

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX041219\  
 Data File : VX008877.D  
 Acq On : 12 Apr 2019 11:37  
 Operator : JC/SP  
 Sample : VX0412WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0412WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/13/2019 2:11:26 PM

Quant Time: Apr 13 05:16:37 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M

Quant Title : SW846 8260

QLast Update : Thu Apr 04 04:47:41 2019

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 158089   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 257022   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 226230   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 107021   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 107968   | 46.82 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.64%  |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 80088    | 48.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.48%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 322944   | 49.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.72%  |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 117380   | 50.59 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.18% |      |

#### Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 41804  | 22.973  | ug/l | 100    |
| 3) Chloromethane              | 1.32 | 50  | 51977  | 22.373  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.41 | 62  | 46775  | 19.015  | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 27477  | 23.705  | ug/l | 100    |
| 6) Chloroethane               | 1.72 | 64  | 27813  | 18.814  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 51754  | 19.032  | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 23804  | 18.459  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 32830  | 18.752  | ug/l | 97     |
| 10) Methyl Iodide             | 2.51 | 142 | 35012  | 24.203  | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.04 | 59  | 54607  | 101.158 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 34217  | 18.722  | ug/l | 99     |
| 13) Acrolein                  | 2.29 | 56  | 25180  | 94.070  | ug/l | 98     |
| 14) Allyl chloride            | 2.73 | 41  | 79796  | 19.072  | ug/l | 99     |
| 15) Acrylonitrile             | 3.14 | 53  | 135873 | 95.011  | ug/l | 100    |
| 16) Acetone                   | 2.44 | 43  | 121163 | 91.231  | ug/l | 99     |
| 17) Carbon Disulfide          | 2.57 | 76  | 100034 | 18.488  | ug/l | 98     |
| 18) Methyl Acetate            | 2.78 | 43  | 59668  | 18.525  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 126461 | 19.375  | ug/l | 98     |
| 20) Methylene Chloride        | 2.86 | 84  | 41224  | 18.544  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 36068  | 18.245  | ug/l | 94     |
| 22) Diisopropyl ether         | 3.85 | 45  | 156192 | 19.369  | ug/l | 90     |
| 23) Vinyl Acetate             | 3.81 | 43  | 691198 | 98.527  | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 76066  | 19.051  | ug/l | 99     |
| 25) 2-Butanone                | 4.68 | 43  | 201519 | 96.004  | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 54206  | 19.276  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 41951  | 18.457  | ug/l | 99     |
| 28) Bromochloromethane        | 5.01 | 49  | 38093  | 21.090  | ug/l | 100    |
| 29) Tetrahydrofuran           | 5.13 | 42  | 133655 | 95.933  | ug/l | 99     |
| 30) Chloroform                | 5.21 | 83  | 67201  | 18.844  | ug/l | 99     |
| 31) Cyclohexane               | 5.58 | 56  | 74929  | 18.808  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 55301  | 19.190  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 51981  | 18.502  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.83 | 43  | 75085  | 20.022  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 44733  | 19.237  | ug/l | 98     |

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 Sample : VX0412WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0412WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 4/13/2019 2:11:26 PM

Quant Time: Apr 13 05:16:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 04 04:47:41 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 66099    | 19.045  | ug/l   | 96       |
| 40) Benzene                    | 6.15  | 78   | 163200   | 19.499  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.04  | 41   | 42204    | 19.579  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 58179    | 19.389  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.45  | 43   | 116836   | 19.889  | ug/l   | 100      |
| 44) Trichloroethene            | 7.21  | 130  | 37537    | 19.256  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 46270    | 19.368  | ug/l   | 97       |
| 46) Dibromomethane             | 7.66  | 93   | 25841    | 18.650  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 50950    | 19.503  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.77  | 41   | 59943    | 20.172  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 22911    | 411.570 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 391906   | 103.633 | ug/l   | 100      |
| 52) Toluene                    | 8.78  | 92   | 99092    | 20.082  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 58161    | 19.875  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 64153    | 19.185  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 38395    | 19.384  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 72252    | 20.161  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 69020    | 19.406  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 174462   | 95.337  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 306378   | 104.249 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.58  | 129  | 36194    | 19.392  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 39699    | 19.253  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 35308    | 21.065  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 98967    | 19.735  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 35089    | 19.945  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 186807   | 19.977  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 134947   | 40.137  | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 65487    | 20.098  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 113960   | 20.290  | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 26955    | 20.061  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.02 | 105  | 175480   | 19.785  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 104417   | 20.011  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 64523    | 19.129  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 56091m   | 19.079  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 42699    | 20.026  | ug/l   | 96       |
| 78) n-propylbenzene            | 11.36 | 91   | 200924   | 19.456  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 121488   | 19.440  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 146148   | 19.631  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 20382    | 19.110  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 137557   | 19.016  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 139039   | 19.412  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 149692   | 19.857  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 167355   | 19.671  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 153388   | 20.087  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 75372    | 19.746  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 73470    | 19.008  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 138687   | 19.366  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 23597    | 18.631  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 74753    | 19.725  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 14315    | 19.292  | ug/l   | 100      |

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Sample : VX0412WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0412WBS01

Manual Integrations  
APPROVED

MMDadoda  
4/13/2019 2:11:26 PM

Quant Time: Apr 13 05:16:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 04 04:47:41 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 52670    | 19.988 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 26505    | 20.974 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 173233   | 19.670 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 52209    | 19.831 | ug/l  | 99       |

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

