

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU120518\  
 Data File : VU028480.D  
 Acq On : 05 Dec 2018 15:11  
 Operator : MD/SY  
 Sample : VU1205WBSD01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1205WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 12/6/2018 4:53:20 PM

Quant Time: Dec 06 03:20:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U112818W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 29 01:04:49 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 316981   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 556494   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 519183   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 257267   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.31   | 65  | 277956   | 52.47 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.94% |      |
| 35) Dibromofluoromethane  | 4.88   | 113 | 210663   | 56.93 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.86% |      |
| 50) Toluene-d8            | 7.56   | 98  | 844664   | 57.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 114.14% |      |
| 62) 4-Bromofluorobenzene  | 10.30  | 95  | 317006   | 59.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 118.86% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.21 | 85  | 89247   | 20.988  | ug/l | 99     |
| 3) Chloromethane              | 1.33 | 50  | 154942  | 18.799  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 123414  | 21.401  | ug/l | 99     |
| 5) Bromomethane               | 1.63 | 94  | 51114   | 22.917  | ug/l | 98     |
| 6) Chloroethane               | 1.70 | 64  | 74180   | 22.355  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.89 | 101 | 135093  | 22.553  | ug/l | 97     |
| 8) Diethyl Ether              | 2.10 | 74  | 63643   | 22.856  | ug/l | 87     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.29 | 101 | 82430   | 23.623  | ug/l | 95     |
| 10) Methyl Iodide             | 2.41 | 142 | 52690   | 16.012  | ug/l | 95     |
| 11) Tert butyl alcohol        | 2.82 | 59  | 121153  | 100.667 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.29 | 96  | 80845   | 23.874  | ug/l | 90     |
| 13) Acrolein                  | 2.20 | 56  | 96527   | 90.217  | ug/l | 98     |
| 14) Allyl chloride            | 2.59 | 41  | 169244  | 19.129  | ug/l | 97     |
| 15) Acrylonitrile             | 2.94 | 53  | 341103  | 107.147 | ug/l | 99     |
| 16) Acetone                   | 2.32 | 43  | 292247  | 90.182  | ug/l | 98     |
| 17) Carbon Disulfide          | 2.48 | 76  | 258351  | 19.876  | ug/l | 97     |
| 18) Methyl Acetate            | 2.62 | 43  | 188314  | 20.871  | ug/l | 96     |
| 19) Methyl tert-butyl Ether   | 3.00 | 73  | 306676  | 22.090  | ug/l | 97     |
| 20) Methylene Chloride        | 2.70 | 84  | 104604  | 22.845  | ug/l | 87     |
| 21) trans-1,2-Dichloroethene  | 2.98 | 96  | 88280   | 22.479  | ug/l | 91     |
| 22) Diisopropyl ether         | 3.57 | 45  | 354038  | 20.325  | ug/l | 96     |
| 23) Vinyl Acetate             | 3.52 | 43  | 1256130 | 86.757  | ug/l | 97     |
| 24) 1,1-Dichloroethane        | 3.45 | 63  | 186453  | 21.711  | ug/l | 100    |
| 25) 2-Butanone                | 4.26 | 43  | 459391  | 98.914  | ug/l | 96     |
| 26) 2,2-Dichloropropane       | 4.23 | 77  | 138374  | 20.288  | ug/l | 95     |
| 27) cis-1,2-Dichloroethene    | 4.23 | 96  | 102876  | 22.150  | ug/l | 92     |
| 28) Bromochloromethane        | 4.55 | 49  | 90115   | 20.985  | ug/l | 89     |
| 29) Tetrahydrofuran           | 4.64 | 42  | 317206  | 105.195 | ug/l | 94     |
| 30) Chloroform                | 4.67 | 83  | 170071  | 21.455  | ug/l | 100    |
| 31) Cyclohexane               | 5.00 | 56  | 179699  | 20.153  | ug/l | 94     |
| 32) 1,1,1-Trichloroethane     | 4.91 | 97  | 136109  | 21.398  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.14 | 75  | 131960  | 21.670  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.38 | 43  | 171577  | 20.675  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.13 | 117 | 107185  | 21.434  | ug/l | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU120518\  
 Data File : VU028480.D  
 Acq On : 05 Dec 2018 15:11  
 Operator : MD/SY  
 Sample : VU1205WBSD01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1205WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 12/6/2018 4:53:20 PM

