

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030320\  
 Data File : VU037031.D  
 Acq On : 03 Mar 2020 18:26  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05044

Quant Time: Mar 04 06:56:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 04 06:53:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 276492   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 264174   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 117723   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 104517   | 45.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 90.02%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 96557    | 50.26    | ug/L | 0.02    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 100.52% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 178449   | 45.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.78%  |
| 21) 2-Butanone-d5              | 4.67    | 46    | 151524   | 97.29    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.29%  |
| 24) Chloroform-d               | 5.11    | 84    | 176858   | 49.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.76%  |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 117129   | 48.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.62%  |
| 32) Benzene-d6                 | 5.76    | 84    | 372677   | 48.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.56%  |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 120334   | 48.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.24%  |
| 41) Toluene-d8                 | 7.93    | 98    | 340943   | 48.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.22%  |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 51542    | 44.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.62%  |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 109463   | 90.45    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 90.45%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 168672   | 48.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.68%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 108662   | 47.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.44%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 111577   | 47.576 | ug/L  | 99     |
| 3) Chloromethane               | 1.54 | 50   | 128640   | 47.678 | ug/L  | 99     |
| 5) Vinyl chloride              | 1.62 | 62   | 135821   | 48.803 | ug/L  | 100    |
| 6) Bromomethane                | 1.87 | 94   | 74963    | 52.499 | ug/L  | 98     |
| 8) Chloroethane                | 1.95 | 64   | 84484    | 50.642 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 2.16 | 101  | 149610   | 50.687 | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101  | 89636    | 50.766 | ug/L  | 100    |
| 12) 1,1-Dichloroethene         | 2.60 | 96   | 85948    | 48.127 | ug/L  | 90     |
| 13) Acetone                    | 2.66 | 43   | 113507   | 70.852 | ug/L  | 99     |
| 14) Carbon disulfide           | 2.82 | 76   | 245143   | 43.385 | ug/L  | 100    |
| 15) Methyl Acetate             | 2.98 | 43   | 122682   | 50.241 | ug/L  | 98     |
| 16) Methylene chloride         | 3.08 | 84   | 109916   | 50.461 | ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96   | 91319    | 47.600 | ug/L  | 98     |
| 18) Methyl tert-butyl Ether    | 3.40 | 73   | 306716   | 49.184 | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.91 | 63   | 187614   | 50.329 | ug/L  | 98     |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96   | 105187   | 49.035 | ug/L  | 99     |
| 22) 2-Butanone                 | 4.75 | 43   | 175432   | 90.810 | ug/L  | 98     |

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 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA U/WATER  
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 ClientSampleId :  
 VSTD05044

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 Quant Title : VOC Analysis  
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| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 49744    | 51.205  | ug/L  | 97       |
| 25) Chloroform                  | 5.13  | 83   | 184401   | 51.268  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.83  | 62   | 151171   | 51.625  | ug/L  | 99       |
| 29) Cyclohexane                 | 5.43  | 56   | 161288   | 46.008  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane       | 5.36  | 97   | 143259   | 50.579  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 113744   | 51.236  | ug/L  | 99       |
| 33) Benzene                     | 5.81  | 78   | 419838   | 50.306  | ug/L  | 100      |
| 34) Trichloroethene             | 6.57  | 95   | 102892   | 50.161  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.79  | 83   | 164879   | 46.361  | ug/L  | 100      |
| 37) 1,2-Dichloropropane         | 6.82  | 63   | 115222   | 51.276  | ug/L  | 99       |
| 38) Bromodichloromethane        | 7.14  | 83   | 134944   | 50.875  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 169447   | 48.952  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.82  | 43   | 337049   | 101.792 | ug/L  | 99       |
| 42) Toluene                     | 8.00  | 91   | 445297   | 50.082  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 8.23  | 75   | 147531   | 49.132  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 102377   | 51.233  | ug/L  | 99       |
| 46) Tetrachloroethene           | 8.57  | 164  | 66710    | 49.368  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.71  | 43   | 262920   | 99.505  | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.84  | 129  | 96192    | 50.716  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 105139   | 50.315  | ug/L  | 100      |
| 51) Chlorobenzene               | 9.47  | 112  | 261201   | 49.580  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.59  | 91   | 473197   | 49.093  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.71  | 106  | 174349   | 49.312  | ug/L  | 99       |
| 54) o-xylene                    | 10.12 | 106  | 173084   | 49.083  | ug/L  | 96       |
| 55) Styrene                     | 10.13 | 104  | 288930   | 50.122  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.50 | 105  | 447480   | 49.406  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.80 | 83   | 182637   | 51.124  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.84 | 75   | 149066   | 51.567  | ug/L  | 100      |
| 61) Bromoform                   | 10.31 | 173  | 66187    | 49.729  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.76 | 146  | 184250   | 48.247  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.85 | 146  | 183439   | 48.618  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 191060   | 50.107  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 38232    | 50.540  | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 120659   | 49.777  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.87 | 180  | 91110    | 50.167  | ug/L  | 99       |
| 69) Naphthalene                 | 14.12 | 128  | 139822   | 43.614  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.36 | 180  | 93198    | 51.353  | ug/L  | 98       |

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

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