

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111120\  
 Data File : VV019331.D  
 Acq On : 11 Nov 2020 09:25  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05093

Quant Time: Nov 12 00:39:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 11 02:14:49 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 259959   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 261405   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 146565   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 117730   | 56.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 113.98% |
| 7) Chloroethane-d5             | 1.58    | 69    | 94537    | 58.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 117.82% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 220949   | 56.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 112.44% |
| 21) 2-Butanone-d5              | 3.91    | 46    | 133719   | 105.68   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.68% |
| 24) Chloroform-d               | 4.37    | 84    | 199108   | 51.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.62% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 132562   | 49.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.00%  |
| 32) Benzene-d6                 | 5.07    | 84    | 376970   | 50.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.68% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 117182   | 53.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 106.00% |
| 41) Toluene-d8                 | 7.33    | 98    | 345201   | 48.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.92%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 61767    | 48.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.56%  |
| 47) 2-Hexanone-d5              | 8.10    | 63    | 87688    | 91.58    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.58%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 148998   | 49.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 99.96%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 138649   | 45.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.06%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 108778 | 47.655  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 117241 | 56.560  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 120913 | 56.976  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 76765  | 54.001  | ug/L 99  |
| 8) Chloroethane                | 1.60 | 64  | 78548  | 59.527  | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 183347 | 51.836  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 99629  | 58.529  | ug/L 96  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 91676  | 54.993  | ug/L 96  |
| 13) Acetone                    | 2.19 | 43  | 145929 | 124.142 | ug/L 98  |
| 14) Carbon disulfide           | 2.31 | 76  | 257383 | 48.574  | ug/L 99  |
| 15) Methyl Acetate             | 2.45 | 43  | 105406 | 55.641  | ug/L 96  |
| 16) Methylene chloride         | 2.52 | 84  | 101420 | 53.577  | ug/L 94  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 91650  | 51.186  | ug/L 99  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 297462 | 49.614  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 183240 | 54.930  | ug/L 98  |
| 20) cis-1,2-Dichloroethene     | 3.93 | 96  | 98237  | 49.991  | ug/L 94  |
| 22) 2-Butanone                 | 3.99 | 43  | 164456 | 128.443 | ug/L 100 |

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 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05093

Quant Time: Nov 12 00:39:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 11 02:14:49 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|---------|--------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 52623    | 49.904  | ug/L # | 88       |
| 25) Chloroform                  | 4.40  | 83   | 187322   | 51.965  | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 157813   | 51.423  | ug/L   | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 149148   | 51.108  | ug/L   | 95       |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 169795   | 47.933  | ug/L   | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 150118   | 47.790  | ug/L   | 99       |
| 33) Benzene                     | 5.12  | 78   | 392614   | 52.092  | ug/L   | 100      |
| 34) Trichloroethene             | 5.93  | 95   | 104866   | 50.790  | ug/L   | 97       |
| 35) Methylcyclohexane           | 6.15  | 83   | 141661   | 50.822  | ug/L   | 96       |
| 37) 1,2-Dichloropropane         | 6.19  | 63   | 106252   | 56.767  | ug/L   | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 141172   | 50.701  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 160198   | 51.817  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 282122   | 109.262 | ug/L   | 98       |
| 42) Toluene                     | 7.41  | 91   | 421285   | 50.988  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 165494   | 51.458  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 96916    | 51.628  | ug/L   | 99       |
| 46) Tetrachloroethene           | 7.99  | 164  | 83078    | 47.121  | ug/L   | 98       |
| 48) 2-Hexanone                  | 8.15  | 43   | 236035   | 115.009 | ug/L   | 97       |
| 49) Dibromochloromethane        | 8.26  | 129  | 112010   | 49.281  | ug/L   | 97       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 100114   | 49.986  | ug/L   | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 266351   | 49.169  | ug/L   | 98       |
| 52) Ethylbenzene                | 9.03  | 91   | 454992   | 49.975  | ug/L   | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 173754   | 50.529  | ug/L   | 98       |
| 54) o-xylene                    | 9.56  | 106  | 163795   | 49.612  | ug/L   | 98       |
| 55) Styrene                     | 9.58  | 104  | 303479   | 51.862  | ug/L   | 100      |
| 56) Isopropylbenzene            | 9.95  | 105  | 449274   | 50.636  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 145721   | 50.980  | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 126308   | 51.620  | ug/L   | 98       |
| 61) Bromoform                   | 9.75  | 173  | 84046    | 46.487  | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 223505   | 48.346  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 228859   | 47.634  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene         | 11.66 | 146  | 223472   | 48.796  | ug/L   | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 35038    | 44.713  | ug/L   | 88       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 156463   | 45.976  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 143004   | 44.850  | ug/L   | 99       |
| 69) Naphthalene                 | 13.52 | 128  | 401722   | 44.982  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 147605   | 47.305  | ug/L   | 99       |

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

