

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\  
 Data File : VX002646.D  
 Acq On : 16 Jun 2018 14:15  
 Operator : JC/MD  
 Sample : J3479-02MS  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS003RW114R-180611MS

Manual Integrations  
 APPROVED

MMDadoda  
 6/18/2018 5:12:11 PM

Quant Time: Jun 18 08:03:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:37:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 209802   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 314102   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 310745   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 203961   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 163035   | 51.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.28% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 129055   | 51.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.96% |      |
| 50) Toluene-d8            | 8.72   | 98  | 484479   | 50.90 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.80% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 184976   | 51.28 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.56% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 102277  | 45.92  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 115731  | 43.68  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.41 | 62  | 128291  | 46.66  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 67534   | 40.71  | ug/l | 95     |
| 6) Chloroethane               | 1.72 | 64  | 87945   | 48.53  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 221059  | 49.49  | ug/l | 99     |
| 8) Diethyl Ether              | 2.19 | 74  | 82059   | 48.30  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 120260  | 48.17  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 128177  | 39.28  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.08 | 59  | 207188  | 314.36 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 114057  | 48.65  | ug/l | 100    |
| 13) Acrolein                  | 2.30 | 56  | 72616   | 235.43 | ug/l | 99     |
| 14) Allyl chloride            | 2.73 | 41  | 213288  | 45.82  | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 382225  | 265.76 | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 379889  | 270.08 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.57 | 76  | 278432  | 50.08  | ug/l | 98     |
| 18) Methyl Acetate            | 2.78 | 43  | 190503  | 50.84  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 425125  | 48.34  | ug/l | 100    |
| 20) Methylene Chloride        | 2.86 | 84  | 130603  | 45.28  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 121513  | 47.78  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.88 | 45  | 409355  | 48.61  | ug/l | 99     |
| 23) Vinyl Acetate             | 3.83 | 43  | 1633928 | 231.82 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 230425  | 50.41  | ug/l | 100    |
| 25) 2-Butanone                | 4.71 | 43  | 527043  | 285.31 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 86820   | 26.44  | ug/l | 91     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 130872  | 50.58  | ug/l | 89     |
| 28) Bromochloromethane        | 5.03 | 49  | 111051  | 51.88  | ug/l | 96     |
| 29) Tetrahydrofuran           | 5.17 | 42  | 341699  | 282.25 | ug/l | 98     |
| 30) Chloroform                | 5.22 | 83  | 228126  | 51.76  | ug/l | 99     |
| 31) Cyclohexane               | 5.58 | 56  | 186653  | 49.60  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 194206  | 52.68  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.81 | 75  | 162361  | 48.67  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.87 | 43  | 186808  | 49.47  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 172608  | 51.96  | ug/l | 99     |

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Quant Time: Jun 18 08:03:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:37:33 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 184068   | 47.20   | ug/l   | 99       |
| 40) Benzene                    | 6.15  | 78   | 527968   | 52.78   | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.07  | 41   | 112529   | 52.78   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 192746   | 49.77   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.47  | 43   | 308837   | 49.37   | ug/l   | 99       |
| 44) Trichloroethene            | 7.22  | 130  | 140270   | 48.58   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 128194   | 48.69   | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 90056    | 51.14   | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 163642   | 52.69   | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.78  | 41   | 166973   | 52.23   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 64379    | 1063.41 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 1134860  | 282.54  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 321797   | 50.43   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 173080   | 42.48   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.05  | 75   | 163993   | 42.34   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 131318   | 50.93   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.19  | 69   | 209431   | 52.78   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.38  | 76   | 217800   | 49.95   | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.50  | 43   | 898858   | 296.97  | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.59  | 129  | 137478   | 47.60   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 141816   | 53.11   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 148021   | 42.91   | ug/l   | 98       |
| 65) Chlorobenzene              | 10.15 | 112  | 5904729  | 773.74  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 135625   | 52.13   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 641186   | 49.81   | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.37 | 106  | 490370   | 98.76   | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 241018   | 49.41   | ug/l   | 98       |
| 70) Styrene                    | 10.71 | 104  | 406130   | 50.62   | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 109619   | 46.64   | ug/l   | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 651774   | 47.78   | ug/l   | 99       |
| 74) N-amyl acetate             | 6.47  | 43   | 308837   | 45.57   | ug/l # | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 206720   | 51.32   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 197008m  | 51.19   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 183364   | 48.25   | ug/l   | 97       |
| 78) n-propylbenzene            | 11.37 | 91   | 738169   | 47.18   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 443110   | 47.44   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 553515   | 48.01   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 40813    | 35.28   | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 527642   | 47.87   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 547531   | 49.30   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 567997   | 48.29   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 658076   | 47.66   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 596728   | 47.76   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 982369   | 140.96  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 2289001  | 322.79  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.40 | 91   | 594517   | 53.94   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 87707    | 45.29   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 13010690 | 1854.83 | ug/l   | 82       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 48736    | 57.76   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 286925   | 56.36   | ug/l   | 100      |

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Quant Title : SW846 8260  
QLast Update : Sat Jun 16 01:37:33 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 94) Hexachlorobutadiene    | 13.79 | 225  | 121739   | 45.40 | ug/l  | 100      |
| 95) Naphthalene            | 13.84 | 128  | 740937   | 54.09 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 280612   | 54.88 | ug/l  | 99       |

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

