

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM032419\  
 Data File : BM019389.D  
 Acq On : 24 Mar 2019 13:25  
 Operator : JU/SJ  
 Sample : K2027-08  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampled :  
 C0987

Manual Integrations  
 APPROVED

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Quant Time: Mar 25 03:18:19 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Mar 25 02:03:45 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 135646   | 20.00 | ng/ul | 0.06     |
| 18) Naphthalene-d8        | 10.42 | 136  | 519001   | 20.00 | ng/ul | 0.02     |
| 36) Acenaphthene-d10      | 14.26 | 164  | 274154   | 20.00 | ng/ul | -0.01    |
| 62) Phenanthrene-d10      | 17.02 | 188  | 583306   | 20.00 | ng/ul | -0.01    |
| 78) Chrysene-d12          | 21.23 | 240  | 616577   | 20.00 | ng/ul | -0.01    |
| 86) Perylene-d12          | 23.44 | 264  | 690358   | 20.00 | ng/ul | -0.02    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.15  | 96  | 15477   | 4.47  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.80  | 99  | 108171  | 8.95  | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.99  | 67  | 268618  | 33.22 | ng/ul | 0.02  |
| 9) 2-Chlorophenol-d4           | 7.16  | 132 | 287588  | 31.41 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.33  | 113 | 172590m | 19.03 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.79  | 128 | 161544  | 43.63 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.50  | 143 | 181248  | 43.99 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.03 | 165 | 301324  | 38.76 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.56 | 131 | 25389   | 2.72  | ng/ul | 0.00  |
| 44) Dimethylphthalate-d6       | 13.69 | 166 | 937838  | 42.40 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 13.96 | 160 | 1178306 | 42.60 | ng/ul | -0.01 |
| 52) 4-Nitrophenol-d4           | 14.52 | 143 | 31324m  | 9.03  | ng/ul | 0.01  |
| 58) Fluorene-d10               | 15.26 | 176 | 787286  | 41.31 | ng/ul | -0.01 |
| 63) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 150106  | 38.91 | ng/ul | -0.01 |
| 71) Anthracene-d10             | 17.12 | 188 | 1229204 | 43.91 | ng/ul | -0.01 |
| 79) Pyrene-d10                 | 19.43 | 212 | 1321637 | 46.41 | ng/ul | -0.01 |
| 90) Benzo(a)pyrene-d12         | 23.30 | 264 | 1531587 | 41.85 | ng/ul | -0.02 |

## Target Compounds

|                                |       |     |         |         | Ovalue |    |
|--------------------------------|-------|-----|---------|---------|--------|----|
| 17) Hexachloroethane           | 8.68  | 117 | 4956    | 1.267   | ng/ul# | 89 |
| 20) Nitrobenzene               | 8.84  | 77  | 4514073 | 409.599 | ng/ul  | 97 |
| 23) 2-Nitrophenol              | 9.53  | 139 | 42480   | 9.346   | ng/ul  | 95 |
| 28) Naphthalene                | 10.46 | 128 | 37755   | 1.404   | ng/ul  | 98 |
| 37) 1,2,4,5-Tetrachlorobenzene | 12.43 | 216 | 448343  | 51.393  | ng/ul# | 95 |
| 73) 1,2,3,4-Tetrachlorobenzene | 13.05 | 216 | 1640246 | 193.954 | ng/uL  | 98 |
| 74) Pentachlorobenzene         | 14.58 | 250 | 25253   | 2.855   | ng/uL  | 98 |

