

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW011221\  
 Data File : VW017827.D  
 Acq On : 12 Jan 2021 10:14  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02515

Quant Time: Jan 13 03:13:59 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jan 08 21:58:14 2021  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 335970   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 303851   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 154500   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 121879   | 23.45    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.80%   |
| 7) Chloroethane-d5             | 2.89   | 69    | 108173   | 25.21    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.84%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 229602   | 25.35    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 101.40%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 52666    | 62.51    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 125.02%  |
| 24) Chloroform-d               | 7.65   | 84    | 245047   | 27.91    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 111.64%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 134074   | 29.50    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 118.00%  |
| 29) Benzene-d6                 | 8.27   | 84    | 468125   | 27.35    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 109.40%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 137409   | 29.12    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 116.48%  |
| 37) Toluene-d8                 | 10.32  | 98    | 446180   | 27.14    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 108.56%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 60348    | 28.70    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 114.80%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 38606    | 65.16    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 130.32%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 106557   | 30.42    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 121.68%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 138575   | 25.76    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 103.04%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 70648    | 19.046 | ug/L   | 98     |
| 3) Chloromethane               | 2.22 | 50   | 72759    | 22.068 | ug/L   | 98     |
| 5) Vinyl chloride              | 2.37 | 62   | 129388   | 23.197 | ug/L   | 96     |
| 6) Bromomethane                | 2.78 | 94   | 94395    | 22.822 | ug/L   | 99     |
| 8) Chloroethane                | 2.93 | 64   | 86162    | 24.638 | ug/L   | 99     |
| 9) Trichlorofluoromethane      | 3.27 | 101  | 93646    | 20.463 | ug/L   | 100    |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101  | 105293   | 24.652 | ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 4.05 | 96   | 98581    | 23.809 | ug/L   | 95     |
| 13) Acetone                    | 4.13 | 43   | 30656    | 42.136 | ug/L   | 99     |
| 14) Carbon disulfide           | 4.39 | 76   | 282258   | 22.829 | ug/L   | 98     |
| 15) Methyl Acetate             | 4.67 | 43   | 41010    | 29.083 | ug/L   | 95     |
| 16) Methylene chloride         | 4.92 | 84   | 106013   | 22.066 | ug/L   | 97     |
| 17) Methyl tert-butyl Ether    | 5.43 | 73   | 137643   | 26.230 | ug/L # | 90     |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96   | 109465   | 24.510 | ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 203812   | 26.711 | ug/L   | 97     |
| 21) 2-Butanone                 | 7.17 | 43   | 52738    | 53.890 | ug/L   | 95     |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96   | 118314   | 25.211 | ug/L   | 97     |

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 Quant Title : VOC Analysis  
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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 7.51  | 128  | 50462    | 25.383 | ug/L # | 83       |
| 25) Chloroform                  | 7.67  | 83   | 215111   | 26.793 | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 145871   | 28.087 | ug/L   | 96       |
| 30) Cyclohexane                 | 7.96  | 56   | 187602   | 25.939 | ug/L   | 96       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 180769   | 25.863 | ug/L   | 97       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 172264   | 26.124 | ug/L   | 98       |
| 34) Benzene                     | 8.32  | 78   | 459978   | 26.476 | ug/L   | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 123962   | 25.778 | ug/L   | 96       |
| 36) Methylcyclohexane           | 9.34  | 83   | 214320   | 25.494 | ug/L   | 98       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 113422   | 27.655 | ug/L   | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 156349   | 27.849 | ug/L   | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 181724   | 27.766 | ug/L   | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 119911   | 60.179 | ug/L   | 97       |
| 44) Toluene                     | 10.38 | 91   | 515509   | 26.022 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 156413   | 28.065 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 82775    | 27.152 | ug/L   | 98       |
| 47) Tetrachloroethene           | 10.86 | 164  | 94651    | 25.175 | ug/L   | 92       |
| 49) 2-Hexanone                  | 10.97 | 43   | 79033    | 55.904 | ug/L   | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 102504   | 28.322 | ug/L   | 92       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 79905    | 27.686 | ug/L   | 94       |
| 52) Chlorobenzene               | 11.66 | 112  | 322203   | 26.053 | ug/L   | 95       |
| 53) Ethylbenzene                | 11.73 | 91   | 597588   | 26.586 | ug/L   | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 224134   | 25.490 | ug/L   | 95       |
| 55) o-xylene                    | 12.16 | 106  | 211942   | 25.630 | ug/L   | 92       |
| 56) Styrene                     | 12.18 | 104  | 360263   | 26.191 | ug/L   | 98       |
| 57) Isopropylbenzene            | 12.46 | 105  | 598351   | 26.136 | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 96506    | 28.362 | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 70338    | 28.121 | ug/L   | 98       |
| 62) Bromoform                   | 12.35 | 173  | 52041    | 27.529 | ug/L   | 99       |
| 63) 1,3-Dichlorobenzene         | 13.49 | 146  | 244065   | 25.594 | ug/L   | 96       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 239987   | 25.043 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 219283   | 26.170 | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 15546    | 28.169 | ug/L   | 98       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 169539   | 25.934 | ug/L   | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 138361   | 25.713 | ug/L   | 99       |
| 69) Naphthalene                 | 15.36 | 128  | 264138   | 25.776 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 115787   | 25.481 | ug/L   | 97       |
| -----                           |       |      |          |        |        |          |

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

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