

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090320\  
 Data File : VW016455.D  
 Acq On : 03 Sep 2020 18:54  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02508

Quant Time: Sep 04 05:38:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM090320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 04 04:59:18 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 789620   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 728870   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 343343   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 199095   | 23.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.08%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 185457   | 24.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 98.60%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 434442   | 22.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 90.20%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 136203   | 45.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 91.04%  |
| 24) Chloroform-d               | 7.65   | 84    | 447201   | 24.18    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 96.72%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 241112   | 23.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 95.36%  |
| 29) Benzene-d6                 | 8.28   | 84    | 879884   | 23.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 95.00%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 255556   | 23.48    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.92%  |
| 37) Toluene-d8                 | 10.33  | 98    | 842433   | 23.92    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 95.68%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 129059   | 23.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 94.00%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 109188   | 49.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 98.16%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 225220   | 24.46    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.84%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 304618   | 25.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 102.68% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.02 | 85  | 217134 | 24.579 | ug/L 92  |
| 3) Chloromethane               | 2.22 | 50  | 197532 | 25.468 | ug/L 100 |
| 5) Vinyl chloride              | 2.37 | 62  | 257175 | 26.033 | ug/L 98  |
| 6) Bromomethane                | 2.79 | 94  | 195640 | 26.496 | ug/L 100 |
| 8) Chloroethane                | 2.93 | 64  | 163107 | 26.839 | ug/L 99  |
| 9) Trichlorofluoromethane      | 3.27 | 101 | 200263 | 24.753 | ug/L 99  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 238300 | 24.903 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 4.05 | 96  | 243011 | 24.975 | ug/L 99  |
| 13) Acetone                    | 4.12 | 43  | 89927  | 46.830 | ug/L 98  |
| 14) Carbon disulfide           | 4.39 | 76  | 730750 | 24.575 | ug/L 99  |
| 15) Methyl Acetate             | 4.67 | 43  | 113241 | 24.315 | ug/L 100 |
| 16) Methylene chloride         | 4.92 | 84  | 259859 | 21.087 | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 375258 | 25.708 | ug/L 97  |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 255474 | 24.718 | ug/L 96  |
| 19) 1,1-Dichloroethane         | 6.22 | 63  | 430164 | 24.454 | ug/L 98  |
| 21) 2-Butanone                 | 7.17 | 43  | 148132 | 45.961 | ug/L 96  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 275740 | 25.609 | ug/L 98  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 7.52  | 128  | 126108   | 25.267 | ug/L   | 94       |
| 25) Chloroform                 | 7.68  | 83   | 451554   | 24.801 | ug/L   | 99       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 298562   | 24.626 | ug/L   | 97       |
| 30) Cyclohexane                | 7.96  | 56   | 404426   | 23.228 | ug/L   | 96       |
| 31) 1,1,1-Trichloroethane      | 7.88  | 97   | 386105   | 24.464 | ug/L   | 99       |
| 32) Carbon tetrachloride       | 8.07  | 117  | 373876   | 24.767 | ug/L   | 99       |
| 34) Benzene                    | 8.33  | 78   | 982103   | 24.644 | ug/L   | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 270203   | 24.470 | ug/L   | 98       |
| 36) Methylcyclohexane          | 9.34  | 83   | 469654   | 24.309 | ug/L   | 97       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 235903   | 23.942 | ug/L   | 99       |
| 41) Bromodichloromethane       | 9.65  | 83   | 342469   | 24.861 | ug/L   | 97       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 412644   | 24.679 | ug/L   | 97       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 330222   | 47.329 | ug/L   | 98       |
| 44) Toluene                    | 10.39 | 91   | 1112958  | 24.958 | ug/L   | 98       |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 361922   | 24.215 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 196397   | 25.149 | ug/L   | 96       |
| 47) Tetrachloroethene          | 10.87 | 164  | 221020   | 24.964 | ug/L   | 93       |
| 49) 2-Hexanone                 | 10.97 | 43   | 225907   | 46.492 | ug/L   | 98       |
| 50) Dibromochloromethane       | 11.13 | 129  | 246108   | 24.923 | ug/L   | 99       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 196689   | 25.205 | ug/L # | 98       |
| 52) Chlorobenzene              | 11.66 | 112  | 719221   | 25.425 | ug/L   | 99       |
| 53) Ethylbenzene               | 11.73 | 91   | 1248670  | 24.860 | ug/L   | 97       |
| 54) m,p-Xylene                 | 11.84 | 106  | 484344   | 25.230 | ug/L   | 100      |
| 55) o-xylene                   | 12.17 | 106  | 465400   | 25.451 | ug/L   | 100      |
| 56) Styrene                    | 12.18 | 104  | 793724   | 25.262 | ug/L   | 98       |
| 57) Isopropylbenzene           | 12.47 | 105  | 1266189  | 25.277 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 233142   | 25.044 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 172044   | 24.727 | ug/L   | 99       |
| 62) Bromoform                  | 12.35 | 173  | 155561   | 27.001 | ug/L   | 97       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 563714   | 26.079 | ug/L   | 96       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 554038   | 25.849 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 513977   | 26.750 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 42767    | 23.904 | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 395871   | 26.571 | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 334525   | 25.959 | ug/L   | 96       |
| 69) Naphthalene                | 15.37 | 128  | 724420   | 26.635 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.56 | 180  | 279197   | 25.234 | ug/L   | 95       |

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

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