

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU022021\  
 Data File : VU042370.D  
 Acq On : 19 Feb 2021 18:36  
 Operator : SY/MD  
 Sample : MDL06  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL06

Manual Integrations  
 APPROVED

MMDadoda  
 2/22/2021 12:34:03 PM

Quant Time: Feb 20 01:54:42 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U021721W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 20 01:54:00 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Pentafluorobenzene        | 5.382  | 168  | 131023   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.256  | 114  | 207165   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5         | 9.426  | 117  | 188740   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 11.819 | 152  | 90283    | 50.00 | ug/l    | 0.00     |
|                              |        |      |          |       |         |          |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4    | 5.713  | 65   | 107127   | 53.91 | ug/l    | 0.00     |
| Spiked Amount 50.000         |        |      | Recovery | =     | 107.82% |          |
| 35) Dibromofluoromethane     | 5.298  | 113  | 73584    | 50.32 | ug/l    | 0.00     |
| Spiked Amount 50.000         |        |      | Recovery | =     | 100.64% |          |
| 50) Toluene-d8               | 7.906  | 98   | 258495   | 49.36 | ug/l    | 0.00     |
| Spiked Amount 50.000         |        |      | Recovery | =     | 98.72%  |          |
| 62) 4-Bromofluorobenzene     | 10.639 | 95   | 92575    | 44.85 | ug/l    | 0.00     |
| Spiked Amount 50.000         |        |      | Recovery | =     | 89.70%  |          |
|                              |        |      |          |       |         |          |
| Target Compounds             |        |      |          |       | Qvalue  |          |
| 2) Dichlorodifluoromethane   | 1.388  | 85   | 709      | 0.45  | ug/l    | 86       |
| 3) Chloromethane             | 1.523  | 50   | 1005     | 0.62  | ug/l    | 100      |
| 4) Vinyl Chloride            | 1.607  | 62   | 622      | 0.40  | ug/l    | 99       |
| 5) Bromomethane              | 1.861  | 94   | 681      | 0.72  | ug/l    | 87       |
| 6) Chloroethane              | 1.935  | 64   | 608      | 0.68  | ug/l    | 92       |
| 7) Trichlorofluoromethane    | 2.144  | 101  | 1093     | 0.46  | ug/l    | 99       |
| 8) Diethyl Ether             | 2.382  | 74   | 422      | 0.56  | ug/l    | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 2.591  | 101  | 619      | 0.50  | ug/l    | 96       |
| 10) Methyl Iodide            | 2.732  | 142  | 689      | 0.39  | ug/l #  | 80       |
| 11) Tert butyl alcohol       | 3.240  | 59   | 1065m    | 2.51  | ug/l    |          |
| 12) 1,1-Dichloroethene       | 2.584  | 96   | 501      | 0.41  | ug/l    | 81       |
| 13) Acrolein                 | 2.491  | 56   | 536      | 2.06  | ug/l #  | 81       |
| 14) Allyl chloride           | 2.932  | 41   | 1324     | 0.49  | ug/l #  | 89       |
| 15) Acrylonitrile            | 3.337  | 53   | 2272     | 2.22  | ug/l    | 93       |
| 16) Acetone                  | 2.645  | 43   | 2830     | 2.30  | ug/l    | 91       |
| 17) Carbon Disulfide         | 2.800  | 76   | 1697     | 0.47  | ug/l #  | 90       |
| 18) Methyl Acetate           | 2.967  | 43   | 1001     | 0.45  | ug/l #  | 85       |
| 19) Methyl tert-butyl Ether  | 3.369  | 73   | 1974     | 0.43  | ug/l #  | 82       |
| 20) Methylene Chloride       | 3.060  | 84   | 1055     | 0.74  | ug/l #  | 87       |
| 21) trans-1,2-Dichloroethene | 3.359  | 96   | 557      | 0.43  | ug/l #  | 80       |
| 22) Diisopropyl ether        | 3.996  | 45   | 2371     | 0.47  | ug/l #  | 52       |
| 23) Vinyl Acetate            | 3.970  | 43   | 9965     | 2.06  | ug/l    | 100      |
| 24) 1,1-Dichloroethane       | 3.877  | 63   | 1143     | 0.43  | ug/l #  | 84       |
| 25) 2-Butanone               | 4.726  | 43   | 3713     | 2.27  | ug/l    | 95       |
| 26) 2,2-Dichloropropane      | 4.677  | 77   | 1086     | 0.45  | ug/l #  | 72       |
| 27) cis-1,2-Dichloroethene   | 4.677  | 96   | 613      | 0.41  | ug/l    | 91       |
| 28) Bromochloromethane       | 4.983  | 49   | 589      | 0.43  | ug/l #  | 47       |
| 29) Tetrahydrofuran          | 5.070  | 42   | 2297     | 2.25  | ug/l #  | 47       |
| 30) Chloroform               | 5.099  | 83   | 1320     | 0.49  | ug/l    | 98       |
| 31) Cyclohexane              | 5.388  | 56   | 4297     | 1.65  | ug/l #  | 47       |
| 32) 1,1,1-Trichloroethane    | 5.321  | 97   | 1158     | 0.47  | ug/l #  | 34       |
| 36) 1,1-Dichloropropene      | 5.533  | 75   | 822      | 0.40  | ug/l #  | 71       |
| 37) Ethyl Acetate            | 4.822  | 43   | 1546     | 0.49  | ug/l #  | 71       |
| 38) Carbon Tetrachloride     | 5.526  | 117  | 783      | 0.36  | ug/l    | 85       |
| 39) Methylcyclohexane        | 6.767  | 83   | 1015     | 0.43  | ug/l #  | 92       |
| 40) Benzene                  | 5.780  | 78   | 2763     | 0.48  | ug/l    | 99       |

