

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031824\  
 Data File : VN081454.D  
 Acq On : 18 Mar 2024 16:51  
 Operator : JC\MD  
 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC020

Quant Time: Mar 19 05:43:52 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031824W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 05:35:05 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 03/19/2024  
 Supervised By : Mahesh Dadoda 03/19/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 445921     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 749761     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 672392     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 312506     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 110007     | 19.345   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 38.680%# |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 92274      | 19.501   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 39.000%# |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 337098     | 19.708   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 39.420%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 119531     | 19.832   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 64 - 133 |      | Recovery = | 39.660%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 116444     | 19.393   | ug/l   | 97       |
| 3) Chloromethane             | 2.359          | 50   | 116976     | 19.567   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.512          | 62   | 131224     | 19.559   | ug/l   | 93       |
| 5) Bromomethane              | 2.948          | 94   | 93056      | 19.612   | ug/l   | 89       |
| 6) Chloroethane              | 3.112          | 64   | 84679      | 18.383   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 197327     | 19.735   | ug/l   | 91       |
| 8) Diethyl Ether             | 3.959          | 74   | 63938      | 19.322   | ug/l   | 81       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 108798     | 19.150   | ug/l # | 88       |
| 10) Methyl Iodide            | 4.589          | 142  | 108490     | 19.175   | ug/l   | 94       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 99499      | 100.402  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 100991     | 19.190   | ug/l   | 85       |
| 13) Acrolein                 | 4.177          | 56   | 87080      | 97.925   | ug/l   | 95       |
| 14) Allyl chloride           | 5.018          | 41   | 128918     | 19.550   | ug/l # | 84       |
| 15) Acrylonitrile            | 5.724          | 53   | 263143     | 99.255   | ug/l   | 98       |
| 16) Acetone                  | 4.424          | 43   | 169021     | 91.969   | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.712          | 76   | 286208     | 18.952   | ug/l   | 98       |
| 18) Methyl Acetate           | 5.024          | 43   | 98998      | 17.473   | ug/l # | 82       |
| 19) Methyl tert-butyl Ether  | 5.789          | 73   | 331242     | 20.112   | ug/l   | 96       |
| 20) Methylene Chloride       | 5.277          | 84   | 114603     | 19.037   | ug/l # | 81       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 110397     | 18.814   | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.671          | 45   | 311694     | 20.343   | ug/l # | 91       |
| 23) Vinyl Acetate            | 6.600          | 43   | 1251845    | 102.643  | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 196042     | 19.103   | ug/l   | 96       |
| 25) 2-Butanone               | 7.483          | 43   | 305270     | 96.843   | ug/l # | 89       |
| 26) 2,2-Dichloropropane      | 7.489          | 77   | 176049     | 19.779   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.489          | 96   | 130410     | 19.643   | ug/l   | 85       |
| 28) Bromochloromethane       | 7.812          | 49   | 76641      | 18.335   | ug/l # | 54       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 208127     | 98.010   | ug/l # | 78       |
| 30) Chloroform               | 7.965          | 83   | 212411     | 19.334   | ug/l   | 98       |
| 31) Cyclohexane              | 8.259          | 56   | 179968     | 19.448   | ug/l # | 76       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 192231     | 19.286   | ug/l # | 92       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 156412     | 19.642   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.559          | 43   | 140559     | 20.614   | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 171593     | 19.671   | ug/l   | 93       |
| 39) Methylcyclohexane        | 9.600          | 83   | 179236     | 20.156   | ug/l # | 88       |
| 40) Benzene                  | 8.606          | 78   | 465362     | 19.989   | ug/l   | 96       |

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 Sample : VSTDICC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 03/19/2024  
 Supervised By :Mahesh Dadoda 03/19/2024

Quant Time: Mar 19 05:43:52 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031824W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 19 05:35:05 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 74888    | 20.768  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 161709   | 19.738  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 226582   | 20.047  | ug/l # | 94       |
| 44) Trichloroethene           | 9.353  | 130  | 126400   | 19.305  | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 112490   | 19.938  | ug/l   | 98       |
| 46) Dibromomethane            | 9.712  | 93   | 83238    | 19.427  | ug/l # | 86       |
| 47) Bromodichloromethane      | 9.888  | 83   | 163675   | 19.538  | ug/l # | 99       |
| 48) Methyl methacrylate       | 9.682  | 41   | 106428   | 20.415  | ug/l # | 86       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 51598    | 411.852 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 687749   | 99.719  | ug/l   | 91       |
| 52) Toluene                   | 10.629 | 92   | 297917   | 20.134  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 176185   | 19.477  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 193267   | 19.927  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 119668   | 20.096  | ug/l   | 90       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 164911   | 20.151  | ug/l # | 83       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 196442   | 20.123  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 402584   | 107.443 | ug/l # | 85       |
| 59) 2-Hexanone                | 11.194 | 43   | 520478   | 102.072 | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.359 | 129  | 127406   | 19.454  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 122249   | 20.136  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 125723   | 19.561  | ug/l   | 90       |
| 65) Chlorobenzene             | 11.894 | 112  | 318986   | 20.068  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 121504   | 20.624  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.965 | 91   | 561272   | 20.328  | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.071 | 106  | 425790   | 41.135  | ug/l   | 97       |
| 69) o-Xylene                  | 12.400 | 106  | 210931   | 20.757  | ug/l   | 92       |
| 70) Styrene                   | 12.412 | 104  | 340738   | 20.790  | ug/l   | 96       |
| 71) Bromoform                 | 12.576 | 173  | 88012    | 19.881  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.700 | 105  | 538474   | 20.214  | ug/l   | 97       |
| 74) N-amyl acetate            | 12.494 | 43   | 191128   | 19.826  | ug/l # | 86       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 155383   | 19.839  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 145613m  | 19.524  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 128666   | 19.553  | ug/l   | 72       |
| 78) n-propylbenzene           | 13.035 | 91   | 636966   | 20.248  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 374601   | 19.896  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 459690   | 20.893  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 55081    | 19.912  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 375774   | 20.243  | ug/l   | 91       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 383160   | 20.195  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 467932   | 21.160  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 551478   | 20.333  | ug/l   | 94       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 467926   | 21.105  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 244441   | 20.218  | ug/l   | 94       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 246094   | 19.658  | ug/l   | 96       |
| 89) n-Butylbenzene            | 14.059 | 91   | 396392   | 20.162  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.341 | 117  | 81960    | 19.519  | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 232568   | 19.986  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 33316    | 19.988  | ug/l   | 76       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 131699   | 19.573  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 57541    | 19.491  | ug/l   | 92       |
| 95) Naphthalene               | 15.647 | 128  | 437946   | 20.087  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 131412   | 19.417  | ug/l   | 98       |

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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020

Manual Integrations  
APPROVED

Reviewed By :John Carlone 03/19/2024  
Supervised By :Mahesh Dadoda 03/19/2024

Quant Time: Mar 19 05:43:52 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031824W.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 19 05:35:05 2024  
Response via : Initial Calibration

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

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

