

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012820\  
 Data File : VW014783.D  
 Acq On : 28 Jan 2020 12:01  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02526

Quant Time: Jan 28 16:00:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM012720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jan 28 07:18:57 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 939149   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 836147   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 414691   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 392794   | 26.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 105.64% |
| 7) Chloroethane-d5             | 2.89   | 69    | 355307   | 28.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 112.44% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 609096   | 22.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 90.52%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 265098   | 62.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 125.52% |
| 24) Chloroform-d               | 7.64   | 84    | 668413   | 25.78    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 103.12% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 355644   | 25.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 101.88% |
| 29) Benzene-d6                 | 8.27   | 84    | 1386001  | 26.34    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 105.36% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 456924   | 27.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 111.72% |
| 37) Toluene-d8                 | 10.32  | 98    | 1247458  | 26.61    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 106.44% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 174465   | 26.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 107.08% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 187103   | 60.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 121.90% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 342098   | 26.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 106.60% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 433568   | 26.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 106.72% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 262163 | 22.700 | ug/L 100 |
| 3) Chloromethane               | 2.21 | 50  | 302311 | 22.439 | ug/L 98  |
| 5) Vinyl chloride              | 2.36 | 62  | 475802 | 25.102 | ug/L 100 |
| 6) Bromomethane                | 2.78 | 94  | 240897 | 24.312 | ug/L 99  |
| 8) Chloroethane                | 2.92 | 64  | 260077 | 25.327 | ug/L 97  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 262446 | 28.834 | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 287024 | 22.077 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 282296 | 22.019 | ug/L 93  |
| 13) Acetone                    | 4.12 | 43  | 187999 | 41.559 | ug/L 99  |
| 14) Carbon disulfide           | 4.38 | 76  | 896685 | 21.366 | ug/L 100 |
| 15) Methyl Acetate             | 4.66 | 43  | 146541 | 21.706 | ug/L 99  |
| 16) Methylene chloride         | 4.91 | 84  | 294928 | 18.583 | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 382003 | 22.541 | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 294773 | 22.254 | ug/L 97  |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 583334 | 23.483 | ug/L 98  |
| 21) 2-Butanone                 | 7.16 | 43  | 299690 | 59.168 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 371520 | 26.789 | ug/L 98  |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 143362   | 23.657 | ug/L  | 93       |
| 25) Chloroform                  | 7.67  | 83   | 554249   | 23.914 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 361788   | 23.625 | ug/L  | 98       |
| 30) Cyclohexane                 | 7.95  | 56   | 668829   | 29.292 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 466028   | 25.525 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 432855   | 25.298 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 1283379  | 23.965 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 351749   | 25.856 | ug/L  | 98       |
| 36) Methylcyclohexane           | 9.33  | 83   | 615446   | 26.004 | ug/L  | 100      |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 337118   | 24.833 | ug/L  | 99       |
| 41) Bromodichloromethane        | 9.64  | 83   | 393378   | 24.246 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 539336   | 27.200 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 451032   | 50.528 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 1443747  | 26.533 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 404326   | 25.119 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 242581   | 26.176 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.86 | 164  | 275046   | 25.304 | ug/L  | 97       |
| 49) 2-Hexanone                  | 10.96 | 43   | 385457   | 60.060 | ug/L  | 97       |
| 50) Dibromochloromethane        | 11.13 | 129  | 267673   | 25.315 | ug/L  | 97       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 221352   | 24.831 | ug/L  | 97       |
| 52) Chlorobenzene               | 11.66 | 112  | 833838   | 24.541 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 1493936  | 25.123 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.83 | 106  | 565804   | 25.454 | ug/L  | 96       |
| 55) o-xylene                    | 12.16 | 106  | 555564   | 26.637 | ug/L  | 96       |
| 56) Styrene                     | 12.18 | 104  | 961500   | 27.182 | ug/L  | 97       |
| 57) Isopropylbenzene            | 12.46 | 105  | 1460624  | 25.858 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 283638   | 23.755 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 213631   | 23.819 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 149361   | 22.945 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 637089   | 23.796 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 640815   | 23.882 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.86 | 146  | 597692   | 24.544 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 45190    | 22.626 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 470054   | 23.704 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 367381   | 24.964 | ug/L  | 99       |
| 69) Naphthalene                 | 15.36 | 128  | 697422   | 26.203 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 336868   | 24.966 | ug/L  | 99       |

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

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