Quant Time: Dec 06 03:20:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U112818W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 29 01:04:49 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 6.41  | 83   | 159743   | 22.249  | ug/l   | 94       |
| 40) Benzene                    | 5.39  | 78   | 399276   | 22.138  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.54  | 41   | 94953    | 20.603  | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 5.40  | 62   | 139333   | 21.444  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 5.55  | 43   | 271656   | 20.657  | ug/l   | 97       |
| 44) Trichloroethene            | 6.19  | 130  | 95511    | 24.705  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 6.43  | 63   | 111806   | 21.168  | ug/l   | 99       |
| 46) Dibromomethane             | 6.56  | 93   | 67286    | 22.179  | ug/l   | 95       |
| 47) Bromodichloromethane       | 6.76  | 83   | 127237   | 21.085  | ug/l   | 100      |
| 48) Methyl methacrylate        | 6.62  | 41   | 134620   | 19.652  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 6.61  | 88   | 42917    | 392.174 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 7.46  | 43   | 865496   | 103.046 | ug/l   | 96       |
| 52) Toluene                    | 7.64  | 92   | 239712   | 23.080  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 7.88  | 75   | 151972   | 21.061  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 7.27  | 75   | 164923   | 21.335  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 8.07  | 97   | 97200    | 22.487  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 8.02  | 69   | 161868   | 22.012  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 8.24  | 76   | 170832   | 21.551  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 7.12  | 63   | 405121   | 102.614 | ug/l   | 97       |
| 59) 2-Hexanone                 | 8.36  | 43   | 663415   | 101.970 | ug/l   | 96       |
| 60) Dibromochloromethane       | 8.48  | 129  | 91512    | 22.260  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 8.58  | 107  | 102103   | 23.063  | ug/l   | 97       |
| 64) Tetrachloroethene          | 8.22  | 164  | 91775    | 26.873  | ug/l   | 97       |
| 65) Chlorobenzene              | 9.12  | 112  | 250522   | 23.239  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 82924    | 22.441  | ug/l   | 99       |
| 67) Ethyl Benzene              | 9.25  | 91   | 456390   | 22.478  | ug/l   | 98       |
| 68) m/p-Xylenes                | 9.37  | 106  | 332879   | 45.549  | ug/l   | 98       |
| 69) o-Xylene                   | 9.78  | 106  | 160833   | 22.138  | ug/l   | 99       |
| 70) Styrene                    | 9.79  | 104  | 266975   | 22.786  | ug/l   | 99       |
| 71) Bromoform                  | 9.96  | 173  | 68556    | 22.072  | ug/l # | 97       |
| 73) Isopropylbenzene           | 10.16 | 105  | 433397   | 21.660  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.01 | 43   | 234671   | 18.719  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 155663   | 18.918  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 10.49 | 75   | 148653m  | 20.837  | ug/l   |          |
| 77) Bromobenzene               | 10.45 | 156  | 103904   | 22.038  | ug/l   | 92       |
| 78) n-propylbenzene            | 10.58 | 91   | 530658   | 21.498  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 10.66 | 91   | 307681   | 21.145  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 361601   | 21.445  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 10.51 | 75   | 52820m   | 19.653  | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.77 | 91   | 354207   | 21.128  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.10 | 119  | 330764   | 21.043  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 369787   | 21.652  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.32 | 105  | 448102   | 21.949  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 11.47 | 119  | 371736   | 22.145  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 11.41 | 146  | 185765   | 21.603  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 11.50 | 146  | 189609   | 21.909  | ug/l   | 99       |
| 89) n-Butylbenzene             | 11.89 | 91   | 365330   | 22.051  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.14 | 117  | 53546    | 20.431  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 11.88 | 146  | 184522   | 21.507  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 36163    | 19.759  | ug/l   | 94       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU120518\  
Data File : VU028480.D  
Acq On : 05 Dec 2018 15:11  
Operator : MD/SY  
Sample : VU1205WBSD01  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU1205WBSD01

Manual Integrations  
APPROVED

MMDadoda  
12/6/2018 4:53:20 PM

Quant Time: Dec 06 03:20:09 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U112818W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 29 01:04:49 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.50 | 180  | 130920   | 23.313 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.69 | 225  | 59367    | 22.388 | ug/l  | 98       |
| 95) Naphthalene            | 13.74 | 128  | 458846   | 22.825 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 13.99 | 180  | 133049   | 23.425 | ug/l  | 100      |

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