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

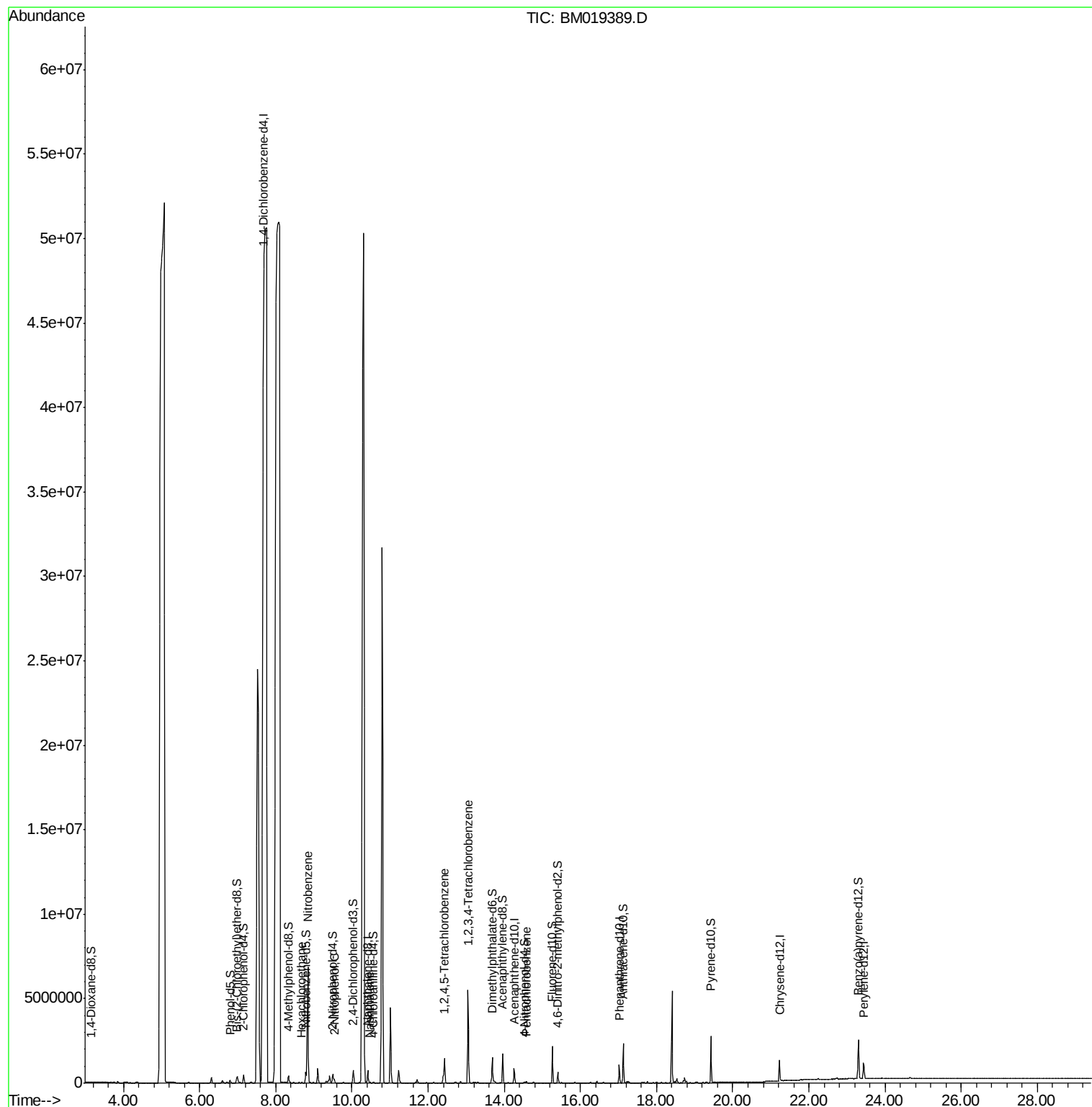
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM032419\  
Data File : BM019389.D  
Acq On : 24 Mar 2019 13:25  
Operator : JU/SJ  
Sample : K2027-08  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

