

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW021821\  
 Data File : VW018199.D  
 Acq On : 18 Feb 2021 09:09  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02529

Quant Time: Feb 18 13:29:40 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SOM2WLM012921S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 18 06:15:22 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| -----                      |        |      |          |       |       |          |
| Internal Standards         |        |      |          |       |       |          |
| 1) 1,4-Difluorobenzene     | 8.842  | 114  | 410490   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.628 | 117  | 364930   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.560 | 152  | 191758   | 25.00 | ug/L  | 0.00     |

|                               |        |       |          |          |      |         |
|-------------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds   |        |       |          |          |      |         |
| 4) Vinyl Chloride-d3          | 2.361  | 65    | 96548    | 18.92    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =    | 75.68%  |
| 7) Chloroethane-d5            | 2.891  | 69    | 86651    | 21.40    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =    | 85.60%  |
| 10) 1,1-Dichloroethene-d2     | 4.025  | 63    | 227378   | 22.29    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =    | 89.16%  |
| 20) 2-Butanone-d5             | 7.074  | 46    | 57171    | 41.99    | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =    | 83.98%  |
| 24) Chloroform-d              | 7.647  | 84    | 268986   | 24.97    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =    | 99.88%  |
| 26) 1,2-Dichloroethane-d4     | 8.305  | 65    | 132362   | 23.07    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =    | 92.28%  |
| 29) Benzene-d6                | 8.275  | 84    | 508622   | 25.38    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =    | 101.52% |
| 33) 1,2-Dichloropropane-d6    | 9.274  | 67    | 144850   | 25.85    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =    | 103.40% |
| 37) Toluene-d8                | 10.323 | 98    | 483957   | 25.38    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =    | 101.52% |
| 38) trans-1,3-Dichloroprop... | 10.579 | 79    | 63539    | 25.01    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =    | 100.04% |
| 39) 2-Hexanone-d5             | 10.921 | 63    | 49524    | 46.22    | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =    | 92.44%  |
| 48) 1,1,2,2-Tetrachloroeth... | 12.688 | 84    | 120446   | 24.47    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =    | 97.88%  |
| 61) 1,2-Dichlorobenzene-d4    | 13.853 | 152   | 184295   | 26.94    | ug/L | 0.00    |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =    | 107.76% |

|                               |       |     |        |       |      |        |
|-------------------------------|-------|-----|--------|-------|------|--------|
| Target Compounds              |       |     |        |       |      | Qvalue |
| 2) Dichlorodifluoromethane    | 2.014 | 85  | 110068 | 19.82 | ug/L | 98     |
| 3) Chloromethane              | 2.215 | 50  | 88735  | 21.69 | ug/L | 97     |
| 5) Vinyl chloride             | 2.367 | 62  | 132295 | 23.45 | ug/L | 99     |
| 6) Bromomethane               | 2.788 | 94  | 90472  | 22.55 | ug/L | 98     |
| 8) Chloroethane               | 2.928 | 64  | 78424  | 23.26 | ug/L | 98     |
| 9) Trichlorofluoromethane     | 3.263 | 101 | 101281 | 24.83 | ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-... | 4.068 | 101 | 141625 | 24.29 | ug/L | # 63   |
| 12) 1,1-Dichloroethene        | 4.044 | 96  | 135752 | 24.75 | ug/L | 91     |
| 13) Acetone                   | 4.123 | 43  | 35615  | 35.36 | ug/L | 98     |
| 14) Carbon disulfide          | 4.385 | 76  | 369729 | 23.15 | ug/L | 100    |
| 15) Methyl Acetate            | 4.666 | 43  | 40713  | 18.22 | ug/L | 94     |
| 16) Methylene chloride        | 4.922 | 84  | 130797 | 19.88 | ug/L | 88     |
| 17) Methyl tert-butyl Ether   | 5.428 | 73  | 137071 | 22.26 | ug/L | 97     |
| 18) trans-1,2-Dichloroethene  | 5.422 | 96  | 142341 | 24.28 | ug/L | 94     |
| 19) 1,1-Dichloroethane        | 6.214 | 63  | 226449 | 23.94 | ug/L | 98     |
| 21) 2-Butanone                | 7.165 | 43  | 52537  | 34.26 | ug/L | 93     |
| 22) cis-1,2-Dichloroethene    | 7.165 | 96  | 147393 | 24.24 | ug/L | 96     |
| 23) Bromochloromethane        | 7.513 | 128 | 68175  | 23.33 | ug/L | 90     |
| 25) Chloroform                | 7.671 | 83  | 246716 | 23.90 | ug/L | 99     |
| 27) 1,2-Dichloroethane        | 8.397 | 62  | 143434 | 21.41 | ug/L | 98     |

