

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022620\  
 Data File : VW015052.D  
 Acq On : 26 Feb 2020 19:47  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02530

Quant Time: Feb 27 02:05:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM022420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 27 02:01:40 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 635998   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 596411   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 271921   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 350510   | 22.03    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.12%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 263735   | 23.00    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.00%   |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 587090   | 23.71    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 94.84%   |
| 20) 2-Butanone-d5              | 7.07   | 46    | 168161   | 63.24    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 126.48%  |
| 24) Chloroform-d               | 7.65   | 84    | 540483   | 25.87    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 103.48%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 319687   | 27.34    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 109.36%  |
| 29) Benzene-d6                 | 8.27   | 84    | 1073952  | 26.20    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 104.80%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 358940   | 26.16    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 104.64%  |
| 37) Toluene-d8                 | 10.32  | 98    | 925426   | 27.07    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 108.28%  |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 137379   | 27.09    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 108.36%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 125996   | 69.36    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 138.72%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 268206   | 30.25    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 121.00%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 255055   | 25.60    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 102.40%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 126914   | 23.386 | ug/L  | 96     |
| 3) Chloromethane               | 2.21 | 50   | 285024   | 22.911 | ug/L  | 100    |
| 5) Vinyl chloride              | 2.36 | 62   | 380309   | 23.628 | ug/L  | 99     |
| 6) Bromomethane                | 2.78 | 94   | 172387   | 23.857 | ug/L  | 97     |
| 8) Chloroethane                | 2.93 | 64   | 214453   | 24.486 | ug/L  | 100    |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 160052   | 22.064 | ug/L  | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101  | 260006   | 26.025 | ug/L  | 100    |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 238746   | 25.100 | ug/L  | 84     |
| 13) Acetone                    | 4.12 | 43   | 166946   | 53.082 | ug/L  | 99     |
| 14) Carbon disulfide           | 4.38 | 76   | 875496   | 24.597 | ug/L  | 100    |
| 15) Methyl Acetate             | 4.67 | 43   | 163799   | 30.930 | ug/L  | 99     |
| 16) Methylene chloride         | 4.91 | 84   | 297544   | 25.276 | ug/L  | 96     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 311924   | 27.093 | ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 251335   | 25.576 | ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 579814   | 26.454 | ug/L  | 99     |
| 21) 2-Butanone                 | 7.16 | 43   | 224614   | 60.734 | ug/L  | 100    |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96   | 264969   | 26.495 | ug/L  | 97     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 105923   | 27.227 | ug/L   | 94       |
| 25) Chloroform                  | 7.67  | 83   | 523991   | 26.344 | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 383705   | 28.194 | ug/L   | 98       |
| 30) Cyclohexane                 | 7.95  | 56   | 527179   | 26.438 | ug/L   | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 384202   | 24.978 | ug/L   | 99       |
| 32) Carbon tetrachloride        | 8.06  | 117  | 348625   | 25.293 | ug/L   | 99       |
| 34) Benzene                     | 8.32  | 78   | 1212018  | 27.319 | ug/L   | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 275090   | 25.633 | ug/L   | 99       |
| 36) Methylcyclohexane           | 9.33  | 83   | 503895   | 27.343 | ug/L   | 100      |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 341925   | 27.749 | ug/L   | 100      |
| 41) Bromodichloromethane        | 9.64  | 83   | 379926   | 27.488 | ug/L   | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 441505   | 27.497 | ug/L   | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 462122   | 67.054 | ug/L   | 100      |
| 44) Toluene                     | 10.38 | 91   | 1212576  | 28.142 | ug/L   | 96       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 371080   | 28.594 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 198068   | 28.565 | ug/L   | 99       |
| 47) Tetrachloroethene           | 10.86 | 164  | 179195   | 25.908 | ug/L   | 96       |
| 49) 2-Hexanone                  | 10.96 | 43   | 340978   | 68.244 | ug/L   | 98       |
| 50) Dibromochloromethane        | 11.12 | 129  | 208023   | 28.190 | ug/L   | 96       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 179215   | 29.656 | ug/L # | 96       |
| 52) Chlorobenzene               | 11.65 | 112  | 670595   | 26.460 | ug/L   | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 1314819  | 27.934 | ug/L   | 100      |
| 54) m,p-Xylene                  | 11.83 | 106  | 461813   | 28.042 | ug/L   | 98       |
| 55) o-xylene                    | 12.16 | 106  | 435384   | 28.374 | ug/L   | 98       |
| 56) Styrene                     | 12.18 | 104  | 777492   | 29.583 | ug/L   | 99       |
| 57) Isopropylbenzene            | 12.46 | 105  | 1184668  | 28.349 | ug/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 266628   | 30.476 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 202128   | 30.059 | ug/L   | 100      |
| 62) Bromoform                   | 12.35 | 173  | 104945   | 27.458 | ug/L   | 99       |
| 63) 1,3-Dichlorobenzene         | 13.49 | 146  | 469372   | 26.459 | ug/L   | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 476903   | 26.111 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene         | 13.86 | 146  | 427753   | 26.625 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 41680    | 29.386 | ug/L   | 96       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 312834   | 26.298 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 231859   | 26.669 | ug/L   | 97       |
| 69) Naphthalene                 | 15.36 | 128  | 220301   | 28.543 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 221432   | 28.376 | ug/L   | 99       |

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

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