

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121018\  
 Data File : VW007368.D  
 Acq On : 10 Dec 2018 19:46  
 Operator : SY/AP  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02583

Manual Integrations  
 APPROVED

apatel  
 12/13/2018 3:41:19 PM

Quant Time: Dec 11 02:59:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120718S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 11 01:18:15 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 122174   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 100892   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 51274    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 24326    | 30.57    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 122.28%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 18350    | 27.23    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 108.92%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 80784    | 29.43    | ug/L | 0.01     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 117.72%# |
| 20) 2-Butanone-d5              | 7.08   | 46    | 25592    | 51.02    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 102.04%  |
| 24) Chloroform-d               | 7.65   | 84    | 82609    | 28.67    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 114.68%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 46743    | 28.50    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 114.00%  |
| 29) Benzene-d6                 | 8.27   | 84    | 159772   | 29.16    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 116.64%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 44188    | 28.26    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 113.04%  |
| 37) Toluene-d8                 | 10.32  | 98    | 154143   | 30.00    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 120.00%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 22770    | 28.48    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 113.92%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 20911    | 55.55    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 111.10%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 41399    | 29.06    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 116.24%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 51327    | 28.46    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 113.84%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 37598    | 28.179 | ug/L   | 93     |
| 3) Chloromethane               | 2.21 | 50   | 23442    | 21.947 | ug/L   | 99     |
| 5) Vinyl chloride              | 2.37 | 62   | 29562    | 29.336 | ug/L   | 98     |
| 6) Bromomethane                | 2.78 | 94   | 17551    | 25.181 | ug/L   | 100    |
| 8) Chloroethane                | 2.93 | 64   | 15109    | 24.908 | ug/L   | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 24571    | 21.242 | ug/L   | 98     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101  | 43436m   | 28.169 | ug/L   |        |
| 12) 1,1-Dichloroethene         | 4.03 | 96   | 38923    | 27.128 | ug/L   | 93     |
| 13) Acetone                    | 4.12 | 43   | 22503    | 38.580 | ug/L   | 99     |
| 14) Carbon disulfide           | 4.37 | 76   | 115366   | 27.538 | ug/L   | 99     |
| 15) Methyl Acetate             | 4.67 | 43   | 20073    | 22.950 | ug/L # | 93     |
| 16) Methylene chloride         | 4.91 | 84   | 40716    | 20.625 | ug/L   | 97     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 60292    | 25.843 | ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 41004    | 26.639 | ug/L   | 95     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 68419    | 26.076 | ug/L   | 98     |
| 21) 2-Butanone                 | 7.17 | 43   | 27897    | 44.499 | ug/L   | 99     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 44259    | 26.129 | ug/L   | 98     |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 20197    | 26.156 | uq/L   | 89       |
| 25) Chloroform                  | 7.68  | 83   | 76810    | 27.056 | uq/L   | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 54356    | 26.784 | uq/L   | 99       |
| 30) Cyclohexane                 | 7.95  | 56   | 65399    | 27.020 | uq/L   | 98       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 69266    | 29.169 | uq/L   | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 67082    | 29.233 | uq/L   | 97       |
| 34) Benzene                     | 8.32  | 78   | 158155   | 27.348 | uq/L   | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 45721    | 27.571 | uq/L   | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 77395    | 27.036 | uq/L   | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 37935    | 26.817 | uq/L   | 98       |
| 41) Bromodichloromethane        | 9.65  | 83   | 56508    | 27.820 | uq/L   | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 65101    | 27.403 | uq/L   | 96       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 56323    | 50.303 | uq/L   | 99       |
| 44) Toluene                     | 10.39 | 91   | 176857   | 28.373 | uq/L   | 99       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 57513    | 27.567 | uq/L   | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 32514    | 27.914 | uq/L   | 89       |
| 47) Tetrachloroethene           | 10.87 | 164  | 34725    | 27.721 | uq/L   | 89       |
| 49) 2-Hexanone                  | 10.97 | 43   | 40212    | 51.099 | uq/L   | 96       |
| 50) Dibromochloromethane        | 11.13 | 129  | 38271    | 26.745 | uq/L   | 83       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 31122    | 26.604 | uq/L   | 99       |
| 52) Chlorobenzene               | 11.66 | 112  | 113983   | 28.176 | uq/L   | 93       |
| 53) Ethylbenzene                | 11.73 | 91   | 204644   | 29.197 | uq/L   | 97       |
| 54) m,p-Xylene                  | 11.84 | 106  | 76939    | 28.897 | uq/L   | 92       |
| 55) o-xylene                    | 12.17 | 106  | 70712    | 28.103 | uq/L   | 100      |
| 56) Styrene                     | 12.18 | 104  | 125868   | 29.183 | uq/L   | 97       |
| 57) Isopropylbenzene            | 12.46 | 105  | 196978   | 28.049 | uq/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.72 | 83   | 35960    | 24.903 | uq/L # | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 29754    | 26.031 | uq/L   | 95       |
| 62) Bromoform                   | 12.35 | 173  | 22840    | 26.011 | uq/L   | 96       |
| 63) 1,3-Dichlorobenzene         | 13.51 | 146  | 89401    | 27.140 | uq/L   | 89       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 83739    | 25.500 | uq/L   | 86       |
| 65) 1,2-Dichlorobenzene         | 13.88 | 146  | 77539    | 26.302 | uq/L   | 94       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 7880     | 25.237 | uq/L   | 93       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 62601    | 26.235 | uq/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 15.14 | 180  | 55964    | 27.204 | uq/L   | 97       |
| 69) Naphthalene                 | 15.38 | 128  | 125841   | 24.747 | uq/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 50820    | 27.173 | uq/L   | 98       |

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

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