

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052720\  
 Data File : VX016452.D  
 Acq On : 27 May 2020 17:30  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICSVX052720

Manual Integrations  
 APPROVED

MMDadoda  
 5/28/2020 2:10:53 PM

Quant Time: May 28 03:25:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 16:31:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 323606   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 499430   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 472272   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 236043   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 198502   | 49.39 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.78%  |      |
| 35) Dibromofluoromethane  | 5.46   | 113 | 155912   | 50.70 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.40% |      |
| 50) Toluene-d8            | 8.70   | 98  | 627008   | 52.38 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.76% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 242188   | 52.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.74% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 165804  | 52.064  | ug/l | 97     |
| 3) Chloromethane              | 1.31 | 50  | 195697  | 50.850  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.39 | 62  | 208354  | 51.194  | ug/l | 100    |
| 5) Bromomethane               | 1.62 | 94  | 96827   | 48.930  | ug/l | 99     |
| 6) Chloroethane               | 1.70 | 64  | 125699  | 52.946  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 277120  | 51.847  | ug/l | 99     |
| 8) Diethyl Ether              | 2.17 | 74  | 110574  | 49.613  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 152652  | 51.893  | ug/l | 99     |
| 10) Methyl Iodide             | 2.49 | 142 | 151536  | 43.538  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 269872  | 261.875 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.35 | 96  | 159528  | 51.233  | ug/l | 95     |
| 13) Acrolein                  | 2.27 | 56  | 82582   | 188.381 | ug/l | 97     |
| 14) Allyl chloride            | 2.70 | 41  | 298148  | 52.065  | ug/l | 99     |
| 15) Acrylonitrile             | 3.11 | 53  | 555848  | 263.312 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 464564  | 263.850 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.54 | 76  | 473164  | 51.171  | ug/l | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 236423  | 52.354  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 583099  | 52.150  | ug/l | 99     |
| 20) Methylene Chloride        | 2.83 | 84  | 179914  | 49.388  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 177535  | 51.546  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.82 | 45  | 572763  | 52.066  | ug/l | 94     |
| 23) Vinyl Acetate             | 3.78 | 43  | 2588502 | 268.826 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 319771  | 51.502  | ug/l | 99     |
| 25) 2-Butanone                | 4.63 | 43  | 778101  | 260.805 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.54 | 77  | 290305  | 57.139  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 200361  | 50.285  | ug/l | 97     |
| 28) Bromochloromethane        | 4.98 | 49  | 129142  | 44.759  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 514801  | 267.088 | ug/l | 100    |
| 30) Chloroform                | 5.17 | 83  | 316664  | 50.616  | ug/l | 100    |
| 31) Cyclohexane               | 5.54 | 56  | 289545  | 51.836  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 291746  | 51.509  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 249002  | 52.658  | ug/l | 98     |
| 37) Ethyl Acetate             | 4.79 | 43  | 298514  | 52.582  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 5.74 | 117 | 257168  | 51.751  | ug/l | 99     |

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 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX052720

Manual Integrations  
 APPROVED

MMDadoda  
 5/28/2020 2:10:53 PM

Quant Time: May 28 03:25:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 16:31:05 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 286802   | 55.840   | ug/l   | 97       |
| 40) Benzene                    | 6.11  | 78   | 733697   | 52.103   | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.00  | 41   | 158854   | 50.941   | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 256581   | 51.236   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.41  | 43   | 465422   | 52.559   | ug/l   | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 228365   | 51.113   | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 188362   | 52.543   | ug/l   | 99       |
| 46) Dibromomethane             | 7.63  | 93   | 124641   | 51.764   | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.87  | 83   | 261378   | 52.426   | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.74  | 41   | 227133   | 53.570   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 105264   | 1060.859 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1499669  | 271.981  | ug/l   | 100      |
| 52) Toluene                    | 8.76  | 92   | 468335   | 52.741   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 312563   | 55.133   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.41  | 75   | 328236   | 54.700   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 185364   | 52.502   | ug/l   | 97       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 315517   | 54.872   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 324601   | 53.563   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 729998   | 243.227  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 1188887  | 277.265  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 211582   | 53.252   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 199434   | 52.749   | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.32  | 164  | 259469   | 49.107   | ug/l   | 99       |
| 65) Chlorobenzene              | 10.12 | 112  | 500178   | 51.949   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 190239   | 51.760   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 901305   | 52.577   | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.34 | 106  | 681196   | 107.174  | ug/l   | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 325109   | 52.816   | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 574185   | 54.269   | ug/l   | 100      |
| 71) Bromoform                  | 10.84 | 173  | 163607   | 52.671   | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.00 | 105  | 874414   | 53.465   | ug/l   | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 409184   | 54.392   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 227406   | 55.480   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 274542m  | 52.915   | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 219238   | 51.109   | ug/l   | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 986781   | 54.005   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 590150   | 52.913   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 736958   | 53.965   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 115304   | 54.667   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 700664   | 53.199   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 639693   | 54.822   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 747087   | 54.095   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 809677   | 55.314   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 766449   | 55.897   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 393102   | 52.895   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 397510   | 52.299   | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 661890   | 57.954   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 131168   | 55.382   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 369537   | 51.324   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 67546    | 50.876   | ug/l   | 97       |

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Operator : JC/SP  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX052720

Manual Integrations  
APPROVED

MMDadoda  
5/28/2020 2:10:53 PM

Quant Time: May 28 03:25:22 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 27 16:31:05 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 269201   | 56.296 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 111319   | 59.292 | ug/l  | 99       |
| 95) Naphthalene            | 13.82 | 128  | 881328   | 53.763 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 259113   | 55.310 | ug/l  | 98       |

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

