

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082318\  
 Data File : VW004928.D  
 Acq On : 24 Aug 2018 05:46  
 Operator : SY/AP  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02589

Quant Time: Aug 24 07:21:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082218S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 24 07:12:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 657721   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.64 | 117  | 669588   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 332010   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 287681   | 23.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.56%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 212146   | 23.02    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.08%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 359360   | 22.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 90.56%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 134906   | 53.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 106.64% |
| 24) Chloroform-d               | 7.65   | 84    | 337946   | 23.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 92.56%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 186516   | 23.51    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 94.04%  |
| 29) Benzene-d6                 | 8.28   | 84    | 869560   | 25.25    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 101.00% |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 245585   | 24.27    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 97.08%  |
| 37) Toluene-d8                 | 10.33  | 98    | 923646   | 25.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 101.24% |
| 38) trans-1,3-Dichloropropene- | 10.59  | 79    | 99919    | 22.95    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 91.80%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 140897   | 56.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 112.40% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.70  | 84    | 265987   | 26.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 104.64% |
| 61) 1,2-Dichlorobenzene-d4     | 13.87  | 152   | 338663   | 25.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.56% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Ovalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.00 | 85   | 304122   | 24.58 | ug/L  | 100    |
| 3) Chloromethane               | 2.21 | 50   | 322692   | 23.01 | ug/L  | 99     |
| 5) Vinyl chloride              | 2.36 | 62   | 341426   | 24.04 | ug/L  | 99     |
| 6) Bromomethane                | 2.78 | 94   | 181853   | 24.44 | ug/L  | 100    |
| 8) Chloroethane                | 2.92 | 64   | 187054   | 23.57 | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 343050   | 23.87 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101  | 215413   | 25.06 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 180999   | 23.64 | ug/L  | 98     |
| 13) Acetone                    | 4.14 | 43   | 90886    | 46.38 | ug/L  | 100    |
| 14) Carbon disulfide           | 4.39 | 76   | 720990   | 22.72 | ug/L  | 99     |
| 15) Methyl Acetate             | 4.68 | 43   | 111383   | 25.14 | ug/L  | 98     |
| 16) Methylene chloride         | 4.93 | 84   | 261630   | 20.51 | ug/L  | 96     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 398996   | 24.12 | ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96   | 187468   | 23.51 | ug/L  | 96     |
| 19) 1,1-Dichloroethane         | 6.23 | 63   | 331892   | 22.80 | ug/L  | 96     |
| 21) 2-Butanone                 | 7.18 | 43   | 145858   | 48.33 | ug/L  | 100    |
| 22) cis-1,2-Dichloroethene     | 7.18 | 96   | 194287   | 22.58 | ug/L  | 98     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082218S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 24 07:12:16 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------------|-------|------|----------|-------|-------|----------|
| 23) Bromochloromethane          | 7.52  | 128  | 99749    | 21.95 | ug/L  | 98       |
| 25) Chloroform                  | 7.68  | 83   | 333438   | 22.86 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.41  | 62   | 222400   | 23.26 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 387561   | 27.19 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane       | 7.88  | 97   | 324097   | 25.13 | ug/L  | 100      |
| 32) Carbon tetrachloride        | 8.07  | 117  | 301355   | 26.12 | ug/L  | 98       |
| 34) Benzene                     | 8.33  | 78   | 935795   | 24.51 | ug/L  | 100      |
| 35) Trichloroethene             | 9.10  | 95   | 227391   | 23.95 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 451377   | 25.71 | ug/L  | 100      |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 222384   | 23.68 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.65  | 83   | 244202   | 23.60 | ug/L  | 97       |
| 42) cis-1,3-Dichloropropene     | 10.08 | 75   | 300159   | 23.02 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.22 | 43   | 367019   | 52.94 | ug/L  | 99       |
| 44) Toluene                     | 10.40 | 91   | 1134312  | 24.74 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 267157   | 22.60 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 172212   | 23.49 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.87 | 164  | 229548   | 24.70 | ug/L  | 99       |
| 49) 2-Hexanone                  | 10.98 | 43   | 282440   | 52.72 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 190616   | 23.42 | ug/L  | 98       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 170232   | 23.66 | ug/L  | 97       |
| 52) Chlorobenzene               | 11.66 | 112  | 716293   | 23.52 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.74 | 91   | 1268390  | 24.58 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.85 | 106  | 488700   | 24.42 | ug/L  | 99       |
| 55) o-xylene                    | 12.17 | 106  | 453998   | 24.28 | ug/L  | 99       |
| 56) Styrene                     | 12.19 | 104  | 790000   | 24.59 | ug/L  | 100      |
| 57) Isopropylbenzene            | 12.47 | 105  | 1256857  | 25.16 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 259123   | 24.80 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 202538   | 25.16 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 131513   | 24.98 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene         | 13.51 | 146  | 550363   | 24.06 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene         | 13.59 | 146  | 570148   | 23.81 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.88 | 146  | 536787   | 24.49 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 47940    | 25.79 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.64 | 180  | 430745   | 23.53 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.15 | 180  | 348088   | 23.55 | ug/L  | 99       |
| 69) Naphthalene                 | 15.38 | 128  | 792823   | 26.39 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.57 | 180  | 350652   | 25.19 | ug/L  | 99       |

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

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