

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV032620\  
 Data File : VV015210.D  
 Acq On : 27 Mar 2020 13:48  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05078

Manual Integrations  
 APPROVED

apatel  
 3/30/2020 2:58:23 PM

Quant Time: Mar 28 03:43:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Mar 28 01:31:46 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 679905   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 673597   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 321077   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 146041   | 40.03    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 80.06% |
| 7) Chloroethane-d5             | 1.58    | 69    | 153973   | 41.87    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 83.74% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 359246   | 43.19    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.38% |
| 21) 2-Butanone-d5              | 3.94    | 46    | 348031   | 95.82    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.82% |
| 24) Chloroform-d               | 4.38    | 84    | 369568   | 46.23    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.46% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 243316   | 46.10    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.20% |
| 32) Benzene-d6                 | 5.08    | 84    | 609675   | 44.00    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.00% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 223258   | 44.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.34% |
| 41) Toluene-d8                 | 7.34    | 98    | 546411   | 43.52    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.04% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 120442   | 44.25    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.50% |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 274388   | 93.89    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.89% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 397560   | 46.84    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.68% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 271646   | 45.31    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.62% |

## Target Compounds

|                                |      |     |         |               | Ovalue |
|--------------------------------|------|-----|---------|---------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 258635  | 43.111 ug/L   | 98     |
| 3) Chloromethane               | 1.25 | 50  | 287592  | 44.143 ug/L   | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 299576  | 44.890 ug/L   | 100    |
| 6) Bromomethane                | 1.53 | 94  | 181320  | 42.100 ug/L   | 98     |
| 8) Chloroethane                | 1.60 | 64  | 185390  | 42.485 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 471236  | 42.792 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 259198  | 46.539 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 251667  | 45.895 ug/L   | 96     |
| 13) Acetone                    | 2.23 | 43  | 206520m | 82.212 ug/L   |        |
| 14) Carbon disulfide           | 2.31 | 76  | 622656  | 44.279 ug/L   | 100    |
| 15) Methyl Acetate             | 2.46 | 43  | 228610  | 43.959 ug/L   | 100    |
| 16) Methylene chloride         | 2.53 | 84  | 235769  | 46.060 ug/L   | 100    |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 213075  | 44.711 ug/L   | 99     |
| 18) Methyl tert-butyl Ether    | 2.79 | 73  | 721043  | 44.892 ug/L   | 100    |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 401244  | 45.582 ug/L   | 99     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 243108  | 45.795 ug/L # | 99     |
| 22) 2-Butanone                 | 4.02 | 43  | 328585  | 83.144 ug/L   | 94     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 117852   | 45.888 | ug/L  | 98       |
| 25) Chloroform                  | 4.41  | 83   | 423950   | 46.749 | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.16  | 62   | 332950   | 46.309 | ug/L  | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 366701   | 44.480 | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 4.64  | 97   | 387200   | 45.392 | ug/L  | 100      |
| 31) Carbon tetrachloride        | 4.86  | 117  | 326609   | 45.551 | ug/L  | 100      |
| 33) Benzene                     | 5.13  | 78   | 921495   | 45.951 | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 241628   | 46.253 | ug/L  | 100      |
| 35) Methylcyclohexane           | 6.15  | 83   | 388591   | 44.762 | ug/L  | 100      |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 231923   | 45.233 | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.53  | 83   | 331531   | 45.625 | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 387570   | 45.222 | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 685973   | 88.717 | ug/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 1027419  | 45.923 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 377740   | 45.144 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 232171   | 46.257 | ug/L  | 98       |
| 46) Tetrachloroethene           | 8.00  | 164  | 160908   | 45.834 | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.17  | 43   | 516737   | 84.630 | ug/L  | 96       |
| 49) Dibromochloromethane        | 8.27  | 129  | 255271   | 46.160 | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 251116   | 45.964 | ug/L  | 100      |
| 51) Chlorobenzene               | 8.90  | 112  | 652530   | 45.662 | ug/L  | 98       |
| 52) Ethylbenzene                | 9.04  | 91   | 1160624  | 46.044 | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 445999   | 46.379 | ug/L  | 98       |
| 54) o-xylene                    | 9.57  | 106  | 442273   | 45.789 | ug/L  | 100      |
| 55) Styrene                     | 9.58  | 104  | 759665   | 46.486 | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 1158507  | 46.718 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 374402   | 44.254 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 312835   | 45.928 | ug/L  | 100      |
| 61) Bromoform                   | 9.75  | 173  | 161224   | 43.584 | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 481239   | 44.703 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 484849   | 44.584 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 486706   | 44.592 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 101864   | 42.007 | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 306460   | 44.488 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 283856   | 43.201 | ug/L  | 98       |
| 69) Naphthalene                 | 13.53 | 128  | 1142168  | 43.408 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 289305   | 43.973 | ug/L  | 98       |

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

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