

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX120920\  
 Data File : VX019808.D  
 Acq On : 10 Dec 2020 04:11  
 Operator : JC/MD  
 Sample : L4993-07MSD  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TU032-32-5226-120820MSD

Manual Integrations  
 APPROVED

MMDadoda  
 12/10/2020 9:31:18 AM

Quant Time: Dec 10 07:23:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 04 15:32:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 272950   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 452652   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.09 | 117  | 416203   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 209322   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65    | 169896   | 47.36    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 94.72% |
| 35) Dibromofluoromethane  | 5.46   | 113   | 140799   | 48.13    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 96.26% |
| 50) Toluene-d8            | 8.70   | 98    | 535356   | 47.93    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 95.86% |
| 62) 4-Bromofluorobenzene  | 11.12  | 95    | 206445   | 48.57    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 97.14% |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 128782  | 51.534  | ug/l | 100    |
| 3) Chloromethane              | 1.31 | 50  | 135946  | 46.257  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 159034  | 51.321  | ug/l | 99     |
| 5) Bromomethane               | 1.62 | 94  | 52364   | 50.891  | ug/l | 97     |
| 6) Chloroethane               | 1.70 | 64  | 102197  | 54.900  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 226296  | 52.436  | ug/l | 98     |
| 8) Diethyl Ether              | 2.17 | 74  | 93351   | 51.044  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 135636  | 54.832  | ug/l | 98     |
| 10) Methyl Iodide             | 2.49 | 142 | 169274  | 46.426  | ug/l | 99     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 176495  | 239.200 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 134098  | 53.622  | ug/l | 98     |
| 13) Acrolein                  | 2.27 | 56  | 86097   | 217.430 | ug/l | 99     |
| 14) Allyl chloride            | 2.70 | 41  | 210322  | 49.796  | ug/l | 99     |
| 15) Acrylonitrile             | 3.11 | 53  | 436686  | 269.268 | ug/l | 100    |
| 16) Acetone                   | 2.42 | 43  | 346550  | 257.008 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.55 | 76  | 338303  | 47.146  | ug/l | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 166093  | 50.336  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 483234  | 53.059  | ug/l | 99     |
| 20) Methylene Chloride        | 2.83 | 84  | 161924  | 52.677  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 150121  | 51.489  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.82 | 45  | 457606  | 53.586  | ug/l | 92     |
| 23) Vinyl Acetate             | 3.78 | 43  | 1744742 | 239.815 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 269653  | 52.364  | ug/l | 99     |
| 25) 2-Butanone                | 4.63 | 43  | 550775  | 265.824 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 180497  | 40.701  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 178033  | 52.179  | ug/l | 96     |
| 28) Bromochloromethane        | 4.98 | 49  | 118680  | 48.345  | ug/l | 100    |
| 29) Tetrahydrofuran           | 5.09 | 42  | 357018  | 267.442 | ug/l | 100    |
| 30) Chloroform                | 5.18 | 83  | 282024  | 53.262  | ug/l | 100    |
| 31) Cyclohexane               | 5.55 | 56  | 231254  | 51.823  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 241572  | 52.977  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 205852  | 50.327  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.79 | 43  | 192800  | 46.685  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 204792  | 51.128  | ug/l | 97     |

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Quant Time: Dec 10 07:23:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 04 15:32:53 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 241628   | 50.280  | ug/l   | 100      |
| 40) Benzene                    | 6.11  | 78   | 634037   | 50.744  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.00  | 41   | 118441   | 52.235  | ug/l   | 100      |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 218250   | 51.124  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.41  | 43   | 322305   | 48.003  | ug/l   | 100      |
| 44) Trichloroethene            | 7.18  | 130  | 163437   | 49.854  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 161998   | 51.876  | ug/l   | 95       |
| 46) Dibromomethane             | 7.63  | 93   | 109415   | 51.884  | ug/l   | 99       |
| 47) Bromodichloromethane       | 7.87  | 83   | 217045   | 51.867  | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.74  | 41   | 170051   | 51.497  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 73482    | 918.595 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1081323  | 263.782 | ug/l   | 100      |
| 52) Toluene                    | 8.76  | 92   | 397289   | 50.839  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 230689   | 49.678  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 247793   | 49.118  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 165211   | 52.461  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 247620   | 51.970  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 276918   | 51.497  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 824004   | 259.325 | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.56  | 129  | 170185   | 53.190  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 171331   | 51.234  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 141258   | 50.610  | ug/l   | 95       |
| 65) Chlorobenzene              | 10.12 | 112  | 420049   | 50.658  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 156753   | 52.522  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 760408   | 51.663  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.34 | 106  | 574327   | 103.554 | ug/l   | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 275731   | 51.682  | ug/l   | 100      |
| 70) Styrene                    | 10.70 | 104  | 469998   | 52.193  | ug/l   | 100      |
| 71) Bromoform                  | 10.84 | 173  | 122603   | 52.220  | ug/l # | 97       |
| 73) Isopropylbenzene           | 11.00 | 105  | 744210   | 52.040  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 261811   | 45.684  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 264550   | 52.470  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 241490m  | 51.439  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 185220   | 50.610  | ug/l   | 100      |
| 78) n-propylbenzene            | 11.34 | 91   | 850039   | 52.042  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 511331   | 50.835  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 626690   | 51.924  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 77901    | 47.968  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 598398   | 50.796  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 619936   | 52.372  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 638082   | 52.483  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 710993   | 52.609  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 650058   | 52.484  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 338303   | 50.365  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 342691   | 50.091  | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.37 | 91   | 567233   | 51.691  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 111540   | 52.161  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.37 | 146  | 335472   | 51.234  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 55646    | 51.339  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 215372   | 50.529  | ug/l   | 99       |

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QLast Update : Fri Dec 04 15:32:53 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 13.76 | 225  | 91618    | 48.091 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 742904   | 53.761 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 211529   | 50.780 | ug/l  | 100      |

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

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