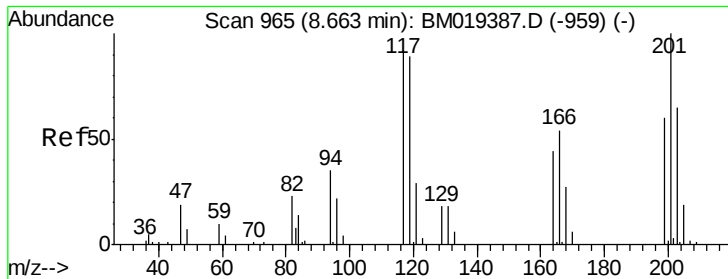
Instrument :  
BNA\_M  
ClientSampleId :  
C0987

Quant Time: Mar 25 03:18:19 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Mar 25 02:03:45 2019  
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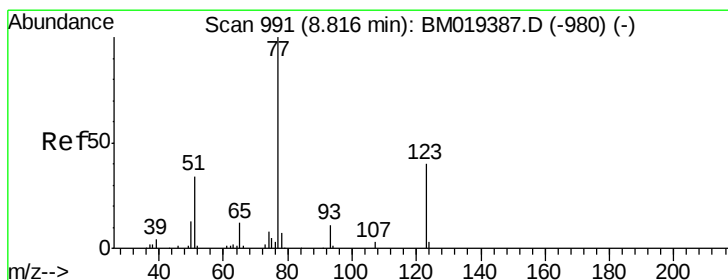
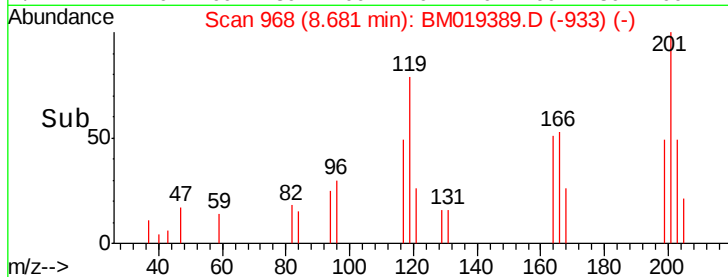
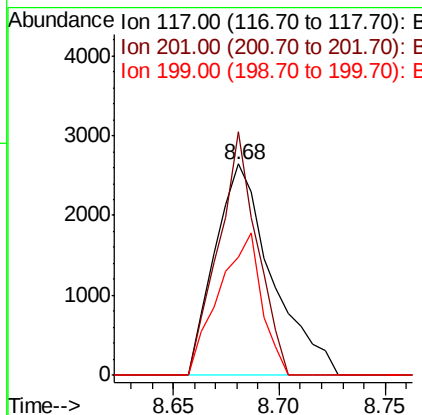
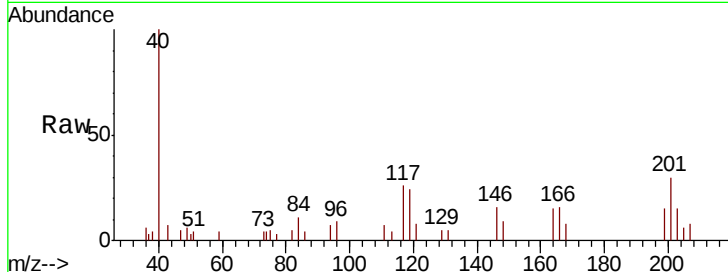
#17  
Hexachloroethane  
Concen: 1.267 ng/ul  
RT: 8.68 min Scan# 968  
Delta R.T. 0.01 min  
Lab File: BM019389.D  
Acq: 24 Mar 2019 13:25

Instrument :  
BNA\_M  
ClientSampled :  
C0987

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 115.3 | 96.1  | 144.1 |
| 199     | 56.0  | 59.7  | 89.5# |

