

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW042219\  
 Data File : VW010077.D  
 Acq On : 22 Apr 2019 11:14  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02509

Quant Time: Apr 23 06:06:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041519S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 20 03:50:46 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 862226   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 785263   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 384103   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 193134   | 23.70    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.80% |
| 7) Chloroethane-d5             | 2.89   | 69    | 152621   | 18.49    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 73.96% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 562066   | 24.87    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 99.48% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 182368   | 41.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 82.74% |
| 24) Chloroform-d               | 7.65   | 84    | 519352   | 20.83    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 83.32% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 298190   | 19.28    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 77.12% |
| 29) Benzene-d6                 | 8.27   | 84    | 1000861  | 23.19    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 92.76% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 307156   | 22.35    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 89.40% |
| 37) Toluene-d8                 | 10.32  | 98    | 919988   | 23.37    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.48% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 147681   | 22.66    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 90.64% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 139934   | 45.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 91.88% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 258861   | 20.13    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 80.52% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 318975   | 22.09    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 88.36% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 317002 | 26.205 | ug/L 94  |
| 3) Chloromethane               | 2.21 | 50  | 223575 | 20.277 | ug/L 99  |
| 5) Vinyl chloride              | 2.37 | 62  | 285780 | 27.552 | ug/L 98  |
| 6) Bromomethane                | 2.78 | 94  | 163504 | 21.345 | ug/L 97  |
| 8) Chloroethane                | 2.92 | 64  | 163015 | 21.892 | ug/L 99  |
| 9) Trichlorofluoromethane      | 3.25 | 101 | 157999 | 18.503 | ug/L 100 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 287947 | 25.899 | ug/L 98  |
| 12) 1,1-Dichloroethene         | 4.03 | 96  | 281813 | 27.072 | ug/L 93  |
| 13) Acetone                    | 4.12 | 43  | 184471 | 47.065 | ug/L 100 |
| 14) Carbon disulfide           | 4.37 | 76  | 827825 | 28.054 | ug/L 99  |
| 15) Methyl Acetate             | 4.67 | 43  | 173863 | 21.978 | ug/L 99  |
| 16) Methylene chloride         | 4.91 | 84  | 291902 | 18.697 | ug/L 94  |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 387034 | 25.405 | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 301346 | 25.579 | ug/L 96  |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 572344 | 24.373 | ug/L 99  |
| 21) 2-Butanone                 | 7.17 | 43  | 240178 | 46.797 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 321835 | 25.173 | ug/L 97  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW042219\  
 Data File : VW010077.D  
 Acq On : 22 Apr 2019 11:14  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02509

Quant Time: Apr 23 06:06:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041519S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 20 03:50:46 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 141122   | 23.702 | ug/L  | 97       |
| 25) Chloroform                  | 7.67  | 83   | 563437   | 23.449 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 409382   | 22.130 | ug/L  | 98       |
| 30) Cyclohexane                 | 7.95  | 56   | 547119   | 30.828 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 458585   | 27.963 | ug/L  | 98       |
| 32) Carbon tetrachloride        | 8.06  | 117  | 446597   | 27.736 | ug/L  | 100      |
| 34) Benzene                     | 8.32  | 78   | 1233676  | 26.669 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 320302   | 26.630 | ug/L  | 98       |
| 36) Methylcyclohexane           | 9.34  | 83   | 565434   | 29.260 | ug/L  | 98       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 311277   | 25.443 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.64  | 83   | 413810   | 24.775 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 505370   | 26.794 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 485658   | 48.200 | ug/L  | 97       |
| 44) Toluene                     | 10.38 | 91   | 1323439  | 26.967 | ug/L  | 99       |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 421280   | 25.296 | ug/L  | 100      |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 229518   | 24.055 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.86 | 164  | 249412   | 26.546 | ug/L  | 96       |
| 49) 2-Hexanone                  | 10.97 | 43   | 361280   | 50.471 | ug/L  | 100      |
| 50) Dibromochloromethane        | 11.13 | 129  | 274133   | 24.205 | ug/L  | 98       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 225542   | 24.149 | ug/L  | 97       |
| 52) Chlorobenzene               | 11.66 | 112  | 812896   | 25.385 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 1498334  | 27.316 | ug/L  | 99       |
| 54) m,p-Xylene                  | 11.84 | 106  | 556904   | 27.757 | ug/L  | 97       |
| 55) o-xylene                    | 12.16 | 106  | 531802   | 27.636 | ug/L  | 97       |
| 56) Styrene                     | 12.18 | 104  | 904366   | 26.846 | ug/L  | 100      |
| 57) Isopropylbenzene            | 12.46 | 105  | 1471049  | 28.700 | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 291350   | 23.212 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 218852   | 23.299 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 159009   | 23.573 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 622213   | 26.811 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 637508   | 25.564 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 573209   | 25.173 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.49 | 75   | 51773    | 22.468 | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 469441   | 27.616 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.14 | 180  | 389019   | 27.936 | ug/L  | 100      |
| 69) Naphthalene                 | 15.38 | 128  | 831704   | 27.828 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 349618   | 26.313 | ug/L  | 100      |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW042219\  
Data File : VW010077.D  
Acq On : 22 Apr 2019 11:14  
Operator : SY/VA  
Sample : VSTDCCC025  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02509

Quant Time: Apr 23 06:06:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041519S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 20 03:50:46 2019  
Response via : Initial Calibration

