

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050619\  
 Data File : VX009340.D  
 Acq On : 06 May 2019 11:11  
 Operator : JC/SP  
 Sample : VX0506WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0506WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 5/7/2019 9:41:50 AM

Quant Time: May 07 06:51:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 04 07:18:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 183536   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 286548   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 259653   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 126535   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 122638   | 48.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.90%  |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 91668    | 50.89 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.78% |      |
| 50) Toluene-d8            | 8.71   | 98  | 375106   | 51.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.16% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 134687   | 50.97 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.94% |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 29769  | 17.601 | ug/l | 100    |
| 3) Chloromethane              | 1.32 | 50  | 39903  | 17.281 | ug/l | 99     |
| 4) Vinyl Chloride             | 1.40 | 62  | 39597  | 17.586 | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 23173  | 17.147 | ug/l | 96     |
| 6) Chloroethane               | 1.72 | 64  | 25359  | 17.542 | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 51217  | 18.713 | ug/l | 99     |
| 8) Diethyl Ether              | 2.18 | 74  | 23781  | 18.343 | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 32730  | 19.043 | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 30920  | 18.655 | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.04 | 59  | 47738  | 82.313 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 32171  | 18.681 | ug/l | 93     |
| 13) Acrolein                  | 2.29 | 56  | 30139  | 57.383 | ug/l | 95     |
| 14) Allyl chloride            | 2.73 | 41  | 72913  | 17.374 | ug/l | 98     |
| 15) Acrylonitrile             | 3.14 | 53  | 124290 | 87.649 | ug/l | 99     |
| 16) Acetone                   | 2.44 | 43  | 116852 | 86.856 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.57 | 76  | 81682  | 16.894 | ug/l | 99     |
| 18) Methyl Acetate            | 2.77 | 43  | 55384  | 17.310 | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73  | 123184 | 18.420 | ug/l | 97     |
| 20) Methylene Chloride        | 2.85 | 84  | 37802  | 17.354 | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 33622  | 18.003 | ug/l | 97     |
| 22) Diisopropyl ether         | 3.85 | 45  | 149889 | 18.572 | ug/l | 92     |
| 23) Vinyl Acetate             | 3.81 | 43  | 639049 | 92.466 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 71503  | 17.959 | ug/l | 99     |
| 25) 2-Butanone                | 4.67 | 43  | 183149 | 87.605 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.57 | 77  | 54741  | 18.471 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 40741  | 18.276 | ug/l | 98     |
| 28) Bromochloromethane        | 5.01 | 49  | 30034  | 16.926 | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.12 | 42  | 118031 | 87.735 | ug/l | 100    |
| 30) Chloroform                | 5.21 | 83  | 65765  | 18.263 | ug/l | 99     |
| 31) Cyclohexane               | 5.57 | 56  | 68126  | 18.391 | ug/l | 93     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 54155  | 18.066 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 49333  | 18.526 | ug/l | 99     |
| 37) Ethyl Acetate             | 4.82 | 43  | 66693  | 17.975 | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 45988  | 19.008 | ug/l | 99     |

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 Quant Title : SW846 8260  
 QLast Update : Sat May 04 07:18:36 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 62019    | 18.964  | ug/l  | 97       |
| 40) Benzene                    | 6.13  | 78   | 154355   | 18.729  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.03  | 41   | 39125    | 17.715  | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 56057    | 18.962  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.44  | 43   | 109468   | 18.445  | ug/l  | 100      |
| 44) Trichloroethene            | 7.21  | 130  | 37039    | 18.591  | ug/l  | 97       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 43793    | 18.766  | ug/l  | 99       |
| 46) Dibromomethane             | 7.66  | 93   | 24936    | 18.401  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.89  | 83   | 50981    | 18.860  | ug/l  | 94       |
| 48) Methyl methacrylate        | 7.76  | 41   | 53196    | 18.067  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 19793    | 331.478 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 351956   | 90.732  | ug/l  | 100      |
| 52) Toluene                    | 8.78  | 92   | 94766    | 18.917  | ug/l  | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 57765    | 18.928  | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 64170    | 18.997  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 38725    | 18.948  | ug/l  | 95       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 67375    | 18.468  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 68198    | 18.962  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 179505   | 92.748  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 273883   | 89.899  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.58  | 129  | 37869    | 18.971  | ug/l  | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 39615    | 19.202  | ug/l  | 97       |
| 64) Tetrachloroethene          | 9.34  | 164  | 35677    | 20.031  | ug/l  | 93       |
| 65) Chlorobenzene              | 10.13 | 112  | 96990    | 18.673  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 35628    | 18.920  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 178544   | 18.677  | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.35 | 106  | 132593   | 37.956  | ug/l  | 99       |
| 69) o-Xylene                   | 10.69 | 106  | 63048    | 18.293  | ug/l  | 97       |
| 70) Styrene                    | 10.71 | 104  | 111971   | 18.691  | ug/l  | 98       |
| 71) Bromoform                  | 10.85 | 173  | 27990    | 18.290  | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 173320   | 18.836  | ug/l  | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 95096    | 17.727  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 62156    | 18.120  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 54808m   | 18.673  | ug/l  |          |
| 77) Bromobenzene               | 11.25 | 156  | 42310    | 18.526  | ug/l  | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 200548   | 19.084  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 119822   | 18.482  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 149132   | 19.249  | ug/l  | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 20391    | 17.775  | ug/l  | 99       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 135799   | 18.541  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 142511   | 18.908  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 149514   | 19.226  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 172264   | 19.279  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 158303   | 19.707  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 76466    | 18.781  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 76998    | 18.759  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 140487   | 19.349  | ug/l  | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 25477    | 18.616  | ug/l  | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 76304    | 18.400  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 13857    | 18.008  | ug/l  | 97       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 56278    | 19.846 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 27926    | 19.284 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 178276   | 19.323 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 57389    | 19.965 | ug/l  | 99       |

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

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