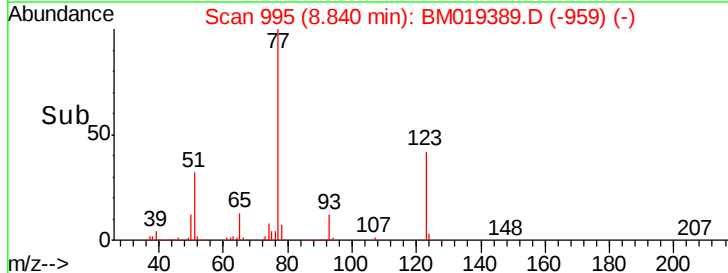
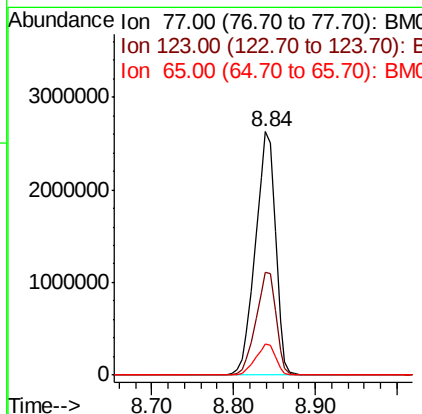
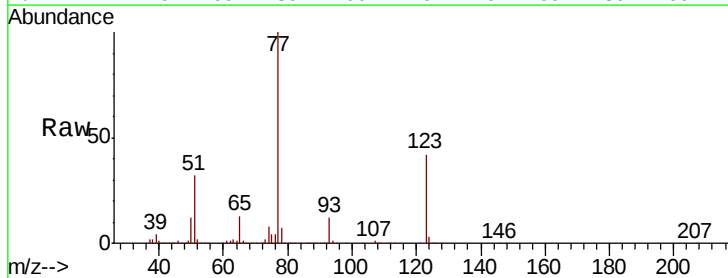
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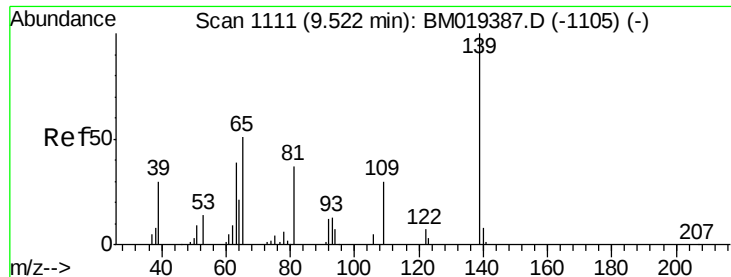
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#20  
Nitrobenzene  
Concen: 409.599 ng/ul  
RT: 8.84 min Scan# 995  
Delta R.T. 0.01 min  
Lab File: BM019389.D  
Acq: 24 Mar 2019 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 42.3  | 31.8  | 47.8  |
| 65      | 12.7  | 10.6  | 16.0  |





