

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101420\  
 Data File : VW016896.D  
 Acq On : 13 Oct 2020 14:49  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02508

Quant Time: Oct 14 08:42:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 14 08:34:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 535329   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 479375   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 253023   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 132195   | 25.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.12% |
| 7) Chloroethane-d5             | 2.89   | 69    | 112833   | 25.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 101.88% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 284967   | 25.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 101.64% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 70238    | 58.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 117.44% |
| 24) Chloroform-d               | 7.65   | 84    | 307605   | 27.23    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 108.92% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 147714   | 27.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 108.28% |
| 29) Benzene-d6                 | 8.27   | 84    | 581470   | 26.71    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 106.84% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 161655   | 27.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 110.52% |
| 37) Toluene-d8                 | 10.32  | 98    | 554063   | 26.97    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 107.88% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 73899    | 28.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 114.56% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 59707    | 65.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 131.98% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 139837   | 29.59    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 118.36% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 215458   | 26.85    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 107.40% |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 164793 | 25.755 | ug/L 97   |
| 3) Chloromethane               | 2.21 | 50  | 130350 | 23.111 | ug/L 95   |
| 5) Vinyl chloride              | 2.37 | 62  | 209314 | 28.586 | ug/L 99   |
| 6) Bromomethane                | 2.78 | 94  | 141892 | 26.359 | ug/L 100  |
| 8) Chloroethane                | 2.93 | 64  | 124142 | 27.469 | ug/L 100  |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 132128 | 23.354 | ug/L 100  |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.07 | 101 | 203176 | 28.190 | ug/L 99   |
| 12) 1,1-Dichloroethene         | 4.04 | 96  | 190384 | 27.507 | ug/L 99   |
| 13) Acetone                    | 4.13 | 43  | 50223  | 55.482 | ug/L 98   |
| 14) Carbon disulfide           | 4.39 | 76  | 535680 | 26.991 | ug/L 100  |
| 15) Methyl Acetate             | 4.68 | 43  | 63065  | 29.159 | ug/L 100  |
| 16) Methylene chloride         | 4.92 | 84  | 195509 | 26.463 | ug/L 99   |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 212622 | 27.452 | ug/L # 88 |
| 18) trans-1,2-Dichloroethene   | 5.43 | 96  | 196357 | 27.156 | ug/L 95   |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 308783 | 27.731 | ug/L 100  |
| 21) 2-Butanone                 | 7.17 | 43  | 81204  | 53.438 | ug/L 98   |
| 22) cis-1,2-Dichloroethene     | 7.16 | 96  | 206241 | 27.954 | ug/L 98   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101420\  
 Data File : VW016896.D  
 Acq On : 13 Oct 2020 14:49  
 Operator : SY/VA  
 Sample : VSTDCCC025EC  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD02508

Quant Time: Oct 14 08:42:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 14 08:34:08 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.51  | 128  | 95908    | 27.682 | ug/L  | 96       |
| 25) Chloroform                  | 7.68  | 83   | 333730   | 27.754 | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 8.40  | 62   | 202419   | 28.140 | ug/L  | 100      |
| 30) Cyclohexane                 | 7.96  | 56   | 278521   | 28.017 | ug/L  | 98       |
| 31) 1,1,1-Trichloroethane       | 7.87  | 97   | 285328   | 27.989 | ug/L  | 100      |
| 32) Carbon tetrachloride        | 8.07  | 117  | 280685   | 28.215 | ug/L  | 99       |
| 34) Benzene                     | 8.32  | 78   | 728227   | 28.288 | ug/L  | 100      |
| 35) Trichloroethene             | 9.09  | 95   | 203950   | 28.008 | ug/L  | 99       |
| 36) Methylcyclohexane           | 9.34  | 83   | 346540   | 28.304 | ug/L  | 100      |
| 40) 1,2-Dichloropropane         | 9.37  | 63   | 164874   | 28.323 | ug/L  | 100      |
| 41) Bromodichloromethane        | 9.65  | 83   | 236388   | 28.906 | ug/L  | 98       |
| 42) cis-1,3-Dichloropropene     | 10.07 | 75   | 270596   | 29.156 | ug/L  | 99       |
| 43) 4-Methyl-2-pentanone        | 10.21 | 43   | 180555   | 61.610 | ug/L  | 100      |
| 44) Toluene                     | 10.39 | 91   | 806454   | 28.239 | ug/L  | 96       |
| 45) trans-1,3-Dichloropropene   | 10.61 | 75   | 236490   | 30.281 | ug/L  | 98       |
| 46) 1,1,2-Trichloroethane       | 10.79 | 97   | 139975   | 29.580 | ug/L  | 97       |
| 47) Tetrachloroethene           | 10.87 | 164  | 187368   | 27.754 | ug/L  | 95       |
| 49) 2-Hexanone                  | 10.97 | 43   | 121893   | 63.015 | ug/L  | 98       |
| 50) Dibromochloromethane        | 11.13 | 129  | 173696   | 29.526 | ug/L  | 99       |
| 51) 1,2-Dibromoethane           | 11.24 | 107  | 134179   | 28.854 | ug/L  | 98       |
| 52) Chlorobenzene               | 11.66 | 112  | 540619   | 28.208 | ug/L  | 97       |
| 53) Ethylbenzene                | 11.73 | 91   | 910995   | 28.436 | ug/L  | 98       |
| 54) m,p-Xylene                  | 11.84 | 106  | 358715   | 28.790 | ug/L  | 99       |
| 55) o-xylene                    | 12.17 | 106  | 341303   | 28.670 | ug/L  | 99       |
| 56) Styrene                     | 12.18 | 104  | 582571   | 29.656 | ug/L  | 98       |
| 57) Isopropylbenzene            | 12.46 | 105  | 937169   | 28.749 | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.71 | 83   | 154385   | 29.521 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 12.77 | 75   | 113125   | 29.860 | ug/L  | 99       |
| 62) Bromoform                   | 12.35 | 173  | 100532   | 28.245 | ug/L  | 99       |
| 63) 1,3-Dichlorobenzene         | 13.50 | 146  | 440382   | 27.348 | ug/L  | 96       |
| 64) 1,4-Dichlorobenzene         | 13.58 | 146  | 437664   | 27.177 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 13.87 | 146  | 392227   | 27.204 | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.48 | 75   | 23925    | 27.356 | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 14.63 | 180  | 331489   | 27.694 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 15.13 | 180  | 272017   | 27.668 | ug/L  | 98       |
| 69) Naphthalene                 | 15.37 | 128  | 488685   | 30.017 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.56 | 180  | 243264   | 28.795 | ug/L  | 100      |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW101420\  
Data File : VW016896.D  
Acq On : 13 Oct 2020 14:49  
Operator : SY/VA  
Sample : VSTDCCC025EC  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD02508

Quant Time: Oct 14 08:42:46 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Oct 14 08:34:08 2020  
Response via : Initial Calibration

