

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102919\  
 Data File : VV013395.D  
 Acq On : 29 Oct 2019 14:43  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25.0ML/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV31

Quant Time: Oct 30 01:45:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Oct 30 02:28:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 407848   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 420129   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 254486   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 190849   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 98.00%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 146737   | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 309438   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 98.20%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 474796   | 53.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.62% |
| 24) Chloroform-d               | 4.39   | 84    | 383004   | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.20% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 186401   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.20%  |
| 32) Benzene-d6                 | 5.09   | 84    | 770210   | 5.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.00% |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 235717   | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.40% |
| 41) Toluene-d8                 | 7.35   | 98    | 720960   | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 107.20% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 87447    | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 104.20% |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 312701   | 57.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 115.40% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 150314   | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 251708   | 4.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.60%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 252368 | 4.611  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 209190 | 4.539  | ug/L 96  |
| 5) Vinyl chloride              | 1.32 | 62  | 225250 | 5.037  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 118481 | 4.924  | ug/L 97  |
| 8) Chloroethane                | 1.60 | 64  | 117748 | 4.608  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 258653 | 4.429  | ug/L 97  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 155708 | 4.773  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 152056 | 4.873  | ug/L 97  |
| 13) Acetone                    | 2.23 | 43  | 226690 | 52.579 | ug/L 95  |
| 14) Carbon disulfide           | 2.31 | 76  | 461001 | 4.888  | ug/L 100 |
| 15) Methyl Acetate             | 2.47 | 43  | 77365  | 4.794  | ug/L 95  |
| 16) Methylene chloride         | 2.53 | 84  | 214421 | 4.745  | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 432986 | 5.214  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 205584 | 4.948  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 386607 | 5.072  | ug/L 99  |
| 21) 2-Butanone                 | 4.04 | 43  | 522340 | 55.611 | ug/L 99  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 215004 | 5.132  | ug/L 98  |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.29  | 128  | 93024    | 4.939  | ug/L  | 97       |
| 25) Chloroform                  | 4.42  | 83   | 391129   | 4.844  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.17  | 62   | 232365   | 5.214  | ug/L  | 95       |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 332554   | 5.345  | ug/L  | 100      |
| 30) Cyclohexane                 | 4.72  | 56   | 358189   | 5.481  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 296311   | 5.246  | ug/L  | 100      |
| 33) Benzene                     | 5.14  | 78   | 835574   | 5.322  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 224854   | 5.217  | ug/L  | 96       |
| 35) Methylcyclohexane           | 6.17  | 83   | 353188   | 5.494  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 213780   | 5.386  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.55  | 83   | 261020   | 5.241  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 290916   | 5.425  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 1263531  | 56.538 | ug/L  | 99       |
| 42) Toluene                     | 7.43  | 91   | 899435   | 5.494  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 230951   | 5.449  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 137589   | 5.207  | ug/L  | 97       |
| 47) Tetrachloroethene           | 8.01  | 164  | 190834   | 5.226  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.18  | 43   | 927276   | 58.682 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.29  | 129  | 171313   | 5.241  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.39  | 107  | 125879   | 5.190  | ug/L  | 97       |
| 51) Chlorobenzene               | 8.92  | 112  | 551831   | 5.223  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.05  | 91   | 949713   | 5.472  | ug/L  | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 367823   | 5.738  | ug/L  | 98       |
| 54) o-xylene                    | 9.58  | 106  | 347341   | 5.601  | ug/L  | 100      |
| 55) Styrene                     | 9.60  | 104  | 601112   | 5.753  | ug/L  | 98       |
| 56) Isopropylbenzene            | 9.97  | 105  | 957410   | 5.735  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 143634   | 5.124  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 119687   | 5.240  | ug/L  | 99       |
| 61) Bromoform                   | 9.77  | 173  | 98195    | 5.270  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 454311   | 5.302  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 446179   | 5.192  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.68 | 146  | 419677   | 5.290  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 21929    | 4.868  | ug/L  | 84       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 351383   | 5.115  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 276140   | 5.192  | ug/L  | 98       |
| 69) Naphthalene                 | 13.55 | 128  | 387352   | 5.320  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 264173   | 5.466  | ug/L  | 99       |

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

