

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX031119\  
 Data File : VX008006.D  
 Acq On : 12 Mar 2019 10:14  
 Operator : JC/SP  
 Sample : K1793-08MS  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE123D1-20190306MS

Manual Integrations  
 APPROVED

MMDadoda  
 3/12/2019 3:24:11 PM

Quant Time: Mar 12 13:49:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 07 07:33:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 227685   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 336547   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 298723   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 148990   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 123089   | 51.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.50% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 110442   | 51.30 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.60% |      |
| 50) Toluene-d8            | 8.71   | 98  | 416785   | 52.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.44% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 147106   | 53.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.14% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 88400   | 45.444  | ug/l | 99     |
| 3) Chloromethane              | 1.33 | 50  | 121403  | 48.429  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.41 | 62  | 122933  | 49.354  | ug/l | 100    |
| 5) Bromomethane               | 1.64 | 94  | 60245   | 51.576  | ug/l | 100    |
| 6) Chloroethane               | 1.72 | 64  | 76663   | 46.330  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 159873  | 49.298  | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 70771   | 50.396  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 93008   | 46.281  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 154946  | 54.348  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.08 | 59  | 151807  | 282.623 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 96295   | 49.709  | ug/l | 97     |
| 13) Acrolein                  | 2.30 | 56  | 76184   | 250.626 | ug/l | 98     |
| 14) Allyl chloride            | 2.73 | 41  | 185368  | 45.538  | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 345879  | 255.113 | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 297633  | 214.092 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 284351  | 48.322  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 119364  | 40.415  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 343212  | 51.500  | ug/l | 100    |
| 20) Methylene Chloride        | 2.86 | 84  | 109603  | 49.537  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 102901  | 48.276  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.87 | 45  | 359408  | 48.166  | ug/l | 97     |
| 23) Vinyl Acetate             | 3.82 | 43  | 1127108 | 172.249 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 197190  | 49.106  | ug/l | 99     |
| 25) 2-Butanone                | 4.70 | 43  | 476754  | 242.231 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 80723   | 30.343  | ug/l | 95     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 119045  | 48.807  | ug/l | 95     |
| 28) Bromochloromethane        | 5.02 | 49  | 89829   | 47.983  | ug/l | 96     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 315780  | 257.216 | ug/l | 98     |
| 30) Chloroform                | 5.21 | 83  | 190397  | 50.124  | ug/l | 99     |
| 31) Cyclohexane               | 5.57 | 56  | 174972  | 47.410  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 160082  | 50.794  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 142147  | 46.646  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.85 | 43  | 132061  | 36.518  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 140943  | 48.717  | ug/l | 99     |

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 Sample : K1793-08MS  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE123D1-20190306MS

Manual Integrations  
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 3/12/2019 3:24:11 PM

Quant Time: Mar 12 13:49:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 07 07:33:26 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 166145   | 44.994   | ug/l   | 97       |
| 40) Benzene                    | 6.14  | 78   | 448599   | 49.448   | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 98999    | 50.212   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 144954   | 48.857   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 225178   | 42.074   | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 149644   | 59.855   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 119043   | 49.681   | ug/l   | 100      |
| 46) Dibromomethane             | 7.66  | 93   | 74470    | 49.110   | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.90  | 83   | 142916   | 49.710   | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 140829   | 50.049   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 63879    | 1105.120 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 884141   | 256.878  | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 281272   | 50.782   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 144934   | 48.299   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 160604   | 47.395   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 114409   | 51.026   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 174649   | 51.879   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 192550   | 51.146   | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 666167   | 249.295  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 121155   | 51.696   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 122725   | 51.553   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 121195   | 48.958   | ug/l   | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 308088   | 49.286   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 115260   | 51.447   | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.25 | 91   | 519869   | 50.523   | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 398117   | 100.377  | ug/l   | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 195407   | 51.032   | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 321029   | 51.234   | ug/l   | 100      |
| 71) Bromoform                  | 10.86 | 173  | 96375    | 50.092   | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 513031   | 50.914   | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 160916   | 34.981   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 170768   | 49.131   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 141024m  | 45.107   | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 138537   | 50.147   | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 564487   | 50.497   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 338450   | 49.518   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 426673   | 51.447   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 43134    | 44.101   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 389392   | 49.713   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 421727   | 50.482   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 434854   | 51.148   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 499101   | 50.727   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 448928   | 50.948   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 240342   | 49.176   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 240505   | 48.051   | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.38 | 91   | 364074   | 48.770   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 73977    | 50.214   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 240517   | 49.537   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 36384    | 50.088   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 165447   | 48.506   | ug/l   | 100      |

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ALS Vial : 50 Sample Multiplier: 1

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 07 07:33:26 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 13.78 | 225  | 84637    | 47.462 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 510437   | 51.938 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 168159   | 49.491 | ug/l  | 99       |

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

