

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101220\  
 Data File : VW016873.D  
 Acq On : 12 Oct 2020 10:08  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02525

Quant Time: Oct 13 06:55:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sun Oct 11 23:25:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 549890   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 492299   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 246294   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 131333   | 24.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.84%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 111128   | 24.42    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 97.68%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 286481   | 24.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 99.48%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 57308    | 46.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 93.28%  |
| 24) Chloroform-d               | 7.65   | 84    | 289950   | 24.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 99.96%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 132933   | 23.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 94.88%  |
| 29) Benzene-d6                 | 8.27   | 84    | 555653   | 24.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.40%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 152455   | 25.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 101.48% |
| 37) Toluene-d8                 | 10.32  | 98    | 525199   | 24.89    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 99.56%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 66922    | 25.25    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 101.00% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 47305    | 50.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.82% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 118412   | 24.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.56%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 196140   | 25.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 100.44% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 189372 | 28.812 | ug/L 95  |
| 3) Chloromethane               | 2.21 | 50  | 151678 | 26.180 | ug/L 99  |
| 5) Vinyl chloride              | 2.37 | 62  | 212437 | 28.244 | ug/L 100 |
| 6) Bromomethane                | 2.78 | 94  | 142164 | 25.710 | ug/L 99  |
| 8) Chloroethane                | 2.93 | 64  | 125885 | 27.118 | ug/L 96  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 167486 | 28.820 | ug/L 98  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 199480 | 26.944 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 190011 | 26.726 | ug/L 88  |
| 13) Acetone                    | 4.12 | 43  | 45656  | 49.101 | ug/L 97  |
| 14) Carbon disulfide           | 4.39 | 76  | 545601 | 26.763 | ug/L 99  |
| 15) Methyl Acetate             | 4.67 | 43  | 54704  | 24.623 | ug/L 99  |
| 16) Methylene chloride         | 4.92 | 84  | 181494 | 23.916 | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 206842 | 25.998 | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 195262 | 26.289 | ug/L 98  |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 307365 | 26.873 | ug/L 99  |
| 21) 2-Butanone                 | 7.17 | 43  | 71733  | 45.955 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 199164 | 26.280 | ug/L 95  |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 91468    | 25.701 | ug/L  | 95       |
| 25) Chloroform                  | 7.68  | 83   | 325128   | 26.322 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 189654   | 25.667 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 282069   | 27.629 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 288024   | 27.511 | ug/L  | 100      |
| 32) Carbon tetrachloride        | 8.07  | 117  | 281352   | 27.539 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 714715   | 27.034 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 202369   | 27.062 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 344020   | 27.360 | ug/L  | 100      |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 161377   | 26.995 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 226322   | 26.949 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 259229   | 27.198 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 156828   | 52.109 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 800009   | 27.278 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 221621   | 27.632 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 126189   | 25.967 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.87 | 164  | 178631   | 25.766 | ug/L  | 98       |
| 49) 2-Hexanone                  | 10.97 | 43   | 103779   | 52.242 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 162458   | 26.891 | ug/L  | 99       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 121330   | 25.406 | ug/L  | 96       |
| 52) Chlorobenzene               | 11.66 | 112  | 528249   | 26.839 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 899470   | 27.339 | ug/L  | 100      |
| 54) m,p-Xylene                  | 11.84 | 106  | 353406   | 27.619 | ug/L  | 99       |
| 55) o-xylene                    | 12.17 | 106  | 333776   | 27.302 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 552949   | 27.409 | ug/L  | 97       |
| 57) Isopropylbenzene            | 12.46 | 105  | 929884   | 27.777 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 137873   | 25.672 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 98480    | 25.312 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 94127    | 27.168 | ug/L  | 95       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 416850   | 26.594 | ug/L  | 96       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 417360   | 26.624 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 374819   | 26.707 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 20522    | 24.106 | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 331436   | 28.446 | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 254198   | 26.562 | ug/L  | 95       |
| 69) Naphthalene                 | 15.36 | 128  | 427208   | 26.958 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 224450   | 27.294 | ug/L  | 97       |

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

