

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052119\  
 Data File : VX009749.D  
 Acq On : 21 May 2019 15:47  
 Operator : JC/SP  
 Sample : VX0521WBS02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0521WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 5/22/2019 9:40:44 AM

Quant Time: May 22 07:52:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 169304   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 268880   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 241543   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 114844   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 102118   | 44.18 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 88.36% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 76144    | 45.05 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.10% |      |
| 50) Toluene-d8            | 8.71   | 98  | 296760   | 43.49 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 86.98% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 108622   | 43.81 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 87.62% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 28256  | 18.111  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 42866  | 20.125  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.41 | 62  | 40697  | 19.594  | ug/l | 96     |
| 5) Bromomethane               | 1.64 | 94  | 25800  | 20.695  | ug/l | 99     |
| 6) Chloroethane               | 1.72 | 64  | 25415  | 19.058  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 49160  | 19.471  | ug/l | 99     |
| 8) Diethyl Ether              | 2.19 | 74  | 22356  | 18.693  | ug/l | 92     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 30099  | 18.984  | ug/l | 99     |
| 10) Methyl Iodide             | 2.51 | 142 | 31803  | 20.272  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.04 | 59  | 50148  | 93.737  | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 30937  | 19.475  | ug/l | 99     |
| 13) Acrolein                  | 2.29 | 56  | 35224  | 72.702  | ug/l | 98     |
| 14) Allyl chloride            | 2.73 | 41  | 72667  | 18.771  | ug/l | 99     |
| 15) Acrylonitrile             | 3.14 | 53  | 125435 | 95.892  | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 125553 | 101.169 | ug/l | 98     |
| 17) Carbon Disulfide          | 2.57 | 76  | 88716  | 19.892  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 53091  | 17.988  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 114274 | 18.525  | ug/l | 99     |
| 20) Methylene Chloride        | 2.85 | 84  | 37474  | 18.649  | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 32921  | 19.109  | ug/l | 97     |
| 22) Diisopropyl ether         | 3.85 | 45  | 143415 | 19.263  | ug/l | 90     |
| 23) Vinyl Acetate             | 3.82 | 43  | 639281 | 100.275 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 68881  | 18.755  | ug/l | 99     |
| 25) 2-Butanone                | 4.68 | 43  | 193260 | 100.212 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 51287  | 18.761  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 38430  | 18.688  | ug/l | 99     |
| 28) Bromochloromethane        | 5.02 | 49  | 33535  | 21.098  | ug/l | 97     |
| 29) Tetrahydrofuran           | 5.13 | 42  | 124477 | 100.305 | ug/l | 98     |
| 30) Chloroform                | 5.21 | 83  | 62797  | 18.905  | ug/l | 98     |
| 31) Cyclohexane               | 5.58 | 56  | 68362  | 20.007  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 52061  | 18.827  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 47170  | 18.878  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.84 | 43  | 70252  | 20.179  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 43116  | 18.992  | ug/l | 99     |

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 Operator : JC/SP  
 Sample : VX0521WBS02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0521WBS02

Manual Integrations  
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MMDadoda  
 5/22/2019 9:40:44 AM

Quant Time: May 22 07:52:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 60353    | 19.667  | ug/l   | 99       |
| 40) Benzene                    | 6.14  | 78   | 150960   | 19.521  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.04  | 41   | 39375    | 19.000  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 54921    | 19.798  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.45  | 43   | 109482   | 19.660  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 34774    | 18.601  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 42600    | 19.455  | ug/l   | 96       |
| 46) Dibromomethane             | 7.66  | 93   | 24234    | 19.058  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.90  | 83   | 47964    | 18.910  | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.77  | 41   | 54433    | 19.702  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 20632    | 368.233 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 367160   | 100.871 | ug/l   | 98       |
| 52) Toluene                    | 8.79  | 92   | 92205    | 19.615  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 54611    | 19.070  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 60498    | 19.086  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 36432    | 18.997  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 65616    | 19.167  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 65111    | 19.293  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 159577   | 87.869  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 286632   | 100.266 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.58  | 129  | 35569    | 18.990  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 36783    | 19.001  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 31722    | 19.146  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.13 | 112  | 93432    | 19.336  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 32820    | 18.735  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 171527   | 19.289  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 125888   | 38.739  | ug/l   | 98       |
| 69) o-Xylene                   | 10.70 | 106  | 60628    | 18.909  | ug/l   | 96       |
| 70) Styrene                    | 10.71 | 104  | 105449   | 18.922  | ug/l   | 99       |
| 71) Bromoform                  | 10.85 | 173  | 26439    | 18.572  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 161744   | 19.367  | ug/l   | 98       |
| 74) N-amyl acetate             | 10.90 | 43   | 96919    | 19.906  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 61576    | 19.779  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 53526m   | 20.093  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 40328    | 19.455  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.36 | 91   | 185579   | 19.458  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 113444   | 19.279  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 138017   | 19.627  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 19437    | 18.669  | ug/l   | 90       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 128625   | 19.349  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 132015   | 19.299  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 137554   | 19.489  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 155901   | 19.223  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 140522   | 19.274  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 70265    | 19.015  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 70205    | 18.845  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.38 | 91   | 126941   | 19.264  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 23271    | 18.735  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 72344    | 19.221  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 13402    | 19.190  | ug/l   | 98       |

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Sample : VX0521WBS02  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0521WBS02

Manual Integrations  
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MMDadoda  
5/22/2019 9:40:44 AM

Quant Time: May 22 07:52:18 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 49517    | 19.239 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 25525    | 19.421 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 155448   | 18.564 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 49377    | 18.926 | ug/l  | 99       |

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

