

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011520\  
 Data File : VW014645.D  
 Acq On : 15 Jan 2020 10:16  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02514

Quant Time: Jan 15 15:42:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jan 15 01:48:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 1138413  | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 991805   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 482196   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 380981   | 23.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.96%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 319929   | 27.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 108.24% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 754894   | 25.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 102.88% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 200693   | 52.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.10% |
| 24) Chloroform-d               | 7.64   | 84    | 714576   | 27.28    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 109.12% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 355240   | 26.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 104.56% |
| 29) Benzene-d6                 | 8.27   | 84    | 1528965  | 28.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 115.96% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 457908   | 28.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 115.52% |
| 37) Toluene-d8                 | 10.32  | 98    | 1395210  | 29.18    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 116.72% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 182782   | 27.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 111.64% |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 153595   | 56.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 113.28% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 329206   | 27.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 110.60% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 448717   | 28.24    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 112.96% |

## Target Compounds

|                                |      |     |         |             | Ovalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 231905  | 22.772 ug/L | 99     |
| 3) Chloromethane               | 2.21 | 50  | 251295  | 21.826 ug/L | 99     |
| 5) Vinyl chloride              | 2.36 | 62  | 400576  | 24.452 ug/L | 99     |
| 6) Bromomethane                | 2.78 | 94  | 232868  | 24.343 ug/L | 100    |
| 8) Chloroethane                | 2.92 | 64  | 231959  | 25.321 ug/L | 99     |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 223919  | 25.842 ug/L | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 361245  | 24.285 ug/L | 99     |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 368731  | 25.314 ug/L | 96     |
| 13) Acetone                    | 4.12 | 43  | 225142  | 42.582 ug/L | 100    |
| 14) Carbon disulfide           | 4.38 | 76  | 1076257 | 23.932 ug/L | 98     |
| 15) Methyl Acetate             | 4.67 | 43  | 162345  | 22.755 ug/L | 99     |
| 16) Methylene chloride         | 4.92 | 84  | 376816  | 20.299 ug/L | 96     |
| 17) Methyl tert-butyl Ether    | 5.42 | 73  | 463008  | 24.695 ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 373511  | 24.342 ug/L | 99     |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 668995  | 24.119 ug/L | 100    |
| 21) 2-Butanone                 | 7.16 | 43  | 248538  | 43.813 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 393912  | 24.389 ug/L | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011520\  
 Data File : VW014645.D  
 Acq On : 15 Jan 2020 10:16  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02514

Quant Time: Jan 15 15:42:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jan 15 01:48:42 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 166649   | 23.834 | ug/L  | 97       |
| 25) Chloroform                  | 7.67  | 83   | 634642   | 23.921 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 390371   | 22.666 | ug/L  | 100      |
| 30) Cyclohexane                 | 7.95  | 56   | 673211   | 26.535 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 510350   | 25.085 | ug/L  | 99       |
| 32) Carbon tetrachloride        | 8.07  | 117  | 478263   | 25.231 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 1514924  | 25.382 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 388359   | 25.212 | ug/L  | 100      |
| 36) Methylcyclohexane           | 9.33  | 83   | 709993   | 26.272 | ug/L  | 99       |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 368365   | 24.384 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.64  | 83   | 439609   | 24.193 | ug/L  | 100      |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 564619   | 25.020 | ug/L  | 94       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 448022   | 46.198 | ug/L  | 99       |
| 44) Toluene                     | 10.38 | 91   | 1598495  | 25.628 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene   | 10.60 | 75   | 436952   | 24.216 | ug/L  | 97       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 256142   | 23.938 | ug/L  | 99       |
| 47) Tetrachloroethene           | 10.86 | 164  | 323520   | 25.012 | ug/L  | 96       |
| 49) 2-Hexanone                  | 10.96 | 43   | 336868   | 50.869 | ug/L  | 99       |
| 50) Dibromochloromethane        | 11.13 | 129  | 294067   | 24.203 | ug/L  | 97       |
| 51) 1,2-Dibromoethane           | 11.23 | 107  | 241807   | 23.940 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.65 | 112  | 974384   | 24.713 | ug/L  | 99       |
| 53) Ethylbenzene                | 11.73 | 91   | 1752290  | 25.552 | ug/L  | 100      |
| 54) m,p-Xylene                  | 11.83 | 106  | 666675   | 25.689 | ug/L  | 98       |
| 55) o-xylene                    | 12.16 | 106  | 627014   | 25.579 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 1071101  | 25.961 | ug/L  | 98       |
| 57) Isopropylbenzene            | 12.46 | 105  | 1716037  | 26.318 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 304422   | 23.432 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 222103   | 22.821 | ug/L  | 100      |
| 62) Bromoform                   | 12.35 | 173  | 169094   | 23.467 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 758221   | 24.837 | ug/L  | 98       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 750439   | 24.379 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.86 | 146  | 678419   | 24.790 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 46180    | 22.787 | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 587153   | 25.963 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 456191   | 26.910 | ug/L  | 100      |
| 69) Naphthalene                 | 15.36 | 128  | 803041   | 27.439 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.55 | 180  | 404527   | 26.333 | ug/L  | 99       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW011520\  
Data File : VW014645.D  
Acq On : 15 Jan 2020 10:16  
Operator : SY/VA  
Sample : VSTDCCC025  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02514

Quant Time: Jan 15 15:42:32 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jan 15 01:48:42 2020  
Response via : Initial Calibration

