

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062920\  
 Data File : VX017005.D  
 Acq On : 29 Jun 2020 13:02  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jun 29 14:57:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 14:55:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 300891   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 457719   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 438771   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 224257   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 171647   | 37.78 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 75.56% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 142789   | 47.23 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.46% |          |
| 50) Toluene-d8              | 8.70  | 98   | 530693   | 47.89 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.78% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 210824   | 49.20 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.40% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85   | 149216   | 52.035  | ug/l  | 100    |
| 3) Chloromethane              | 1.32 | 50   | 168794   | 45.789  | ug/l  | 99     |
| 4) Vinyl Chloride             | 1.39 | 62   | 158745   | 42.045  | ug/l  | 97     |
| 5) Bromomethane               | 1.62 | 94   | 83067    | 29.617  | ug/l  | 99     |
| 6) Chloroethane               | 1.71 | 64   | 90923    | 35.483  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 238943   | 38.796  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.17 | 74   | 83866    | 35.350  | ug/l  | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101  | 131888   | 40.006  | ug/l  | 93     |
| 10) Methyl Iodide             | 2.49 | 142  | 193649   | 51.375  | ug/l  | 97     |
| 11) Tert butyl alcohol        | 3.01 | 59   | 167509   | 195.271 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96   | 127785   | 38.314  | ug/l  | 91     |
| 13) Acrolein                  | 2.27 | 56   | 130042   | 204.530 | ug/l  | 99     |
| 14) Allyl chloride            | 2.70 | 41   | 261428   | 42.099  | ug/l  | 93     |
| 15) Acrylonitrile             | 3.12 | 53   | 405179   | 203.433 | ug/l  | 98     |
| 16) Acetone                   | 2.42 | 43   | 313442   | 176.472 | ug/l  | 96     |
| 17) Carbon Disulfide          | 2.55 | 76   | 424649   | 40.154  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.75 | 43   | 173070   | 40.052  | ug/l  | 97     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73   | 496665   | 42.606  | ug/l  | 99     |
| 20) Methylene Chloride        | 2.83 | 84   | 164693   | 40.790  | ug/l  | 94     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96   | 161246   | 42.792  | ug/l  | 93     |
| 22) Diisopropyl ether         | 3.82 | 45   | 509812   | 41.876  | ug/l  | 90     |
| 23) Vinyl Acetate             | 3.78 | 43   | 2218534  | 208.222 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 3.67 | 63   | 282597   | 41.382  | ug/l  | 99     |
| 25) 2-Butanone                | 4.63 | 43   | 540739   | 199.754 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 4.55 | 77   | 251084   | 45.452  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96   | 178043   | 42.758  | ug/l  | 94     |
| 28) Bromochloromethane        | 4.98 | 49   | 114384   | 35.844  | ug/l  | 89     |
| 29) Tetrahydrofuran           | 5.09 | 42   | 365636   | 205.464 | ug/l  | 98     |
| 30) Chloroform                | 5.18 | 83   | 287941   | 41.982  | ug/l  | 100    |
| 31) Cyclohexane               | 5.55 | 56   | 254024   | 44.528  | ug/l  | 97     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97   | 260994   | 42.475  | ug/l  | 97     |
| 36) 1,1-Dichloropropene       | 5.77 | 75   | 217262   | 47.938  | ug/l  | 97     |
| 37) Ethyl Acetate             | 4.79 | 43   | 216613   | 44.473  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.75 | 117  | 243814   | 50.831  | ug/l  | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062920\  
 Data File : VX017005.D  
 Acq On : 29 Jun 2020 13:02  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jun 29 14:57:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 14:55:09 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 262553   | 53.534  | ug/l   | 99       |
| 40) Benzene                    | 6.11  | 78   | 636671   | 48.780  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.00  | 41   | 122665   | 45.194  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 229784   | 44.809  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 351700   | 42.922  | ug/l   | 96       |
| 44) Trichloroethene            | 7.19  | 130  | 183707   | 52.874  | ug/l   | 90       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 164012   | 47.005  | ug/l   | 95       |
| 46) Dibromomethane             | 7.63  | 93   | 111325   | 46.964  | ug/l   | 92       |
| 47) Bromodichloromethane       | 7.87  | 83   | 231045   | 46.601  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.74  | 41   | 174421   | 45.585  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 78596    | 987.505 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1096302  | 233.775 | ug/l   | 97       |
| 52) Toluene                    | 8.76  | 92   | 414194   | 51.487  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 259047   | 48.791  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.41  | 75   | 279992   | 50.166  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 164635   | 49.807  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 243100   | 49.071  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 272993   | 48.244  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 611826   | 239.043 | ug/l   | 95       |
| 59) 2-Hexanone                 | 9.47  | 43   | 833311   | 236.208 | ug/l   | 97       |
| 60) Dibromochloromethane       | 9.56  | 129  | 196155   | 52.057  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 176096   | 49.896  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.32  | 164  | 178859   | 60.219  | ug/l   | 95       |
| 65) Chlorobenzene              | 10.12 | 112  | 445885   | 49.693  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 173185   | 51.934  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 783350   | 49.733  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.34 | 106  | 609582   | 104.172 | ug/l   | 98       |
| 69) o-Xylene                   | 10.68 | 106  | 288854   | 51.740  | ug/l   | 97       |
| 70) Styrene                    | 10.70 | 104  | 508257   | 53.444  | ug/l   | 97       |
| 71) Bromoform                  | 10.84 | 173  | 145006   | 54.689  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 785686   | 50.884  | ug/l   | 98       |
| 74) N-amyl acetate             | 10.88 | 43   | 328466   | 45.110  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 224406   | 43.187  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 286132   | 60.798  | ug/l   | 86       |
| 77) Bromobenzene               | 11.24 | 156  | 199903   | 49.935  | ug/l   | 93       |
| 78) n-propylbenzene            | 11.34 | 91   | 901801   | 49.483  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 533804   | 48.709  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 663710   | 51.716  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 88978    | 48.000  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 633941   | 49.149  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 645387   | 51.633  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 682101   | 52.544  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 769808   | 52.823  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 728624   | 54.720  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 363612   | 50.606  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 362240   | 49.384  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 628746   | 50.165  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.58 | 117  | 133171   | 48.244  | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 345594   | 50.733  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 51347    | 43.185  | ug/l   | 86       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062920\  
Data File : VX017005.D  
Acq On : 29 Jun 2020 13:02  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Quant Time: Jun 29 14:57:27 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 29 14:55:09 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 239786   | 54.019 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 96800    | 60.699 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 757907   | 51.957 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 235603   | 55.343 | ug/l  | 98       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062920\  
 Data File : VX017005.D  
 Acq On : 29 Jun 2020 13:02  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jun 29 14:57:27 2020  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 14:55:09 2020  
 Response via : Initial Calibration

