

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021020\  
 Data File : VU036702.D  
 Acq On : 10 Feb 2020 10:06  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050110

Quant Time: Feb 11 03:23:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMULM020620W.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Feb 10 16:50:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 269386   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 253895   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 115034   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 80744    | 44.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.88% |
| 7) Chloroethane-d5             | 1.93    | 69    | 74920    | 44.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 89.94% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 161021   | 47.47    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.94% |
| 21) 2-Butanone-d5              | 4.68    | 46    | 147106   | 95.97    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.97% |
| 24) Chloroform-d               | 5.11    | 84    | 154085   | 47.39    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.78% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 100939   | 45.39    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.78% |
| 32) Benzene-d6                 | 5.77    | 84    | 311450   | 46.66    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.32% |
| 36) 1,2-Dichloropropane-d6     | 6.73    | 67    | 103322   | 46.63    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.26% |
| 41) Toluene-d8                 | 7.93    | 98    | 280613   | 45.91    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.82% |
| 43) trans-1,3-Dichloropropene- | 8.21    | 79    | 49249    | 46.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.84% |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 116761   | 92.33    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.33% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.78   | 84    | 152206   | 46.61    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.22% |
| 66) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 98349    | 47.06    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.12% |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 97128  | 52.185  | ug/L 97  |
| 3) Chloromethane               | 1.54 | 50  | 114942 | 52.115  | ug/L 99  |
| 5) Vinyl chloride              | 1.62 | 62  | 124772 | 52.540  | ug/L 98  |
| 6) Bromomethane                | 1.87 | 94  | 75042  | 50.396  | ug/L 99  |
| 8) Chloroethane                | 1.95 | 64  | 75826  | 50.308  | ug/L 99  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 144694 | 51.274  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 89903  | 53.188  | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 85840  | 52.165  | ug/L 97  |
| 13) Acetone                    | 2.66 | 43  | 200756 | 123.298 | ug/L 99  |
| 14) Carbon disulfide           | 2.82 | 76  | 252977 | 51.444  | ug/L 100 |
| 15) Methyl Acetate             | 2.99 | 43  | 119536 | 50.782  | ug/L 100 |
| 16) Methylene chloride         | 3.08 | 84  | 103879 | 51.146  | ug/L 97  |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 91301  | 52.146  | ug/L 97  |
| 18) Methyl tert-butyl Ether    | 3.41 | 73  | 314913 | 51.823  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 181906 | 52.143  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 103962 | 52.112  | ug/L 97  |
| 22) 2-Butanone                 | 4.75 | 43  | 219618 | 113.647 | ug/L 100 |

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 VSTD050110

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 Quant Title : VOC Analysis  
 QLast Update : Mon Feb 10 16:50:58 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 5.02  | 128  | 47781    | 51.111  | ug/L  | 99       |
| 25) Chloroform                 | 5.13  | 83   | 175402   | 51.698  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.84  | 62   | 146412   | 51.315  | ug/L  | 100      |
| 29) Cyclohexane                | 5.43  | 56   | 169845   | 52.078  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane      | 5.36  | 97   | 139571   | 51.750  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.57  | 117  | 113723   | 52.076  | ug/L  | 99       |
| 33) Benzene                    | 5.81  | 78   | 399110   | 51.971  | ug/L  | 100      |
| 34) Trichloroethene            | 6.58  | 95   | 98543    | 51.892  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.80  | 83   | 173264   | 51.809  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.83  | 63   | 108571   | 52.430  | ug/L  | 100      |
| 38) Bromodichloromethane       | 7.14  | 83   | 131481   | 52.249  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.64  | 75   | 170693   | 51.589  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.83  | 43   | 325961   | 99.629  | ug/L  | 99       |
| 42) Toluene                    | 8.00  | 91   | 426981   | 51.455  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 8.24  | 75   | 150323   | 52.006  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 97421    | 51.569  | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.58  | 164  | 66147    | 49.637  | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.72  | 43   | 286013   | 107.164 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.84  | 129  | 94397    | 51.088  | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.95  | 107  | 100834   | 50.808  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.47  | 112  | 251782   | 50.390  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.60  | 91   | 465945   | 51.102  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.72  | 106  | 173298   | 51.521  | ug/L  | 99       |
| 54) o-xylene                   | 10.12 | 106  | 169333   | 50.818  | ug/L  | 99       |
| 55) Styrene                    | 10.14 | 104  | 285926   | 51.487  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 173640   | 51.009  | ug/L  | 100      |
| 59) Bromoform                  | 10.32 | 173  | 65354    | 51.423  | ug/L  | 100      |
| 60) 1,2,3-Trichloropropane     | 10.85 | 75   | 137250   | 50.722  | ug/L  | 99       |
| 61) Isopropylbenzene           | 10.51 | 105  | 443754   | 51.806  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene     | 11.11 | 105  | 385667   | 52.516  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene     | 11.49 | 105  | 384258   | 52.400  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene        | 11.77 | 146  | 188414   | 52.305  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene        | 11.86 | 146  | 189606   | 52.282  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene        | 12.23 | 146  | 190052   | 52.110  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropropan | 13.01 | 75   | 39684    | 51.319  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene     | 13.23 | 180  | 134085   | 53.679  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene     | 13.85 | 180  | 115441   | 55.424  | ug/L  | 99       |
| 71) Naphthalene                | 14.10 | 128  | 403750   | 54.991  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene     | 14.34 | 180  | 111501   | 53.732  | ug/L  | 99       |

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

