

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U103018\  
 Data File : VU027876.D  
 Acq On : 30 Oct 2018 16:20  
 Operator : MD/SY  
 Sample : MDL05  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL05

Manual Integrations  
 APPROVED

MMDadoda  
 11/1/2018 11:15:48 AM

Quant Time: Oct 31 02:43:57 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR103018WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Oct 31 02:11:32 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 81134    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 77961    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 39055    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 30487    | 4.81     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 96.20% |
| 7) Chloroethane-d5             | 1.68   | 69    | 23191    | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.80% |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 43720    | 3.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 72.60% |
| 20) 2-Butanone-d5              | 4.19   | 46    | 91995    | 48.65    | ug/L | -0.01  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 97.30% |
| 24) Chloroform-d               | 4.65   | 84    | 52530    | 4.61     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.20% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 31776    | 4.85     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.00% |
| 32) Benzene-d6                 | 5.34   | 84    | 101930   | 4.77     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.40% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 35711    | 4.73     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.60% |
| 41) Toluene-d8                 | 7.57   | 98    | 94652    | 4.66     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.20% |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 13378    | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.40% |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 76338    | 47.71    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.42% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 25431    | 4.76     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 34785    | 4.66     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.20% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 2354  | 0.295 ug/L   | 99     |
| 3) Chloromethane               | 1.33 | 50  | 2552  | 0.322 ug/L   | 97     |
| 5) Vinyl chloride              | 1.40 | 62  | 2635  | 0.334 ug/L # | 65     |
| 6) Bromomethane                | 1.63 | 94  | 755   | 0.291 ug/L   | 81     |
| 8) Chloroethane                | 1.70 | 64  | 1879m | 0.407 ug/L   |        |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 3621  | 0.346 ug/L   | 90     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 1859  | 0.348 ug/L   | 92     |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 1919  | 0.381 ug/L # | 1      |
| 13) Acetone                    | 2.33 | 43  | 5427  | 4.553 ug/L   | 84     |
| 14) Carbon disulfide           | 2.48 | 76  | 5785  | 0.321 ug/L   | 98     |
| 15) Methyl Acetate             | 2.62 | 43  | 1359  | 0.426 ug/L # | 85     |
| 16) Methylene chloride         | 2.71 | 84  | 2081  | 0.368 ug/L   | 88     |
| 17) Methyl tert-butyl Ether    | 3.01 | 73  | 4659  | 0.310 ug/L # | 88     |
| 18) trans-1,2-Dichloroethene   | 2.99 | 96  | 1711  | 0.319 ug/L   | 93     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 3629  | 0.321 ug/L   | 97     |
| 21) 2-Butanone                 | 4.28 | 43  | 6474m | 3.124 ug/L   |        |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 1877m | 0.303 ug/L   |        |

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 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 23) Bromochloromethane        | 4.56  | 128  | 785      | 0.306 | ug/L # | 67       |
| 25) Chloroform                | 4.68  | 83   | 3808     | 0.332 | ug/L   | 100      |
| 27) 1,2-Dichloroethane        | 5.41  | 62   | 2739     | 0.342 | ug/L # | 78       |
| 29) 1,1,1-Trichloroethane     | 4.92  | 97   | 2784     | 0.277 | ug/L   | 91       |
| 30) Cyclohexane               | 5.00  | 56   | 3393     | 0.287 | ug/L   | 92       |
| 31) Carbon tetrachloride      | 5.13  | 117  | 2664     | 0.309 | ug/L   | 99       |
| 33) Benzene                   | 5.39  | 78   | 7646     | 0.310 | ug/L   | 100      |
| 34) Trichloroethene           | 6.19  | 95   | 1872     | 0.291 | ug/L # | 88       |
| 35) Methylcyclohexane         | 6.41  | 83   | 3333     | 0.305 | ug/L   | 91       |
| 37) 1,2-Dichloropropane       | 6.43  | 63   | 2278     | 0.324 | ug/L # | 90       |
| 38) Bromodichloromethane      | 6.76  | 83   | 2328     | 0.283 | ug/L   | 87       |
| 39) cis-1,3-Dichloropropene   | 7.27  | 75   | 3108     | 0.308 | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone      | 7.47  | 43   | 15628    | 3.145 | ug/L # | 92       |
| 42) Toluene                   | 7.64  | 91   | 8054     | 0.312 | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene | 7.88  | 75   | 2632     | 0.304 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 8.07  | 97   | 1399     | 0.323 | ug/L   | 82       |
| 47) Tetrachloroethene         | 8.23  | 164  | 1684     | 0.341 | ug/L   | 87       |
| 48) 2-Hexanone                | 8.37  | 43   | 11817    | 3.299 | ug/L   | 99       |
| 49) Dibromochloromethane      | 8.48  | 129  | 1350     | 0.258 | ug/L   | 94       |
| 50) 1,2-Dibromoethane         | 8.59  | 107  | 1302     | 0.315 | ug/L # | 86       |
| 51) Chlorobenzene             | 9.12  | 112  | 5122     | 0.320 | ug/L   | 94       |
| 52) Ethylbenzene              | 9.25  | 91   | 8958     | 0.304 | ug/L   | 99       |
| 53) m,p-xylene                | 9.38  | 106  | 3027     | 0.283 | ug/L   | 97       |
| 54) o-xylene                  | 9.78  | 106  | 3063     | 0.292 | ug/L   | 95       |
| 55) Styrene                   | 9.80  | 104  | 4856     | 0.276 | ug/L   | 93       |
| 56) Isopropylbenzene          | 10.17 | 105  | 8476     | 0.297 | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane | 10.46 | 83   | 1892     | 0.335 | ug/L # | 87       |
| 59) 1,2,3-Trichloropropane    | 10.50 | 75   | 1346m    | 0.316 | ug/L   |          |
| 61) Bromoform                 | 9.96  | 173  | 648m     | 0.226 | ug/L   |          |
| 62) 1,3-Dichlorobenzene       | 11.42 | 146  | 3567     | 0.284 | ug/L   | 93       |
| 63) 1,4-Dichlorobenzene       | 11.51 | 146  | 4169     | 0.332 | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene       | 11.88 | 146  | 3851     | 0.325 | ug/L   | 90       |
| 67) 1,3,5-Trichlorobenzene    | 12.89 | 180  | 3057     | 0.302 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene    | 13.51 | 180  | 2343m    | 0.273 | ug/L   |          |
| 69) Naphthalene               | 13.75 | 128  | 3588     | 0.268 | ug/L # | 86       |
| 70) 1,2,3-Trichlorobenzene    | 13.99 | 180  | 2063     | 0.263 | ug/L # | 86       |
| -----                         |       |      |          |       |        |          |

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

