

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081220\  
 Data File : VW016145.D  
 Acq On : 12 Aug 2020 07:56  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02511

Quant Time: Aug 13 01:19:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Aug 12 11:37:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 447725   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 407608   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 192064   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 122324   | 22.04    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.16% |
| 7) Chloroethane-d5             | 2.89   | 69    | 91295    | 21.67    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 86.68% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 288527   | 24.47    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 97.88% |
| 20) 2-Butanone-d5              | 7.09   | 46    | 65335    | 44.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 89.46% |
| 24) Chloroform-d               | 7.65   | 84    | 274839   | 22.87    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 91.48% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 141793   | 22.22    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 88.88% |
| 29) Benzene-d6                 | 8.27   | 84    | 527064   | 23.77    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 95.08% |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 150962   | 23.15    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 92.60% |
| 37) Toluene-d8                 | 10.32  | 98    | 489968   | 24.09    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 96.36% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 67702    | 23.10    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 92.40% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 53628    | 47.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 95.36% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 128574   | 24.22    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 96.88% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 160662   | 23.60    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 94.40% |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 147111 | 32.526 | ug/L 95   |
| 3) Chloromethane               | 2.21 | 50  | 121463 | 27.042 | ug/L 97   |
| 5) Vinyl chloride              | 2.37 | 62  | 164383 | 27.575 | ug/L 99   |
| 6) Bromomethane                | 2.79 | 94  | 98953  | 26.504 | ug/L 100  |
| 8) Chloroethane                | 2.93 | 64  | 89474  | 26.654 | ug/L 96   |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 129512 | 30.437 | ug/L 99   |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 163764 | 27.233 | ug/L 98   |
| 12) 1,1-Dichloroethene         | 4.03 | 96  | 161588 | 28.120 | ug/L 95   |
| 13) Acetone                    | 4.15 | 43  | 62857  | 56.886 | ug/L 96   |
| 14) Carbon disulfide           | 4.38 | 76  | 523119 | 29.001 | ug/L 99   |
| 15) Methyl Acetate             | 4.68 | 43  | 66781  | 25.704 | ug/L 99   |
| 16) Methylene chloride         | 4.91 | 84  | 164839 | 23.316 | ug/L 98   |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 221886 | 27.248 | ug/L # 90 |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 169632 | 28.063 | ug/L 92   |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 284082 | 26.562 | ug/L 99   |
| 21) 2-Butanone                 | 7.18 | 43  | 92803  | 52.993 | ug/L 99   |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 170813 | 26.787 | ug/L 98   |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 76685    | 26.202 | ug/L  | 98       |
| 25) Chloroform                  | 7.68  | 83   | 295460   | 25.967 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 187119   | 24.688 | ug/L  | 98       |
| 30) Cyclohexane                 | 7.96  | 56   | 266031   | 29.996 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 265319   | 28.327 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 245861   | 27.754 | ug/L  | 98       |
| 34) Benzene                     | 8.32  | 78   | 656859   | 27.945 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 176719   | 27.960 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 307036   | 29.489 | ug/L  | 98       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 156347   | 27.086 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 211262   | 26.643 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 247580   | 28.163 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 184945   | 53.270 | ug/L  | 99       |
| 44) Toluene                     | 10.39 | 91   | 706669   | 28.480 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 220590   | 27.934 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 122470   | 26.954 | ug/L  | 97       |
| 47) Tetrachloroethene           | 10.87 | 164  | 131822   | 27.821 | ug/L  | 96       |
| 49) 2-Hexanone                  | 10.97 | 43   | 132518   | 56.566 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 141005   | 26.349 | ug/L  | 98       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 118158   | 27.430 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 447317   | 27.247 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 792100   | 28.136 | ug/L  | 100      |
| 54) m,p-Xylene                  | 11.84 | 106  | 301450   | 28.466 | ug/L  | 94       |
| 55) o-xylene                    | 12.17 | 106  | 287897   | 28.862 | ug/L  | 97       |
| 56) Styrene                     | 12.18 | 104  | 497886   | 28.830 | ug/L  | 98       |
| 57) Isopropylbenzene            | 12.47 | 105  | 783513   | 29.133 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 141761   | 26.740 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 106312   | 26.470 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 75543    | 26.010 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 330644   | 27.256 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 333802   | 27.011 | ug/L  | 95       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 294541   | 26.482 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 24083    | 24.693 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 217424   | 28.405 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 177867   | 28.670 | ug/L  | 98       |
| 69) Naphthalene                 | 15.37 | 128  | 379838   | 29.006 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 159079   | 28.224 | ug/L  | 98       |

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

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