

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110520\  
 Data File : VV019239.D  
 Acq On : 04 Nov 2020 09:18  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05085

Quant Time: Nov 05 02:19:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 04 09:34:37 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 257366   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 251053   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 140481   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 105893   | 51.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 103.54% |
| 7) Chloroethane-d5             | 1.58    | 69    | 84135    | 52.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 105.90% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 204231   | 52.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 104.98% |
| 21) 2-Butanone-d5              | 3.90    | 46    | 116611   | 93.09    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 93.09%  |
| 24) Chloroform-d               | 4.37    | 84    | 192136   | 50.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.00% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 131665   | 49.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.34%  |
| 32) Benzene-d6                 | 5.07    | 84    | 360692   | 50.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.30% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 108141   | 50.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 101.86% |
| 41) Toluene-d8                 | 7.33    | 98    | 344433   | 50.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.70% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 61567    | 50.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 100.22% |
| 47) 2-Hexanone-d5              | 8.10    | 63    | 84126    | 91.48    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.48%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 138936   | 48.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.06%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 143353   | 48.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.14%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units | Ovalue |
|--------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 108795   | 48.143  | ug/L  | 99     |
| 3) Chloromethane               | 1.25 | 50   | 96837    | 47.187  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62   | 103335   | 49.184  | ug/L  | 99     |
| 6) Bromomethane                | 1.53 | 94   | 69099    | 49.098  | ug/L  | 98     |
| 8) Chloroethane                | 1.59 | 64   | 67616    | 51.758  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 175514   | 50.121  | ug/L  | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101  | 88449    | 52.485  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.13 | 96   | 81928    | 49.640  | ug/L  | 95     |
| 13) Acetone                    | 2.19 | 43   | 133979   | 115.124 | ug/L  | 100    |
| 14) Carbon disulfide           | 2.31 | 76   | 250973   | 47.841  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.44 | 43   | 82478    | 43.977  | ug/L  | 100    |
| 16) Methylene chloride         | 2.52 | 84   | 88800    | 47.383  | ug/L  | 97     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96   | 86339    | 48.706  | ug/L  | 96     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73   | 278328   | 46.890  | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.21 | 63   | 159644   | 48.339  | ug/L  | 98     |
| 20) cis-1,2-Dichloroethene     | 3.93 | 96   | 92857    | 47.730  | ug/L  | 96     |
| 22) 2-Butanone                 | 3.98 | 43   | 129274   | 101.982 | ug/L  | 95     |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 48653    | 46.604 | ug/L  | 98       |
| 25) Chloroform                  | 4.40  | 83   | 170863   | 47.876 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 145064   | 47.745 | ug/L  | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 140506   | 50.132 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 160818   | 47.271 | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 143183   | 47.462 | ug/L  | 99       |
| 33) Benzene                     | 5.12  | 78   | 351571   | 48.570 | ug/L  | 100      |
| 34) Trichloroethene             | 5.93  | 95   | 95565    | 48.193 | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.15  | 83   | 135054   | 50.450 | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.19  | 63   | 87178    | 48.497 | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 128510   | 48.057 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.04  | 75   | 143887   | 48.460 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 227195   | 91.618 | ug/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 388177   | 48.918 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 150181   | 48.622 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 83766    | 46.463 | ug/L  | 97       |
| 46) Tetrachloroethene           | 7.99  | 164  | 81500    | 48.132 | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.15  | 43   | 190108   | 96.450 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.26  | 129  | 102888   | 47.134 | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 88631    | 46.078 | ug/L  | 96       |
| 51) Chlorobenzene               | 8.90  | 112  | 245194   | 47.130 | ug/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 428381   | 48.993 | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 163857   | 49.615 | ug/L  | 99       |
| 54) o-xylene                    | 9.56  | 106  | 156284   | 49.289 | ug/L  | 100      |
| 55) Styrene                     | 9.58  | 104  | 277206   | 49.326 | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.95  | 105  | 424215   | 49.783 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 126258   | 45.992 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 106838   | 45.464 | ug/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 78903    | 45.532 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 213825   | 48.255 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 217275   | 47.182 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.66 | 146  | 208736   | 47.552 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 30703    | 40.878 | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 153603   | 47.090 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 141841   | 46.412 | ug/L  | 98       |
| 69) Naphthalene                 | 13.52 | 128  | 381324   | 44.547 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.76 | 180  | 139778   | 46.737 | ug/L  | 99       |

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

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