

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071918\  
 Data File : VX003474.D  
 Acq On : 19 Jul 2018 20:35  
 Operator : JC/SP  
 Sample : VX0719WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0719WBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/20/2018 5:22:13 PM

Quant Time: Jul 20 04:15:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 17:09:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 311238   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 446112   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 417655   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 248861   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 198943   | 54.00 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.00% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 176692   | 52.00 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.00% |      |
| 50) Toluene-d8              | 8.72   | 98  | 673601   | 52.74 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.48% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 240739   | 51.65 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.30% |      |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 53105    | 21.08  | ug/l   | 97     |
| 3) Chloromethane              | 1.32 | 50   | 69116    | 21.91  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.40 | 62   | 77742    | 19.66  | ug/l   | 99     |
| 5) Bromomethane               | 1.64 | 94   | 42904    | 26.09  | ug/l   | 100    |
| 6) Chloroethane               | 1.72 | 64   | 50254    | 21.48  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 1.93 | 101  | 108052   | 20.48  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.19 | 74   | 46113    | 20.35  | ug/l   | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101  | 67702    | 19.61  | ug/l   | 98     |
| 10) Methyl Iodide             | 2.51 | 142  | 73375    | 17.69  | ug/l   | 94     |
| 11) Tert butyl alcohol        | 3.07 | 59   | 83748    | 114.88 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 2.37 | 96   | 65014    | 20.45  | ug/l   | 89     |
| 13) Acrolein                  | 2.29 | 56   | 34114    | 103.57 | ug/l   | 99     |
| 14) Allyl chloride            | 2.73 | 41   | 120184   | 21.36  | ug/l   | 87     |
| 15) Acrylonitrile             | 3.15 | 53   | 200613   | 108.08 | ug/l   | 98     |
| 16) Acetone                   | 2.45 | 43   | 157745   | 113.35 | ug/l # | 89     |
| 17) Carbon Disulfide          | 2.57 | 76   | 176830   | 20.57  | ug/l   | 98     |
| 18) Methyl Acetate            | 2.78 | 43   | 98081    | 22.36  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 3.21 | 73   | 222153   | 21.40  | ug/l   | 99     |
| 20) Methylene Chloride        | 2.86 | 84   | 75782    | 21.78  | ug/l   | 89     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96   | 71048    | 20.09  | ug/l   | 89     |
| 22) Diisopropyl ether         | 3.87 | 45   | 223283   | 21.09  | ug/l   | 98     |
| 23) Vinyl Acetate             | 3.82 | 43   | 899388   | 103.11 | ug/l   | 96     |
| 24) 1,1-Dichloroethane        | 3.70 | 63   | 129525   | 20.85  | ug/l   | 99     |
| 25) 2-Butanone                | 4.71 | 43   | 251751   | 107.82 | ug/l   | 93     |
| 26) 2,2-Dichloropropane       | 4.59 | 77   | 87937    | 18.64  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96   | 78674    | 19.98  | ug/l   | 90     |
| 28) Bromochloromethane        | 5.03 | 49   | 60880    | 22.42  | ug/l   | 88     |
| 29) Tetrahydrofuran           | 5.17 | 42   | 163599   | 106.07 | ug/l   | 92     |
| 30) Chloroform                | 5.21 | 83   | 125654   | 20.71  | ug/l   | 99     |
| 31) Cyclohexane               | 5.57 | 56   | 110745   | 19.95  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 107812   | 20.75  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 5.81 | 75   | 93406    | 19.39  | ug/l   | 97     |
| 37) Ethyl Acetate             | 4.87 | 43   | 96085    | 21.08  | ug/l   | 95     |
| 38) Carbon Tetrachloride      | 5.78 | 117  | 93283    | 19.74  | ug/l   | 97     |

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 Sample : VX0719WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0719WBS01

Manual Integrations  
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MMDadoda  
 7/20/2018 5:22:13 PM

Quant Time: Jul 20 04:15:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 17:09:44 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 110426   | 19.36  | ug/l   | 96       |
| 40) Benzene                    | 6.15  | 78   | 294640   | 20.26  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.06  | 41   | 55375    | 20.67  | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 6.20  | 62   | 96461    | 21.05  | ug/l   | 95       |
| 43) Isopropyl Acetate          | 6.47  | 43   | 150998   | 20.83  | ug/l   | 94       |
| 44) Trichloroethene            | 7.21  | 130  | 85834    | 19.79  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 7.52  | 63   | 75186    | 20.36  | ug/l   | 99       |
| 46) Dibromomethane             | 7.67  | 93   | 49346    | 20.76  | ug/l   | 96       |
| 47) Bromodichloromethane       | 7.90  | 83   | 89512    | 20.57  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.78  | 41   | 76816    | 21.01  | ug/l   | 84       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 34780    | 419.83 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 501150   | 109.41 | ug/l   | 93       |
| 52) Toluene                    | 8.79  | 92   | 187252   | 20.46  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 109268   | 20.40  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.04  | 75   | 96993    | 20.13  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 75140    | 20.63  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 106744   | 20.81  | ug/l # | 83       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 123788   | 21.02  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.32  | 63   | 260278   | 104.33 | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.50  | 43   | 373152   | 109.96 | ug/l   | 89       |
| 60) Dibromochloromethane       | 9.59  | 129  | 73083    | 20.27  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.68  | 107  | 78414    | 20.77  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.34  | 164  | 99738    | 19.60  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.14 | 112  | 210904   | 19.60  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 74618    | 20.15  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.26 | 91   | 346237   | 20.01  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 271379   | 40.01  | ug/l   | 97       |
| 69) o-Xylene                   | 10.70 | 106  | 130404   | 19.88  | ug/l   | 97       |
| 70) Styrene                    | 10.71 | 104  | 217655   | 20.17  | ug/l   | 97       |
| 71) Bromoform                  | 10.86 | 173  | 56429    | 19.62  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.02 | 105  | 350442   | 20.36  | ug/l   | 100      |
| 74) N-amyl acetate             | 6.47  | 43   | 150998   | 20.66  | ug/l # | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 104909   | 20.80  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 108307m  | 24.23  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 96713    | 19.54  | ug/l   | 97       |
| 78) n-propylbenzene            | 11.36 | 91   | 391676   | 20.47  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 235588   | 20.28  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 290757   | 20.56  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 27214    | 18.84  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 274559   | 20.17  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 274813   | 19.84  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 298455   | 20.74  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.95 | 105  | 338468   | 20.12  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 305350   | 20.22  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 174916   | 19.22  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 177200   | 18.90  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 247326   | 19.29  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.60 | 117  | 40590    | 18.91  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 176402   | 19.67  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 19889    | 20.26  | ug/l   | 89       |

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Sample : VX0719WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0719WBS01

Manual Integrations  
APPROVED

MMDadoda  
7/20/2018 5:22:13 PM

Quant Time: Jul 20 04:15:50 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 19 17:09:44 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.65 | 180  | 122719   | 18.67 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.79 | 225  | 58106    | 18.38 | ug/l  | 100      |
| 95) Naphthalene            | 13.83 | 128  | 350390   | 20.29 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 124114   | 19.08 | ug/l  | 100      |

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

