

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031620\  
 Data File : VV014963.D  
 Acq On : 16 Mar 2020 22:09  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05093

Manual Integrations  
 APPROVED

apatel  
 3/18/2020 3:12:32 PM

Quant Time: Mar 18 05:27:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 18 03:17:46 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 376039   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 370208   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 197969   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 118083   | 47.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 94.28%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 92930    | 49.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 99.88%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 183637   | 47.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.56%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 149571   | 97.92    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.92%  |
| 24) Chloroform-d               | 4.38    | 84    | 256550   | 49.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.30%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 159767   | 48.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.62%  |
| 32) Benzene-d6                 | 5.08    | 84    | 510303   | 50.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.08% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 150413   | 49.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.06%  |
| 41) Toluene-d8                 | 7.34    | 98    | 513013   | 50.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.72% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 76772    | 47.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.10%  |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 138439   | 100.99   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.99% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 219411   | 49.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.70%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 219890   | 50.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.40% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 159363 | 45.339 | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 114563 | 45.286 | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 112740 | 45.989 | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 48601  | 30.925 | ug/L 92  |
| 8) Chloroethane                | 1.60 | 64  | 68232  | 51.150 | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 179315 | 46.227 | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 87362  | 45.097 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 84769  | 47.969 | ug/L 93  |
| 13) Acetone                    | 2.21 | 43  | 94264m | 62.455 | ug/L     |
| 14) Carbon disulfide           | 2.31 | 76  | 278031 | 47.952 | ug/L 100 |
| 15) Methyl Acetate             | 2.46 | 43  | 91326  | 46.846 | ug/L 100 |
| 16) Methylene chloride         | 2.52 | 84  | 129938 | 48.599 | ug/L 97  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 117243 | 47.269 | ug/L 99  |
| 18) Methyl tert-butyl Ether    | 2.79 | 73  | 383573 | 48.388 | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 209792 | 47.048 | ug/L 100 |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 134575 | 47.623 | ug/L 98  |
| 22) 2-Butanone                 | 4.01 | 43  | 134885 | 88.962 | ug/L 95  |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.28  | 128  | 71251    | 47.609 | ug/L  | 96       |
| 25) Chloroform                 | 4.41  | 83   | 232369   | 47.198 | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 176358   | 47.533 | ug/L  | 100      |
| 29) Cyclohexane                | 4.70  | 56   | 181863   | 47.562 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 4.64  | 97   | 211810   | 48.104 | ug/L  | 98       |
| 31) Carbon tetrachloride       | 4.86  | 117  | 188797   | 48.095 | ug/L  | 100      |
| 33) Benzene                    | 5.13  | 78   | 492498   | 48.889 | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 126626   | 46.841 | ug/L  | 97       |
| 35) Methylcyclohexane          | 6.16  | 83   | 201884   | 46.294 | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 118043   | 46.764 | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.53  | 83   | 171623   | 47.962 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 197701   | 47.643 | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone       | 7.26  | 43   | 339215   | 99.897 | ug/L  | 99       |
| 42) Toluene                    | 7.41  | 91   | 554818   | 48.946 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 175239   | 47.461 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 127936   | 48.671 | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.00  | 164  | 118779   | 47.031 | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.17  | 43   | 262928   | 97.489 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.27  | 129  | 145833   | 49.320 | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.37  | 107  | 139439   | 48.357 | ug/L  | 99       |
| 51) Chlorobenzene              | 8.90  | 112  | 398744   | 51.082 | ug/L  | 98       |
| 52) Ethylbenzene               | 9.03  | 91   | 629161   | 48.699 | ug/L  | 98       |
| 53) m,p-Xylene                 | 9.16  | 106  | 246621   | 49.189 | ug/L  | 98       |
| 54) o-xylene                   | 9.56  | 106  | 242047   | 48.696 | ug/L  | 99       |
| 55) Styrene                    | 9.58  | 104  | 413117   | 49.785 | ug/L  | 98       |
| 56) Isopropylbenzene           | 9.95  | 105  | 645868   | 49.278 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 209368   | 48.146 | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane     | 10.30 | 75   | 167109   | 48.278 | ug/L  | 99       |
| 61) Bromoform                  | 9.75  | 173  | 106266   | 50.031 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 317965   | 48.739 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 328281   | 49.954 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 328284   | 50.376 | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 47321    | 48.303 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 240294   | 46.979 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.28 | 180  | 226230   | 49.623 | ug/L  | 99       |
| 69) Naphthalene                | 13.52 | 128  | 297320   | 50.769 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 225089   | 49.877 | ug/L  | 99       |

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

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