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 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 18 06:15:22 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 30) Cyclohexane               | 7.958  | 56   | 198682   | 23.80 | ug/L   | 94       |
| 31) 1,1,1-Trichloroethane     | 7.872  | 97   | 208549   | 25.77 | ug/L   | 98       |
| 32) Carbon tetrachloride      | 8.067  | 117  | 203879   | 26.01 | ug/L   | 99       |
| 34) Benzene                   | 8.323  | 78   | 525789   | 24.65 | ug/L   | 100      |
| 35) Trichloroethene           | 9.092  | 95   | 149304   | 24.84 | ug/L   | 99       |
| 36) Methylcyclohexane         | 9.335  | 83   | 245834   | 24.32 | ug/L   | 96       |
| 40) 1,2-Dichloropropane       | 9.366  | 63   | 119840   | 24.49 | ug/L   | 99       |
| 41) Bromodichloromethane      | 9.640  | 83   | 172842   | 24.66 | ug/L   | 96       |
| 42) cis-1,3-Dichloropropene   | 10.073 | 75   | 197903   | 25.09 | ug/L   | 98       |
| 43) 4-Methyl-2-pentanone      | 10.207 | 43   | 116280   | 38.21 | ug/L   | 92       |
| 44) Toluene                   | 10.384 | 91   | 583277   | 24.85 | ug/L   | 100      |
| 45) trans-1,3-Dichloropropene | 10.604 | 75   | 166817   | 24.29 | ug/L   | 98       |
| 46) 1,1,2-Trichloroethane     | 10.786 | 97   | 95014    | 22.74 | ug/L   | 98       |
| 47) Tetrachloroethene         | 10.860 | 164  | 130468   | 25.50 | ug/L   | 94       |
| 49) 2-Hexanone                | 10.969 | 43   | 80652    | 38.14 | ug/L   | 96       |
| 50) Dibromochloromethane      | 11.128 | 129  | 122019   | 24.38 | ug/L   | 92       |
| 51) 1,2-Dibromoethane         | 11.231 | 107  | 92411    | 22.18 | ug/L # | 98       |
| 52) Chlorobenzene             | 11.658 | 112  | 384357   | 24.85 | ug/L   | 99       |
| 53) Ethylbenzene              | 11.731 | 91   | 665396   | 24.94 | ug/L   | 98       |
| 54) m,p-Xylene                | 11.835 | 106  | 257159   | 25.28 | ug/L   | 95       |
| 55) o-xylene                  | 12.164 | 106  | 247853   | 25.69 | ug/L   | 98       |
| 56) Styrene                   | 12.176 | 104  | 418374   | 25.50 | ug/L   | 98       |
| 57) Isopropylbenzene          | 12.463 | 105  | 688249   | 25.61 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 104514   | 21.15 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane    | 12.768 | 75   | 76110    | 20.33 | ug/L   | 98       |
| 62) Bromoform                 | 12.347 | 173  | 70527    | 23.87 | ug/L   | 97       |
| 63) 1,3-Dichlorobenzene       | 13.499 | 146  | 308205   | 25.21 | ug/L   | 98       |
| 64) 1,4-Dichlorobenzene       | 13.579 | 146  | 316481   | 25.74 | ug/L   | 91       |
| 65) 1,2-Dichlorobenzene       | 13.865 | 146  | 269706   | 24.47 | ug/L   | 93       |
| 66) 1,2-Dibromo-3-chloropr... | 14.481 | 75   | 16209    | 19.41 | ug/L   | 98       |
| 67) 1,3,5-Trichlorobenzene    | 14.627 | 180  | 247598   | 26.37 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene    | 15.127 | 180  | 197182   | 25.19 | ug/L   | 96       |
| 69) Naphthalene               | 15.365 | 128  | 322606   | 21.18 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene    | 15.548 | 180  | 167713   | 24.03 | ug/L   | 99       |

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

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