

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101720\  
 Data File : VW016923.D  
 Acq On : 16 Oct 2020 12:01  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02513

Quant Time: Oct 17 00:40:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 16 14:38:54 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 507183   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 467869   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 233250   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 113665   | 22.72    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.88%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 98332    | 23.43    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.72%   |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 250848   | 23.61    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 94.44%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 71019    | 62.67    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 125.34%  |
| 24) Chloroform-d               | 7.65   | 84    | 281041   | 26.26    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 105.04%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 138508   | 26.80    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 107.20%  |
| 29) Benzene-d6                 | 8.27   | 84    | 534804   | 25.17    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 100.68%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 149835   | 26.24    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 104.96%  |
| 37) Toluene-d8                 | 10.32  | 98    | 498337   | 24.85    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 99.40%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 66222    | 26.29    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 105.16%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 59796    | 67.71    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 135.42%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 136560   | 29.60    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 118.40%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 200117   | 27.05    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 108.20%  |

## Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 127164 | 20.977 ug/L | 93     |
| 3) Chloromethane               | 2.21 | 50  | 108457 | 20.296 ug/L | 99     |
| 5) Vinyl chloride              | 2.37 | 62  | 174260 | 25.119 ug/L | 98     |
| 6) Bromomethane                | 2.78 | 94  | 116858 | 22.913 ug/L | 98     |
| 8) Chloroethane                | 2.93 | 64  | 102433 | 23.924 ug/L | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 111811 | 20.860 ug/L | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 164832 | 24.139 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 155626 | 23.732 ug/L | 94     |
| 13) Acetone                    | 4.13 | 43  | 46450  | 54.162 ug/L | 99     |
| 14) Carbon disulfide           | 4.38 | 76  | 440504 | 23.427 ug/L | 99     |
| 15) Methyl Acetate             | 4.67 | 43  | 57208  | 27.919 ug/L | 97     |
| 16) Methylene chloride         | 4.92 | 84  | 152246 | 21.751 ug/L | 97     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 184112 | 25.090 ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 163618 | 23.884 ug/L | 98     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 260162 | 24.661 ug/L | 98     |
| 21) 2-Butanone                 | 7.16 | 43  | 71713  | 49.811 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 172497 | 24.678 ug/L | 98     |

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 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 16 14:38:54 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 82324    | 25.080 | ug/L  | 98       |
| 25) Chloroform                 | 7.68  | 83   | 283469   | 24.882 | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 167862   | 24.631 | ug/L  | 99       |
| 30) Cyclohexane                | 7.95  | 56   | 231928   | 23.904 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 245331   | 24.657 | ug/L  | 99       |
| 32) Carbon tetrachloride       | 8.07  | 117  | 232479   | 23.944 | ug/L  | 99       |
| 34) Benzene                    | 8.32  | 78   | 605386   | 24.095 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 169429   | 23.840 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 283870   | 23.755 | ug/L  | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 139989   | 24.640 | ug/L  | 100      |
| 41) Bromodichloromethane       | 9.65  | 83   | 199256   | 24.965 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 227826   | 25.151 | ug/L  | 100      |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 162775   | 56.909 | ug/L  | 99       |
| 44) Toluene                    | 10.39 | 91   | 675227   | 24.225 | ug/L  | 91       |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 198183   | 26.000 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 118668   | 25.694 | ug/L  | 99       |
| 47) Tetrachloroethene          | 10.87 | 164  | 156147   | 23.698 | ug/L  | 96       |
| 49) 2-Hexanone                 | 10.97 | 43   | 111174   | 58.887 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 148245   | 25.820 | ug/L  | 96       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 116491   | 25.667 | ug/L  | 96       |
| 52) Chlorobenzene              | 11.66 | 112  | 451192   | 24.121 | ug/L  | 98       |
| 53) Ethylbenzene               | 11.73 | 91   | 764949   | 24.465 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 302091   | 24.842 | ug/L  | 98       |
| 55) o-xylene                   | 12.16 | 106  | 289591   | 24.924 | ug/L  | 98       |
| 56) Styrene                    | 12.18 | 104  | 484657   | 25.278 | ug/L  | 96       |
| 57) Isopropylbenzene           | 12.46 | 105  | 791905   | 24.890 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 139597   | 27.350 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 97841    | 26.461 | ug/L  | 98       |
| 62) Bromoform                  | 12.35 | 173  | 82769    | 25.225 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 372249   | 25.076 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 362063   | 24.388 | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 328984   | 24.752 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 21760    | 26.990 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 276556   | 25.063 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 236866   | 26.135 | ug/L  | 100      |
| 69) Naphthalene                | 15.37 | 128  | 425896   | 28.378 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 208306   | 26.747 | ug/L  | 99       |

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

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