

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032519\  
 Data File : VU030427.D  
 Acq On : 26 Mar 2019 01:01  
 Operator : JC/SP  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05031

Quant Time: Mar 26 01:43:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Mar 26 01:25:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 430984   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 404431   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 185365   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 174665   | 50.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 100.72% |
| 7) Chloroethane-d5             | 1.67    | 69    | 141578   | 51.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 103.00% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 328916   | 49.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.98%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 320208   | 98.21    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.21%  |
| 24) Chloroform-d               | 4.64    | 84    | 303745   | 50.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.66% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 189795   | 48.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.06%  |
| 32) Benzene-d6                 | 5.34    | 84    | 584627   | 50.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.82% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 205375   | 51.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.52% |
| 41) Toluene-d8                 | 7.56    | 98    | 512298   | 49.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.36%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 90468    | 48.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.98%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 214499   | 99.75    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.75%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 278984   | 49.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.26%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 183068   | 49.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.58%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85   | 228473   | 48.047 | ug/L   | 99     |
| 3) Chloromethane               | 1.33 | 50   | 267154   | 50.233 | ug/L   | 98     |
| 5) Vinyl chloride              | 1.40 | 62   | 252750   | 50.117 | ug/L   | 98     |
| 6) Bromomethane                | 1.62 | 94   | 84202    | 36.395 | ug/L   | 99     |
| 8) Chloroethane                | 1.69 | 64   | 178019   | 62.526 | ug/L   | 96     |
| 9) Trichlorofluoromethane      | 1.88 | 101  | 280256   | 50.960 | ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101  | 156209   | 49.661 | ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.28 | 96   | 153825   | 49.885 | ug/L   | 98     |
| 13) Acetone                    | 2.32 | 43   | 230040   | 69.764 | ug/L   | 99     |
| 14) Carbon disulfide           | 2.47 | 76   | 491096   | 48.168 | ug/L   | 99     |
| 15) Methyl Acetate             | 2.62 | 43   | 260337   | 51.562 | ug/L # | 100    |
| 16) Methylene chloride         | 2.70 | 84   | 186185   | 51.218 | ug/L   | 97     |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96   | 161843   | 50.028 | ug/L   | 98     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73   | 563315   | 52.655 | ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.44 | 63   | 347895   | 52.417 | ug/L   | 98     |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96   | 183409   | 50.552 | ug/L   | 97     |
| 22) 2-Butanone                 | 4.26 | 43   | 371012   | 93.088 | ug/L   | 98     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.55  | 128  | 84015    | 49.821  | ug/L  | 97       |
| 25) Chloroform                  | 4.67  | 83   | 327154   | 51.843  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.40  | 62   | 265545   | 53.627  | ug/L  | 98       |
| 29) Cyclohexane                 | 4.99  | 56   | 326222   | 53.302  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.91  | 97   | 265831   | 53.681  | ug/L  | 100      |
| 31) Carbon tetrachloride        | 5.13  | 117  | 223411   | 53.226  | ug/L  | 97       |
| 33) Benzene                     | 5.39  | 78   | 742678   | 53.945  | ug/L  | 100      |
| 34) Trichloroethene             | 6.18  | 95   | 176013   | 52.007  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.41  | 83   | 272907   | 49.002  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.43  | 63   | 211573   | 54.153  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.75  | 83   | 242792   | 52.300  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 295669   | 52.650  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 677095   | 103.175 | ug/L  | 99       |
| 42) Toluene                     | 7.63  | 91   | 753903   | 52.765  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.87  | 75   | 252667   | 51.135  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 8.06  | 97   | 175219   | 53.078  | ug/L  | 96       |
| 46) Tetrachloroethene           | 8.23  | 164  | 119469   | 50.539  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.36  | 43   | 526696   | 97.924  | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.47  | 129  | 179722   | 52.395  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.58  | 107  | 185011   | 52.221  | ug/L  | 100      |
| 51) Chlorobenzene               | 9.12  | 112  | 449478   | 51.906  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.25  | 91   | 804459   | 51.975  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.37  | 106  | 291322   | 52.127  | ug/L  | 95       |
| 54) o-xylene                    | 9.77  | 106  | 286487   | 52.537  | ug/L  | 98       |
| 55) Styrene                     | 9.79  | 104  | 494547   | 52.648  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.16 | 105  | 753428   | 52.180  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.45 | 83   | 309939   | 50.942  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 242022   | 50.892  | ug/L  | 99       |
| 61) Bromoform                   | 9.95  | 173  | 127688   | 51.810  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.41 | 146  | 307270   | 50.688  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.50 | 146  | 314464   | 50.390  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.87 | 146  | 328300   | 53.560  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.65 | 75   | 71130    | 52.116  | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 225659   | 49.725  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 199504   | 50.596  | ug/L  | 100      |
| 69) Naphthalene                 | 13.74 | 128  | 669083   | 47.720  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 212752   | 51.097  | ug/L  | 99       |

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

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