

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110323\  
 Data File : VN079841.D  
 Acq On : 03 Nov 2023 11:54  
 Operator : JC\MD  
 Sample : VN1103WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1103WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/04/2023  
 Supervised By : Mahesh Dadoda 11/06/2023

Quant Time: Nov 04 00:49:17 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 307356              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 527259              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 484426              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 213799              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 244374              | 52.187  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 104.380% |         |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 188791              | 50.591  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 101.180% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 708500              | 51.573  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 103.140% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 231246              | 50.755  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 101.500% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 80335               | 21.699  | ug/l   | 99       |
| 3) Chloromethane             | 2.359          | 50   | 88457               | 18.343  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.512          | 62   | 110944              | 22.893  | ug/l   | 96       |
| 5) Bromomethane              | 2.953          | 94   | 65670               | 22.303  | ug/l   | 91       |
| 6) Chloroethane              | 3.118          | 64   | 85646               | 22.367  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 121956              | 20.233  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.959          | 74   | 42960               | 18.782  | ug/l   | 61       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 70712               | 20.237  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.595          | 142  | 73716               | 18.474  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 50084               | 83.786  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.348          | 96   | 66162               | 19.999  | ug/l # | 78       |
| 13) Acrolein                 | 4.177          | 56   | 60867               | 117.990 | ug/l   | 99       |
| 14) Allyl chloride           | 5.024          | 41   | 102195              | 20.168  | ug/l # | 91       |
| 15) Acrylonitrile            | 5.718          | 53   | 184353              | 98.964  | ug/l   | 99       |
| 16) Acetone                  | 4.424          | 43   | 177874              | 108.141 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.712          | 76   | 183843              | 19.265  | ug/l   | 98       |
| 18) Methyl Acetate           | 5.024          | 43   | 153892              | 19.556  | ug/l # | 84       |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 224718              | 19.729  | ug/l # | 91       |
| 20) Methylene Chloride       | 5.277          | 84   | 80996               | 19.515  | ug/l # | 78       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 72852               | 19.744  | ug/l # | 80       |
| 22) Diisopropyl ether        | 6.671          | 45   | 261036              | 22.230  | ug/l # | 89       |
| 23) Vinyl Acetate            | 6.606          | 43   | 660347              | 101.948 | ug/l # | 86       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 156328              | 21.903  | ug/l   | 97       |
| 25) 2-Butanone               | 7.488          | 43   | 244346              | 101.446 | ug/l # | 83       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 124856              | 21.152  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 87986               | 19.935  | ug/l   | 85       |
| 28) Bromochloromethane       | 7.812          | 49   | 72987               | 20.984  | ug/l # | 75       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 157391              | 100.436 | ug/l # | 75       |
| 30) Chloroform               | 7.971          | 83   | 158842              | 20.488  | ug/l   | 93       |
| 31) Cyclohexane              | 8.259          | 56   | 126575              | 20.456  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 133414              | 21.120  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 114910              | 21.566  | ug/l   | 94       |
| 37) Ethyl Acetate            | 7.565          | 43   | 97375               | 19.927  | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 112923              | 21.029  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.606          | 83   | 102752              | 20.491  | ug/l # | 82       |
| 40) Benzene                  | 8.606          | 78   | 345053              | 21.621  | ug/l   | 100      |

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 ALS Vial : 5 Sample Multiplier: 1

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 MSVOA\_N  
 ClientSampleId :  
 VN1103WBS01

Quant Time: Nov 04 00:49:17 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/04/2023  
 Supervised By : Mahesh Dadoda 11/06/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 55918    | 21.549  | ug/l # | 84       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 125603   | 22.531  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 163411   | 19.068  | ug/l # | 92       |
| 44) Trichloroethene           | 9.353  | 130  | 81984    | 20.702  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 92365    | 22.647  | ug/l   | 94       |
| 46) Dibromomethane            | 9.712  | 93   | 59045    | 21.203  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.888  | 83   | 123452   | 20.786  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.682  | 41   | 77923    | 20.759  | ug/l # | 81       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 25222    | 380.269 | ug/l # | 79       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 503385   | 104.335 | ug/l   | 90       |
| 52) Toluene                   | 10.635 | 92   | 204934   | 21.661  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 122197   | 20.988  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 136275   | 21.474  | ug/l # | 91       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 79965    | 21.013  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 108221   | 19.937  | ug/l # | 79       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 145237   | 21.652  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 263888   | 95.919  | ug/l # | 87       |
| 59) 2-Hexanone                | 11.200 | 43   | 368724   | 99.901  | ug/l   | 87       |
| 60) Dibromochloromethane      | 11.359 | 129  | 84865    | 20.834  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 77566    | 20.308  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 70070    | 22.334  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.894 | 112  | 214932   | 20.454  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 81279    | 21.468  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.965 | 91   | 372285   | 20.335  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.071 | 106  | 282153   | 41.372  | ug/l   | 95       |
| 69) o-Xylene                  | 12.400 | 106  | 134698   | 20.510  | ug/l   | 93       |
| 70) Styrene                   | 12.412 | 104  | 225958   | 21.409  | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 54267    | 20.186  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 335487   | 20.676  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.494 | 43   | 133663   | 18.872  | ug/l # | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 114850   | 19.963  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 100493m  | 20.021  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 82321    | 20.722  | ug/l   | 96       |
| 78) n-propylbenzene           | 13.035 | 91   | 404020   | 21.743  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 247399   | 20.842  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 270066   | 21.393  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 37495    | 20.324  | ug/l # | 86       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 245076   | 20.777  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 221976   | 21.481  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 274474   | 22.098  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 313257   | 21.880  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 251891   | 21.580  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 151178   | 20.457  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 148026   | 19.734  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 207579   | 20.647  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.335 | 117  | 48729    | 21.079  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 142931   | 20.488  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 18400    | 18.860  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 65887    | 19.863  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 32101    | 21.347  | ug/l   | 98       |
| 95) Naphthalene               | 15.641 | 128  | 174202   | 15.486  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 60335    | 18.556  | ug/l   | 94       |

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

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

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