

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110520\  
 Data File : VV019255.D  
 Acq On : 04 Nov 2020 18:00  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05086

Quant Time: Nov 05 02:29:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Nov 05 02:20:23 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 230253   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 221882   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 126419   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 91309    | 49.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 99.80%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 75020    | 52.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 105.56% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 181753   | 52.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 104.42% |
| 21) 2-Butanone-d5              | 3.91    | 46    | 123298   | 110.02   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 110.02% |
| 24) Chloroform-d               | 4.38    | 84    | 176048   | 51.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.44% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 121804   | 51.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.72% |
| 32) Benzene-d6                 | 5.07    | 84    | 326057   | 51.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.60% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 100418   | 53.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 107.02% |
| 41) Toluene-d8                 | 7.34    | 98    | 307641   | 50.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.76% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 55978    | 51.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 103.10% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 88639    | 109.06   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 109.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 134711   | 53.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.48% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 131827   | 49.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.26%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 98313  | 48.627  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 90392  | 49.233  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 96102  | 51.127  | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 63839  | 50.702  | ug/L 99  |
| 8) Chloroethane                | 1.60 | 64  | 61488  | 52.610  | ug/L 97  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 155872 | 49.754  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 77748  | 51.568  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 75712  | 51.276  | ug/L 94  |
| 13) Acetone                    | 2.19 | 43  | 96630  | 92.808  | ug/L 100 |
| 14) Carbon disulfide           | 2.31 | 76  | 220375 | 46.955  | ug/L 99  |
| 15) Methyl Acetate             | 2.44 | 43  | 89441  | 53.305  | ug/L 97  |
| 16) Methylene chloride         | 2.52 | 84  | 86467  | 51.571  | ug/L 98  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 79206  | 49.944  | ug/L 97  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 266418 | 50.169  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 150982 | 51.100  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 85463  | 49.102  | ug/L 100 |
| 22) 2-Butanone                 | 3.99 | 43  | 121545 | 107.176 | ug/L 98  |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05086

Quant Time: Nov 05 02:29:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Nov 05 02:20:23 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 46898    | 50.213  | ug/L  | 97       |
| 25) Chloroform                  | 4.40  | 83   | 160158   | 50.161  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 136646   | 50.270  | ug/L  | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 122092   | 49.289  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 148816   | 49.494  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 131168   | 49.196  | ug/L  | 100      |
| 33) Benzene                     | 5.13  | 78   | 327461   | 51.187  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 88667    | 50.593  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.15  | 83   | 118899   | 50.255  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 83418    | 52.506  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 118779   | 50.258  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 134761   | 51.354  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 237383   | 108.311 | ug/L  | 99       |
| 42) Toluene                     | 7.41  | 91   | 355102   | 50.634  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 139525   | 51.111  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 81214    | 50.970  | ug/L  | 98       |
| 46) Tetrachloroethene           | 8.00  | 164  | 71925    | 48.062  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.16  | 43   | 184622   | 105.981 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.27  | 129  | 97427    | 50.500  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 85450    | 50.265  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 227456   | 49.469  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.03  | 91   | 385948   | 49.943  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 145333   | 49.792  | ug/L  | 99       |
| 54) o-xylene                    | 9.56  | 106  | 140771   | 50.233  | ug/L  | 100      |
| 55) Styrene                     | 9.58  | 104  | 256460   | 51.634  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 378537   | 50.263  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 123946   | 51.086  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 106651   | 51.351  | ug/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 73468    | 47.112  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 193420   | 48.506  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 198566   | 47.915  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 195751   | 49.554  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 31470    | 46.560  | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 139629   | 47.567  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 130402   | 47.415  | ug/L  | 99       |
| 69) Naphthalene                 | 13.52 | 128  | 387579   | 50.314  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 134913   | 50.128  | ug/L  | 99       |

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

