

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111518\  
 Data File : VV008572.D  
 Acq On : 15 Nov 2018 16:03  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV73

Quant Time: Nov 16 04:20:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM111518WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 16 04:13:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 270379   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 249480   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 117602   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 85888    | 48.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 97.62%  |
| 7) Chloroethane-d5             | 1.56    | 69    | 59566    | 49.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 98.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 147175   | 47.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.00%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 157534   | 103.11   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.11% |
| 24) Chloroform-d               | 4.40    | 84    | 192608   | 49.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.04%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 123807   | 48.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.78%  |
| 32) Benzene-d6                 | 5.10    | 84    | 389791   | 48.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.08%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 125546   | 48.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.24%  |
| 41) Toluene-d8                 | 7.36    | 98    | 353307   | 48.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.74%  |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 61771    | 49.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.10%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 116722   | 104.77   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.77% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 169726   | 50.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 101.98% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 132036   | 49.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.40%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 102855 | 48.992  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 99843  | 53.943  | ug/L 98  |
| 5) Vinyl chloride              | 1.32 | 62  | 93716  | 51.198  | ug/L 99  |
| 6) Bromomethane                | 1.51 | 94  | 28109  | 46.538  | ug/L 98  |
| 8) Chloroethane                | 1.58 | 64  | 50136  | 50.165  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 122653 | 48.711  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 72546  | 50.431  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 64012  | 49.829  | ug/L 98  |
| 13) Acetone                    | 2.19 | 43  | 117712 | 102.188 | ug/L 99  |
| 14) Carbon disulfide           | 2.32 | 76  | 257971 | 49.071  | ug/L 100 |
| 15) Methyl Acetate             | 2.45 | 43  | 115234 | 50.966  | ug/L 99  |
| 16) Methylene chloride         | 2.53 | 84  | 101286 | 49.166  | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 91858  | 49.896  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 320091 | 50.627  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 177580 | 50.437  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 103921 | 49.658  | ug/L 98  |
| 22) 2-Butanone                 | 4.01 | 43  | 173152 | 103.720 | ug/L 99  |

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 Sample : VSTDICV050  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV73

Quant Time: Nov 16 04:20:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM111518WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 16 04:13:42 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|---------|--------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 50521    | 51.034  | uq/L   | 98       |
| 25) Chloroform                  | 4.43  | 83   | 186101   | 47.086  | uq/L   | 97       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 146938   | 51.456  | uq/L   | 98       |
| 29) Cyclohexane                 | 4.73  | 56   | 172973   | 48.422  | uq/L   | 98       |
| 30) 1,1,1-Trichloroethane       | 4.66  | 97   | 156019   | 48.801  | uq/L   | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 134882   | 48.780  | uq/L   | 99       |
| 33) Benzene                     | 5.15  | 78   | 391685   | 48.890  | uq/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 101821   | 48.499  | uq/L   | 98       |
| 35) Methylcyclohexane           | 6.18  | 83   | 176274   | 49.310  | uq/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 106051   | 48.940  | uq/L   | 100      |
| 38) Bromodichloromethane        | 6.56  | 83   | 132800   | 48.681  | uq/L   | 98       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 169737   | 51.280  | uq/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 296843   | 102.060 | uq/L   | 100      |
| 42) Toluene                     | 7.43  | 91   | 408754   | 49.092  | uq/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 155353   | 51.080  | uq/L   | 100      |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 98408    | 50.745  | uq/L   | 99       |
| 46) Tetrachloroethene           | 8.02  | 164  | 75951    | 50.466  | uq/L   | 94       |
| 48) 2-Hexanone                  | 8.18  | 43   | 231637   | 103.635 | uq/L   | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 103448   | 50.392  | uq/L   | 97       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 102682   | 50.702  | uq/L # | 99       |
| 51) Chlorobenzene               | 8.93  | 112  | 263492   | 50.642  | uq/L   | 100      |
| 52) Ethylbenzene                | 9.06  | 91   | 459861   | 50.161  | uq/L   | 99       |
| 53) m,p-Xylene                  | 9.18  | 106  | 170634   | 50.856  | uq/L   | 97       |
| 54) o-xylene                    | 9.59  | 106  | 166920   | 50.194  | uq/L   | 99       |
| 55) Styrene                     | 9.60  | 104  | 279090   | 51.299  | uq/L   | 99       |
| 56) Isopropylbenzene            | 9.98  | 105  | 448531   | 51.236  | uq/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 162862   | 51.801  | uq/L   | 100      |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 132212   | 51.309  | uq/L   | 98       |
| 61) Bromoform                   | 9.78  | 173  | 69913    | 49.023  | uq/L   | 97       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 196540   | 50.382  | uq/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 196172   | 50.183  | uq/L   | 99       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 200823   | 50.334  | uq/L   | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 34266    | 48.071  | uq/L   | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 136232   | 50.967  | uq/L   | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 109729   | 51.765  | uq/L   | 99       |
| 69) Naphthalene                 | 13.56 | 128  | 320419   | 51.624  | uq/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 109148   | 51.148  | uq/L   | 99       |

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