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 Operator : SY/MD  
 Sample : MDL06  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL06

Manual Integrations  
 APPROVED

MMDadoda  
 2/22/2021 12:34:03 PM

Quant Time: Feb 20 01:54:42 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U021721W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 20 01:54:00 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|------|--------|----------|
| 41) Methacrylonitrile         | 4.989  | 41   | 467      | 0.28 | ug/l # | 67       |
| 42) 1,2-Dichloroethane        | 5.803  | 62   | 1328     | 0.53 | ug/l # | 79       |
| 43) Isopropyl Acetate         | 5.922  | 43   | 1953     | 0.42 | ug/l # | 76       |
| 44) Trichloroethene           | 6.549  | 130  | 738      | 0.48 | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 6.796  | 63   | 676      | 0.42 | ug/l # | 43       |
| 46) Dibromomethane            | 6.928  | 93   | 507      | 0.45 | ug/l # | 82       |
| 47) Bromodichloromethane      | 7.111  | 83   | 861      | 0.39 | ug/l # | 91       |
| 48) Methyl methacrylate       | 6.970  | 41   | 1048     | 0.45 | ug/l   | 92       |
| 49) 1,4-Dioxane               | 7.012  | 88   | 158      | 3.55 | ug/l # | 61       |
| 51) 4-Methyl-2-Pentanone      | 7.806  | 43   | 6809     | 2.15 | ug/l   | 93       |
| 52) Toluene                   | 7.976  | 92   | 1614     | 0.45 | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 8.224  | 75   | 841      | 0.35 | ug/l # | 59       |
| 54) cis-1,3-Dichloropropene   | 7.616  | 75   | 1032     | 0.40 | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 8.407  | 97   | 513      | 0.35 | ug/l # | 80       |
| 56) Ethyl methacrylate        | 8.346  | 69   | 875      | 0.35 | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 8.584  | 76   | 1181     | 0.46 | ug/l # | 85       |
| 58) 2-Chloroethyl Vinyl ether | 7.472  | 63   | 1200     | 1.41 | ug/l   | 97       |
| 59) 2-Hexanone                | 8.697  | 43   | 5115     | 2.02 | ug/l   | 94       |
| 60) Dibromochloromethane      | 8.816  | 129  | 596      | 0.35 | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 8.928  | 107  | 700      | 0.42 | ug/l   | 98       |
| 64) Tetrachloroethene         | 8.558  | 164  | 667      | 0.47 | ug/l # | 80       |
| 65) Chlorobenzene             | 9.455  | 112  | 1745     | 0.46 | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 9.545  | 131  | 519      | 0.36 | ug/l # | 56       |
| 67) Ethyl Benzene             | 9.581  | 91   | 3051     | 0.45 | ug/l # | 86       |
| 68) m/p-Xylenes               | 9.703  | 106  | 2069     | 0.82 | ug/l   | 97       |
| 69) o-Xylene                  | 10.108 | 106  | 994      | 0.40 | ug/l   | 97       |