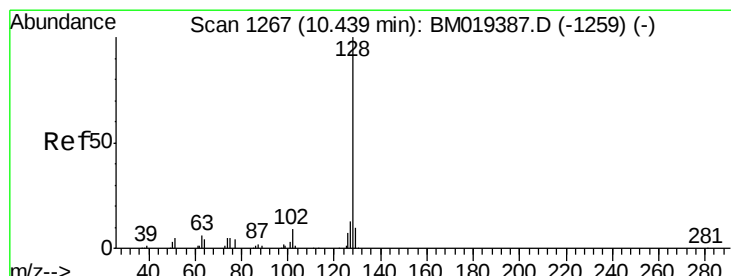
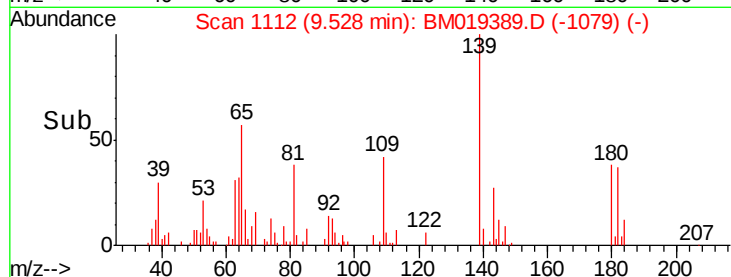
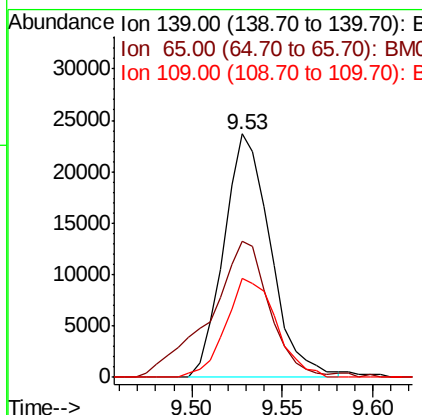
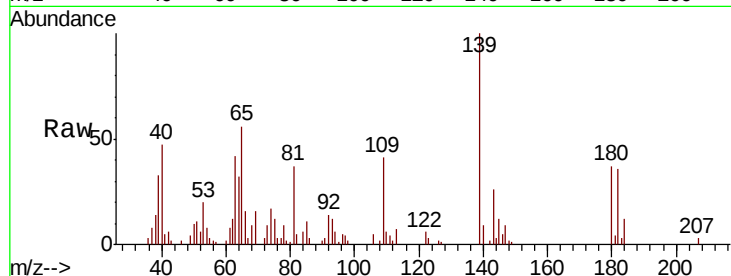
#23  
2-Nitrophenol  
Concen: 9.346 ng/ul  
RT: 9.53 min Scan# 1112  
Delta R.T. -0.01 min  
Lab File: BM019389.D  
Acq: 24 Mar 2019 13:25

Instrument :  
BNA\_M  
ClientSampled :  
C0987

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 139     | 100   | 42480 |       |       |
| 65      | 55.9  |       | 45.3  | 67.9  |
| 109     | 40.7  |       | 27.7  | 41.5  |

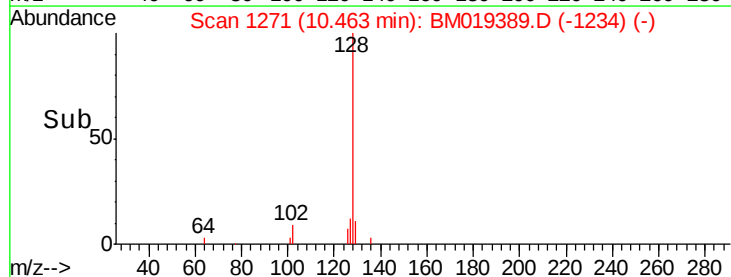
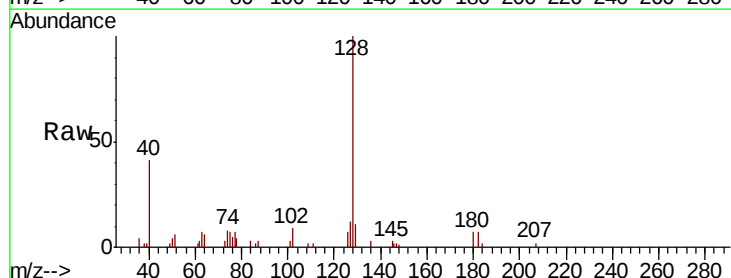
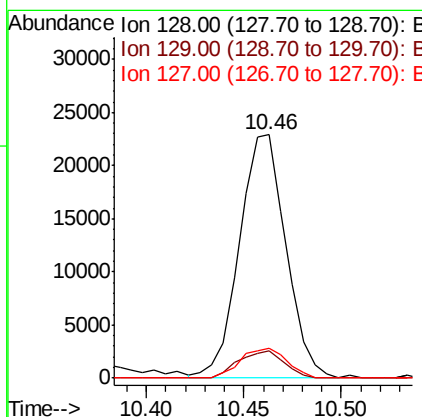
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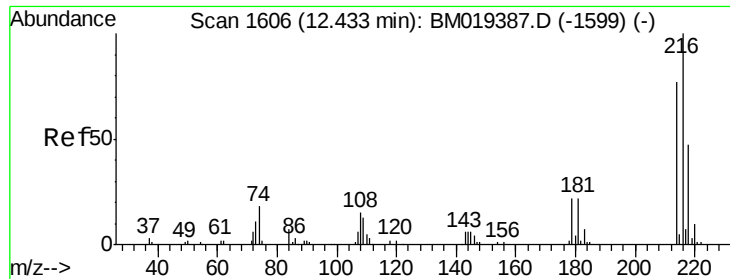
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#28  
Naphthalene  
Concen: 1.404 ng/ul  
RT: 10.46 min Scan# 1271  
Delta R.T. 0.02 min  
Lab File: BM019389.D  
Acq: 24 Mar 2019 13:25

