

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX031219\  
 Data File : VX008032.D  
 Acq On : 12 Mar 2019 22:20  
 Operator : JC/SP  
 Sample : K1828-09MS  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CPA-CPMW05D-M20W2-030619MS

Manual Integrations  
 APPROVED

MMDadoda  
 3/13/2019 10:14:04 AM

Quant Time: Mar 13 06:53:54 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  | 225379   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 328912   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 295117   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 146582   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 116331   | 48.93 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.86%  |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 103035   | 48.97 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.94%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 384763   | 49.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.60%  |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 135988   | 50.20 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.40% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 85552   | 44.430  | ug/l | 98     |
| 3) Chloromethane              | 1.33 | 50  | 116118  | 46.795  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.41 | 62  | 119256  | 48.368  | ug/l | 99     |
| 5) Bromomethane               | 1.64 | 94  | 59793   | 51.715  | ug/l | 99     |
| 6) Chloroethane               | 1.72 | 64  | 72714   | 44.393  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 151275  | 47.124  | ug/l | 99     |
| 8) Diethyl Ether              | 2.19 | 74  | 66905   | 48.130  | ug/l | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 89593   | 45.037  | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 148832  | 52.737  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.07 | 59  | 129674  | 243.887 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 90389   | 47.138  | ug/l | 100    |
| 13) Acrolein                  | 2.30 | 56  | 94532   | 313.778 | ug/l | 98     |
| 14) Allyl chloride            | 2.73 | 41  | 179798  | 44.622  | ug/l | 99     |
| 15) Acrylonitrile             | 3.15 | 53  | 316460  | 235.803 | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 261515  | 190.036 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.57 | 76  | 265539  | 45.561  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 131033  | 44.820  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 323677  | 49.065  | ug/l | 100    |
| 20) Methylene Chloride        | 2.86 | 84  | 104033  | 47.501  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 97342   | 46.135  | ug/l | 98     |
| 22) Diisopropyl ether         | 3.87 | 45  | 349988  | 47.384  | ug/l | 98     |
| 23) Vinyl Acetate             | 3.82 | 43  | 1303734 | 201.281 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 189833  | 47.758  | ug/l | 100    |
| 25) 2-Butanone                | 4.70 | 43  | 435885  | 223.732 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 111772  | 42.444  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 115114  | 47.679  | ug/l | 97     |
| 28) Bromochloromethane        | 5.02 | 49  | 90603   | 48.892  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 292516  | 240.705 | ug/l | 99     |
| 30) Chloroform                | 5.21 | 83  | 183650  | 48.843  | ug/l | 99     |
| 31) Cyclohexane               | 5.57 | 56  | 165939  | 45.423  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 154848  | 49.636  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 137744  | 46.250  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.85 | 43  | 146355  | 41.410  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 135714  | 47.999  | ug/l | 99     |

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 3/13/2019 10:14:04 AM

Quant Time: Mar 13 06:53:54 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   | 164224   | 45.507  | ug/l   | 99       |
| 40) Benzene                    | 6.14  | 78   | 428582   | 48.338  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.06  | 41   | 93717    | 48.637  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 139287   | 48.037  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.46  | 43   | 234884   | 44.906  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 118605   | 48.541  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 114965   | 49.093  | ug/l   | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 71835    | 48.472  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 137004   | 48.760  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 134334   | 48.848  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.75  | 88   | 56244    | 995.620 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 828930   | 246.427 | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 267235   | 49.368  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 147043   | 50.139  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 162129   | 48.956  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 110923   | 50.620  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 167091   | 50.786  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 182222   | 49.526  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 617148   | 236.312 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.59  | 129  | 114273   | 49.892  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 116395   | 50.029  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 115339   | 47.162  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 295152   | 47.794  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 108821   | 49.167  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 496685   | 48.860  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 382262   | 97.557  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 184419   | 48.750  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 301777   | 48.750  | ug/l   | 99       |
| 71) Bromoform                  | 10.86 | 173  | 91003    | 47.878  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 494085   | 49.839  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.90 | 43   | 184355   | 40.734  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 161215   | 47.145  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 155044m  | 50.406  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 131937   | 48.543  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 545649   | 49.614  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 327003   | 48.629  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 410269   | 50.282  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 46074    | 47.880  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 373683   | 48.492  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 410903   | 49.995  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 421059   | 50.339  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 481987   | 49.793  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 436878   | 50.395  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 231518   | 48.148  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 231664   | 47.045  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.38 | 91   | 360411   | 49.072  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 70815    | 48.857  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 229325   | 48.008  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 33421    | 46.765  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 160798   | 47.918  | ug/l   | 100      |

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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  | 86228    | 49.148 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 484312   | 50.090 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 162874   | 48.723 | ug/l  | 100      |

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

