

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021619\  
 Data File : VU029516.D  
 Acq On : 15 Feb 2019 23:16  
 Operator : JC/SP  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00559

Quant Time: Feb 16 00:19:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Feb 16 00:13:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 194055   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 196491   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 110365   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 59084    | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.60%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 63595    | 5.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 110.40% |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 140194   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 99.00%  |
| 20) 2-Butanone-d5              | 4.20   | 46    | 136947   | 50.52    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.04% |
| 24) Chloroform-d               | 4.65   | 84    | 99418    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 53901    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.60%  |
| 32) Benzene-d6                 | 5.34   | 84    | 225045   | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 65032    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.20%  |
| 41) Toluene-d8                 | 7.56   | 98    | 230562   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.00%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 29074    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.20%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 149622   | 52.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 104.22% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 61476    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 103021   | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 101.20% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 81922  | 4.820  | ug/L 98  |
| 3) Chloromethane               | 1.32 | 50  | 76298  | 4.758  | ug/L 98  |
| 5) Vinyl chloride              | 1.40 | 62  | 90899  | 4.864  | ug/L 89  |
| 6) Bromomethane                | 1.63 | 94  | 41529  | 3.809  | ug/L 99  |
| 8) Chloroethane                | 1.70 | 64  | 76297  | 6.270  | ug/L 96  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 150221 | 5.251  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 89011  | 5.279  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 82773  | 5.183  | ug/L 98  |
| 13) Acetone                    | 2.33 | 43  | 128635 | 52.233 | ug/L 99  |
| 14) Carbon disulfide           | 2.48 | 76  | 257837 | 4.900  | ug/L 99  |
| 15) Methyl Acetate             | 2.62 | 43  | 35079  | 5.560  | ug/L 96  |
| 16) Methylene chloride         | 2.70 | 84  | 108993 | 6.073  | ug/L 95  |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 211650 | 5.293  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.98 | 96  | 88673  | 5.207  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 156485 | 6.100  | ug/L 96  |
| 21) 2-Butanone                 | 4.29 | 43  | 164207 | 53.960 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 77547  | 4.951  | ug/L 95  |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.55  | 128  | 36098    | 5.105  | ug/L  | 94       |
| 25) Chloroform                  | 4.67  | 83   | 136861   | 5.332  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.40  | 62   | 82722    | 5.569  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 4.91  | 97   | 114908   | 4.728  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.99  | 56   | 107274   | 4.606  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.13  | 117  | 100849   | 4.593  | ug/L  | 99       |
| 33) Benzene                     | 5.39  | 78   | 280854   | 4.856  | ug/L  | 100      |
| 34) Trichloroethene             | 6.18  | 95   | 79221    | 4.872  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.41  | 83   | 129616   | 4.738  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.43  | 63   | 71676    | 4.948  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.76  | 83   | 90595    | 4.733  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 106453   | 4.669  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 428919   | 51.365 | ug/L  | 100      |
| 42) Toluene                     | 7.63  | 91   | 327245   | 5.041  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.88  | 75   | 85868    | 4.586  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.06  | 97   | 57854    | 5.214  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.22  | 164  | 73457    | 4.931  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.36  | 43   | 312933   | 51.418 | ug/L  | 100      |
| 49) Dibromochloromethane        | 8.48  | 129  | 70871    | 4.739  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.58  | 107  | 55484    | 5.052  | ug/L  | 91       |
| 51) Chlorobenzene               | 9.12  | 112  | 221879   | 4.970  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.25  | 91   | 369534   | 5.027  | ug/L  | 100      |
| 53) m,p-xylene                  | 9.37  | 106  | 147593   | 5.035  | ug/L  | 97       |
| 54) o-xylene                    | 9.77  | 106  | 145414   | 5.054  | ug/L  | 96       |
| 55) Styrene                     | 9.79  | 104  | 242136   | 5.069  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.16 | 105  | 386563   | 5.094  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.45 | 83   | 71828    | 5.304  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 48959    | 5.269  | ug/L  | 97       |
| 61) Bromoform                   | 9.95  | 173  | 41517    | 4.444  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.41 | 146  | 191982   | 4.910  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.50 | 146  | 193104   | 4.946  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.88 | 146  | 188800   | 5.125  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.65 | 75   | 11654    | 5.057  | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 156696   | 4.830  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 135920   | 4.974  | ug/L  | 98       |
| 69) Naphthalene                 | 13.74 | 128  | 235836   | 4.998  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 127681   | 4.887  | ug/L  | 97       |

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

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