

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV022519\  
 Data File : VV009345.D  
 Acq On : 25 Feb 2019 11:17  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02579

Quant Time: Feb 26 02:46:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM022019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Feb 23 00:37:16 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 119203   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 108240   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 52616    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 35246    | 22.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 88.88%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 40300    | 21.48    | ug/L | -0.02   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 85.92%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 99251    | 25.45    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 101.80% |
| 20) 2-Butanone-d5              | 3.94   | 46    | 25105    | 45.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.46%  |
| 24) Chloroform-d               | 4.40   | 84    | 64613    | 23.34    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 93.36%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 34738    | 23.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 92.56%  |
| 29) Benzene-d6                 | 5.10   | 84    | 133176   | 24.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 98.12%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 40970    | 25.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 102.56% |
| 37) Toluene-d8                 | 7.36   | 98    | 125637   | 24.32    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 97.28%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 18524    | 22.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 90.32%  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 21353    | 48.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 96.10%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 42648    | 24.42    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 97.68%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 46064    | 23.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 95.36%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 28156    | 20.237 | ug/L  | 94     |
| 3) Chloromethane               | 1.25 | 50   | 45695    | 26.882 | ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62   | 49328    | 25.590 | ug/L  | 99     |
| 6) Bromomethane                | 1.52 | 94   | 48430    | 26.998 | ug/L  | 100    |
| 8) Chloroethane                | 1.59 | 64   | 34726    | 21.343 | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 1.76 | 101  | 94099    | 25.930 | ug/L  | 99     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101  | 55358    | 26.674 | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 46790    | 26.753 | ug/L  | 95     |
| 13) Acetone                    | 2.20 | 43   | 27204    | 50.141 | ug/L  | 96     |
| 14) Carbon disulfide           | 2.31 | 76   | 116635   | 24.922 | ug/L  | 99     |
| 15) Methyl Acetate             | 2.46 | 43   | 19932    | 25.195 | ug/L  | 97     |
| 16) Methylene chloride         | 2.53 | 84   | 37678    | 20.895 | ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73   | 87521    | 22.592 | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96   | 37059    | 23.521 | ug/L  | 95     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 63436    | 24.240 | ug/L  | 100    |
| 21) 2-Butanone                 | 4.02 | 43   | 32800    | 52.771 | ug/L  | 96     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96   | 41961    | 24.380 | ug/L  | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV022519\  
 Data File : VV009345.D  
 Acq On : 25 Feb 2019 11:17  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD02579

Quant Time: Feb 26 02:46:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM022019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Feb 23 00:37:16 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 18467    | 23.445 | ug/L   | 95       |
| 25) Chloroform                  | 4.42  | 83   | 66540    | 23.895 | ug/L   | 97       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 45051    | 23.891 | ug/L   | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 63808    | 25.431 | ug/L   | 96       |
| 31) 1,1,1-Trichloroethane       | 4.66  | 97   | 59459    | 24.324 | ug/L   | 98       |
| 32) Carbon tetrachloride        | 4.87  | 117  | 49834    | 24.125 | ug/L   | 99       |
| 34) Benzene                     | 5.14  | 78   | 150762   | 25.473 | ug/L   | 100      |
| 35) Trichloroethene             | 5.96  | 95   | 39674    | 24.100 | ug/L   | 98       |
| 36) Methylcyclohexane           | 6.17  | 83   | 68970    | 23.952 | ug/L   | 98       |
| 40) 1,2-Dichloropropane         | 6.22  | 63   | 35494    | 24.709 | ug/L   | 99       |
| 41) Bromodichloromethane        | 6.55  | 83   | 49370    | 24.133 | ug/L   | 96       |
| 42) cis-1,3-Dichloropropene     | 7.07  | 75   | 61066    | 25.050 | ug/L   | 99       |
| 43) 4-Methyl-2-pentanone        | 7.27  | 43   | 56142    | 46.559 | ug/L   | 98       |
| 44) Toluene                     | 7.43  | 91   | 167228   | 25.476 | ug/L   | 99       |
| 45) trans-1,3-Dichloropropene   | 7.69  | 75   | 52147    | 24.428 | ug/L   | 99       |
| 46) 1,1,2-Trichloroethane       | 7.88  | 97   | 30547    | 23.881 | ug/L   | 97       |
| 47) Tetrachloroethene           | 8.02  | 164  | 32310    | 25.113 | ug/L   | 93       |
| 49) 2-Hexanone                  | 8.19  | 43   | 44247    | 47.713 | ug/L   | 96       |
| 50) Dibromochloromethane        | 8.29  | 129  | 36150    | 23.438 | ug/L   | 100      |
| 51) 1,2-Dibromoethane           | 8.40  | 107  | 30144    | 23.496 | ug/L   | 96       |
| 52) Chlorobenzene               | 8.93  | 112  | 105829   | 24.760 | ug/L   | 98       |
| 53) Ethylbenzene                | 9.05  | 91   | 181335   | 24.453 | ug/L   | 100      |
| 54) m,p-Xylene                  | 9.18  | 106  | 70706    | 24.436 | ug/L   | 97       |
| 55) o-xylene                    | 9.59  | 106  | 67302    | 24.780 | ug/L   | 99       |
| 56) Styrene                     | 9.60  | 104  | 114510   | 24.569 | ug/L   | 98       |
| 57) Isopropylbenzene            | 9.97  | 105  | 182732   | 24.304 | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 43396    | 24.041 | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 30158    | 23.315 | ug/L   | 99       |
| 62) Bromoform                   | 9.78  | 173  | 21996    | 22.612 | ug/L # | 97       |
| 63) 1,3-Dichlorobenzene         | 11.23 | 146  | 81171    | 24.016 | ug/L   | 97       |
| 64) 1,4-Dichlorobenzene         | 11.32 | 146  | 80724    | 23.960 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 76670    | 24.192 | ug/L   | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 7323     | 20.806 | ug/L   | 88       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 59236    | 24.220 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 46505    | 23.304 | ug/L   | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 96537    | 22.570 | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 42572    | 23.116 | ug/L   | 98       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV022519\  
Data File : VV009345.D  
Acq On : 25 Feb 2019 11:17  
Operator : SY/MD  
Sample : VSTDCCC025  
Misc : 5.00G/10ML/MSVOA V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD02579

Quant Time: Feb 26 02:46:39 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM022019S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Feb 23 00:37:16 2019  
Response via : Initial Calibration

