

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031921\  
 Data File : VN066278.D  
 Acq On : 19 Mar 2021 14:20  
 Operator : JC/MD  
 Sample : VN0319WBSD01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0319WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 3/22/2021 11:50:29 AM

Quant Time: Mar 20 04:57:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031621W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 17 05:05:15 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.587          | 168  | 257373     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.518          | 114  | 374477     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.347         | 117  | 350324     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.286         | 152  | 174490     | 50.00   | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 7.952          | 65   | 133357     | 35.96   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 71.92%# |        |          |
| 35) Dibromofluoromethane     | 7.512          | 113  | 105701     | 44.25   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 88.50%  |        |          |
| 50) Toluene-d8               | 10.028         | 98   | 393918     | 42.64   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 85.28%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.345         | 95   | 130964     | 39.33   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 78.66%# |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.821          | 85   | 33570      | 13.26   | ug/l   | 94       |
| 3) Chloromethane             | 2.017          | 50   | 52952      | 12.75   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.148          | 62   | 47153      | 12.90   | ug/l   | 99       |
| 5) Bromomethane              | 2.521          | 94   | 29406      | 14.06   | ug/l   | 93       |
| 6) Chloroethane              | 2.658          | 64   | 29254      | 13.84   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 2.969          | 101  | 62384      | 14.58   | ug/l   | 94       |
| 8) Diethyl Ether             | 3.347          | 74   | 22224      | 12.72   | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 3.682          | 101  | 31322      | 13.81   | ug/l # | 75       |
| 10) Methyl Iodide            | 3.873          | 142  | 40226      | 12.53   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.723          | 59   | 44323m     | 70.03   | ug/l   |          |
| 12) 1,1-Dichloroethene       | 3.661          | 96   | 30389      | 12.58   | ug/l   | 99       |
| 13) Acrolein                 | 3.535          | 56   | 44043      | 76.29   | ug/l   | 93       |
| 14) Allyl chloride           | 4.237          | 41   | 82344      | 14.38   | ug/l   | 98       |
| 15) Acrylonitrile            | 4.886          | 53   | 125603     | 66.26   | ug/l   | 96       |
| 16) Acetone                  | 3.744          | 43   | 130938     | 73.51   | ug/l   | 100      |
| 17) Carbon Disulfide         | 3.972          | 76   | 83399      | 12.22   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.243          | 43   | 76570      | 15.36   | ug/l # | 83       |
| 19) Methyl tert-butyl Ether  | 4.948          | 73   | 120106     | 13.00   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.457          | 84   | 38633      | 13.86   | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 4.940          | 96   | 40398      | 15.09   | ug/l # | 75       |
| 22) Diisopropyl ether        | 5.868          | 45   | 139290     | 11.84   | ug/l # | 96       |
| 23) Vinyl Acetate            | 5.804          | 43   | 551385     | 54.68   | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 5.753          | 63   | 79012      | 13.48   | ug/l   | 96       |
| 25) 2-Butanone               | 6.750          | 43   | 163290     | 59.02   | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 6.729          | 77   | 67264      | 13.88   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.737          | 96   | 43125      | 13.97   | ug/l   | 87       |
| 28) Bromochloromethane       | 7.110          | 49   | 36126      | 11.66   | ug/l # | 72       |
| 29) Tetrahydrofuran          | 7.137          | 42   | 106721     | 56.01   | ug/l   | 90       |
| 30) Chloroform               | 7.287          | 83   | 76308      | 14.26   | ug/l   | 99       |
| 31) Cyclohexane              | 7.571          | 56   | 62789      | 11.30   | ug/l # | 91       |
| 32) 1,1,1-Trichloroethane    | 7.491          | 97   | 64203      | 13.96   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.713          | 75   | 51901      | 13.69   | ug/l   | 95       |
| 37) Ethyl Acetate            | 6.844          | 43   | 64785      | 11.95   | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 7.692          | 117  | 54430      | 16.01   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.014          | 83   | 52915      | 12.99   | ug/l   | 99       |
| 40) Benzene                  | 7.965          | 78   | 169941     | 14.93   | ug/l   | 100      |

