

Data File : VU032182.D  
Acq On : 21 May 2019 02:56  
Operator : JC/SP  
Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00509

Quant Time: May 30 01:25:16 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR051619WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed May 29 09:03:42 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 363653   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 361651   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 168882   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 99340    | 3.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 64.80%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 93293    | 3.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 71.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 177720   | 3.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 72.80%  |
| 20) 2-Butanone-d5              | 4.20   | 46    | 289001   | 48.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.12%  |
| 24) Chloroform-d               | 4.64   | 84    | 238294   | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 117731   | 4.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.80%  |
| 32) Benzene-d6                 | 5.33   | 84    | 453880   | 4.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 82.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 136161   | 4.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 84.40%  |
| 41) Toluene-d8                 | 7.56   | 98    | 410718   | 4.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.60%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 48281    | 4.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.20%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 262130   | 50.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.00% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 120454   | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 91.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 159486   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 89.20%  |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 81845  | 4.497 ug/L   | 94     |
| 3) Chloromethane               | 1.32 | 50  | 70116  | 4.014 ug/L   | 99     |
| 5) Vinyl chloride              | 1.40 | 62  | 80996  | 4.414 ug/L   | 97     |
| 6) Bromomethane                | 1.63 | 94  | 47750  | 4.514 ug/L   | 90     |
| 8) Chloroethane                | 1.69 | 64  | 45519  | 4.000 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 115068 | 5.111 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 68385  | 4.584 ug/L   | 93     |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 69707  | 4.773 ug/L # | 73     |
| 13) Acetone                    | 2.34 | 43  | 85333  | 43.221 ug/L  | 99     |
| 14) Carbon disulfide           | 2.47 | 76  | 199606 | 4.285 ug/L   | 99     |
| 15) Methyl Acetate             | 2.62 | 43  | 23042  | 4.070 ug/L   | 98     |
| 16) Methylene chloride         | 2.69 | 84  | 78216  | 4.487 ug/L   | 95     |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 158353 | 4.612 ug/L   | 97     |
| 18) trans-1,2-Dichloroethene   | 2.97 | 96  | 75894  | 4.855 ug/L   | 91     |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 117632 | 4.744 ug/L   | 98     |
| 21) 2-Butanone                 | 4.29 | 43  | 135335 | 47.756 ug/L  | 92     |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 77444  | 5.036 ug/L   | 86     |

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed May 29 09:03:42 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 4.54  | 128  | 35693    | 5.409  | ug/L   | 97       |
| 25) Chloroform                 | 4.67  | 83   | 131907   | 4.974  | ug/L   | 99       |
| 27) 1,2-Dichloroethane         | 5.40  | 62   | 72172    | 4.713  | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane      | 4.91  | 97   | 109346   | 5.183  | ug/L   | 96       |
| 30) Cyclohexane                | 4.98  | 56   | 83709    | 4.314  | ug/L   | 95       |
| 31) Carbon tetrachloride       | 5.13  | 117  | 92090    | 5.133  | ug/L   | 99       |
| 33) Benzene                    | 5.38  | 78   | 277461   | 4.996  | ug/L   | 100      |
| 34) Trichloroethene            | 6.18  | 95   | 72649    | 4.823  | ug/L   | 92       |
| 35) Methylcyclohexane          | 6.40  | 83   | 93917    | 4.330  | ug/L   | 98       |
| 37) 1,2-Dichloropropane        | 6.43  | 63   | 62386    | 4.595  | ug/L   | 100      |
| 38) Bromodichloromethane       | 6.75  | 83   | 87776    | 5.054  | ug/L # | 99       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 86254    | 4.594  | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 298709   | 47.457 | ug/L   | 98       |
| 42) Toluene                    | 7.63  | 91   | 300855   | 5.173  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 7.88  | 75   | 70210    | 4.810  | ug/L   | 95       |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 51778    | 5.162  | ug/L   | 97       |
| 47) Tetrachloroethene          | 8.22  | 164  | 61154    | 5.431  | ug/L   | 96       |
| 48) 2-Hexanone                 | 8.36  | 43   | 245832   | 50.353 | ug/L   | 99       |
| 49) Dibromochloromethane       | 8.47  | 129  | 62066    | 5.369  | ug/L   | 100      |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 49952    | 5.197  | ug/L   | 99       |
| 51) Chlorobenzene              | 9.12  | 112  | 190589   | 5.188  | ug/L   | 92       |
| 52) Ethylbenzene               | 9.24  | 91   | 291362   | 4.994  | ug/L   | 97       |
| 53) m,p-Xylene                 | 9.37  | 106  | 110529   | 4.987  | ug/L   | 99       |
| 54) o-Xylene                   | 9.77  | 106  | 111778   | 5.232  | ug/L   | 88       |
| 55) Styrene                    | 9.79  | 104  | 191576   | 5.289  | ug/L   | 94       |
| 56) Isopropylbenzene           | 10.16 | 105  | 281339   | 5.153  | ug/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 63483    | 5.073  | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 44677    | 5.181  | ug/L   | 100      |
| 61) Bromoform                  | 9.95  | 173  | 35684    | 5.506  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 141131   | 5.245  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 143114   | 5.110  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146  | 146835   | 5.378  | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 9586     | 5.381  | ug/L   | 92       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 106517   | 5.318  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 76984    | 5.314  | ug/L   | 99       |
| 69) Naphthalene                | 13.74 | 128  | 108351   | 5.031  | ug/L   | 97       |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 82243    | 5.852  | ug/L   | 98       |

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

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