

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082219\  
 Data File : VV012357.D  
 Acq On : 22 Aug 2019 19:09  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5mL/MSVOA V/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05079

Quant Time: Aug 23 07:01:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM082119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 23 06:55:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 196346   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 189406   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 104615   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 36974    | 39.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 79.54%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 28593    | 42.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 85.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 80221    | 43.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.68%  |
| 21) 2-Butanone-d5              | 3.92    | 46    | 77286    | 106.66   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 106.66% |
| 24) Chloroform-d               | 4.40    | 84    | 133200   | 50.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.82% |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 93337    | 51.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.44% |
| 32) Benzene-d6                 | 5.10    | 84    | 240767   | 47.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.34%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 64586    | 47.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.56%  |
| 41) Toluene-d8                 | 7.36    | 98    | 236913   | 48.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.26%  |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 38193    | 45.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.80%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 58116    | 103.09   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.09% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 98985    | 50.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 101.76% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 111237   | 48.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.74%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 89402  | 53.154  | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 47557  | 49.605  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 56142  | 59.203  | ug/L 99  |
| 6) Bromomethane                | 1.52 | 94  | 26120  | 52.834  | ug/L 90  |
| 8) Chloroethane                | 1.60 | 64  | 25385  | 47.315  | ug/L 97  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 103897 | 54.460  | ug/L 97  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 42486  | 49.147  | ug/L 97  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 39248  | 49.695  | ug/L 89  |
| 13) Acetone                    | 2.18 | 43  | 44290  | 81.451  | ug/L 100 |
| 14) Carbon disulfide           | 2.32 | 76  | 148140 | 49.817  | ug/L 100 |
| 15) Methyl Acetate             | 2.45 | 43  | 53471  | 52.406  | ug/L 100 |
| 16) Methylene chloride         | 2.53 | 84  | 62610  | 52.032  | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 64069  | 53.607  | ug/L 97  |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 204524 | 51.655  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 107515 | 53.573  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 95270  | 71.633  | ug/L 95  |
| 22) 2-Butanone                 | 4.01 | 43  | 78067  | 100.049 | ug/L 99  |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 39691    | 53.937  | ug/L  | 99       |
| 25) Chloroform                  | 4.42  | 83   | 131132   | 52.927  | ug/L  | 95       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 113468   | 56.343  | ug/L  | 100      |
| 29) Cyclohexane                 | 4.73  | 56   | 86986    | 50.445  | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane       | 4.66  | 97   | 129660   | 53.179  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 126373   | 55.175  | ug/L  | 98       |
| 33) Benzene                     | 5.14  | 78   | 256060   | 53.634  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 72334    | 51.728  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.18  | 83   | 105065   | 49.691  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 55298    | 51.093  | ug/L  | 98       |
| 38) Bromodichloromethane        | 6.55  | 83   | 103172   | 54.462  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 106463   | 52.989  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 156655   | 107.651 | ug/L  | 99       |
| 42) Toluene                     | 7.43  | 91   | 289315   | 53.722  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 100752   | 52.615  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 67666    | 54.082  | ug/L  | 94       |
| 46) Tetrachloroethene           | 8.02  | 164  | 68674    | 51.322  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.18  | 43   | 120736   | 109.898 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.29  | 129  | 89974    | 53.178  | ug/L  | 100      |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 74833    | 53.892  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.92  | 112  | 197907   | 53.085  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.05  | 91   | 329985   | 53.017  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.18  | 106  | 127193   | 52.655  | ug/L  | 100      |
| 54) o-xylene                    | 9.59  | 106  | 126325   | 53.279  | ug/L  | 99       |
| 55) Styrene                     | 9.60  | 104  | 217094   | 54.678  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.97  | 105  | 339687   | 52.881  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 97055    | 53.383  | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane      | 10.31 | 75   | 84049    | 54.498  | ug/L  | 99       |
| 61) Bromoform                   | 9.77  | 173  | 71558    | 51.813  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 171333   | 52.603  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 172055   | 52.347  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 173385   | 52.606  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 26674    | 55.630  | ug/L  | 90       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 134335   | 52.032  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 106667   | 52.804  | ug/L  | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 270484   | 49.843  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 112134   | 54.217  | ug/L  | 100      |

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

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