

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\  
 Data File : VX002298.D  
 Acq On : 05 Jun 2018 11:50  
 Operator : JC/MD  
 Sample : VX0605WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0605WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 6/6/2018 4:10:41 PM

Quant Time: Jun 06 04:56:21 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 281294   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 401952   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 381684   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 239692   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 192041   | 47.57 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.14% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 141921   | 44.90 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.80% |      |
| 50) Toluene-d8            | 8.72   | 98  | 570642   | 47.10 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.20% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 210990   | 45.16 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.32% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 63142   | 21.593  | ug/l | 99     |
| 3) Chloromethane              | 1.32 | 50  | 74003   | 20.386  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.41 | 62  | 77492   | 21.027  | ug/l | 98     |
| 5) Bromomethane               | 1.64 | 94  | 49193   | 21.698  | ug/l | 97     |
| 6) Chloroethane               | 1.73 | 64  | 47740   | 20.026  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 125644  | 22.376  | ug/l | 98     |
| 8) Diethyl Ether              | 2.19 | 74  | 44273   | 20.788  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 72638   | 23.972  | ug/l | 98     |
| 10) Methyl Iodide             | 2.51 | 142 | 66876   | 15.691  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.06 | 59  | 85819   | 91.556  | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 2.38 | 96  | 63481   | 21.199  | ug/l | 96     |
| 13) Acrolein                  | 2.29 | 56  | 42143   | 99.648  | ug/l | 97     |
| 14) Allyl chloride            | 2.73 | 41  | 124748  | 19.196  | ug/l | 98     |
| 15) Acrylonitrile             | 3.15 | 53  | 181148  | 100.000 | ug/l | 100    |
| 16) Acetone                   | 2.45 | 43  | 195450  | 101.598 | ug/l | 100    |
| 17) Carbon Disulfide          | 2.57 | 76  | 149270  | 18.913  | ug/l | 99     |
| 18) Methyl Acetate            | 2.78 | 43  | 87802   | 20.178  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73  | 228226  | 20.474  | ug/l | 100    |
| 20) Methylene Chloride        | 2.86 | 84  | 70647   | 20.586  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 66907   | 20.261  | ug/l | 93     |
| 22) Diisopropyl ether         | 3.87 | 45  | 243979  | 21.629  | ug/l | 96     |
| 23) Vinyl Acetate             | 3.82 | 43  | 1052469 | 99.902  | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 129602  | 20.178  | ug/l | 99     |
| 25) 2-Butanone                | 4.70 | 43  | 245086  | 88.861  | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 92187   | 18.361  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 66448   | 18.502  | ug/l | 97     |
| 28) Bromochloromethane        | 5.03 | 49  | 57245   | 18.729  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.17 | 42  | 153188  | 86.146  | ug/l | 99     |
| 30) Chloroform                | 5.22 | 83  | 116377  | 18.777  | ug/l | 98     |
| 31) Cyclohexane               | 5.58 | 56  | 107591  | 21.183  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 102614  | 19.522  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75  | 85335   | 20.194  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.86 | 43  | 94214   | 18.539  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 89061   | 20.146  | ug/l | 98     |

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 Operator : JC/MD  
 Sample : VX0605WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0605WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 6/6/2018 4:10:41 PM

Quant Time: Jun 06 04:56:21 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 110291   | 21.278  | ug/l   | 98       |
| 40) Benzene                    | 6.15  | 78   | 260180   | 20.081  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.06  | 41   | 53664    | 18.447  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 101121   | 19.644  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.46  | 43   | 157636   | 18.263  | ug/l   | 100      |
| 44) Trichloroethene            | 7.21  | 130  | 74659    | 20.762  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 68934    | 19.708  | ug/l   | 95       |
| 46) Dibromomethane             | 7.67  | 93   | 44690    | 18.847  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 79958    | 18.645  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.78  | 41   | 80446    | 18.554  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 30495    | 376.168 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 502993   | 93.576  | ug/l   | 100      |
| 52) Toluene                    | 8.79  | 92   | 168486   | 20.446  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 96635    | 18.790  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.04  | 75   | 90536    | 18.659  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 66464    | 19.610  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 100541   | 18.580  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 111335   | 19.581  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 243136   | 97.081  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.50  | 43   | 388000   | 93.452  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.59  | 129  | 62695    | 18.391  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 69762    | 19.741  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.34  | 164  | 85234    | 21.653  | ug/l   | 97       |
| 65) Chlorobenzene              | 10.14 | 112  | 192502   | 20.269  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 66352    | 19.295  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 333005   | 20.952  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.37 | 106  | 256140   | 41.457  | ug/l   | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 125045   | 20.338  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 204069   | 20.303  | ug/l   | 100      |
| 71) Bromoform                  | 10.86 | 173  | 46249    | 17.436  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 341658   | 20.490  | ug/l   | 100      |
| 74) N-amyl acetate             | 6.46  | 43   | 157636   | 17.545  | ug/l # | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 94355    | 17.992  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 85239m   | 16.207  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 90194    | 19.268  | ug/l   | 100      |
| 78) n-propylbenzene            | 11.37 | 91   | 393907   | 21.254  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.43 | 91   | 228027   | 19.486  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 290277   | 20.297  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 23836    | 15.886  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 11.52 | 91   | 271476   | 20.098  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.77 | 119  | 282750   | 20.303  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 300481   | 20.410  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.95 | 105  | 357012   | 21.867  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 318131   | 21.392  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 166469   | 19.889  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 167811   | 19.451  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.40 | 91   | 275196   | 22.064  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.60 | 117  | 43244    | 18.216  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 170031   | 19.634  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 19541    | 17.039  | ug/l   | 97       |

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Operator : JC/MD  
Sample : VX0605WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0605WBS01

Manual Integrations  
APPROVED

MMDadoda  
6/6/2018 4:10:41 PM

Quant Time: Jun 06 04:56:21 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 122801   | 20.223 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 67651    | 22.546 | ug/l  | 99       |
| 95) Naphthalene            | 13.84 | 128  | 337804   | 19.362 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 125771   | 20.309 | ug/l  | 99       |

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

