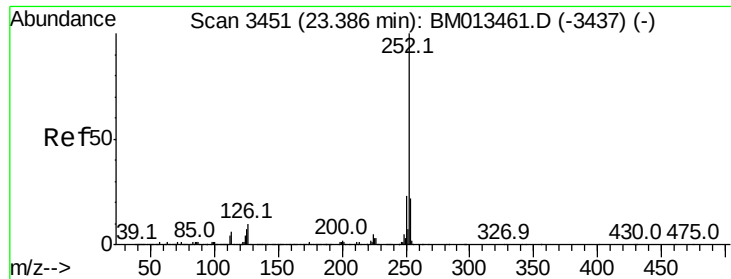
Sohil  
12/18/2017 2:10:40 PM



#86  
Benzo(k)fluoranthene  
Concen: 1.570 ng/ul m  
RT: 22.86 min Scan# 3361  
Delta R.T. -0.00 min  
Lab File: BM013474.D  
Acq: 16 Dec 2017 12:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.1  | 25.7  |
| 125     | 9.8   | 3.4   | 5.2   |





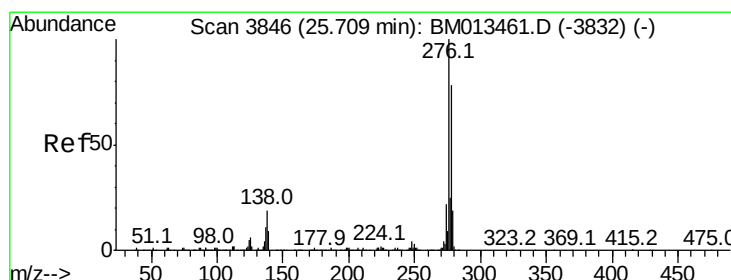
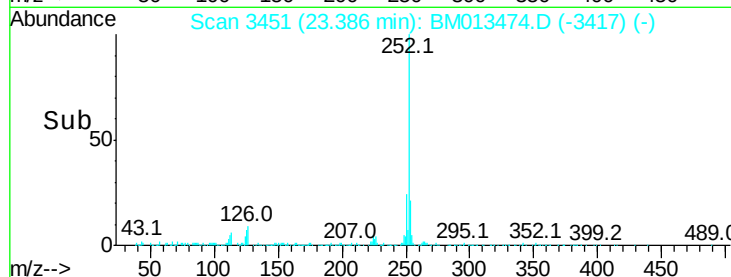
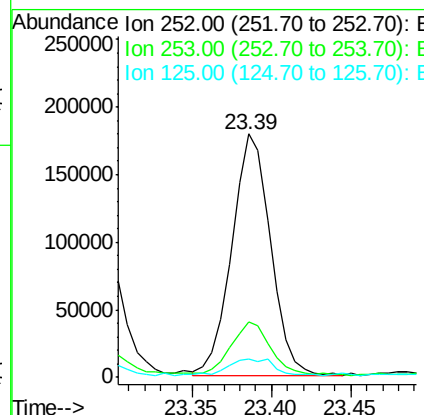
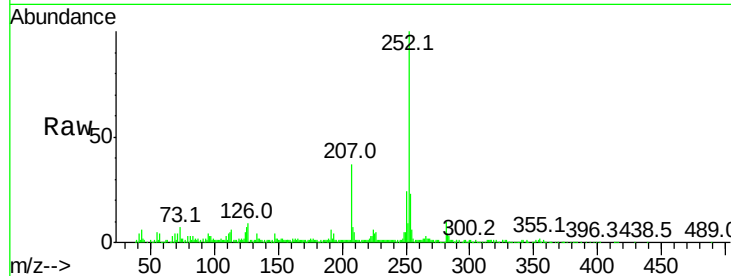
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Benzo(a)pyrene  
Concen: 4.290 ng/ul  
RT: 23.39 min Scan# 3451  
Delta R.T. -0.00 min  
Lab File: BM013474.D  
Acq: 16 Dec 2017 12:22

Instrument :  
BNA\_M  
ClientSampled :  
C02E1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.2  | 27.2  |
| 125     | 7.4   | 4.0   | 6.0   |

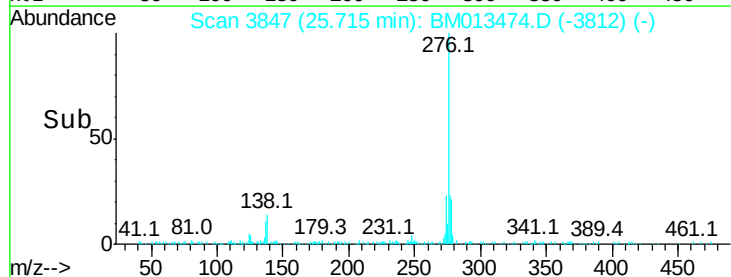
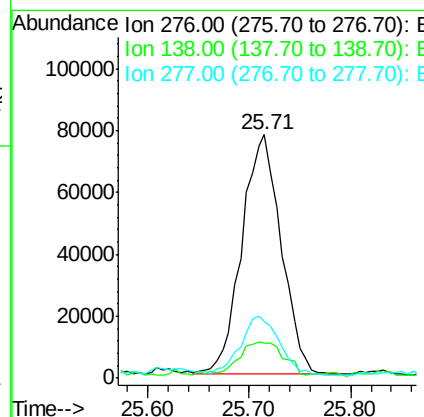
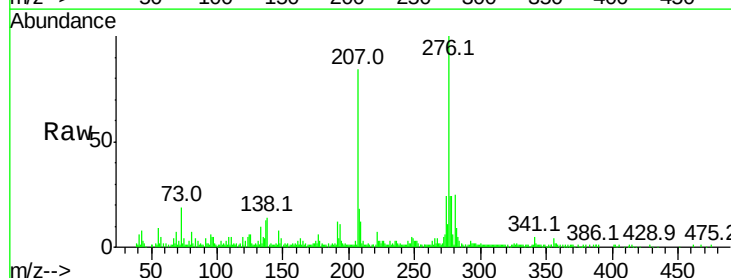
Manual Integrations  
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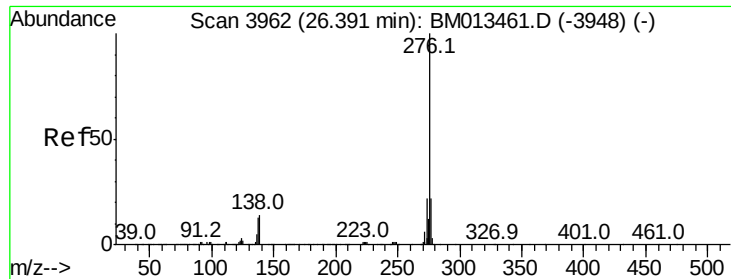
Sohil  
12/18/2017 2:10:40 PM



#89  
Indeno(1,2,3-cd)pyrene  
Concen: 2.973 ng/ul  
RT: 25.71 min Scan# 3847  
Delta R.T. 0.01 min  
Lab File: BM013474.D  
Acq: 16 Dec 2017 12:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.1  | 9.3   | 13.9  |
| 277     | 23.5  | 19.9  | 29.9  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 3.172 ng/ul  
 RT: 26.40 min Scan# 3963  
 Delta R.T. -0.00 min  
 Lab File: BM013474.D  
 Acq: 16 Dec 2017 12:22

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02E1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.6  | 8.5   | 12.7# |
| 277     | 19.4  | 18.6  | 28.0  |

Manual Integrations  
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 12/18/2017 2:10:40 PM

