

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092419\  
 Data File : VX012623.D  
 Acq On : 24 Sep 2019 11:26  
 Operator : JC/SP  
 Sample : VX0924WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0924WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/25/2019 9:29:47 AM

Quant Time: Sep 25 05:15:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 183759   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 333733   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 294315   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 126686   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 133396   | 49.85 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.70% |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 97564    | 49.09 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.18% |      |
| 50) Toluene-d8            | 8.71   | 98  | 367711   | 48.04 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.08% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 139403   | 46.32 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.64% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 37060  | 17.927  | ug/l   | 100    |
| 3) Chloromethane              | 1.32 | 50  | 44269  | 18.649  | ug/l   | 96     |
| 4) Vinyl Chloride             | 1.40 | 62  | 43541  | 18.454  | ug/l   | 97     |
| 5) Bromomethane               | 1.63 | 94  | 21358  | 23.023  | ug/l   | 99     |
| 6) Chloroethane               | 1.72 | 64  | 27952  | 17.573  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 61779  | 18.649  | ug/l   | 95     |
| 8) Diethyl Ether              | 2.18 | 74  | 24147  | 17.787  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 37969  | 18.818  | ug/l   | 96     |
| 10) Methyl Iodide             | 2.50 | 142 | 33338  | 19.083  | ug/l   | 95     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 67648  | 101.201 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 37463  | 18.962  | ug/l   | 92     |
| 13) Acrolein                  | 2.28 | 56  | 29656  | 86.614  | ug/l   | 97     |
| 14) Allyl chloride            | 2.72 | 41  | 73717  | 18.806  | ug/l   | 98     |
| 15) Acrylonitrile             | 3.14 | 53  | 131958 | 97.303  | ug/l   | 99     |
| 16) Acetone                   | 2.44 | 43  | 137643 | 97.112  | ug/l   | 99     |
| 17) Carbon Disulfide          | 2.56 | 76  | 95848  | 17.305  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.76 | 43  | 63705  | 19.088  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73  | 142897 | 19.108  | ug/l   | 97     |
| 20) Methylene Chloride        | 2.85 | 84  | 43026  | 17.948  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 40140  | 18.338  | ug/l   | 95     |
| 22) Diisopropyl ether         | 3.84 | 45  | 145233 | 19.175  | ug/l # | 88     |
| 23) Vinyl Acetate             | 3.81 | 43  | 637241 | 95.938  | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 77598  | 18.847  | ug/l   | 98     |
| 25) 2-Butanone                | 4.66 | 43  | 196266 | 96.574  | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 4.57 | 77  | 67139  | 18.335  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 47239  | 18.600  | ug/l   | 96     |
| 28) Bromochloromethane        | 5.01 | 49  | 29567  | 19.778  | ug/l   | 100    |
| 29) Tetrahydrofuran           | 5.12 | 42  | 120586 | 97.350  | ug/l   | 99     |
| 30) Chloroform                | 5.20 | 83  | 79462  | 18.865  | ug/l   | 95     |
| 31) Cyclohexane               | 5.57 | 56  | 70403  | 18.902  | ug/l   | 93     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 70149  | 18.791  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 57615  | 17.911  | ug/l   | 99     |
| 37) Ethyl Acetate             | 4.83 | 43  | 70207  | 18.668  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 58961  | 18.043  | ug/l   | 99     |

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 Sample : VX0924WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0924WBS01

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 9/25/2019 9:29:47 AM

Quant Time: Sep 25 05:15:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 68635    | 17.723  | ug/l   | 95       |
| 40) Benzene                    | 6.14  | 78   | 173704   | 18.353  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.03  | 41   | 38946    | 18.457  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 67814    | 18.868  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.43  | 43   | 114828   | 18.258  | ug/l   | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 43724    | 18.070  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 44810    | 18.492  | ug/l   | 94       |
| 46) Dibromomethane             | 7.65  | 93   | 29704    | 18.004  | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.89  | 83   | 58089    | 17.616  | ug/l   | 95       |
| 48) Methyl methacrylate        | 7.76  | 41   | 54784    | 18.166  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 25849    | 377.906 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 359909   | 92.706  | ug/l   | 97       |
| 52) Toluene                    | 8.78  | 92   | 108890   | 18.305  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 64565    | 17.697  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 70395    | 17.672  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 43640    | 18.452  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 71098    | 17.894  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 77121    | 18.632  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 173571   | 97.321  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.49  | 43   | 279522   | 94.064  | ug/l   | 96       |
| 60) Dibromochloromethane       | 9.57  | 129  | 42777    | 17.868  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 45008    | 18.286  | ug/l   | 97       |
| 64) Tetrachloroethene          | 9.33  | 164  | 39065    | 19.037  | ug/l   | 94       |
| 65) Chlorobenzene              | 10.14 | 112  | 110840   | 17.884  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 41312    | 18.397  | ug/l   | 97       |
| 67) Ethyl Benzene              | 10.25 | 91   | 205260   | 18.260  | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.35 | 106  | 152989   | 36.332  | ug/l   | 98       |
| 69) o-Xylene                   | 10.70 | 106  | 73825    | 18.119  | ug/l   | 97       |
| 70) Styrene                    | 10.71 | 104  | 125946   | 18.438  | ug/l   | 100      |
| 71) Bromoform                  | 10.85 | 173  | 28029    | 17.926  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.01 | 105  | 200143   | 19.397  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 91302    | 18.548  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 68830    | 20.142  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 64661m   | 19.295  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 44609    | 19.102  | ug/l   | 96       |
| 78) n-propylbenzene            | 11.35 | 91   | 219133   | 18.864  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 135744   | 18.732  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 166831   | 19.281  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 20602    | 17.618  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 157387   | 19.052  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 157448   | 18.864  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 169662   | 19.437  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 187047   | 19.267  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 168754   | 19.265  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 79283    | 18.865  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 78288    | 18.435  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 140983   | 18.264  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 28247    | 18.087  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 80093    | 19.036  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 16612    | 19.434  | ug/l   | 94       |

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Sample : VX0924WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0924WBS01

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9/25/2019 9:29:47 AM

Quant Time: Sep 25 05:15:11 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 23 12:27:01 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 45883    | 17.882 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 21463    | 19.444 | ug/l  | 96       |
| 95) Naphthalene            | 13.83 | 128  | 178618   | 19.240 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 48082    | 18.707 | ug/l  | 99       |

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

