

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081820\  
 Data File : VN062998.D  
 Acq On : 18 Aug 2020 20:42  
 Operator : JC/MD  
 Sample : VSTDIC150  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC150

Manual Integrations  
 APPROVED

MMDadoda  
 8/19/2020 5:46:19 PM

Quant Time: Aug 19 06:02:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 19 05:46:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 188795   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 284783   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 277219   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 148366   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 334473   | 149.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 298.96% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 276386   | 148.94 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 297.88% |      |
| 50) Toluene-d8            | 10.06  | 98  | 1092559  | 153.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 306.58% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 421913   | 167.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 335.48% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 362594  | 162.203 | ug/l | 99     |
| 3) Chloromethane              | 2.03 | 50  | 410730  | 158.667 | ug/l | 99     |
| 4) Vinyl Chloride             | 2.16 | 62  | 387742  | 154.884 | ug/l | 99     |
| 5) Bromomethane               | 2.49 | 94  | 227985  | 153.431 | ug/l | 98     |
| 6) Chloroethane               | 2.64 | 64  | 225057  | 152.265 | ug/l | 100    |
| 7) Trichlorofluoromethane     | 2.97 | 101 | 463099  | 148.336 | ug/l | 99     |
| 8) Diethyl Ether              | 3.37 | 74  | 160805  | 145.599 | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 227933  | 135.491 | ug/l | 100    |
| 10) Methyl Iodide             | 3.90 | 142 | 341230  | 160.027 | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.75 | 59  | 229410  | 723.823 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 223822  | 139.665 | ug/l | 98     |
| 13) Acrolein                  | 3.56 | 56  | 52637   | 530.134 | ug/l | 97     |
| 14) Allyl chloride            | 4.27 | 41  | 413941  | 146.496 | ug/l | 98     |
| 15) Acrylonitrile             | 4.93 | 53  | 710185  | 762.366 | ug/l | 100    |
| 16) Acetone                   | 3.78 | 43  | 504040  | 661.506 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.00 | 76  | 629070  | 149.887 | ug/l | 98     |
| 18) Methyl Acetate            | 4.28 | 43  | 307909  | 138.471 | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 866916  | 155.116 | ug/l | 100    |
| 20) Methylene Chloride        | 4.50 | 84  | 284793  | 113.357 | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 245711  | 146.509 | ug/l | 97     |
| 22) Diisopropyl ether         | 5.90 | 45  | 966735  | 150.768 | ug/l | 98     |
| 23) Vinyl Acetate             | 5.84 | 43  | 3194820 | 738.357 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 501219  | 139.884 | ug/l | 99     |
| 25) 2-Butanone                | 6.79 | 43  | 900320  | 757.888 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 393365  | 139.595 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 311811  | 148.334 | ug/l | 99     |
| 28) Bromochloromethane        | 7.15 | 49  | 276993  | 147.747 | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.17 | 42  | 600149  | 782.778 | ug/l | 99     |
| 30) Chloroform                | 7.33 | 83  | 513761  | 142.370 | ug/l | 99     |
| 31) Cyclohexane               | 7.61 | 56  | 510171  | 154.698 | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 426648  | 144.819 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 373688  | 148.900 | ug/l | 99     |
| 37) Ethyl Acetate             | 6.88 | 43  | 342909  | 145.459 | ug/l | 100    |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 365907  | 144.416 | ug/l | 99     |

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 8/19/2020 5:46:19 PM

Quant Time: Aug 19 06:02:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 19 05:46:25 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 504373   | 170.082  | ug/l   | 98       |
| 40) Benzene                    | 8.00  | 78   | 1170174  | 147.012  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.13  | 41   | 186288   | 166.267  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 390819   | 146.227  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.13  | 43   | 603903   | 155.012  | ug/l   | 100      |
| 44) Trichloroethene            | 8.80  | 130  | 289931   | 146.434  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.09  | 63   | 330990   | 143.857  | ug/l   | 97       |
| 46) Dibromomethane             | 9.18  | 93   | 193132   | 145.301  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.37  | 83   | 420996   | 144.612  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 292322   | 158.585  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 117842   | 3279.664 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 1853160  | 752.548  | ug/l   | 98       |
| 52) Toluene                    | 10.13 | 92   | 740170   | 154.150  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 475376   | 157.904  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 511794   | 154.970  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.54 | 97   | 302714   | 147.442  | ug/l   | 100      |
| 56) Ethyl methacrylate         | 10.40 | 69   | 472764   | 170.522  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 507449   | 148.843  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 577930   | 869.745  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 1374873  | 800.431  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.88 | 129  | 343541   | 151.199  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 306738   | 155.486  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.61 | 164  | 258981   | 142.119  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.41 | 112  | 822930   | 147.807  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 319041   | 147.325  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.48 | 91   | 1511938  | 160.715  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.60 | 106  | 1153466  | 329.892  | ug/l   | 99       |
| 69) o-Xylene                   | 11.92 | 106  | 560527   | 166.943  | ug/l   | 99       |
| 70) Styrene                    | 11.94 | 104  | 1004707  | 174.361  | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 270216   | 156.764  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.22 | 105  | 1501880  | 147.821  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 598015   | 164.342  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 463061   | 127.739  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 404669m  | 138.485  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 393564   | 140.844  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.57 | 91   | 1799630  | 155.399  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 1052194  | 144.450  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 1314795  | 156.544  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.28 | 75   | 162134   | 154.407  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 1119652  | 150.954  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 1121178  | 154.664  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 1335821  | 163.258  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.15 | 105  | 1536625  | 156.846  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 1407901  | 164.928  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 727008   | 151.387  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 723551   | 148.445  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 1254166  | 174.092  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.85 | 117  | 257681   | 142.020  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 683363   | 147.315  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 84419    | 164.981  | ug/l   | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 415880   | 205.190 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.99 | 225  | 233738   | 136.358 | ug/l  | 100      |
| 95) Naphthalene            | 15.10 | 128  | 978904   | 216.525 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 400241   | 196.628 | ug/l  | 98       |

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

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