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 128     | 100   | 37755 |       |       |
| 129     | 11.1  |       | 8.3   | 12.5  |
| 127     | 12.4  |       | 10.8  | 16.2  |





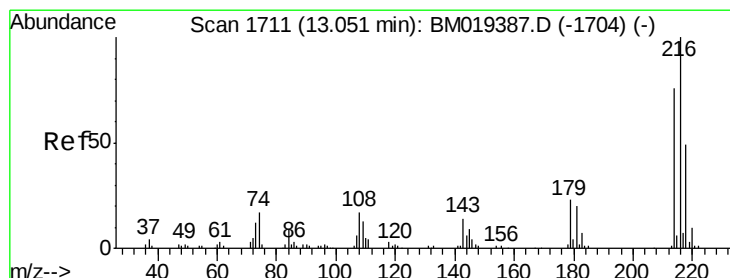
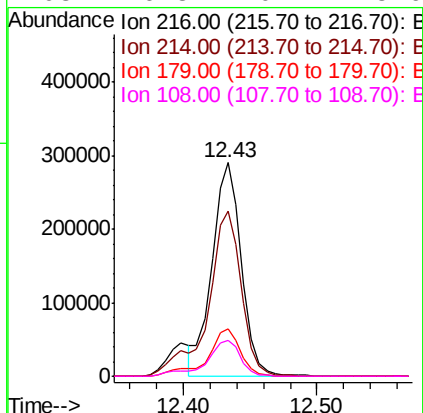
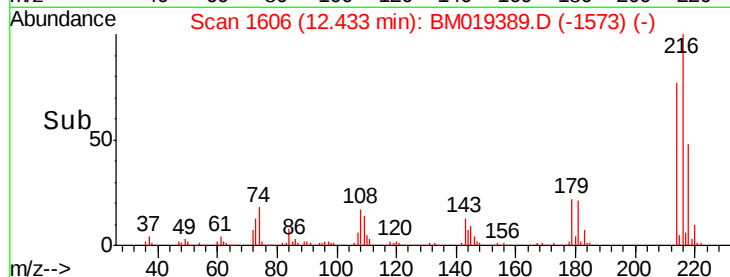
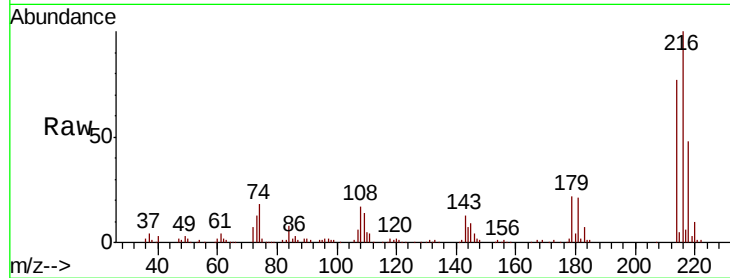
#37  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 51.393 ng/uL  
 RT: 12.43 min Scan# 1606  
 Delta R.T. -0.01 min  
 Lab File: BM019389.D  
 Acq: 24 Mar 2019 13:25

