

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091720\  
 Data File : VX018463.D  
 Acq On : 17 Sep 2020 12:39  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX091720

Manual Integrations  
 APPROVED

MMDadoda  
 9/18/2020 12:19:45 PM

Quant Time: Sep 18 06:38:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091720W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 17 12:17:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 621224   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 969668   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 912443   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 487379   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 411269   | 46.80 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.60%  |      |
| 35) Dibromofluoromethane  | 5.46   | 113 | 322706   | 48.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.28%  |      |
| 50) Toluene-d8            | 8.70   | 98  | 1207465  | 49.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.16%  |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 487224   | 50.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.58% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 304136  | 51.638  | ug/l | 96     |
| 3) Chloromethane              | 1.31 | 50  | 359367  | 52.118  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.39 | 62  | 355109  | 48.646  | ug/l | 99     |
| 5) Bromomethane               | 1.63 | 94  | 231327  | 51.632  | ug/l | 98     |
| 6) Chloroethane               | 1.71 | 64  | 201350  | 48.195  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 524528  | 47.299  | ug/l | 96     |
| 8) Diethyl Ether              | 2.17 | 74  | 178788  | 45.951  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 302569  | 50.690  | ug/l | 97     |
| 10) Methyl Iodide             | 2.49 | 142 | 327210  | 44.864  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 355994  | 232.812 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 299707  | 49.817  | ug/l | 90     |
| 13) Acrolein                  | 2.28 | 56  | 241182  | 249.101 | ug/l | 96     |
| 14) Allyl chloride            | 2.71 | 41  | 564613  | 48.430  | ug/l | 100    |
| 15) Acrylonitrile             | 3.12 | 53  | 894078  | 245.053 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 801387  | 238.442 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.55 | 76  | 882161  | 49.098  | ug/l | 97     |
| 18) Methyl Acetate            | 2.75 | 43  | 402341  | 48.316  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 1050178 | 49.727  | ug/l | 99     |
| 20) Methylene Chloride        | 2.84 | 84  | 340522  | 45.920  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 329785  | 47.167  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.82 | 45  | 1093324 | 49.892  | ug/l | 96     |
| 23) Vinyl Acetate             | 3.78 | 43  | 4925949 | 253.674 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 610258  | 48.287  | ug/l | 97     |
| 25) 2-Butanone                | 4.64 | 43  | 1294551 | 247.341 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 565485  | 48.427  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 376223  | 48.007  | ug/l | 100    |
| 28) Bromochloromethane        | 4.98 | 49  | 259633  | 43.902  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 824315  | 249.881 | ug/l | 100    |
| 30) Chloroform                | 5.18 | 83  | 623283  | 48.607  | ug/l | 99     |
| 31) Cyclohexane               | 5.55 | 56  | 541966  | 50.960  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 573950  | 47.711  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 477566  | 50.742  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.79 | 43  | 501468  | 49.896  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 519027  | 49.794  | ug/l | 93     |

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 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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MMDadoda  
 9/18/2020 12:19:45 PM

Quant Time: Sep 18 06:38:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091720W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 17 12:17:36 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 555659   | 52.551  | ug/l  | 98       |
| 40) Benzene                    | 6.12  | 78   | 1346652  | 49.927  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.01  | 41   | 279554   | 50.059  | ug/l  | 97       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 514114   | 48.995  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 838000   | 50.247  | ug/l  | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 385650   | 49.391  | ug/l  | 97       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 362038   | 48.903  | ug/l  | 99       |
| 46) Dibromomethane             | 7.64  | 93   | 245290   | 48.226  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.88  | 83   | 513307   | 50.076  | ug/l  | 96       |
| 48) Methyl methacrylate        | 7.74  | 41   | 421479   | 51.921  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 123525   | 920.924 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 2561683  | 257.969 | ug/l  | 99       |
| 52) Toluene                    | 8.77  | 92   | 856651   | 50.471  | ug/l  | 97       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 589080   | 50.576  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 620116   | 51.679  | ug/l  | 96       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 353153   | 50.143  | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 538436   | 51.559  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 589316   | 49.803  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 1451927  | 261.505 | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 1978691  | 261.974 | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 411773   | 49.032  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 387101   | 51.658  | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 340592   | 47.413  | ug/l  | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 948398   | 50.478  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 371034   | 49.228  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 1679454  | 51.642  | ug/l  | 98       |
| 68) m/p-Xylenes                | 10.34 | 106  | 1272924  | 103.473 | ug/l  | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 604972   | 51.932  | ug/l  | 99       |
| 70) Styrene                    | 10.70 | 104  | 1057082  | 52.554  | ug/l  | 98       |
| 71) Bromoform                  | 10.84 | 173  | 321754   | 50.843  | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 1672327  | 51.363  | ug/l  | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 764807   | 52.176  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 528903   | 49.078  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 508242m  | 49.624  | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 430196   | 47.887  | ug/l  | 97       |
| 78) n-propylbenzene            | 11.34 | 91   | 1935928  | 50.797  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 1150926  | 49.891  | ug/l  | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 1440237  | 51.724  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 203145   | 50.826  | ug/l  | 99       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 1382593  | 50.419  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 1399076  | 51.751  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 1458866  | 52.024  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 1668648  | 52.310  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 1530484  | 52.205  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 788606   | 48.823  | ug/l  | 98       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 797374   | 48.687  | ug/l  | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 1424605  | 52.491  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 292537   | 49.983  | ug/l  | 95       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 732937   | 48.481  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 126587   | 48.386  | ug/l  | 95       |

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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
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9/18/2020 12:19:45 PM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091720W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 17 12:17:36 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 511497   | 48.613 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 214942   | 48.681 | ug/l  | 99       |
| 95) Naphthalene            | 13.82 | 128  | 1646465  | 51.814 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 497965   | 49.521 | ug/l  | 98       |

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

