

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072619\  
 Data File : VN056924.D  
 Acq On : 25 Jul 2019 15:48  
 Operator : JC/SP  
 Sample : VSTDICC100  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

MMDadoda  
 7/26/2019 3:36:58 PM

Quant Time: Jul 26 03:38:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072619W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 26 03:12:32 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 480784   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 717629   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 654297   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 303409   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.01   | 65  | 470048   | 90.71 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 181.42% |      |
| 35) Dibromofluoromethane  | 7.57   | 113 | 435681   | 93.93 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 187.86% |      |
| 50) Toluene-d8            | 10.08  | 98  | 1659078  | 93.87 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 187.74% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 567897   | 98.56 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 197.12% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.84 | 85  | 554765  | 104.548 | ug/l | 99     |
| 3) Chloromethane              | 2.04 | 50  | 609646  | 92.015  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.17 | 62  | 586203  | 96.365  | ug/l | 98     |
| 5) Bromomethane               | 2.52 | 94  | 343028  | 92.213  | ug/l | 99     |
| 6) Chloroethane               | 2.67 | 64  | 315814  | 93.931  | ug/l | 98     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 749161  | 98.728  | ug/l | 100    |
| 8) Diethyl Ether              | 3.39 | 74  | 284901  | 100.326 | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 449742  | 96.317  | ug/l | 100    |
| 10) Methyl Iodide             | 3.93 | 142 | 706259  | 112.928 | ug/l | 100    |
| 11) Tert butyl alcohol        | 4.77 | 59  | 333278  | 464.402 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.72 | 96  | 447007  | 95.857  | ug/l | 99     |
| 13) Acrolein                  | 3.59 | 56  | 184645  | 334.245 | ug/l | 99     |
| 14) Allyl chloride            | 4.30 | 41  | 745301  | 97.392  | ug/l | 99     |
| 15) Acrylonitrile             | 4.96 | 53  | 1047094 | 481.547 | ug/l | 100    |
| 16) Acetone                   | 3.80 | 43  | 835065  | 447.918 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.03 | 76  | 1214818 | 95.932  | ug/l | 100    |
| 18) Methyl Acetate            | 4.30 | 43  | 553743  | 76.986  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.02 | 73  | 1342052 | 97.599  | ug/l | 99     |
| 20) Methylene Chloride        | 4.53 | 84  | 507720  | 92.380  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.02 | 96  | 472903  | 97.051  | ug/l | 99     |
| 22) Diisopropyl ether         | 5.93 | 45  | 1480806 | 95.768  | ug/l | 99     |
| 23) Vinyl Acetate             | 5.87 | 43  | 5407825 | 487.123 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.83 | 63  | 862794  | 96.146  | ug/l | 100    |
| 25) 2-Butanone                | 6.81 | 43  | 1298398 | 478.964 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.81 | 77  | 656147  | 102.969 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 6.81 | 96  | 548122  | 97.851  | ug/l | 99     |
| 28) Bromochloromethane        | 7.18 | 49  | 396960  | 97.234  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.19 | 42  | 863349  | 468.064 | ug/l | 99     |
| 30) Chloroform                | 7.36 | 83  | 848995  | 94.173  | ug/l | 98     |
| 31) Cyclohexane               | 7.63 | 56  | 809134  | 93.234  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.55 | 97  | 720367  | 98.778  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.78 | 75  | 649986  | 98.180  | ug/l | 99     |
| 37) Ethyl Acetate             | 6.91 | 43  | 523209  | 98.721  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.76 | 117 | 624362  | 98.761  | ug/l | 98     |

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 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
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 7/26/2019 3:36:58 PM