Instrument :  
 BNA\_M  
 ClientSampled :  
 C0987

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 216     | 100   |       |       |
| 214     | 77.4  | 64.1  | 96.1  |
| 179     | 22.3  | 14.5  | 21.7  |
| 108     | 16.8  | 10.4  | 15.6  |

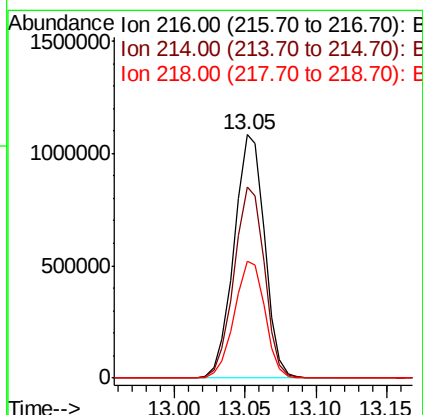
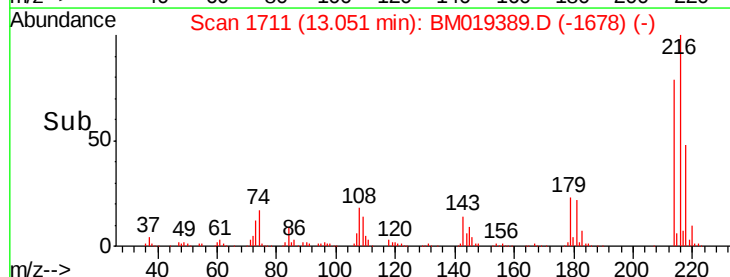
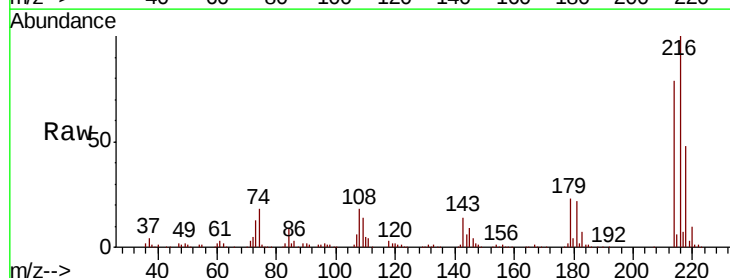
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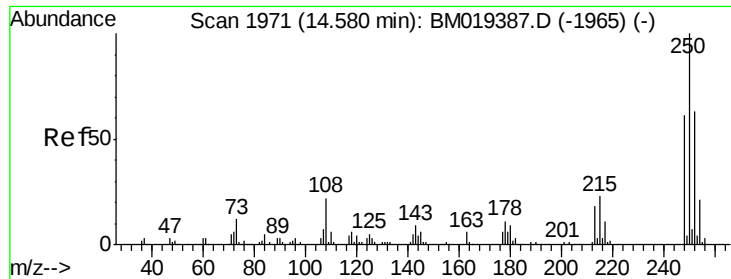
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#73  
 1,2,3,4-Tetrachlorobenzene  
 Concen: 193.954 ng/uL  
 RT: 13.05 min Scan# 1711  
 Delta R.T. -0.01 min  
 Lab File: BM019389.D  
 Acq: 24 Mar 2019 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 216     | 100   |       |       |
| 214     | 78.6  | 64.1  | 96.1  |
| 218     | 47.8  | 39.4  | 59.0  |





#74  
 Pentachlorobenzene  
 Concen: 2.855 ng/uL  
 RT: 14.58 min Scan# 1971  
 Delta R.T. -0.01 min  
 Lab File: BM019389.D  
 Acq: 24 Mar 2019 13:25

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0987

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 250   | Resp: | 25253 |
| Ion Ratio | Lower | Upper |       |
| 250       | 100   |       |       |
| 248       | 65.1  | 51.4  | 77.2  |
| 252       | 64.7  | 49.8  | 74.6  |

Manual Integrations  
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