

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022824\  
 Data File : VN081236.D  
 Acq On : 28 Feb 2024 11:33  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/29/2024  
 Supervised By : Mahesh Dadoda 02/29/2024

Quant Time: Feb 28 23:22:36 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 277958              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 510280              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 473222              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 222605              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 182959              | 53.701  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 107.400% |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 154291              | 53.472  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 106.940% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 505730              | 49.347  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 98.700%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 204911              | 53.211  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 106.420% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 184607              | 51.356  | ug/l   | 95       |
| 3) Chloromethane             | 2.365          | 50   | 182316              | 46.395  | ug/l   | 92       |
| 4) Vinyl Chloride            | 2.512          | 62   | 203486              | 50.963  | ug/l   | 93       |
| 5) Bromomethane              | 2.948          | 94   | 117975              | 41.600  | ug/l   | 97       |
| 6) Chloroethane              | 3.118          | 64   | 141150              | 54.759  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 305339              | 52.345  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.959          | 74   | 112405              | 52.707  | ug/l   | 85       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 176022              | 54.131  | ug/l   | 94       |
| 10) Methyl Iodide            | 4.589          | 142  | 170712              | 47.032  | ug/l # | 97       |
| 11) Tert butyl alcohol       | 5.512          | 59   | 162629              | 259.559 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 160238              | 50.977  | ug/l   | 89       |
| 13) Acrolein                 | 4.183          | 56   | 104841              | 312.192 | ug/l   | 99       |
| 14) Allyl chloride           | 5.024          | 41   | 231640              | 49.666  | ug/l # | 89       |
| 15) Acrylonitrile            | 5.724          | 53   | 481820              | 294.445 | ug/l   | 98       |
| 16) Acetone                  | 4.424          | 43   | 347491              | 259.211 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.712          | 76   | 380826              | 43.436  | ug/l   | 98       |
| 18) Methyl Acetate           | 5.024          | 43   | 218967              | 66.957  | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.795          | 73   | 589360              | 54.743  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.277          | 84   | 194783              | 56.282  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 177098              | 50.498  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.677          | 45   | 592699              | 56.021  | ug/l # | 93       |
| 23) Vinyl Acetate            | 6.606          | 43   | 2345168             | 273.205 | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 341801              | 55.873  | ug/l   | 96       |
| 25) 2-Butanone               | 7.489          | 43   | 616733              | 284.768 | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 276189              | 48.184  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.489          | 96   | 217217              | 53.310  | ug/l   | 87       |
| 28) Bromochloromethane       | 7.818          | 49   | 159758              | 62.993  | ug/l # | 70       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 415393              | 287.324 | ug/l # | 87       |
| 30) Chloroform               | 7.971          | 83   | 375079              | 57.675  | ug/l   | 97       |
| 31) Cyclohexane              | 8.259          | 56   | 275970              | 46.912  | ug/l # | 74       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 326500              | 55.126  | ug/l   | 94       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 260867              | 52.770  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.565          | 43   | 253681              | 56.860  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 273232              | 54.631  | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.606          | 83   | 294113              | 51.038  | ug/l   | 89       |
| 40) Benzene                  | 8.612          | 78   | 790703              | 55.260  | ug/l   | 97       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/29/2024  
 Supervised By : Mahesh Dadoda 02/29/2024

Quant Time: Feb 28 23:22:36 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 138330   | 54.479   | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 283601   | 56.810   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.694  | 43   | 430676   | 55.195   | ug/l # | 96       |
| 44) Trichloroethene           | 9.359  | 130  | 198110   | 51.983   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 203758   | 56.927   | ug/l   | 99       |
| 46) Dibromomethane            | 9.712  | 93   | 150056   | 57.539   | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.888  | 83   | 291733   | 59.065   | ug/l # | 98       |
| 48) Methyl methacrylate       | 9.682  | 41   | 200438   | 55.206   | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 87225    | 1318.218 | ug/l # | 83       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1379010  | 307.224  | ug/l   | 96       |
| 52) Toluene                   | 10.635 | 92   | 511762   | 56.495   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 306874   | 55.910   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 331496   | 55.900   | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 207580   | 59.580   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 308712   | 57.977   | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 355508   | 59.013   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 724476   | 271.168  | ug/l # | 88       |
| 59) 2-Hexanone                | 11.200 | 43   | 1021798  | 287.136  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.365 | 129  | 210269   | 56.810   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 205401   | 56.063   | ug/l   | 95       |
| 64) Tetrachloroethene         | 11.106 | 164  | 194196   | 60.127   | ug/l   | 93       |
| 65) Chlorobenzene             | 11.894 | 112  | 537041   | 52.435   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 203506   | 55.321   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.965 | 91   | 978413   | 53.386   | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.076 | 106  | 748002   | 106.481  | ug/l   | 96       |
| 69) o-Xylene                  | 12.400 | 106  | 365632   | 52.508   | ug/l   | 96       |
| 70) Styrene                   | 12.412 | 104  | 621164   | 56.294   | ug/l   | 96       |
| 71) Bromoform                 | 12.582 | 173  | 137095   | 58.741   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.700 | 105  | 965978   | 49.597   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 401517   | 48.778   | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 289356   | 52.835   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 234666m  | 46.397   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 218815   | 50.387   | ug/l   | 78       |
| 78) n-propylbenzene           | 13.041 | 91   | 1162420  | 51.845   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 685356   | 49.835   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 824172   | 52.191   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 97253    | 49.493   | ug/l # | 80       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 678531   | 50.460   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 708891   | 51.916   | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 835400   | 53.089   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 1026743  | 54.089   | ug/l   | 94       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 837145   | 53.094   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 414103   | 50.468   | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 415378   | 51.519   | ug/l   | 96       |
| 89) n-Butylbenzene            | 14.059 | 91   | 743480   | 54.125   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.335 | 117  | 145164   | 55.699   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 395164   | 49.933   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 56848    | 49.926   | ug/l   | 78       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 223362   | 50.590   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 79549    | 48.311   | ug/l   | 98       |
| 95) Naphthalene               | 15.647 | 128  | 798875   | 49.377   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 217598   | 49.681   | ug/l   | 98       |

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Sample : VSTDCCC050  
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ALS Vial : 2 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/29/2024  
Supervised By :Mahesh Dadoda 02/29/2024

Quant Time: Feb 28 23:22:36 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 16 23:45:20 2024  
Response via : Initial Calibration

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

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

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