

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092920\  
 Data File : VV018513.D  
 Acq On : 29 Sep 2020 13:31  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV64

Quant Time: Sep 30 01:50:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 30 01:47:57 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 389353   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 371205   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 209990   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 106880   | 46.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 93.62%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 88070    | 46.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.30%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 220123   | 47.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.62%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 172573   | 101.32   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.32% |
| 24) Chloroform-d               | 4.37    | 84    | 237764   | 48.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.30%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 151139   | 48.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.44%  |
| 32) Benzene-d6                 | 5.07    | 84    | 462830   | 49.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.44%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 141371   | 49.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.52%  |
| 41) Toluene-d8                 | 7.33    | 98    | 442133   | 49.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.96%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 78645    | 51.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.48% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 120073   | 111.27   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 111.27% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 191480   | 50.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 101.68% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 195628   | 48.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.88%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units | Ovalue |
|--------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 123860   | 46.786  | ug/L  | 99     |
| 3) Chloromethane               | 1.25 | 50   | 131015   | 46.250  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62   | 139554   | 46.857  | ug/L  | 100    |
| 6) Bromomethane                | 1.53 | 94   | 98390    | 48.539  | ug/L  | 95     |
| 8) Chloroethane                | 1.60 | 64   | 88852    | 48.412  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.76 | 101  | 218010   | 48.162  | ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101  | 123695   | 48.824  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.13 | 96   | 114184   | 46.979  | ug/L  | 93     |
| 13) Acetone                    | 2.20 | 43   | 144075   | 97.906  | ug/L  | 100    |
| 14) Carbon disulfide           | 2.31 | 76   | 385015   | 48.900  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.45 | 43   | 136868   | 48.277  | ug/L  | 100    |
| 16) Methylene chloride         | 2.52 | 84   | 139438   | 47.799  | ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96   | 135757   | 48.813  | ug/L  | 99     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73   | 418478   | 49.385  | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.21 | 63   | 236548   | 48.576  | ug/L  | 99     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96   | 144759   | 48.976  | ug/L  | 99     |
| 22) 2-Butanone                 | 4.00 | 43   | 199056   | 107.078 | ug/L  | 100    |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV64

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 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 30 01:47:57 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 78340    | 48.200  | ug/L  | 99       |
| 25) Chloroform                  | 4.40  | 83   | 248364   | 48.302  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 194544   | 48.542  | ug/L  | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 216173   | 51.060  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 228699   | 49.627  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 204618   | 49.473  | ug/L  | 100      |
| 33) Benzene                     | 5.12  | 78   | 538203   | 49.352  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 152672   | 48.222  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.15  | 83   | 215973   | 50.568  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 137484   | 49.138  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.53  | 83   | 187192   | 49.957  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 220246   | 50.172  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 375717   | 104.067 | ug/L  | 99       |
| 42) Toluene                     | 7.41  | 91   | 589157   | 49.939  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 222734   | 51.652  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 137705   | 49.717  | ug/L  | 97       |
| 46) Tetrachloroethene           | 8.00  | 164  | 129003   | 50.224  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.16  | 43   | 298949   | 106.125 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 159678   | 50.403  | ug/L  | 100      |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 147841   | 50.202  | ug/L  | 98       |
| 51) Chlorobenzene               | 8.90  | 112  | 397028   | 49.746  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 667368   | 50.654  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 257766   | 50.625  | ug/L  | 99       |
| 54) o-xylene                    | 9.56  | 106  | 246232   | 51.079  | ug/L  | 99       |
| 55) Styrene                     | 9.58  | 104  | 434512   | 51.766  | ug/L  | 98       |
| 56) Isopropylbenzene            | 9.95  | 105  | 663621   | 51.331  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 198978   | 50.966  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 169473   | 49.797  | ug/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 121541   | 50.388  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 337406   | 49.649  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 346204   | 49.471  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 330711   | 49.190  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 46889    | 51.089  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 241663   | 51.336  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 231141   | 52.766  | ug/L  | 99       |
| 69) Naphthalene                 | 13.52 | 128  | 683880   | 54.538  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 231389   | 52.619  | ug/L  | 99       |

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