| 70) Styrene                   | 10.127 | 104  | 1678     | 0.41 | ug/l   | 91       |
| 71) Bromoform                 | 10.298 | 173  | 636      | 0.46 | ug/l # | 79       |
| 73) Isopropylbenzene          | 10.491 | 105  | 2853     | 0.47 | ug/l   | 92       |
| 74) N-amyl acetate            | 10.333 | 43   | 1307     | 0.38 | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 10.793 | 83   | 970      | 0.42 | ug/l # | 82       |
| 76) 1,2,3-Trichloropropane    | 10.832 | 75   | 1153m    | 0.52 | ug/l   |          |
| 77) Bromobenzene              | 10.790 | 156  | 681      | 0.42 | ug/l   | 85       |
| 78) n-propylbenzene           | 10.912 | 91   | 3074     | 0.44 | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 10.996 | 91   | 2076     | 0.49 | ug/l   | 90       |
| 80) 1,3,5-Trimethylbenzene    | 11.095 | 105  | 2348     | 0.45 | ug/l   | 87       |
| 81) trans-1,4-Dichloro-2-b... | 10.549 | 75   | 231m     | 0.28 | ug/l   |          |
| 82) 4-Chlorotoluene           | 11.105 | 91   | 2223     | 0.45 | ug/l   | 84       |
| 83) tert-Butylbenzene         | 11.426 | 119  | 2280     | 0.46 | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 11.475 | 105  | 1947     | 0.38 | ug/l   | 97       |
| 85) sec-Butylbenzene          | 11.648 | 105  | 2584     | 0.44 | ug/l   | 91       |
| 86) p-Isopropyltoluene        | 11.799 | 119  | 2176     | 0.40 | ug/l   | 81       |
| 87) 1,3-Dichlorobenzene       | 11.754 | 146  | 1324     | 0.48 | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 11.841 | 146  | 1413m    | 0.50 | ug/l   |          |
| 89) n-Butylbenzene            | 12.217 | 91   | 1843     | 0.39 | ug/l   | 85       |
| 90) Hexachloroethane          | 12.481 | 117  | 210      | 0.22 | ug/l   | 85       |
| 91) 1,2-Dichlorobenzene       | 12.227 | 146  | 1154     | 0.41 | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 13.005 | 75   | 127      | 0.20 | ug/l # | 47       |
| 93) 1,2,4-Trichlorobenzene    | 13.851 | 180  | 618      | 0.35 | ug/l # | 84       |
| 94) Hexachlorobutadiene       | 14.028 | 225  | 401      | 0.41 | ug/l   | 79       |
| 95) Naphthalene               | 14.098 | 128  | 1241     | 0.25 | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene    | 14.343 | 180  | 619      | 0.36 | ug/l # | 76       |

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Operator : SY/MD  
Sample : MDL06  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL06

Manual Integrations  
APPROVED

MMDadoda  
2/22/2021 12:34:03 PM

Quant Time: Feb 20 01:54:42 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U021721W.M  
Quant Title : SW846 8260  
QLast Update : Sat Feb 20 01:54:00 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

