

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021519\  
 Data File : VW008700.D  
 Acq On : 15 Feb 2019 23:29  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 2/18/2019 2:34:41 PM

Quant Time: Feb 16 02:55:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W021319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 14 04:06:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 322156   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 512344   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 470976   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 245683   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 199979   | 59.71 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 119.42% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 177376   | 55.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 111.52% |      |
| 50) Toluene-d8            | 10.32  | 98  | 669897   | 54.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.24% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 246049   | 53.27 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.54% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 94389   | 45.745  | ug/l | 97     |
| 3) Chloromethane              | 2.21 | 50  | 134659  | 45.270  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.36 | 62  | 169865  | 43.474  | ug/l | 97     |
| 5) Bromomethane               | 2.78 | 94  | 152753  | 49.406  | ug/l | 98     |
| 6) Chloroethane               | 2.92 | 64  | 139838  | 48.098  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 132031  | 43.386  | ug/l | 99     |
| 8) Diethyl Ether              | 3.67 | 74  | 98414   | 54.192  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 158108  | 49.163  | ug/l | 97     |
| 10) Methyl Iodide             | 4.26 | 142 | 267850  | 53.362  | ug/l | 99     |
| 11) Tert butyl alcohol        | 5.17 | 59  | 71076   | 265.238 | ug/l | 97     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 149823  | 47.637  | ug/l | 98     |
| 13) Acrolein                  | 3.89 | 56  | 82936   | 300.396 | ug/l | 97     |
| 14) Allyl chloride            | 4.66 | 41  | 269506  | 51.577  | ug/l | 100    |
| 15) Acrylonitrile             | 5.36 | 53  | 213558  | 279.387 | ug/l | 99     |
| 16) Acetone                   | 4.12 | 43  | 189367  | 248.466 | ug/l | 95     |
| 17) Carbon Disulfide          | 4.37 | 76  | 446938  | 47.090  | ug/l | 98     |
| 18) Methyl Acetate            | 4.67 | 43  | 95776   | 54.994  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 304148  | 55.088  | ug/l | 95     |
| 20) Methylene Chloride        | 4.90 | 84  | 180280  | 54.312  | ug/l | 92     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 178934  | 51.951  | ug/l | 94     |
| 22) Diisopropyl ether         | 6.31 | 45  | 574496  | 54.626  | ug/l | 98     |
| 23) Vinyl Acetate             | 6.25 | 43  | 1829120 | 267.977 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 324976  | 53.550  | ug/l | 98     |
| 25) 2-Butanone                | 7.17 | 43  | 282526  | 262.525 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 175033  | 46.169  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96  | 199479  | 53.560  | ug/l | 98     |
| 28) Bromochloromethane        | 7.51 | 49  | 154705  | 60.388  | ug/l | 97     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 191932  | 270.581 | ug/l | 99     |
| 30) Chloroform                | 7.67 | 83  | 339281  | 55.795  | ug/l | 99     |
| 31) Cyclohexane               | 7.95 | 56  | 274088  | 44.747  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 265386  | 51.676  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 249611  | 48.493  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.25 | 43  | 132787  | 53.478  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.06 | 117 | 251124  | 49.062  | ug/l | 99     |

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Quant Time: Feb 16 02:55:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W021319S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 14 04:06:50 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.33  | 83   | 298025   | 45.775   | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 723157   | 51.441   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 81398    | 58.264   | ug/l # | 92       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 235690   | 54.051   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.42  | 43   | 262531   | 53.024   | ug/l   | 98       |
| 44) Trichloroethene            | 9.09  | 130  | 196627   | 50.445   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 183927   | 52.866   | ug/l   | 99       |
| 46) Dibromomethane             | 9.45  | 93   | 106307   | 55.469   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.64  | 83   | 254173   | 55.184   | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.43  | 41   | 122790   | 53.514   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 35606    | 1163.896 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 676930   | 266.155  | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 465062   | 51.279   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 248429   | 51.342   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 289211   | 52.726   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 140458   | 53.412   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 186021   | 53.273   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 249796   | 53.538   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 419349   | 250.347  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 457871   | 256.265  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 170487   | 54.184   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 139734   | 53.968   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 182322   | 52.057   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 517681   | 50.997   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 189392   | 52.666   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.73 | 91   | 904421   | 50.016   | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.84 | 106  | 698232   | 99.241   | ug/l   | 100      |
| 69) o-Xylene                   | 12.16 | 106  | 334505   | 50.298   | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 552374   | 50.851   | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 101366   | 52.315   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.46 | 105  | 895846   | 48.952   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 251087   | 50.737   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 168643   | 52.965   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 119880m  | 49.415   | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 218419   | 51.921   | ug/l   | 98       |
| 78) n-propylbenzene            | 12.80 | 91   | 1066049  | 49.027   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 620609   | 50.500   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 760561   | 50.035   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 47616    | 43.613   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 645445   | 49.559   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 658735   | 49.908   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 784225   | 50.196   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 938011   | 48.808   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 838288   | 48.758   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 426081   | 49.964   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 424714   | 50.534   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 786186   | 48.120   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 155953   | 51.919   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 389098   | 51.499   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 28495    | 51.500   | ug/l   | 97       |

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Quant Title : SW846 8260  
QLast Update : Thu Feb 14 04:06:50 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 269843   | 50.172 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 157789   | 50.400 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 509269   | 52.838 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 238384   | 51.652 | ug/l  | 99       |

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

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