

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW040720\  
 Data File : VW015157.D  
 Acq On : 07 Apr 2020 10:46  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02521

Quant Time: Apr 08 06:04:41 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Apr 06 14:06:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 709564   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 645755   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 295451   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 288447   | 23.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.16%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 271277   | 26.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 107.40% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 585461   | 23.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 95.08%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 153700   | 55.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 110.20% |
| 24) Chloroform-d               | 7.65   | 84    | 524823   | 24.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 99.00%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 309644   | 25.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 100.88% |
| 29) Benzene-d6                 | 8.27   | 84    | 1025002  | 24.80    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.20%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 338890   | 24.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 98.72%  |
| 37) Toluene-d8                 | 10.32  | 98    | 900167   | 25.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 102.20% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 134674   | 25.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 102.52% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 112854   | 55.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 111.30% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 244287   | 26.01    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 104.04% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 252473   | 24.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 98.24%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 156387 | 28.329 | ug/L 91  |
| 3) Chloromethane               | 2.21 | 50  | 225085 | 22.050 | ug/L 98  |
| 5) Vinyl chloride              | 2.37 | 62  | 351516 | 24.715 | ug/L 98  |
| 6) Bromomethane                | 2.78 | 94  | 213967 | 27.254 | ug/L 99  |
| 8) Chloroethane                | 2.93 | 64  | 228120 | 26.346 | ug/L 97  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 198538 | 24.940 | ug/L 97  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 275302 | 24.858 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 261158 | 24.849 | ug/L 99  |
| 13) Acetone                    | 4.13 | 43  | 153602 | 61.702 | ug/L 100 |
| 14) Carbon disulfide           | 4.39 | 76  | 906953 | 23.199 | ug/L 99  |
| 15) Methyl Acetate             | 4.67 | 43  | 144702 | 24.607 | ug/L 100 |
| 16) Methylene chloride         | 4.92 | 84  | 290461 | 23.950 | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 343507 | 25.171 | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 266697 | 24.414 | ug/L 94  |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 575642 | 24.591 | ug/L 97  |
| 21) 2-Butanone                 | 7.17 | 43  | 203576 | 57.737 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 277854 | 25.613 | ug/L 96  |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 109942   | 24.685 | ug/L  | 99       |
| 25) Chloroform                  | 7.68  | 83   | 525476   | 24.849 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 383717   | 25.266 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.96  | 56   | 562031   | 26.675 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 422157   | 24.885 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 371822   | 25.263 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 1208015  | 25.287 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 287278   | 24.703 | ug/L  | 98       |
| 36) Methylcyclohexane           | 9.34  | 83   | 531884   | 26.622 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 325549   | 24.711 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.64  | 83   | 375067   | 25.022 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 454479   | 26.255 | ug/L  | 97       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 419872   | 56.330 | ug/L  | 100      |
| 44) Toluene                     | 10.38 | 91   | 1220309  | 25.833 | ug/L  | 97       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 400883   | 26.485 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 194878   | 25.164 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.86 | 164  | 189384   | 25.234 | ug/L  | 97       |
| 49) 2-Hexanone                  | 10.97 | 43   | 298990   | 60.146 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 207949   | 26.118 | ug/L  | 94       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 174188   | 25.397 | ug/L  | 97       |
| 52) Chlorobenzene               | 11.65 | 112  | 697212   | 25.251 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 1363085  | 26.715 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 483447   | 27.027 | ug/L  | 98       |
| 55) o-xylene                    | 12.16 | 106  | 450212   | 26.847 | ug/L  | 98       |
| 56) Styrene                     | 12.18 | 104  | 780284   | 27.339 | ug/L  | 95       |
| 57) Isopropylbenzene            | 12.46 | 105  | 1278846  | 27.679 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 250687   | 25.863 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 190206   | 26.235 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 107343   | 24.991 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 483245   | 24.957 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 477360   | 24.095 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 442871   | 25.132 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 40231    | 23.967 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 324122   | 26.001 | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 257527   | 27.409 | ug/L  | 99       |
| 69) Naphthalene                 | 15.36 | 128  | 532532   | 29.150 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 239212   | 27.397 | ug/L  | 99       |

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

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