

Data File : VV011194.D  
Acq On : 01 Jun 2019 00:50  
Operator : SY/MD  
Sample : VSTDCCC025EC  
Misc : 5.00G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02583

Quant Time: Jun 01 01:36:45 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM053019S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jun 01 00:27:53 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 303422   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 300822   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 145028   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 88015    | 21.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 85.76%  |
| 7) Chloroethane-d5             | 1.56   | 69    | 78710    | 24.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 99.76%  |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 185836   | 22.05    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 88.20%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 84645    | 56.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 112.82% |
| 24) Chloroform-d               | 4.40   | 84    | 203473   | 27.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 109.72% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 132347   | 27.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 109.52% |
| 29) Benzene-d6                 | 5.09   | 84    | 405710   | 24.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.32%  |
| 33) 1,2-Dichloropropane-d6     | 6.11   | 67    | 135414   | 25.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 103.48% |
| 37) Toluene-d8                 | 7.36   | 98    | 375674   | 24.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 97.48%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 57111    | 24.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 96.44%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 62098    | 52.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 104.40% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 127749   | 27.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 108.32% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 144288   | 26.59    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 106.36% |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 96580  | 19.711 ug/L | 100    |
| 3) Chloromethane               | 1.25 | 50  | 108793 | 22.709 ug/L | 99     |
| 5) Vinyl chloride              | 1.32 | 62  | 99952  | 20.928 ug/L | 98     |
| 6) Bromomethane                | 1.51 | 94  | 55861  | 21.697 ug/L | 99     |
| 8) Chloroethane                | 1.58 | 64  | 62649  | 22.672 ug/L | 98     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 139966 | 20.368 ug/L | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 70252  | 19.088 ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 69942  | 20.514 ug/L | 92     |
| 13) Acetone                    | 2.19 | 43  | 74298  | 42.564 ug/L | 98     |
| 14) Carbon disulfide           | 2.31 | 76  | 217066 | 19.824 ug/L | 99     |
| 15) Methyl Acetate             | 2.45 | 43  | 56432  | 21.485 ug/L | 99     |
| 16) Methylene chloride         | 2.53 | 84  | 99453  | 21.508 ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 261928 | 22.161 ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 87840  | 21.151 ug/L | 98     |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 174506 | 21.717 ug/L | 98     |
| 21) 2-Butanone                 | 4.02 | 43  | 85796  | 41.895 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 103914 | 22.403 ug/L | 98     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.29  | 128  | 45941    | 22.510 | ug/L  | 90       |
| 25) Chloroform                 | 4.42  | 83   | 192329   | 22.403 | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 143039   | 23.794 | ug/L  | 98       |
| 30) Cyclohexane                | 4.72  | 56   | 143438   | 17.831 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane      | 4.65  | 97   | 140973   | 20.463 | ug/L  | 99       |
| 32) Carbon tetrachloride       | 4.87  | 117  | 111710   | 19.127 | ug/L  | 99       |
| 34) Benzene                    | 5.14  | 78   | 383375   | 21.498 | ug/L  | 100      |
| 35) Trichloroethene            | 5.96  | 95   | 98490    | 21.063 | ug/L  | 99       |
| 36) Methylcyclohexane          | 6.17  | 83   | 139037   | 17.571 | ug/L  | 99       |
| 40) 1,2-Dichloropropane        | 6.22  | 63   | 99735    | 21.276 | ug/L  | 100      |
| 41) Bromodichloromethane       | 6.55  | 83   | 133157   | 21.808 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene    | 7.07  | 75   | 158926   | 21.325 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone       | 7.27  | 43   | 182276   | 42.802 | ug/L  | 99       |
| 44) Toluene                    | 7.43  | 91   | 417967   | 21.472 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 133206   | 20.941 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 81010    | 22.156 | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 69848    | 20.158 | ug/L  | 97       |
| 49) 2-Hexanone                 | 8.18  | 43   | 129674   | 42.262 | ug/L  | 97       |
| 50) Dibromochloromethane       | 8.29  | 129  | 89896    | 21.756 | ug/L  | 99       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 77108    | 21.743 | ug/L  | 98       |
| 52) Chlorobenzene              | 8.92  | 112  | 272817   | 21.894 | ug/L  | 98       |
| 53) Ethylbenzene               | 9.05  | 91   | 475454   | 21.287 | ug/L  | 99       |
| 54) m,p-Xylene                 | 9.18  | 106  | 175360   | 21.107 | ug/L  | 100      |
| 55) o-xylene                   | 9.59  | 106  | 178255   | 21.816 | ug/L  | 99       |
| 56) Styrene                    | 9.60  | 104  | 305746   | 22.277 | ug/L  | 98       |
| 57) Isopropylbenzene           | 9.97  | 105  | 452771   | 20.753 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 104962   | 21.125 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 83544    | 22.237 | ug/L  | 100      |
| 62) Bromoform                  | 9.78  | 173  | 47491    | 21.005 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 207281   | 22.064 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 210105   | 22.039 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 202544   | 22.771 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 17844    | 20.676 | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 149958   | 21.354 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 121566   | 21.573 | ug/L  | 98       |
| 69) Naphthalene                | 13.55 | 128  | 256333   | 22.127 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 117323   | 22.448 | ug/L  | 98       |

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

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