

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV050820\  
 Data File : VV015978.D  
 Acq On : 08 May 2020 20:13  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00538

Quant Time: May 09 00:52:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR050720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat May 09 00:44:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 141438   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 139445   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 71275    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 35691    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 93.00%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 35422    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 82631    | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 100.20% |
| 20) 2-Butanone-d5              | 3.92   | 46    | 118849   | 54.30    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 108.60% |
| 24) Chloroform-d               | 4.38   | 84    | 86173    | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.80% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 49044    | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.00% |
| 32) Benzene-d6                 | 5.08   | 84    | 170607   | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.80% |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 52115    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.00% |
| 41) Toluene-d8                 | 7.34   | 98    | 161353   | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.80% |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 19012    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.60%  |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 91389    | 52.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 104.68% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 38059    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 106.80% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 58336    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.80% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 58608  | 5.408  | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 58276  | 5.311  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 55682  | 5.307  | ug/L 96  |
| 6) Bromomethane                | 1.53 | 94  | 26718  | 4.487  | ug/L 97  |
| 8) Chloroethane                | 1.60 | 64  | 38984  | 5.215  | ug/L 95  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 81891  | 5.690  | ug/L 98  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 44930  | 5.527  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 42346  | 5.440  | ug/L 89  |
| 13) Acetone                    | 2.20 | 43  | 78952  | 54.682 | ug/L 70  |
| 14) Carbon disulfide           | 2.31 | 76  | 135792 | 5.284  | ug/L 99  |
| 15) Methyl Acetate             | 2.46 | 43  | 19334  | 5.795  | ug/L 95  |
| 16) Methylene chloride         | 2.52 | 84  | 48236  | 5.179  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 2.79 | 73  | 108401 | 5.360  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 47811  | 5.558  | ug/L 95  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 93140  | 5.622  | ug/L 99  |
| 21) 2-Butanone                 | 4.00 | 43  | 124501 | 56.621 | ug/L 95  |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96  | 50307  | 5.587  | ug/L 97  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 4.28  | 128  | 21256    | 5.531  | ug/L   | 100      |
| 25) Chloroform                 | 4.40  | 83   | 102161   | 5.599  | ug/L   | 96       |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 61112    | 5.451  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane      | 4.64  | 97   | 84371    | 5.487  | ug/L   | 99       |
| 30) Cyclohexane                | 4.70  | 56   | 82786    | 5.372  | ug/L   | 99       |
| 31) Carbon tetrachloride       | 4.86  | 117  | 71858    | 5.415  | ug/L   | 98       |
| 33) Benzene                    | 5.13  | 78   | 198469   | 5.657  | ug/L   | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 52659    | 5.259  | ug/L   | 96       |
| 35) Methylcyclohexane          | 6.15  | 83   | 80933    | 5.343  | ug/L   | 98       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 51483    | 5.776  | ug/L   | 99       |
| 38) Bromodichloromethane       | 6.53  | 83   | 61828    | 5.462  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 64419    | 5.113  | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 319031   | 57.425 | ug/L   | 99       |
| 42) Toluene                    | 7.41  | 91   | 210360   | 5.657  | ug/L   | 98       |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 190804   | 5.589  | ug/L # | 100      |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 192116   | 5.632  | ug/L # | 100      |
| 46) trans-1,3-Dichloropropene  | 7.67  | 75   | 53963    | 5.071  | ug/L   | 97       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 32902    | 5.528  | ug/L   | 96       |
| 49) Tetrachloroethene          | 8.00  | 164  | 38572    | 5.520  | ug/L   | 99       |
| 50) 2-Hexanone                 | 8.16  | 43   | 228519   | 58.166 | ug/L   | 100      |
| 51) Dibromochloromethane       | 8.27  | 129  | 35353    | 5.286  | ug/L   | 96       |
| 52) 1,2-Dibromoethane          | 8.38  | 107  | 31565    | 5.718  | ug/L # | 95       |
| 53) Chlorobenzene              | 8.90  | 112  | 131686   | 5.506  | ug/L   | 98       |
| 54) Ethylbenzene               | 9.03  | 91   | 235827   | 5.577  | ug/L   | 99       |
| 55) m,p-xylene                 | 9.16  | 106  | 88691    | 5.664  | ug/L   | 94       |
| 56) o-xylene                   | 9.57  | 106  | 84609    | 5.652  | ug/L   | 98       |
| 57) Styrene                    | 9.58  | 104  | 142465   | 5.690  | ug/L   | 100      |
| 58) Isopropylbenzene           | 9.95  | 105  | 228102   | 5.546  | ug/L   | 100      |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 36825    | 5.790  | ug/L   | 96       |
| 62) Bromoform                  | 9.76  | 173  | 15594    | 4.762  | ug/L   | 97       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 104861   | 5.461  | ug/L   | 97       |
| 64) 1,4-Dichlorobenzene        | 11.30 | 146  | 103373   | 5.358  | ug/L   | 98       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 95985    | 5.523  | ug/L   | 98       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 6222     | 5.485  | ug/L   | 95       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 75306    | 5.364  | ug/L   | 99       |
| 69) 1,2,4-trichlorobenzene     | 13.28 | 180  | 64777    | 5.370  | ug/L   | 98       |
| 70) Naphthalene                | 13.53 | 128  | 102875   | 5.362  | ug/L   | 99       |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 57793    | 5.430  | ug/L   | 100      |

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

