

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092520\  
 Data File : VV018458.D  
 Acq On : 25 Sep 2020 16:15  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05088

Quant Time: Sep 25 23:46:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 25 23:36:18 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 403082   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 385342   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 202963   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 151103   | 46.00    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.00% |
| 7) Chloroethane-d5             | 1.58    | 69    | 121557   | 45.22    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.44% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 269369   | 44.70    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.40% |
| 21) 2-Butanone-d5              | 3.92    | 46    | 185507   | 92.26    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 92.26% |
| 24) Chloroform-d               | 4.38    | 84    | 257658   | 45.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.42% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 161081   | 44.09    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.18% |
| 32) Benzene-d6                 | 5.08    | 84    | 527369   | 47.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.62% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 164209   | 46.85    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.70% |
| 41) Toluene-d8                 | 7.34    | 98    | 488490   | 48.59    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.18% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 85287    | 47.88    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.76% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 130261   | 98.11    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 98.11% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 211026   | 47.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.94% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 198542   | 47.63    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.26% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 121694 | 41.403 | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 139667 | 43.517 | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 147078 | 44.689 | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 95291  | 47.370 | ug/L 100 |
| 8) Chloroethane                | 1.60 | 64  | 94600  | 45.885 | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 200851 | 44.355 | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 126060 | 46.346 | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 126175 | 47.674 | ug/L 92  |
| 13) Acetone                    | 2.20 | 43  | 120261 | 74.694 | ug/L 100 |
| 14) Carbon disulfide           | 2.31 | 76  | 332592 | 41.068 | ug/L 100 |
| 15) Methyl Acetate             | 2.45 | 43  | 136922 | 47.322 | ug/L 97  |
| 16) Methylene chloride         | 2.52 | 84  | 141122 | 47.544 | ug/L 95  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 129767 | 47.577 | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 426596 | 50.561 | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 244720 | 47.454 | ug/L 100 |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 147002 | 50.418 | ug/L 96  |
| 22) 2-Butanone                 | 4.00 | 43  | 185646 | 97.374 | ug/L 100 |

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| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.28  | 128  | 74485    | 48.826  | ug/L  | 96       |
| 25) Chloroform                  | 4.40  | 83   | 248078   | 47.324  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 188011   | 46.329  | ug/L  | 98       |
| 29) Cyclohexane                 | 4.70  | 56   | 211155   | 47.454  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane       | 4.64  | 97   | 216534   | 48.420  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 184689   | 46.967  | ug/L  | 98       |
| 33) Benzene                     | 5.13  | 78   | 551840   | 50.088  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 149813   | 49.917  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.16  | 83   | 202552   | 44.824  | ug/L  | 97       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 142867   | 48.936  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 182388   | 48.007  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 229725   | 51.070  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 366475   | 103.471 | ug/L  | 97       |
| 42) Toluene                     | 7.41  | 91   | 592356   | 50.805  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 219819   | 50.190  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 137756   | 50.908  | ug/L  | 99       |
| 46) Tetrachloroethene           | 8.00  | 164  | 114981   | 48.861  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.16  | 43   | 276386   | 98.982  | ug/L  | 96       |
| 49) Dibromochloromethane        | 8.27  | 129  | 149924   | 49.359  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 145694   | 51.158  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 384055   | 50.721  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.03  | 91   | 650098   | 51.071  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 246706   | 51.925  | ug/L  | 95       |
| 54) o-xylene                    | 9.56  | 106  | 241696   | 52.803  | ug/L  | 98       |
| 55) Styrene                     | 9.58  | 104  | 422951   | 53.162  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 636419   | 51.590  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 205463   | 51.330  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 173535   | 50.537  | ug/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 111435   | 51.108  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 310640   | 51.471  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 315369   | 50.838  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 309225   | 50.690  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 45213    | 52.522  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 213896   | 44.956  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 207669   | 49.014  | ug/L  | 98       |
| 69) Naphthalene                 | 13.52 | 128  | 646600   | 60.313  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 205741   | 49.302  | ug/L  | 100      |

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

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