

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072922\  
 Data File : VN073638.D  
 Acq On : 29 Jul 2022 16:34  
 Operator : JC\MD  
 Sample : VN0729WBS02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0729WBS02

Quant Time: Aug 01 04:05:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 29 02:20:25 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/01/2022  
 Supervised By : Mahesh Dadoda 08/01/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.022          | 168  | 340458              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.904          | 114  | 561658              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.686         | 117  | 516833              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.615         | 152  | 234964              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.375          | 65   | 220329              | 53.104  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 106.200% |         |        |          |
| 35) Dibromofluoromethane     | 7.951          | 113  | 182352              | 51.704  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 103.400% |         |        |          |
| 50) Toluene-d8               | 10.380         | 98   | 738745              | 53.229  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 106.460% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.674         | 95   | 228569              | 49.408  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 98.820%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.046          | 85   | 65293               | 19.773  | ug/l   | 99       |
| 3) Chloromethane             | 2.269          | 50   | 92822               | 21.983  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.404          | 62   | 116197              | 20.119  | ug/l   | 97       |
| 5) Bromomethane              | 2.804          | 94   | 66080               | 19.728  | ug/l   | 97       |
| 6) Chloroethane              | 2.969          | 64   | 75450               | 21.172  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.310          | 101  | 145377              | 24.424  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.763          | 74   | 43913               | 19.648  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.140          | 101  | 66597               | 20.223  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.351          | 142  | 66854               | 19.970  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.292          | 59   | 92182               | 103.020 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.116          | 96   | 63877               | 19.775  | ug/l   | 95       |
| 13) Acrolein                 | 3.987          | 56   | 80202               | 90.410  | ug/l   | 97       |
| 14) Allyl chloride           | 4.763          | 41   | 97045               | 18.791  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.475          | 53   | 256346              | 103.567 | ug/l   | 99       |
| 16) Acetone                  | 4.228          | 43   | 214437              | 96.226  | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.457          | 76   | 164922              | 19.256  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.781          | 43   | 111151              | 20.048  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.539          | 73   | 228763              | 20.730  | ug/l   | 100      |
| 20) Methylene Chloride       | 5.010          | 84   | 85724               | 22.569  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.516          | 96   | 70218               | 20.081  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.416          | 45   | 226619              | 20.340  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.351          | 43   | 954097              | 102.137 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.310          | 63   | 135717              | 19.800  | ug/l   | 98       |
| 25) 2-Butanone               | 7.263          | 43   | 346747              | 100.193 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.251          | 77   | 91150               | 17.284  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.251          | 96   | 84157               | 19.534  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.586          | 49   | 58018               | 20.159  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.616          | 42   | 230805              | 105.483 | ug/l   | 99       |
| 30) Chloroform               | 7.745          | 83   | 142700              | 19.982  | ug/l   | 97       |
| 31) Cyclohexane              | 8.022          | 56   | 118808              | 19.234  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.939          | 97   | 121651              | 20.515  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.151          | 75   | 98124               | 19.521  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.339          | 43   | 134046              | 20.249  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.133          | 117  | 98993               | 19.390  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.398          | 83   | 116395              | 19.377  | ug/l   | 99       |
| 40) Benzene                  | 8.392          | 78   | 323019              | 19.789  | ug/l   | 99       |

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 Sample : VN0729WBS02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0729WBS02

Quant Time: Aug 01 04:05:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 29 02:20:25 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 08/01/2022  
 Supervised By : Mahesh Dadoda 08/01/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.569  | 41   | 59032    | 19.707  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.469  | 62   | 108690   | 19.758  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.492  | 43   | 182825   | 20.447  | ug/l   | 98       |
| 44) Trichloroethene           | 9.151  | 130  | 82269    | 19.875  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.427  | 63   | 80889    | 19.826  | ug/l   | 99       |
| 46) Dibromomethane            | 9.516  | 93   | 57273    | 20.226  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.704  | 83   | 108177   | 19.904  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.498  | 41   | 77069    | 19.691  | ug/l # | 87       |
| 49) 1,4-Dioxane               | 9.510  | 88   | 48114    | 436.101 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.274 | 43   | 675058   | 105.262 | ug/l   | 99       |
| 52) Toluene                   | 10.445 | 92   | 207339   | 20.796  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.663 | 75   | 104745   | 19.509  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.127 | 75   | 118005   | 19.504  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 86502    | 20.806  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.704 | 69   | 121248   | 21.159  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.986 | 76   | 140005   | 19.848  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.986  | 63   | 298885   | 104.588 | ug/l   | 97       |
| 59) 2-Hexanone                | 11.027 | 43   | 516187   | 106.237 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.180 | 129  | 83962    | 20.299  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.286 | 107  | 86073    | 20.101  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.916 | 164  | 84317    | 20.528  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.710 | 112  | 212913   | 19.395  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.786 | 131  | 79203    | 20.115  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.786 | 91   | 374958   | 20.246  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.898 | 106  | 290810   | 41.170  | ug/l   | 100      |
| 69) o-Xylene                  | 12.221 | 106  | 144528   | 20.987  | ug/l   | 99       |
| 70) Styrene                   | 12.233 | 104  | 234068   | 21.233  | ug/l   | 98       |
| 71) Bromoform                 | 12.398 | 173  | 64908    | 19.971  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.521 | 105  | 365827   | 21.269  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.333 | 43   | 135023   | 20.777  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.768 | 83   | 129391   | 19.495  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.821 | 75   | 101116m  | 21.665  | ug/l   |          |
| 77) Bromobenzene              | 12.804 | 156  | 91469    | 20.421  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.863 | 91   | 409604   | 21.165  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.951 | 91   | 248961   | 20.611  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.998 | 105  | 304380   | 21.504  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.568 | 75   | 34508    | 19.033  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.045 | 91   | 238031   | 20.792  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.263 | 119  | 272526   | 21.737  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.310 | 105  | 303216   | 21.786  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.445 | 105  | 370620   | 21.388  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.557 | 119  | 297588   | 21.785  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.557 | 146  | 163155   | 19.956  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.633 | 146  | 162104   | 19.816  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.886 | 91   | 225257   | 20.267  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.151 | 117  | 55578    | 20.507  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.927 | 146  | 169724   | 20.486  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.545 | 75   | 27793    | 20.841  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.198 | 180  | 81579    | 19.828  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.304 | 225  | 45540    | 20.360  | ug/l   | 97       |
| 95) Naphthalene               | 15.433 | 128  | 289076   | 21.652  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.627 | 180  | 90363    | 20.868  | ug/l   | 99       |

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Sample : VN0729WBS02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0729WBS02

Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/01/2022  
Supervised By :Mahesh Dadoda 08/01/2022

Quant Time: Aug 01 04:05:48 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 29 02:20:25 2022  
Response via : Initial Calibration

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

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

