

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041420\  
 Data File : VW015194.D  
 Acq On : 14 Apr 2020 16:44  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02526

Quant Time: Apr 15 01:41:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Apr 15 01:38:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 1048763  | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 900859   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 404376   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 281340   | 29.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 118.00% |
| 7) Chloroethane-d5             | 2.89   | 69    | 220726   | 27.45    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 109.80% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 573025   | 23.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 94.96%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 128534   | 41.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 83.76%  |
| 24) Chloroform-d               | 7.65   | 84    | 563375   | 24.04    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 96.16%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 266814   | 23.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 92.68%  |
| 29) Benzene-d6                 | 8.27   | 84    | 1186094  | 24.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 97.48%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 352678   | 24.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 96.32%  |
| 37) Toluene-d8                 | 10.32  | 98    | 1119238  | 24.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 97.04%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 149182   | 22.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 91.40%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 109442   | 41.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 83.78%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 236354   | 22.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 88.48%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 334315   | 23.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 94.16%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85   | 219191   | 20.486 | ug/L   | 97     |
| 3) Chloromethane               | 2.21 | 50   | 312351   | 24.297 | ug/L   | 98     |
| 5) Vinyl chloride              | 2.37 | 62   | 379920   | 30.342 | ug/L   | 99     |
| 6) Bromomethane                | 2.78 | 94   | 204034   | 28.982 | ug/L   | 98     |
| 8) Chloroethane                | 2.93 | 64   | 193946   | 27.156 | ug/L   | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101  | 269858   | 27.020 | ug/L   | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101  | 333380   | 23.436 | ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96   | 330675   | 23.970 | ug/L   | 96     |
| 13) Acetone                    | 4.12 | 43   | 79596    | 35.764 | ug/L   | 96     |
| 14) Carbon disulfide           | 4.38 | 76   | 1039114  | 23.992 | ug/L   | 100    |
| 15) Methyl Acetate             | 4.67 | 43   | 111356   | 21.794 | ug/L # | 72     |
| 16) Methylene chloride         | 4.92 | 84   | 323219   | 22.159 | ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73   | 424169   | 23.265 | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96   | 338562   | 23.931 | ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 6.21 | 63   | 579008   | 24.112 | ug/L   | 98     |
| 21) 2-Butanone                 | 7.16 | 43   | 145981   | 40.733 | ug/L   | 98     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96   | 355533   | 24.059 | ug/L   | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041420\  
 Data File : VW015194.D  
 Acq On : 14 Apr 2020 16:44  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02526

Quant Time: Apr 15 01:41:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Apr 15 01:38:08 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 146691   | 23.854 | ug/L  | 95       |
| 25) Chloroform                  | 7.67  | 83   | 561869   | 24.043 | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 327528   | 23.452 | ug/L  | 99       |
| 30) Cyclohexane                 | 7.95  | 56   | 585881   | 24.009 | ug/L  | 100      |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 496402   | 24.844 | ug/L  | 100      |
| 32) Carbon tetrachloride        | 8.07  | 117  | 448512   | 24.512 | ug/L  | 98       |
| 34) Benzene                     | 8.32  | 78   | 1348473  | 24.398 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 348366   | 24.351 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 640767   | 24.273 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 325647   | 24.298 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 407144   | 24.335 | ug/L  | 100      |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 506231   | 24.014 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 331470   | 42.734 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 1445764  | 24.644 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 419687   | 23.534 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 217623   | 22.947 | ug/L  | 98       |
| 47) Tetrachloroethene           | 10.86 | 164  | 266558   | 24.534 | ug/L  | 99       |
| 49) 2-Hexanone                  | 10.96 | 43   | 218658   | 42.705 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 261483   | 23.436 | ug/L  | 99       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 207469   | 23.279 | ug/L  | 96       |
| 52) Chlorobenzene               | 11.66 | 112  | 883474   | 24.404 | ug/L  | 98       |
| 53) Ethylbenzene                | 11.73 | 91   | 1588730  | 24.154 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 628266   | 24.811 | ug/L  | 94       |
| 55) o-xylene                    | 12.16 | 106  | 586330   | 24.182 | ug/L  | 97       |
| 56) Styrene                     | 12.18 | 104  | 981015   | 24.215 | ug/L  | 95       |
| 57) Isopropylbenzene            | 12.46 | 105  | 1584651  | 24.328 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 238856   | 21.956 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 172535   | 21.561 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 138305   | 22.114 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 639054   | 24.067 | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 623736   | 24.025 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 556888   | 23.645 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 37181    | 20.833 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 439309   | 24.237 | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 347432   | 23.308 | ug/L  | 99       |
| 69) Naphthalene                 | 15.36 | 128  | 637965   | 21.414 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 283973   | 22.274 | ug/L  | 99       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW041420\  
Data File : VW015194.D  
Acq On : 14 Apr 2020 16:44  
Operator : SY/VA  
Sample : VSTDCCC025EC  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02526

Quant Time: Apr 15 01:41:00 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041420S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Apr 15 01:38:08 2020  
Response via : Initial Calibration

