

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042420\  
 Data File : VX015936.D  
 Acq On : 24 Apr 2020 17:28  
 Operator : JC/SP  
 Sample : VX0424WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0424WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 4/27/2020 12:40:20 PM

Quant Time: Apr 25 07:27:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042420W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 24 13:17:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 141948   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 274382   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 252012   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 118972   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.04   | 65  | 102454   | 51.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.24% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 76429    | 51.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.14% |      |
| 50) Toluene-d8            | 8.70   | 98  | 310500   | 49.01 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.02%  |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 119420   | 46.47 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.94%  |      |

## Target Compounds

|                               |      |     |        |         | Qvalue |     |
|-------------------------------|------|-----|--------|---------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 31934  | 20.462  | ug/l   | 97  |
| 3) Chloromethane              | 1.31 | 50  | 31590  | 19.640  | ug/l   | 99  |
| 4) Vinyl Chloride             | 1.39 | 62  | 41741  | 20.279  | ug/l   | 99  |
| 5) Bromomethane               | 1.63 | 94  | 20609  | 27.769  | ug/l   | 98  |
| 6) Chloroethane               | 1.72 | 64  | 24912  | 20.106  | ug/l   | 96  |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 49578  | 20.562  | ug/l   | 98  |
| 8) Diethyl Ether              | 2.17 | 74  | 22808  | 19.876  | ug/l   | 97  |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 31019  | 20.223  | ug/l   | 100 |
| 10) Methyl Iodide             | 2.49 | 142 | 33733  | 22.079  | ug/l   | 98  |
| 11) Tert butyl alcohol        | 3.01 | 59  | 43070  | 100.019 | ug/l   | 100 |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 32566  | 20.264  | ug/l   | 99  |
| 13) Acrolein                  | 2.27 | 56  | 25095  | 93.901  | ug/l   | 100 |
| 14) Allyl chloride            | 2.71 | 41  | 57417  | 20.214  | ug/l   | 100 |
| 15) Acrylonitrile             | 3.12 | 53  | 96029  | 102.028 | ug/l   | 99  |
| 16) Acetone                   | 2.42 | 43  | 76254  | 101.428 | ug/l   | 99  |
| 17) Carbon Disulfide          | 2.55 | 76  | 91242  | 20.423  | ug/l   | 99  |
| 18) Methyl Acetate            | 2.75 | 43  | 45705  | 20.102  | ug/l   | 100 |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 117298 | 20.378  | ug/l   | 99  |
| 20) Methylene Chloride        | 2.84 | 84  | 36775  | 19.775  | ug/l   | 99  |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96  | 36337  | 20.237  | ug/l   | 96  |
| 22) Diisopropyl ether         | 3.82 | 45  | 112586 | 20.071  | ug/l   | 98  |
| 23) Vinyl Acetate             | 3.79 | 43  | 472071 | 103.009 | ug/l   | 100 |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 64689  | 20.160  | ug/l   | 99  |
| 25) 2-Butanone                | 4.64 | 43  | 125153 | 102.239 | ug/l   | 98  |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 58250  | 20.572  | ug/l   | 99  |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 41000  | 20.128  | ug/l   | 99  |
| 28) Bromochloromethane        | 4.99 | 49  | 28294  | 19.947  | ug/l   | 100 |
| 29) Tetrahydrofuran           | 5.09 | 42  | 80840  | 100.251 | ug/l   | 99  |
| 30) Chloroform                | 5.18 | 83  | 64603  | 20.367  | ug/l   | 100 |
| 31) Cyclohexane               | 5.55 | 56  | 58174  | 19.355  | ug/l   | 97  |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 56985  | 19.969  | ug/l   | 99  |
| 36) 1,1-Dichloropropene       | 5.78 | 75  | 49455  | 18.886  | ug/l   | 99  |
| 37) Ethyl Acetate             | 4.80 | 43  | 49726  | 18.931  | ug/l   | 98  |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 46035  | 19.238  | ug/l   | 99  |

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 Data File : VX015936.D  
 Acq On : 24 Apr 2020 17:28  
 Operator : JC/SP  
 Sample : VX0424WBSD01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VX0424WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 4/27/2020 12:40:20 PM

Quant Time: Apr 25 07:27:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042420W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 24 13:17:59 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 59847    | 18.854  | ug/l   | 98       |
| 40) Benzene                    | 6.12  | 78   | 148589   | 19.389  | ug/l   | 97       |
| 41) Methacrylonitrile          | 5.00  | 41   | 26553    | 17.834  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 53504    | 19.950  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 84636    | 19.612  | ug/l   | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 45329    | 19.215  | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 38238    | 19.499  | ug/l   | 99       |
| 46) Dibromomethane             | 7.64  | 93   | 25397    | 19.393  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.88  | 83   | 51463    | 19.310  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.75  | 41   | 41049    | 19.344  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.72  | 88   | 18331    | 388.403 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 249869   | 98.767  | ug/l   | 99       |
| 52) Toluene                    | 8.77  | 92   | 93015    | 19.133  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 62295    | 19.385  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 64870    | 19.297  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 37490    | 19.309  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 59639    | 19.067  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 64549    | 19.431  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 152031   | 98.363  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 189594   | 98.695  | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 36928    | 19.152  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 38748    | 19.294  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 50880    | 20.290  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.12 | 112  | 97684    | 19.524  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 34207    | 19.294  | ug/l   | 97       |
| 67) Ethyl Benzene              | 10.24 | 91   | 179876   | 19.500  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 134045   | 39.678  | ug/l   | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 64583    | 19.590  | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 109052   | 19.179  | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 23316    | 18.832  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.01 | 105  | 169317   | 19.147  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 76069    | 19.806  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 39145    | 19.588  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 51882m   | 20.330  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 39178    | 19.505  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.35 | 91   | 201328   | 19.283  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 120466   | 19.574  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 146049   | 19.428  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 20689    | 18.262  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 141298   | 19.235  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 122696   | 19.411  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 147073   | 19.080  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 166138   | 19.197  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 151392   | 19.184  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 72373    | 19.596  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 74091    | 19.482  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 138812   | 18.664  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 22579    | 18.336  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 70203    | 19.604  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 11834    | 18.600  | ug/l   | 99       |

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Acq On : 24 Apr 2020 17:28  
Operator : JC/SP  
Sample : VX0424WBSD01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0424WBSD01

Manual Integrations  
APPROVED

MMDadoda  
4/27/2020 12:40:20 PM

Quant Time: Apr 25 07:27:09 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042420W.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 24 13:17:59 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 42396    | 18.351 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 15734    | 19.212 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 164175   | 19.539 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 42998    | 19.671 | ug/l  | 93       |

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

