

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102519\  
 Data File : VW013757.D  
 Acq On : 25 Oct 2019 19:09  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02529

Quant Time: Oct 26 03:42:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 26 03:37:49 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 295860   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 275148   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 158474   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 94447    | 26.02    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 104.08% |
| 7) Chloroethane-d5             | 2.89   | 69    | 83410    | 24.62    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 98.48%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 208787   | 26.04    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 104.16% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 62403    | 48.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 96.14%  |
| 24) Chloroform-d               | 7.65   | 84    | 211328   | 25.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 102.12% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 102785   | 23.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 94.96%  |
| 29) Benzene-d6                 | 8.27   | 84    | 425446   | 25.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 102.96% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 129091   | 26.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 104.60% |
| 37) Toluene-d8                 | 10.32  | 98    | 388535   | 25.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 101.92% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 52618    | 23.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 94.52%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 49959    | 52.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.86% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 100342   | 24.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 99.24%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 137515   | 24.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 98.20%  |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 75783  | 22.773 | ug/L 96   |
| 3) Chloromethane               | 2.21 | 50  | 81979  | 22.758 | ug/L 97   |
| 5) Vinyl chloride              | 2.37 | 62  | 129976 | 28.872 | ug/L 98   |
| 6) Bromomethane                | 2.78 | 94  | 79830  | 24.542 | ug/L 100  |
| 8) Chloroethane                | 2.93 | 64  | 76043  | 24.996 | ug/L 98   |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 82993  | 27.353 | ug/L 97   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 125015 | 26.166 | ug/L 95   |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 129626 | 27.568 | ug/L 99   |
| 13) Acetone                    | 4.13 | 43  | 53079  | 36.836 | ug/L 94   |
| 14) Carbon disulfide           | 4.39 | 76  | 363784 | 27.039 | ug/L 99   |
| 15) Methyl Acetate             | 4.67 | 43  | 51844  | 22.019 | ug/L 99   |
| 16) Methylene chloride         | 4.92 | 84  | 126614 | 22.349 | ug/L 96   |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 153471 | 23.589 | ug/L # 75 |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 132344 | 25.461 | ug/L 90   |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 224398 | 25.505 | ug/L 96   |
| 21) 2-Butanone                 | 7.17 | 43  | 72496  | 39.625 | ug/L 97   |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 138803 | 24.878 | ug/L 99   |

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 MSVOA\_W  
 ClientSampleId :  
 VSTD02529

Quant Time: Oct 26 03:42:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 26 03:37:49 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 59859    | 23.737 | ug/L  | 98       |
| 25) Chloroform                  | 7.67  | 83   | 222576   | 25.184 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 134450   | 23.736 | ug/L  | 97       |
| 30) Cyclohexane                 | 7.96  | 56   | 226964   | 28.156 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 183976   | 28.668 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 180152   | 28.828 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 527339   | 26.711 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 139443   | 27.530 | ug/L  | 98       |
| 36) Methylcyclohexane           | 9.34  | 83   | 251556   | 28.176 | ug/L  | 98       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 124569   | 25.806 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.64  | 83   | 153441   | 25.943 | ug/L  | 95       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 189190   | 24.824 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 149689   | 45.451 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 569319   | 26.841 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 150374   | 24.444 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 89508    | 24.043 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.86 | 164  | 126569   | 27.298 | ug/L  | 97       |
| 49) 2-Hexanone                  | 10.97 | 43   | 105684   | 45.232 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 107445   | 24.455 | ug/L  | 92       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 85881    | 23.722 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 351968   | 25.935 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 618529   | 26.393 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 239061   | 26.397 | ug/L  | 98       |
| 55) o-xylene                    | 12.16 | 106  | 223651   | 26.023 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 386723   | 26.304 | ug/L  | 97       |
| 57) Isopropylbenzene            | 12.46 | 105  | 620270   | 26.907 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 104077   | 23.852 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 76407    | 23.482 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 64805    | 23.861 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 273294   | 25.415 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 268740   | 24.870 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 241865   | 24.825 | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 15786    | 23.573 | ug/L  | 90       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 199990   | 25.017 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 156774   | 23.100 | ug/L  | 99       |
| 69) Naphthalene                 | 15.36 | 128  | 271868   | 22.107 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 140322   | 23.088 | ug/L  | 98       |

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

