

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082620\  
 Data File : VW016354.D  
 Acq On : 26 Aug 2020 09:03  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02527

Quant Time: Aug 27 02:38:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 26 12:26:46 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 300361   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 282413   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 137044   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 68210    | 21.27    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 85.08% |
| 7) Chloroethane-d5             | 2.89   | 69    | 56836    | 23.35    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.40% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 177398   | 23.29    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 93.16% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 40757    | 44.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 89.38% |
| 24) Chloroform-d               | 7.65   | 84    | 192369   | 24.57    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 98.28% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 99466    | 24.65    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 98.60% |
| 29) Benzene-d6                 | 8.27   | 84    | 363084   | 23.03    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 92.12% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 98905    | 22.67    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 90.68% |
| 37) Toluene-d8                 | 10.32  | 98    | 344537   | 23.16    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 92.64% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 49171    | 23.35    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 93.40% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 31252    | 44.71    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 89.42% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 88343    | 24.33    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.32% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 119689   | 22.78    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 91.12% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 80083  | 24.265 | ug/L 96  |
| 3) Chloromethane               | 2.22 | 50  | 62607  | 24.296 | ug/L 97  |
| 5) Vinyl chloride              | 2.37 | 62  | 89203  | 25.417 | ug/L 96  |
| 6) Bromomethane                | 2.79 | 94  | 57698  | 25.147 | ug/L 97  |
| 8) Chloroethane                | 2.93 | 64  | 51333  | 26.231 | ug/L 91  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 101896 | 26.829 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 107640 | 25.964 | ug/L 97  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 103183 | 25.877 | ug/L 91  |
| 13) Acetone                    | 4.13 | 43  | 41287  | 54.547 | ug/L 98  |
| 14) Carbon disulfide           | 4.39 | 76  | 295447 | 24.990 | ug/L 99  |
| 15) Methyl Acetate             | 4.67 | 43  | 38328  | 25.168 | ug/L 96  |
| 16) Methylene chloride         | 4.92 | 84  | 106871 | 19.247 | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 150480 | 25.810 | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 104795 | 25.019 | ug/L 96  |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 175337 | 25.406 | ug/L 98  |
| 21) 2-Butanone                 | 7.17 | 43  | 53363  | 49.484 | ug/L 100 |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 111131 | 25.227 | ug/L 93  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082620\  
 Data File : VW016354.D  
 Acq On : 26 Aug 2020 09:03  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02527

Quant Time: Aug 27 02:38:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 26 12:26:46 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 51991    | 25.731 | ug/L  | 95       |
| 25) Chloroform                  | 7.68  | 83   | 193716   | 26.064 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 120524   | 25.891 | ug/L  | 98       |
| 30) Cyclohexane                 | 7.96  | 56   | 153065   | 25.076 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 176622   | 26.003 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 167359   | 25.949 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 409712   | 25.292 | ug/L  | 100      |
| 35) Trichloroethene             | 9.10  | 95   | 113358   | 24.715 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 186731   | 24.939 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 93954    | 24.663 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 137698   | 25.516 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 157796   | 25.298 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 111631   | 49.009 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 447984   | 25.394 | ug/L  | 95       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 141934   | 25.736 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 80964    | 25.749 | ug/L  | 95       |
| 47) Tetrachloroethene           | 10.87 | 164  | 89804    | 24.830 | ug/L  | 94       |
| 49) 2-Hexanone                  | 10.97 | 43   | 80650    | 54.656 | ug/L  | 96       |
| 50) Dibromochloromethane        | 11.13 | 129  | 102563   | 26.190 | ug/L  | 97       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 78174    | 25.400 | ug/L  | 95       |
| 52) Chlorobenzene               | 11.66 | 112  | 296253   | 25.144 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 521107   | 25.695 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 199001   | 25.533 | ug/L  | 96       |
| 55) o-xylene                    | 12.17 | 106  | 184858   | 25.247 | ug/L  | 100      |
| 56) Styrene                     | 12.18 | 104  | 320894   | 26.045 | ug/L  | 96       |
| 57) Isopropylbenzene            | 12.46 | 105  | 523087   | 25.663 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 91871    | 25.039 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 68674    | 25.272 | ug/L  | 96       |
| 62) Bromoform                   | 12.35 | 173  | 56370    | 25.309 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 224169   | 24.272 | ug/L  | 100      |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 226901   | 24.251 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 209468   | 25.399 | ug/L  | 94       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 16135    | 24.888 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 157268   | 24.675 | ug/L  | 96       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 122818   | 24.277 | ug/L  | 99       |
| 69) Naphthalene                 | 15.37 | 128  | 249437   | 25.100 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 109056   | 24.511 | ug/L  | 99       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW082620\  
 Data File : VW016354.D  
 Acq On : 26 Aug 2020 09:03  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02527

Quant Time: Aug 27 02:38:01 2020  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 26 12:26:46 2020  
 Response via : Initial Calibration