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 ALS Vial : 8 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Wed Mar 17 05:05:15 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.088  | 41   | 30718    | 11.49  | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.051  | 62   | 57800    | 13.99  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.097  | 43   | 100181   | 11.95  | ug/l # | 91       |
| 44) Trichloroethene           | 8.767  | 130  | 45297    | 16.37  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.052  | 63   | 49156    | 14.92  | ug/l   | 98       |
| 46) Dibromomethane            | 9.143  | 93   | 29456    | 16.05  | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.336  | 83   | 59330    | 14.82  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.137  | 41   | 45718    | 11.51  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.137  | 88   | 12730    | 295.29 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 9.923  | 43   | 320903   | 63.35  | ug/l   | 96       |
| 52) Toluene                   | 10.095 | 92   | 100298   | 15.20  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.323 | 75   | 62593    | 13.83  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.776  | 75   | 68053    | 13.84  | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 10.503 | 97   | 44789    | 16.57  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.371 | 69   | 52682    | 12.61  | ug/l # | 87       |
| 57) 1,3-Dichloropropane       | 10.647 | 76   | 71064    | 14.57  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.634  | 63   | 34601    | 99.05  | ug/l   | 92       |
| 59) 2-Hexanone                | 10.693 | 43   | 221842   | 57.05  | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.843 | 129  | 44455    | 15.70  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 10.945 | 107  | 42538    | 15.80  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.572 | 164  | 50539    | 17.39  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.374 | 112  | 146510   | 20.84  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.452 | 131  | 42819    | 16.26  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.455 | 91   | 171180   | 13.73  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.565 | 106  | 137882   | 29.81  | ug/l   | 89       |
| 69) o-Xylene                  | 11.892 | 106  | 62094    | 13.98  | ug/l   | 91       |
| 70) Styrene                   | 11.905 | 104  | 107831   | 14.65  | ug/l   | 94       |
| 71) Bromoform                 | 12.069 | 173  | 34285    | 16.42  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.192 | 105  | 161432   | 13.20  | ug/l   | 96       |
| 74) N-amyl acetate            | 12.015 | 43   | 51461    | 9.41   | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.447 | 83   | 62186    | 14.55  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.498 | 75   | 60352m   | 13.39  | ug/l   |          |
| 77) Bromobenzene              | 12.468 | 156  | 47545    | 14.82  | ug/l   | 86       |
| 78) n-propylbenzene           | 12.535 | 91   | 191026   | 13.58  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.619 | 91   | 118204   | 13.76  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 12.678 | 105  | 139426   | 13.74  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-b... | 12.246 | 75   | 17461    | 11.60  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.718 | 91   | 120380   | 13.24  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 12.938 | 119  | 111840   | 12.64  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 12.983 | 105  | 130901   | 13.20  | ug/l   | 89       |
| 85) sec-Butylbenzene          | 13.115 | 105  | 150870   | 13.30  | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.233 | 119  | 130442   | 13.11  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.225 | 146  | 85009    | 15.64  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.305 | 146  | 87137    | 15.31  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.560 | 91   | 106948   | 12.48  | ug/l   | 96       |
| 90) Hexachloroethane          | 13.812 | 117  | 25783    | 14.80  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.598 | 146  | 83521    | 15.60  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.212 | 75   | 12652    | 13.88  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 14.850 | 180  | 52930    | 15.13  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 14.949 | 225  | 28147    | 16.55  | ug/l   | 98       |
| 95) Naphthalene               | 15.070 | 128  | 146265   | 14.30  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.250 | 180  | 52796    | 15.15  | ug/l   | 98       |

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ALS Vial : 8 Sample Multiplier: 1

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

