

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042920\  
 Data File : VW015381.D  
 Acq On : 29 Apr 2020 15:36  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02530

Quant Time: Apr 30 08:28:34 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM042820S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 30 08:26:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 330327   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 298179   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 164955   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 54888    | 22.82    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 91.28%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 58366    | 20.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 83.40%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 133047   | 21.89    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 87.56%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 45112    | 61.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 122.06% |
| 24) Chloroform-d               | 7.65   | 84    | 159445   | 21.95    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 87.80%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 86044    | 23.01    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 92.04%  |
| 29) Benzene-d6                 | 8.27   | 84    | 301959   | 21.98    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 87.92%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 84200    | 21.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 87.64%  |
| 37) Toluene-d8                 | 10.32  | 98    | 303365   | 21.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 86.56%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 44748    | 22.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 91.00%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 41176    | 58.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 117.34% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 89329    | 27.46    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 109.84% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 131050   | 22.86    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 91.44%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 60899  | 19.572 | ug/L 100 |
| 3) Chloromethane               | 2.21 | 50  | 51660  | 20.277 | ug/L 96  |
| 5) Vinyl chloride              | 2.37 | 62  | 85140  | 27.676 | ug/L 99  |
| 6) Bromomethane                | 2.78 | 94  | 67770  | 23.438 | ug/L 100 |
| 8) Chloroethane                | 2.93 | 64  | 57235  | 23.976 | ug/L 98  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 82981  | 23.032 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 92949  | 24.435 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 4.03 | 96  | 87858  | 23.641 | ug/L 95  |
| 13) Acetone                    | 4.14 | 43  | 30992  | 49.780 | ug/L 100 |
| 14) Carbon disulfide           | 4.38 | 76  | 242789 | 23.934 | ug/L 99  |
| 15) Methyl Acetate             | 4.68 | 43  | 35042  | 28.223 | ug/L 99  |
| 16) Methylene chloride         | 4.91 | 84  | 86954  | 20.670 | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 139652 | 25.412 | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 95207  | 23.383 | ug/L 98  |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 146198 | 23.054 | ug/L 98  |
| 21) 2-Butanone                 | 7.18 | 43  | 47642  | 50.595 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 100310 | 22.815 | ug/L 98  |

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 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 30 08:26:20 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 50267    | 23.812 | ug/L   | 99       |
| 25) Chloroform                 | 7.68  | 83   | 165058   | 22.883 | ug/L   | 99       |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 110343   | 24.120 | ug/L   | 100      |
| 30) Cyclohexane                | 7.95  | 56   | 136168   | 23.853 | ug/L   | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 153928   | 23.995 | ug/L   | 100      |
| 32) Carbon tetrachloride       | 8.07  | 117  | 150487   | 24.261 | ug/L   | 100      |
| 34) Benzene                    | 8.32  | 78   | 355191   | 23.241 | ug/L   | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 103312   | 23.497 | ug/L   | 100      |
| 36) Methylcyclohexane          | 9.34  | 83   | 177561   | 23.956 | ug/L   | 99       |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 79707    | 22.982 | ug/L   | 100      |
| 41) Bromodichloromethane       | 9.65  | 83   | 124214   | 23.398 | ug/L   | 99       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 143121   | 23.569 | ug/L   | 98       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 113774   | 48.647 | ug/L   | 99       |
| 44) Toluene                    | 10.38 | 91   | 411751   | 23.215 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene  | 10.60 | 75   | 130038   | 24.093 | ug/L   | 97       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 73989    | 24.857 | ug/L   | 98       |
| 47) Tetrachloroethene          | 10.86 | 164  | 98770    | 23.547 | ug/L   | 99       |
| 49) 2-Hexanone                 | 10.97 | 43   | 76593    | 59.816 | ug/L   | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 98362    | 24.434 | ug/L   | 98       |
| 51) 1,2-Dibromoethane          | 11.23 | 107  | 77247    | 26.029 | ug/L   | 98       |
| 52) Chlorobenzene              | 11.65 | 112  | 275375   | 23.038 | ug/L   | 97       |
| 53) Ethylbenzene               | 11.73 | 91   | 476113   | 23.210 | ug/L   | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 189441   | 23.329 | ug/L   | 95       |
| 55) o-xylene                   | 12.16 | 106  | 181560   | 23.305 | ug/L   | 97       |
| 56) Styrene                    | 12.18 | 104  | 310325   | 23.726 | ug/L   | 98       |
| 57) Isopropylbenzene           | 12.46 | 105  | 514740   | 24.266 | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 92059    | 27.805 | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 68211    | 28.250 | ug/L   | 99       |
| 62) Bromoform                  | 12.35 | 173  | 70983    | 26.185 | ug/L # | 93       |
| 63) 1,3-Dichlorobenzene        | 13.50 | 146  | 241656   | 23.055 | ug/L   | 96       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 237836   | 22.935 | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146  | 223901   | 23.794 | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75   | 17259    | 28.033 | ug/L   | 90       |
| 67) 1,3,5-Trichlorobenzene     | 14.63 | 180  | 187741   | 23.169 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 159087   | 23.888 | ug/L   | 98       |
| 69) Naphthalene                | 15.36 | 128  | 296347   | 26.616 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.55 | 180  | 140164   | 24.373 | ug/L   | 98       |

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

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