

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052019\  
 Data File : VX009731.D  
 Acq On : 20 May 2019 17:13  
 Operator : JC/SP  
 Sample : VX0520WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0520WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 5/21/2019 9:13:35 AM

Quant Time: May 21 08:30:32 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  | 149265   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 239028   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 219096   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 107326   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65   | 96833    | 47.52 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 95.04% |          |
| 35) Dibromofluoromethane    | 5.50   | 113  | 70293    | 46.78 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 93.56% |          |
| 50) Toluene-d8              | 8.71   | 98   | 278541   | 45.91 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 91.82% |          |
| 62) 4-Bromofluorobenzene    | 11.13  | 95   | 102470   | 46.49 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 92.98% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 23885    | 17.365  | ug/l  | 98     |
| 3) Chloromethane              | 1.32 | 50   | 38115    | 20.296  | ug/l  | 98     |
| 4) Vinyl Chloride             | 1.41 | 62   | 37752    | 20.616  | ug/l  | 100    |
| 5) Bromomethane               | 1.64 | 94   | 22705    | 20.658  | ug/l  | 99     |
| 6) Chloroethane               | 1.72 | 64   | 24058    | 20.463  | ug/l  | 97     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 47614    | 21.391  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.19 | 74   | 23275    | 22.075  | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101  | 29591    | 21.170  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.51 | 142  | 30576    | 21.691  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.05 | 59   | 57052    | 120.959 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 29077    | 20.761  | ug/l  | 96     |
| 13) Acrolein                  | 2.29 | 56   | 38001    | 88.963  | ug/l  | 99     |
| 14) Allyl chloride            | 2.73 | 41   | 72403    | 21.213  | ug/l  | 99     |
| 15) Acrylonitrile             | 3.14 | 53   | 132932   | 115.267 | ug/l  | 98     |
| 16) Acetone                   | 2.45 | 43   | 119624   | 109.332 | ug/l  | 99     |
| 17) Carbon Disulfide          | 2.57 | 76   | 72920    | 18.545  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.78 | 43   | 60607    | 23.292  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73   | 121951   | 22.423  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.85 | 84   | 37392    | 21.107  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 31432    | 20.694  | ug/l  | 98     |
| 22) Diisopropyl ether         | 3.85 | 45   | 148886   | 22.683  | ug/l  | 91     |
| 23) Vinyl Acetate             | 3.82 | 43   | 656020   | 116.716 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 70156    | 21.666  | ug/l  | 98     |
| 25) 2-Butanone                | 4.67 | 43   | 201504   | 118.514 | ug/l  | 96     |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 47874    | 19.863  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96   | 39103    | 21.569  | ug/l  | 100    |
| 28) Bromochloromethane        | 5.01 | 49   | 29850    | 21.329  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 5.13 | 42   | 131884   | 120.540 | ug/l  | 99     |
| 30) Chloroform                | 5.21 | 83   | 64852    | 22.145  | ug/l  | 95     |
| 31) Cyclohexane               | 5.58 | 56   | 61372    | 20.372  | ug/l  | 96     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 53946    | 22.128  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.80 | 75   | 46245    | 20.819  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.84 | 43   | 72598    | 23.457  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 5.79 | 117  | 42790    | 21.202  | ug/l  | 98     |

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 Operator : JC/SP  
 Sample : VX0520WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0520WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 5/21/2019 9:13:35 AM

Quant Time: May 21 08:30:32 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   | 54750    | 20.070  | ug/l   | 98       |
| 40) Benzene                    | 6.14  | 78   | 148790   | 21.643  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.04  | 41   | 41380    | 22.461  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 56360    | 22.855  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.45  | 43   | 114359   | 23.100  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 35533    | 21.380  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 43869    | 22.536  | ug/l   | 98       |
| 46) Dibromomethane             | 7.66  | 93   | 24489    | 21.664  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.90  | 83   | 50358    | 22.333  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.77  | 41   | 58246    | 23.715  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 23311    | 468.007 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 396153   | 122.429 | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 90923    | 21.758  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 54908    | 21.568  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 61702    | 21.897  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 38968    | 22.857  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 69372    | 22.795  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 67728    | 22.575  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 141270   | 87.503  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.49  | 43   | 306101   | 120.449 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.58  | 129  | 37322    | 22.414  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 38697    | 22.486  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 31813    | 21.168  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 96259    | 21.962  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 34623    | 21.789  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.25 | 91   | 173809   | 21.548  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 125596   | 42.609  | ug/l   | 97       |
| 69) o-Xylene                   | 10.69 | 106  | 62487    | 21.486  | ug/l   | 100      |
| 70) Styrene                    | 10.71 | 104  | 108976   | 21.559  | ug/l   | 98       |
| 71) Bromoform                  | 10.85 | 173  | 27401    | 21.220  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.02 | 105  | 165856   | 21.251  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.90 | 43   | 101579   | 22.324  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 65118    | 22.382  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 56498m   | 22.694  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 42137    | 21.752  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.36 | 91   | 188601   | 21.160  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 116261   | 21.142  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 140467   | 21.375  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 20067    | 20.624  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 132680   | 21.357  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 136065   | 21.284  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 142287   | 21.571  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 161302   | 21.283  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 144043   | 21.141  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 73330    | 21.235  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 72828    | 20.918  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.38 | 91   | 127134   | 20.644  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 24162    | 20.815  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 74834    | 21.276  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 14864    | 22.774  | ug/l   | 97       |

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Acq On : 20 May 2019 17:13  
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Sample : VX0520WBSD01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0520WBSD01

Manual Integrations  
APPROVED

MMDadoda  
5/21/2019 9:13:35 AM

Quant Time: May 21 08:30:32 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  | 51894    | 21.575 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 26325    | 21.432 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 169533   | 21.664 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 52083    | 21.362 | ug/l  | 98       |

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

