

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\  
 Data File : VV017044.D  
 Acq On : 23 Jun 2020 09:59  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00554

Quant Time: Jun 24 04:57:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 23 18:27:21 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 193146   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 189332   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 101370   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 48588    | 4.19     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.80% |
| 7) Chloroethane-d5             | 1.58   | 69    | 38473    | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.20% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 98170    | 4.45     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 89.00% |
| 20) 2-Butanone-d5              | 3.93   | 46    | 143768   | 48.66    | ug/L | -0.01  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 97.32% |
| 24) Chloroform-d               | 4.37   | 84    | 117540   | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.80% |
| 26) 1,2-Dichloroethane-d4      | 5.05   | 65    | 63673    | 4.84     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80% |
| 32) Benzene-d6                 | 5.07   | 84    | 226505   | 4.61     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.20% |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 67183    | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.40% |
| 41) Toluene-d8                 | 7.33   | 98    | 222991   | 4.84     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80% |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 28068    | 4.58     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.60% |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 100708   | 43.16    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 86.32% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 48071    | 4.92     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.40% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 83836    | 4.47     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 89.40% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 79375  | 5.148  | ug/L 97  |
| 3) Chloromethane               | 1.25 | 50  | 63028  | 4.824  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 63118  | 4.980  | ug/L 95  |
| 6) Bromomethane                | 1.53 | 94  | 31651  | 4.285  | ug/L 95  |
| 8) Chloroethane                | 1.60 | 64  | 36442  | 5.203  | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 103505 | 5.043  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 52030  | 5.086  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 46799  | 5.049  | ug/L 91  |
| 13) Acetone                    | 2.20 | 43  | 77934  | 52.183 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 138707 | 4.994  | ug/L 99  |
| 15) Methyl Acetate             | 2.45 | 43  | 18155  | 4.972  | ug/L 100 |
| 16) Methylene chloride         | 2.52 | 84  | 46414  | 4.675  | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 2.78 | 73  | 115091 | 4.945  | ug/L 97  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 51170  | 5.209  | ug/L 94  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 111294 | 5.043  | ug/L 100 |
| 21) 2-Butanone                 | 4.01 | 43  | 150477 | 53.450 | ug/L 97  |
| 22) cis-1,2-Dichloroethene     | 3.93 | 96  | 66056  | 4.918  | ug/L 100 |

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 VSTD00554

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 23 18:27:21 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 4.27  | 128  | 29380    | 5.147  | ug/L   | 96       |
| 25) Chloroform                 | 4.40  | 83   | 128614   | 5.335  | ug/L   | 97       |
| 27) 1,2-Dichloroethane         | 5.15  | 62   | 78207    | 5.222  | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 115764   | 5.103  | ug/L   | 98       |
| 30) Cyclohexane                | 4.70  | 56   | 100260   | 4.645  | ug/L   | 98       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 99943    | 4.883  | ug/L   | 98       |
| 33) Benzene                    | 5.12  | 78   | 249474   | 5.031  | ug/L   | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 67920    | 4.678  | ug/L   | 98       |
| 35) Methylcyclohexane          | 6.15  | 83   | 106351   | 4.712  | ug/L   | 99       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 60872    | 4.959  | ug/L   | 99       |
| 38) Bromodichloromethane       | 6.53  | 83   | 81084    | 4.863  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 87683    | 4.808  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 356334   | 50.282 | ug/L   | 99       |
| 42) Toluene                    | 7.41  | 91   | 275819   | 4.785  | ug/L   | 98       |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 254192   | 4.931  | ug/L   | 100      |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 257923   | 4.914  | ug/L   | 100      |
| 46) trans-1,3-Dichloropropene  | 7.67  | 75   | 75700    | 4.799  | ug/L   | 98       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 43241    | 4.967  | ug/L   | 98       |
| 49) Tetrachloroethene          | 7.99  | 164  | 56795    | 4.860  | ug/L   | 98       |
| 50) 2-Hexanone                 | 8.16  | 43   | 259193   | 51.394 | ug/L   | 98       |
| 51) Dibromochloromethane       | 8.27  | 129  | 52248    | 4.951  | ug/L   | 98       |
| 52) 1,2-Dibromoethane          | 8.37  | 107  | 39857    | 4.828  | ug/L # | 93       |
| 53) Chlorobenzene              | 8.90  | 112  | 174169   | 4.847  | ug/L   | 98       |
| 54) Ethylbenzene               | 9.03  | 91   | 301397   | 4.898  | ug/L   | 100      |
| 55) m,p-xylene                 | 9.16  | 106  | 116793   | 4.839  | ug/L   | 100      |
| 56) o-xylene                   | 9.56  | 106  | 111174   | 4.936  | ug/L   | 99       |
| 57) Styrene                    | 9.58  | 104  | 191765   | 5.139  | ug/L   | 97       |
| 58) Isopropylbenzene           | 9.95  | 105  | 302637   | 4.883  | ug/L   | 99       |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 46410    | 5.154  | ug/L   | 95       |
| 62) Bromoform                  | 9.75  | 173  | 26084    | 4.810  | ug/L   | 100      |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 150198   | 4.922  | ug/L   | 99       |
| 64) 1,4-Dichlorobenzene        | 11.29 | 146  | 146044   | 4.708  | ug/L   | 97       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 132784   | 4.794  | ug/L   | 98       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 7597     | 4.959  | ug/L   | 86       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 115915   | 4.727  | ug/L   | 97       |
| 69) 1,2,4-trichlorobenzene     | 13.29 | 180  | 89885    | 4.453  | ug/L   | 100      |
| 70) Naphthalene                | 13.53 | 128  | 123870   | 4.346  | ug/L   | 99       |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 76428    | 4.643  | ug/L   | 98       |

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

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