

Data File : VV011821.D  
Acq On : 03 Jul 2019 09:44  
Operator : SY/MD  
Sample : VSTDCCC005  
Misc : 25ML/MSVOA\_V/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00556

Quant Time: Jul 03 23:51:47 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR070219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Jul 03 08:28:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 187347   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 180633   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 85429    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 58345    | 4.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 92.60% |
| 7) Chloroethane-d5             | 1.58   | 69    | 39955    | 4.12     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 82.40% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 118141   | 4.79     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 95.80% |
| 20) 2-Butanone-d5              | 3.94   | 46    | 154614   | 49.66    | ug/L | -0.02  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.32% |
| 24) Chloroform-d               | 4.40   | 84    | 120584   | 4.82     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.40% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 61967    | 4.77     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.40% |
| 32) Benzene-d6                 | 5.10   | 84    | 228549   | 4.82     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.40% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 71110    | 4.76     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.20% |
| 41) Toluene-d8                 | 7.36   | 98    | 210006   | 4.86     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.20% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 25401    | 4.91     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 98.20% |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 118577   | 49.76    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.52% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 49221    | 4.67     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 72353    | 4.80     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.00% |

#### Target Compounds

|                                |      |     |        |        | Qvalue  |
|--------------------------------|------|-----|--------|--------|---------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 92052  | 5.148  | ug/L 99 |
| 3) Chloromethane               | 1.25 | 50  | 90553  | 5.092  | ug/L 98 |
| 5) Vinyl chloride              | 1.32 | 62  | 85055  | 5.084  | ug/L 96 |
| 6) Bromomethane                | 1.53 | 94  | 42664  | 4.864  | ug/L 99 |
| 8) Chloroethane                | 1.60 | 64  | 43458  | 4.551  | ug/L 99 |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 118780 | 5.395  | ug/L 99 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 65518  | 5.338  | ug/L 99 |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 59345  | 5.235  | ug/L 91 |
| 13) Acetone                    | 2.20 | 43  | 110469 | 51.803 | ug/L 99 |
| 14) Carbon disulfide           | 2.32 | 76  | 159816 | 5.244  | ug/L 99 |
| 15) Methyl Acetate             | 2.46 | 43  | 26808  | 4.523  | ug/L 98 |
| 16) Methylene chloride         | 2.53 | 84  | 62493  | 4.611  | ug/L 98 |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 154308 | 5.226  | ug/L 98 |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 68128  | 5.308  | ug/L 98 |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 131896 | 5.187  | ug/L 99 |
| 21) 2-Butanone                 | 4.03 | 43  | 183657 | 52.728 | ug/L 97 |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 73151  | 5.340  | ug/L 99 |

Data File : VV011821.D  
Acq On : 03 Jul 2019 09:44  
Operator : SY/MD  
Sample : VSTDCCC005  
Misc : 25ML/MSVOA\_V/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00556

Quant Time: Jul 03 23:51:47 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR070219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Jul 03 08:28:44 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 29147    | 5.121  | ug/L  | 98       |
| 25) Chloroform                 | 4.42  | 83   | 136849   | 5.021  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 87661    | 5.207  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane      | 4.66  | 97   | 112980   | 5.329  | ug/L  | 99       |
| 30) Cyclohexane                | 4.72  | 56   | 118758   | 5.248  | ug/L  | 98       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 99741    | 5.485  | ug/L  | 99       |
| 33) Benzene                    | 5.14  | 78   | 289508   | 5.384  | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 75434    | 5.391  | ug/L  | 97       |
| 35) Methylcyclohexane          | 6.17  | 83   | 123405   | 5.390  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 72681    | 5.278  | ug/L  | 98       |
| 38) Bromodichloromethane       | 6.55  | 83   | 85661    | 5.335  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 100269   | 5.459  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 447826   | 52.522 | ug/L  | 98       |
| 42) Toluene                    | 7.43  | 91   | 309659   | 5.451  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 77472    | 5.466  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 46493    | 5.262  | ug/L  | 98       |
| 47) Tetrachloroethene          | 8.02  | 164  | 59249    | 5.381  | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.18  | 43   | 321520   | 53.418 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.29  | 129  | 51327    | 5.472  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 43409    | 5.290  | ug/L  | 97       |
| 51) Chlorobenzene              | 8.92  | 112  | 191282   | 5.332  | ug/L  | 97       |
| 52) Ethylbenzene               | 9.05  | 91   | 339266   | 5.372  | ug/L  | 99       |
| 53) m,p-xylene                 | 9.18  | 106  | 126892   | 5.494  | ug/L  | 94       |
| 54) o-xylene                   | 9.59  | 106  | 122981   | 5.526  | ug/L  | 97       |
| 55) Styrene                    | 9.60  | 104  | 204868   | 5.518  | ug/L  | 96       |
| 56) Isopropylbenzene           | 9.97  | 105  | 329038   | 5.464  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 55093    | 5.092  | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 40703    | 5.108  | ug/L  | 98       |
| 61) Bromoform                  | 9.77  | 173  | 24692    | 5.418  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 141017   | 5.337  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 144216   | 5.343  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 132114   | 5.293  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 7814     | 4.935  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 108816   | 5.321  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 86319    | 5.228  | ug/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 131895   | 5.016  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 79441    | 5.191  | ug/L  | 99       |

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

Data File : VV011821.D

Acq On : 03 Jul 2019 09:44

Operator : SY/MD

Sample : VSTDCCC005

Misc : 25ML/MSV0A\_V/WATER

```
ALS Vial      : 2      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VSTD00556

Quant Time: Jul 03 23:51:47 2019

Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_V\METHOD\S0MVTR070219WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Jul 03 08:28:44 2019

Response via : Initial Calibration

