

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101520\  
 Data File : VW016898.D  
 Acq On : 14 Oct 2020 10:10  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02509

Quant Time: Oct 15 08:31:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 14 08:34:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 563385   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 503081   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 257842   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 147481   | 26.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 106.16% |
| 7) Chloroethane-d5             | 2.90   | 69    | 126300   | 27.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 108.36% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 319844   | 27.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 108.40% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 67930    | 53.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 107.92% |
| 24) Chloroform-d               | 7.65   | 84    | 336649   | 28.32    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 113.28% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 154223   | 26.86    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 107.44% |
| 29) Benzene-d6                 | 8.27   | 84    | 637182   | 27.89    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 111.56% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 173854   | 28.31    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 113.24% |
| 37) Toluene-d8                 | 10.33  | 98    | 596998   | 27.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 110.76% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 76787    | 28.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 113.40% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 56659    | 59.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 119.34% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 143553   | 28.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 115.76% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 233676   | 28.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 114.28% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 2.02 | 85   | 179459   | 26.650 | ug/L  | 97     |
| 3) Chloromethane               | 2.22 | 50   | 142446   | 23.997 | ug/L  | 99     |
| 5) Vinyl chloride              | 2.37 | 62   | 227008   | 29.458 | ug/L  | 99     |
| 6) Bromomethane                | 2.79 | 94   | 152101   | 26.848 | ug/L  | 100    |
| 8) Chloroethane                | 2.93 | 64   | 133372   | 28.042 | ug/L  | 97     |
| 9) Trichlorofluoromethane      | 3.27 | 101  | 164384   | 27.609 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101  | 212496   | 28.015 | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 202850   | 27.848 | ug/L  | 90     |
| 13) Acetone                    | 4.13 | 43   | 45188    | 47.434 | ug/L  | 99     |
| 14) Carbon disulfide           | 4.39 | 76   | 581339   | 27.833 | ug/L  | 99     |
| 15) Methyl Acetate             | 4.67 | 43   | 60001    | 26.361 | ug/L  | 99     |
| 16) Methylene chloride         | 4.92 | 84   | 198529   | 25.534 | ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 220792   | 27.087 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96   | 208231   | 27.364 | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 324539   | 27.695 | ug/L  | 100    |
| 21) 2-Butanone                 | 7.18 | 43   | 75816    | 47.407 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 213669   | 27.518 | ug/L  | 94     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 98018    | 26.882 | ug/L  | 96       |
| 25) Chloroform                  | 7.68  | 83   | 351287   | 27.759 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 203582   | 26.892 | ug/L  | 100      |
| 30) Cyclohexane                 | 7.96  | 56   | 293476   | 28.130 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 308251   | 28.812 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 300155   | 28.750 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 767999   | 28.427 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 213761   | 27.972 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 363545   | 28.294 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 173433   | 28.390 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 245169   | 28.567 | ug/L  | 97       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 281082   | 28.859 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 168197   | 54.689 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 849700   | 28.351 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 236715   | 28.881 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 136572   | 27.501 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.87 | 164  | 195335   | 27.571 | ug/L  | 99       |
| 49) 2-Hexanone                  | 10.97 | 43   | 114037   | 56.176 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 175430   | 28.416 | ug/L  | 100      |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 133769   | 27.411 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 552095   | 27.449 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 961912   | 28.611 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 374558   | 28.645 | ug/L  | 98       |
| 55) o-xylene                    | 12.16 | 106  | 353827   | 28.322 | ug/L  | 94       |
| 56) Styrene                     | 12.18 | 104  | 602861   | 29.243 | ug/L  | 96       |
| 57) Isopropylbenzene            | 12.47 | 105  | 976398   | 28.541 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 150765   | 27.470 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 108897   | 27.390 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 100728   | 27.771 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 458502   | 27.941 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 443997   | 27.055 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 401600   | 27.334 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 23381    | 26.235 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 344769   | 28.265 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 277758   | 27.724 | ug/L  | 100      |
| 69) Naphthalene                 | 15.37 | 128  | 469612   | 28.306 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 237877   | 27.631 | ug/L  | 96       |

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

