

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110420\  
 Data File : VN064429.D  
 Acq On : 4 Nov 2020 11:24  
 Operator : JC/MD  
 Sample : VSTDIC100  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC100

Manual Integrations  
 APPROVED

MMDadoda  
 11/5/2020 2:19:19 PM

Quant Time: Nov 04 11:46:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 11:31:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 347072   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 602472   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 571286   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 270604   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 593677   | 104.55 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 209.10% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 416423   | 103.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 207.16% |      |
| 50) Toluene-d8            | 10.06  | 98  | 1650259  | 109.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 218.74% |      |
| 62) 4-Bromofluorobenzene  | 12.37  | 95  | 640350   | 109.54 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 219.08% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 445433  | 108.521 | ug/l | 98     |
| 3) Chloromethane              | 2.04 | 50  | 523384  | 114.916 | ug/l | 98     |
| 4) Vinyl Chloride             | 2.17 | 62  | 555815  | 125.201 | ug/l | 99     |
| 5) Bromomethane               | 2.52 | 94  | 346202  | 118.986 | ug/l | 98     |
| 6) Chloroethane               | 2.67 | 64  | 340390  | 125.683 | ug/l | 99     |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 779154  | 107.219 | ug/l | 99     |
| 8) Diethyl Ether              | 3.37 | 74  | 281230  | 120.180 | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 371762  | 103.137 | ug/l | 99     |
| 10) Methyl Iodide             | 3.91 | 142 | 483514  | 102.794 | ug/l | 97     |
| 11) Tert butyl alcohol        | 4.75 | 59  | 342260  | 433.780 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 364165  | 106.982 | ug/l | 98     |
| 13) Acrolein                  | 3.57 | 56  | 221575  | 927.148 | ug/l | 100    |
| 14) Allyl chloride            | 4.27 | 41  | 723030  | 104.260 | ug/l | 100    |
| 15) Acrylonitrile             | 4.93 | 53  | 1001790 | 562.382 | ug/l | 99     |
| 16) Acetone                   | 3.78 | 43  | 1107484 | 523.961 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.01 | 76  | 1090399 | 107.383 | ug/l | 98     |
| 18) Methyl Acetate            | 4.28 | 43  | 439982  | 103.588 | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 1365312 | 105.291 | ug/l | 99     |
| 20) Methylene Chloride        | 4.50 | 84  | 435192  | 107.081 | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 4.98 | 96  | 415576  | 108.411 | ug/l | 98     |
| 22) Diisopropyl ether         | 5.90 | 45  | 1617229 | 117.101 | ug/l | 96     |
| 23) Vinyl Acetate             | 5.85 | 43  | 6807317 | 589.177 | ug/l | 98     |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 831492  | 108.554 | ug/l | 100    |
| 25) 2-Butanone                | 6.79 | 43  | 1557616 | 543.377 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 772530  | 104.563 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 492355  | 112.477 | ug/l | 98     |
| 28) Bromochloromethane        | 7.15 | 49  | 433076  | 121.675 | ug/l | 97     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 959148  | 522.864 | ug/l | 99     |
| 30) Chloroform                | 7.33 | 83  | 880304  | 107.657 | ug/l | 98     |
| 31) Cyclohexane               | 7.61 | 56  | 707641  | 105.228 | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 781533  | 101.227 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 665675  | 107.157 | ug/l | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 638624  | 103.051 | ug/l | 100    |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 688407  | 97.725  | ug/l | 100    |

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Quant Time: Nov 04 11:46:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 11:31:41 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 607889   | 100.334  | ug/l   | 99       |
| 40) Benzene                    | 8.00  | 78   | 1896861  | 109.002  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.13  | 41   | 320894   | 106.313  | ug/l   | 88       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 753061   | 101.637  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 1101549  | 104.183  | ug/l # | 90       |
| 44) Trichloroethene            | 8.80  | 130  | 473277   | 105.350  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 506151   | 108.438  | ug/l   | 97       |
| 46) Dibromomethane             | 9.17  | 93   | 339433   | 105.935  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.37  | 83   | 724133   | 101.776  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.17  | 41   | 565066   | 103.462  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 146367   | 1860.011 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 3259532  | 527.404  | ug/l   | 98       |
| 52) Toluene                    | 10.12 | 92   | 1211821  | 110.543  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 825971   | 109.175  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 860414   | 110.564  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 455743   | 105.852  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 732773   | 112.909  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 815836   | 111.114  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 1731951  | 512.931  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 2480475  | 546.084  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 535165   | 106.759  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 484502   | 111.128  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 428038   | 91.293   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 1262635  | 106.853  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 482451   | 102.050  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 2361385  | 107.574  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.59 | 106  | 1753609  | 215.901  | ug/l   | 98       |
| 69) o-Xylene                   | 11.92 | 106  | 828160   | 105.719  | ug/l   | 99       |
| 70) Styrene                    | 11.94 | 104  | 1462557  | 113.912  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 354663   | 97.572   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.22 | 105  | 2170389  | 104.798  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.04 | 43   | 1046193  | 115.068  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 643457   | 106.404  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 663409m  | 102.274  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 520766   | 103.600  | ug/l   | 100      |
| 78) n-propylbenzene            | 12.56 | 91   | 2550098  | 108.787  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 1565438  | 104.860  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 1832992  | 105.096  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 248874   | 109.116  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 1680276  | 109.792  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 1405234  | 99.115   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 1870882  | 107.205  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.14 | 105  | 1852382  | 100.619  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 1696938  | 102.612  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.25 | 146  | 924827   | 104.681  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 932711   | 103.646  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.59 | 91   | 1492822  | 102.346  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 309107   | 100.130  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.62 | 146  | 890344   | 101.324  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 141411   | 97.599   | ug/l   | 97       |

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| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 437774   | 103.646 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 176607   | 69.254  | ug/l  | 98       |
| 95) Naphthalene            | 15.10 | 128  | 1509978  | 114.117 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 423115   | 103.725 | ug/l  | 98       |

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

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