

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021424\  
 Data File : VN081020.D  
 Acq On : 14 Feb 2024 12:37  
 Operator : JC\MD  
 Sample : VSTDIC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC020

Quant Time: Feb 15 07:37:42 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021424W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 15 07:35:29 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/15/2024  
 Supervised By : Mahesh Dadoda 02/15/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 610327     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 1094611    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 947331     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 341458     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 144720     | 19.278   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 38.560%# |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 121867     | 19.418   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 38.840%# |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 424098     | 19.161   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 38.320%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 149797     | 19.899   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 39.800%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 152315     | 19.459   | ug/l   | 97       |
| 3) Chloromethane             | 2.365          | 50   | 189938     | 19.994   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.518          | 62   | 161369     | 19.629   | ug/l   | 92       |
| 5) Bromomethane              | 2.948          | 94   | 84699      | 20.420   | ug/l   | 89       |
| 6) Chloroethane              | 3.112          | 64   | 101705     | 19.242   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 238735     | 20.631   | ug/l   | 90       |
| 8) Diethyl Ether             | 3.953          | 74   | 93137      | 20.301   | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 144239     | 21.122   | ug/l   | 91       |
| 10) Methyl Iodide            | 4.589          | 142  | 142556     | 20.557   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 142182     | 105.586  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 140104     | 21.062   | ug/l   | 100      |
| 13) Acrolein                 | 4.177          | 56   | 114256     | 101.279  | ug/l   | 98       |
| 14) Allyl chloride           | 5.024          | 41   | 219292     | 20.243   | ug/l   | 93       |
| 15) Acrylonitrile            | 5.712          | 53   | 361968     | 104.954  | ug/l   | 98       |
| 16) Acetone                  | 4.424          | 43   | 280220     | 95.352   | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.712          | 76   | 388091     | 20.136   | ug/l   | 97       |
| 18) Methyl Acetate           | 5.024          | 43   | 147103     | 19.005   | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.789          | 73   | 498366     | 21.471   | ug/l   | 94       |
| 20) Methylene Chloride       | 5.277          | 84   | 155288     | 20.286   | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.783          | 96   | 149222     | 20.405   | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.665          | 45   | 495144     | 20.897   | ug/l # | 96       |
| 23) Vinyl Acetate            | 6.600          | 43   | 2045920    | 107.150  | ug/l # | 95       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 286196     | 21.660   | ug/l   | 98       |
| 25) 2-Butanone               | 7.483          | 43   | 487623     | 102.206  | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.489          | 77   | 258868     | 21.287   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.489          | 96   | 177389     | 20.988   | ug/l   | 88       |
| 28) Bromochloromethane       | 7.812          | 49   | 109355     | 20.500   | ug/l # | 73       |
| 29) Tetrahydrofuran          | 7.836          | 42   | 315853     | 103.012  | ug/l # | 88       |
| 30) Chloroform               | 7.965          | 83   | 292908     | 20.656   | ug/l   | 100      |
| 31) Cyclohexane              | 8.253          | 56   | 261097     | 20.021   | ug/l # | 83       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 261348     | 20.872   | ug/l   | 90       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 216846     | 20.708   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.559          | 43   | 208523     | 21.769   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 166787     | 21.760   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.600          | 83   | 270193     | 20.973   | ug/l   | 91       |
| 40) Benzene                  | 8.606          | 78   | 641789     | 20.726   | ug/l   | 100      |

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC020

Quant Time: Feb 15 07:37:42 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021424W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 15 07:35:29 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/15/2024  
 Supervised By : Mahesh Dadoda 02/15/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 118544   | 20.387  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 225095   | 20.479  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.688  | 43   | 363399   | 20.249  | ug/l # | 96       |
| 44) Trichloroethene           | 9.353  | 130  | 188537   | 20.556  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 162416   | 21.203  | ug/l   | 100      |
| 46) Dibromomethane            | 9.706  | 93   | 112189   | 20.749  | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.888  | 83   | 222950   | 21.039  | ug/l # | 96       |
| 48) Methyl methacrylate       | 9.677  | 41   | 172354   | 20.398  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 71074    | 451.601 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1050578  | 104.970 | ug/l   | 96       |
| 52) Toluene                   | 10.630 | 92   | 411424   | 21.270  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 263170   | 21.080  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 278378   | 21.084  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 155740   | 21.411  | ug/l   | 91       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 253298   | 21.268  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 269868   | 20.768  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 607994   | 102.880 | ug/l # | 89       |
| 59) 2-Hexanone                | 11.194 | 43   | 777739   | 105.810 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.359 | 129  | 146441   | 21.172  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 160332   | 20.963  | ug/l   | 96       |
| 64) Tetrachloroethene         | 11.106 | 164  | 201820   | 20.897  | ug/l   | 91       |
| 65) Chlorobenzene             | 11.894 | 112  | 410826   | 20.681  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 144514   | 21.131  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.965 | 91   | 794884   | 21.225  | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.071 | 106  | 594998   | 43.083  | ug/l   | 97       |
| 69) o-Xylene                  | 12.400 | 106  | 284466   | 21.238  | ug/l   | 97       |
| 70) Styrene                   | 12.412 | 104  | 455546   | 21.339  | ug/l   | 99       |
| 71) Bromoform                 | 12.582 | 173  | 74469    | 21.403  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.694 | 105  | 734881   | 21.301  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.494 | 43   | 337553   | 21.267  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 179251   | 21.169  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 158232m  | 21.332  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 148926   | 21.313  | ug/l   | 77       |
| 78) n-propylbenzene           | 13.035 | 91   | 857173   | 21.774  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 482373   | 21.215  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 575130   | 21.487  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 69078    | 21.313  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 455984   | 20.752  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 491223   | 21.431  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 551942   | 21.402  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 687265   | 21.856  | ug/l   | 94       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 550128   | 21.755  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 248085   | 20.878  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 253501   | 20.648  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 475543   | 20.545  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.341 | 117  | 7013     | 20.092  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 244818   | 21.254  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 39285    | 22.018  | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 141715   | 20.536  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 58083    | 20.351  | ug/l   | 95       |
| 95) Naphthalene               | 15.641 | 128  | 504260   | 20.540  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 139586   | 20.641  | ug/l   | 96       |

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Sample : VSTDICC020  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/15/2024  
Supervised By :Mahesh Dadoda 02/15/2024

Quant Time: Feb 15 07:37:42 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021424W.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 15 07:35:29 2024  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