Quant Time: Jul 26 03:38:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072619W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 26 03:12:32 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 9.07  | 83   | 823381   | 98.982   | ug/l  | 98       |
| 40) Benzene                    | 8.03  | 78   | 1994976  | 96.776   | ug/l  | 99       |
| 41) Methacrylonitrile          | 7.15  | 41   | 229916m  | 89.845   | ug/l  |          |
| 42) 1,2-Dichloroethane         | 8.11  | 62   | 614261   | 95.374   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 8.15  | 43   | 886638   | 96.959   | ug/l  | 99       |
| 44) Trichloroethene            | 8.82  | 130  | 551447   | 99.314   | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 9.11  | 63   | 536064   | 96.292   | ug/l  | 99       |
| 46) Dibromomethane             | 9.20  | 93   | 329471   | 95.889   | ug/l  | 99       |
| 47) Bromodichloromethane       | 9.39  | 83   | 658298   | 101.636  | ug/l  | 98       |
| 48) Methyl methacrylate        | 9.19  | 41   | 437301   | 95.861   | ug/l  | 100      |
| 49) 1,4-Dioxane                | 9.19  | 88   | 172300   | 1911.487 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 2627787  | 482.902  | ug/l  | 100      |
| 52) Toluene                    | 10.15 | 92   | 1232692  | 99.223   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.37 | 75   | 709447   | 107.204  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 9.83  | 75   | 811132   | 103.672  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 10.55 | 97   | 482561   | 97.829   | ug/l  | 99       |
| 56) Ethyl methacrylate         | 10.42 | 69   | 710649   | 104.366  | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 800468   | 98.116   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.68  | 63   | 1445180  | 509.436  | ug/l  | 100      |
| 59) 2-Hexanone                 | 10.74 | 43   | 1861220  | 492.627  | ug/l  | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 521935   | 105.401  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 498554   | 101.990  | ug/l  | 99       |
| 64) Tetrachloroethene          | 10.62 | 164  | 546460   | 95.873   | ug/l  | 98       |
| 65) Chlorobenzene              | 11.43 | 112  | 1341661  | 98.185   | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.50 | 131  | 501681   | 97.312   | ug/l  | 99       |
| 67) Ethyl Benzene              | 11.50 | 91   | 2379599  | 100.773  | ug/l  | 100      |
| 68) m/p-Xylenes                | 11.61 | 106  | 1795723  | 203.071  | ug/l  | 99       |
| 69) o-Xylene                   | 11.94 | 106  | 869129   | 100.917  | ug/l  | 99       |
| 70) Styrene                    | 11.96 | 104  | 1483580  | 108.023  | ug/l  | 100      |
| 71) Bromoform                  | 12.12 | 173  | 375142   | 105.699  | ug/l  | 99       |
| 73) Isopropylbenzene           | 12.24 | 105  | 2317267  | 86.647   | ug/l  | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 743826   | 84.021   | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 614725   | 78.220   | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 496633m  | 77.665   | ug/l  |          |
| 77) Bromobenzene               | 12.52 | 156  | 612305   | 91.767   | ug/l  | 99       |
| 78) n-propylbenzene            | 12.59 | 91   | 2624086  | 93.009   | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 1531996  | 86.895   | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 1946294  | 87.324   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 192918   | 98.173   | ug/l  | 97       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 1527112  | 91.206   | ug/l  | 98       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 1667406  | 85.453   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 1934552  | 91.098   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 2225502  | 89.128   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.28 | 119  | 2047150  | 91.891   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 1000722  | 93.390   | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 984153   | 94.943   | ug/l  | 99       |
| 89) n-Butylbenzene             | 13.61 | 91   | 1713185  | 100.321  | ug/l  | 100      |
| 90) Hexachloroethane           | 13.87 | 117  | 341416   | 88.616   | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 985250   | 91.722   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 105281   | 90.518   | ug/l  | 95       |

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Sample : VSTDICC100  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
VSTDICC100

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7/26/2019 3:36:58 PM

Quant Time: Jul 26 03:38:58 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072619W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 26 03:12:32 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 565278   | 122.362 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.00 | 225  | 342866   | 81.180  | ug/l  | 100      |
| 95) Naphthalene            | 15.12 | 128  | 1455039  | 120.096 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.29 | 180  | 589160   | 115.394 | ug/l  | 99       |

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

