

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX033020\  
 Data File : VX015441.D  
 Acq On : 30 Mar 2020 20:13  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

apatel  
 3/31/2020 11:05:35 AM

Quant Time: Mar 31 09:32:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 917354   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 1642981  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1538412  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 792201   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 753873   | 58.27 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 116.54% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 540869   | 51.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.00% |      |
| 50) Toluene-d8            | 8.70   | 98  | 1903126  | 49.22 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.44%  |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 812739   | 51.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.44% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 342155  | 42.335  | ug/l | 99     |
| 3) Chloromethane              | 1.31 | 50  | 553773  | 53.804  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.39 | 62  | 455208  | 48.166  | ug/l | 98     |
| 5) Bromomethane               | 1.62 | 94  | 267837  | 63.696  | ug/l | 100    |
| 6) Chloroethane               | 1.71 | 64  | 298322  | 50.896  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 571195  | 45.067  | ug/l | 99     |
| 8) Diethyl Ether              | 2.17 | 74  | 287684  | 53.814  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 348635  | 42.195  | ug/l | 97     |
| 10) Methyl Iodide             | 2.49 | 142 | 526055  | 47.223  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 781804  | 252.451 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 427339  | 49.342  | ug/l | 98     |
| 13) Acrolein                  | 2.27 | 56  | 512528  | 290.532 | ug/l | 99     |
| 14) Allyl chloride            | 2.71 | 41  | 1097940 | 54.255  | ug/l | 99     |
| 15) Acrylonitrile             | 3.12 | 53  | 1667860 | 282.405 | ug/l | 100    |
| 16) Acetone                   | 2.42 | 43  | 1521607 | 273.740 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.55 | 76  | 1297090 | 49.094  | ug/l | 98     |
| 18) Methyl Acetate            | 2.75 | 43  | 784775  | 55.316  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 1921888 | 57.216  | ug/l | 100    |
| 20) Methylene Chloride        | 2.83 | 84  | 566458  | 54.558  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 498103  | 51.822  | ug/l | 96     |
| 22) Diisopropyl ether         | 3.83 | 45  | 2061340 | 57.484  | ug/l | 97     |
| 23) Vinyl Acetate             | 3.79 | 43  | 9408030 | 289.771 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 1024988 | 54.289  | ug/l | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 2445211 | 273.533 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 791775  | 51.091  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 609899  | 54.845  | ug/l | 99     |
| 28) Bromochloromethane        | 4.98 | 49  | 507656  | 56.316  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 1592367 | 277.084 | ug/l | 99     |
| 30) Chloroform                | 5.18 | 83  | 1008313 | 55.510  | ug/l | 98     |
| 31) Cyclohexane               | 5.55 | 56  | 720987  | 44.020  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97  | 841605  | 51.196  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.78 | 75  | 666849  | 44.051  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.80 | 43  | 970981  | 49.261  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 698998  | 42.631  | ug/l | 99     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

apatel  
 3/31/2020 11:05:35 AM

Quant Time: Mar 31 09:32:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 638791   | 36.598  | ug/l  | 98       |
| 40) Benzene                    | 6.12  | 78   | 2172910  | 49.001  | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.01  | 41   | 568928   | 51.995  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 912636   | 51.237  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 1683798  | 50.604  | ug/l  | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 566249   | 46.822  | ug/l  | 94       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 602145   | 49.638  | ug/l  | 99       |
| 46) Dibromomethane             | 7.64  | 93   | 403703   | 50.732  | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.88  | 83   | 848069   | 50.016  | ug/l  | 97       |
| 48) Methyl methacrylate        | 7.75  | 41   | 845775   | 50.888  | ug/l  | 100      |
| 49) 1,4-Dioxane                | 7.71  | 88   | 303005   | 977.282 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 4774345  | 253.184 | ug/l  | 100      |
| 52) Toluene                    | 8.77  | 92   | 1347408  | 49.285  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 969278   | 48.741  | ug/l  | 96       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 1008062  | 49.763  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 572488   | 51.110  | ug/l  | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 1002607  | 50.790  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 1017029  | 50.396  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 2484161  | 258.718 | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 3650396  | 256.405 | ug/l  | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 677210   | 50.315  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 611654   | 50.221  | ug/l  | 98       |
| 64) Tetrachloroethene          | 9.32  | 164  | 494041   | 42.553  | ug/l  | 94       |
| 65) Chlorobenzene              | 10.12 | 112  | 1456831  | 47.484  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 596808   | 48.691  | ug/l  | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 2577873  | 47.375  | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 1902419  | 93.890  | ug/l  | 98       |
| 69) o-Xylene                   | 10.68 | 106  | 965413   | 48.216  | ug/l  | 100      |
| 70) Styrene                    | 10.70 | 104  | 1715553  | 48.692  | ug/l  | 99       |
| 71) Bromoform                  | 10.84 | 173  | 532500   | 47.723  | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.01 | 105  | 2398545  | 46.209  | ug/l  | 98       |
| 74) N-amyl acetate             | 10.89 | 43   | 1442522  | 49.967  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 881874   | 49.513  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 824026m  | 50.582  | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 661767   | 47.797  | ug/l  | 96       |
| 78) n-propylbenzene            | 11.35 | 91   | 2771140  | 46.689  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 11.41 | 91   | 1769815  | 48.649  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 2111007  | 47.620  | ug/l  | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 331606   | 48.841  | ug/l  | 99       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 2080675  | 48.787  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 2006044  | 46.328  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 2168843  | 48.011  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 2265179  | 45.232  | ug/l  | 98       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 2131925  | 45.857  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 1193065  | 48.134  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 1207964  | 47.846  | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 1872628  | 44.573  | ug/l  | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 419525   | 46.362  | ug/l  | 95       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 1197748  | 49.378  | ug/l  | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 232329   | 46.216  | ug/l  | 98       |

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Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

apatel  
3/31/2020 11:05:35 AM

Quant Time: Mar 31 09:32:22 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 881481   | 45.942 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 333224   | 36.478 | ug/l  | 97       |
| 95) Naphthalene            | 13.82 | 128  | 2813774  | 48.077 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 886698   | 48.000 | ug/l  | 98       |

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

