

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081919\  
 Data File : VU033838.D  
 Acq On : 19 Aug 2019 09:52  
 Operator : JC/SP  
 Sample : MDL06  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL06

Manual Integrations  
 APPROVED

MMDadoda  
 8/20/2019 8:38:09 AM

Quant Time: Aug 19 15:37:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUTR081419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Aug 17 01:44:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 178548   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 188717   | 5.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 87336    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 71223    | 3.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 70.40%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 66409    | 4.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 84.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 65    | 35652    | 3.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 76.80%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 195267   | 50.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 100.02% |
| 24) Chloroform-d               | 4.62   | 84    | 129358   | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 71026    | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.00%  |
| 32) Benzene-d6                 | 5.32   | 84    | 238933   | 4.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 82.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 82422    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.60%  |
| 41) Toluene-d8                 | 7.55   | 98    | 193156   | 3.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 72.60%  |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 30239    | 4.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.20%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 130126   | 44.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.76%  |
| 56) 1,1,2,2-Tetrachloroethane- | 10.42  | 84    | 69912    | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 88.00%  |
| 66) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 81951    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 92.60%  |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 5917   | 0.229 ug/L   | 100    |
| 3) Chloromethane               | 1.32 | 50  | 7388   | 0.275 ug/L   | 97     |
| 5) Vinyl chloride              | 1.39 | 62  | 7717   | 0.263 ug/L # | 69     |
| 6) Bromomethane                | 1.62 | 94  | 4746   | 0.278 ug/L   | 95     |
| 8) Chloroethane                | 1.69 | 64  | 4663   | 0.270 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 10069  | 0.251 ug/L   | 96     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 6818   | 0.320 ug/L   | 85     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 6690   | 0.325 ug/L # | 1      |
| 13) Acetone                    | 2.35 | 43  | 13674  | 3.286 ug/L   | 98     |
| 14) Carbon disulfide           | 2.46 | 76  | 18914  | 0.271 ug/L # | 87     |
| 15) Methyl Acetate             | 2.61 | 43  | 2943   | 0.272 ug/L   | 93     |
| 16) Methylene chloride         | 2.68 | 84  | 8135   | 0.339 ug/L   | 95     |
| 17) Methyl tert-butyl Ether    | 2.98 | 73  | 14955  | 0.281 ug/L   | 97     |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 5856   | 0.265 ug/L   | 86     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 9116   | 0.264 ug/L   | 95     |
| 21) 2-Butanone                 | 4.29 | 43  | 16361m | 3.176 ug/L   |        |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96  | 4978   | 0.264 ug/L   | 84     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane         | 4.53  | 128  | 2513     | 0.278 | ug/L   | 95       |
| 25) Chloroform                 | 4.65  | 83   | 14441    | 0.388 | ug/L   | 90       |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 6001     | 0.262 | ug/L # | 94       |
| 29) 1,1,1-Trichloroethane      | 4.89  | 97   | 8093     | 0.264 | ug/L   | 96       |
| 30) Cyclohexane                | 4.97  | 56   | 5998     | 0.216 | ug/L   | 100      |
| 31) Carbon tetrachloride       | 5.11  | 117  | 7318     | 0.268 | ug/L   | 95       |
| 33) Benzene                    | 5.37  | 78   | 19230    | 0.255 | ug/L   | 100      |
| 34) Trichloroethene            | 6.17  | 95   | 5255     | 0.265 | ug/L   | 98       |
| 35) Methylcyclohexane          | 6.40  | 83   | 6724     | 0.227 | ug/L   | 93       |
| 37) 1,2-Dichloropropane        | 6.42  | 63   | 5103     | 0.250 | ug/L # | 94       |
| 38) Bromodichloromethane       | 6.74  | 83   | 6491     | 0.252 | ug/L   | 93       |
| 39) cis-1,3-Dichloropropene    | 7.26  | 75   | 6768     | 0.246 | ug/L   | 88       |
| 40) 4-Methyl-2-pentanone       | 7.45  | 43   | 24874    | 2.110 | ug/L # | 87       |
| 42) Toluene                    | 7.62  | 91   | 19046    | 0.240 | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene  | 7.87  | 75   | 5677     | 0.247 | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 4034     | 0.277 | ug/L   | 90       |
| 47) Tetrachloroethene          | 8.21  | 164  | 3871     | 0.235 | ug/L   | 96       |
| 48) 2-Hexanone                 | 8.36  | 43   | 29157    | 3.420 | ug/L   | 97       |
| 49) Dibromochloromethane       | 8.46  | 129  | 4543     | 0.257 | ug/L   | 88       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 3557     | 0.252 | ug/L # | 92       |
| 51) Chlorobenzene              | 9.10  | 112  | 11820    | 0.231 | ug/L   | 87       |
| 52) Ethylbenzene               | 9.23  | 91   | 17169    | 0.209 | ug/L   | 97       |
| 53) m,p-Xylene                 | 9.36  | 106  | 6022     | 0.195 | ug/L   | 93       |
| 54) o-Xylene                   | 9.77  | 106  | 5740     | 0.195 | ug/L   | 95       |
| 55) Styrene                    | 9.78  | 104  | 8937     | 0.175 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 4660     | 0.243 | ug/L   | 97       |
| 59) Isopropylbenzene           | 10.15 | 105  | 15091    | 0.227 | ug/L   | 96       |
| 60) Bromoform                  | 9.94  | 173  | 2248     | 0.252 | ug/L # | 94       |
| 61) 1,2,3-Trichloropropane     | 10.48 | 75   | 2951     | 0.254 | ug/L   | 94       |
| 62) 1,3,5-Trimethylbenzene     | 10.76 | 105  | 10690    | 0.198 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene     | 11.13 | 105  | 10603    | 0.197 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene        | 11.40 | 146  | 9506     | 0.267 | ug/L   | 92       |
| 65) 1,4-Dichlorobenzene        | 11.49 | 146  | 9511     | 0.259 | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene        | 11.86 | 146  | 9919     | 0.289 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 612      | 0.242 | ug/L   | 92       |
| 69) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 7026     | 0.251 | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene     | 13.50 | 180  | 4308     | 0.198 | ug/L   | 96       |
| 71) Naphthalene                | 13.74 | 128  | 5629     | 0.168 | ug/L # | 95       |
| 72) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 4443     | 0.216 | ug/L   | 86       |

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

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