

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050222\  
 Data File : VN072303.D  
 Acq On : 02 May 2022 19:25  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: May 03 03:14:01 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 05/03/2022  
 Supervised By : Mahesh Dadoda 05/03/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|-------|----------|
| -----                        |                |      |                     |         |       |          |
| Internal Standards           |                |      |                     |         |       |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 202114              | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 330991              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 310823              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.668         | 152  | 132946              | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.434          | 65   | 176930              | 57.021  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 114.040% |         |       |          |
| 35) Dibromofluoromethane     | 8.022          | 113  | 114896              | 54.234  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 108.460% |         |       |          |
| 50) Toluene-d8               | 10.439         | 98   | 441944              | 53.089  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 106.180% |         |       |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 167077              | 60.468  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 120.940% |         |       |          |
| Target Compounds             |                |      |                     |         |       |          |
|                              |                |      |                     |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 114411              | 50.506  | ug/l  | 98       |
| 3) Chloromethane             | 2.299          | 50   | 91405               | 35.726  | ug/l  | 99       |
| 4) Vinyl Chloride            | 2.440          | 62   | 86773               | 38.138  | ug/l  | 93       |
| 5) Bromomethane              | 2.834          | 94   | 55999               | 51.482  | ug/l  | 97       |
| 6) Chloroethane              | 3.004          | 64   | 54254               | 41.918  | ug/l  | 96       |
| 7) Trichlorofluoromethane    | 3.369          | 101  | 204725              | 51.504  | ug/l  | 98       |
| 8) Diethyl Ether             | 3.828          | 74   | 64762               | 44.994  | ug/l  | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 4.210          | 101  | 95138               | 45.565  | ug/l  | 94       |
| 10) Methyl Iodide            | 4.416          | 142  | 120512              | 47.549  | ug/l  | # 78     |
| 11) Tert butyl alcohol       | 5.369          | 59   | 137592              | 269.833 | ug/l  | 100      |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 85761               | 44.427  | ug/l  | 86       |
| 13) Acrolein                 | 4.040          | 56   | 103640              | 201.966 | ug/l  | 99       |
| 14) Allyl chloride           | 4.840          | 41   | 158812              | 39.624  | ug/l  | 92       |
| 15) Acrylonitrile            | 5.551          | 53   | 324425              | 210.837 | ug/l  | 99       |
| 16) Acetone                  | 4.287          | 43   | 304976              | 227.971 | ug/l  | 93       |
| 17) Carbon Disulfide         | 4.534          | 76   | 183535              | 40.480  | ug/l  | 98       |
| 18) Methyl Acetate           | 4.851          | 43   | 154125              | 41.204  | ug/l  | 96       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 400356              | 52.910  | ug/l  | 91       |
| 20) Methylene Chloride       | 5.098          | 84   | 106869              | 41.675  | ug/l  | 91       |
| 21) trans-1,2-Dichloroethene | 5.598          | 96   | 90453               | 42.494  | ug/l  | 85       |
| 22) Diisopropyl ether        | 6.492          | 45   | 339446              | 41.117  | ug/l  | 95       |
| 23) Vinyl Acetate            | 6.428          | 43   | 1501626             | 216.576 | ug/l  | 98       |
| 24) 1,1-Dichloroethane       | 6.387          | 63   | 202831              | 43.923  | ug/l  | 99       |
| 25) 2-Butanone               | 7.334          | 43   | 443676              | 208.248 | ug/l  | 94       |
| 26) 2,2-Dichloropropane      | 7.322          | 77   | 188360              | 52.218  | ug/l  | 94       |
| 27) cis-1,2-Dichloroethene   | 7.322          | 96   | 115956              | 44.685  | ug/l  | 87       |
| 28) Bromochloromethane       | 7.657          | 49   | 86842               | 41.998  | ug/l  | 87       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 281215              | 201.128 | ug/l  | 97       |
| 30) Chloroform               | 7.816          | 83   | 229679              | 49.536  | ug/l  | 98       |
| 31) Cyclohexane              | 8.092          | 56   | 158236              | 38.166  | ug/l  | 95       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 220021              | 55.762  | ug/l  | 99       |
| 36) 1,1-Dichloropropene      | 8.216          | 75   | 153876              | 49.901  | ug/l  | 94       |
| 37) Ethyl Acetate            | 7.410          | 43   | 181870              | 44.411  | ug/l  | 97       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 188886              | 57.192  | ug/l  | 98       |
| 39) Methylcyclohexane        | 9.457          | 83   | 163112              | 47.294  | ug/l  | 97       |
| 40) Benzene                  | 8.457          | 78   | 437868              | 45.779  | ug/l  | 98       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/03/2022  
 Supervised By : Mahesh Dadoda 05/03/2022

Quant Time: May 03 03:14:01 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.634  | 41   | 93791    | 45.273   | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 204342   | 55.803   | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 286805   | 44.692   | ug/l   | 97       |
| 44) Trichloroethene           | 9.216  | 130  | 105334   | 47.341   | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 111535   | 43.154   | ug/l   | 98       |
| 46) Dibromomethane            | 9.575  | 93   | 81646    | 50.427   | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.757  | 83   | 186172   | 54.801   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.557  | 41   | 141629   | 52.357   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 51352    | 1080.688 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43   | 906707   | 234.661  | ug/l   | 96       |
| 52) Toluene                   | 10.504 | 92   | 287619   | 50.300   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 193731   | 56.729   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 195861   | 53.032   | ug/l # | 92       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 119111   | 49.680   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 197438   | 47.163   | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 206378   | 49.053   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 220375   | 198.977  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.080 | 43   | 671208   | 246.556  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.233 | 129  | 136444   | 55.654   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 120495   | 51.103   | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.975 | 164  | 90652    | 48.452   | ug/l   | 93       |
| 65) Chlorobenzene             | 11.769 | 112  | 300502   | 47.849   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 127822   | 54.015   | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.839 | 91   | 576606   | 52.647   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.951 | 106  | 422939   | 103.991  | ug/l   | 86       |
| 69) o-Xylene                  | 12.274 | 106  | 212928   | 54.004   | ug/l   | 87       |
| 70) Styrene                   | 12.292 | 104  | 345406   | 55.616   | ug/l # | 92       |
| 71) Bromoform                 | 12.457 | 173  | 101699   | 57.783   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.574 | 105  | 585439   | 49.859   | ug/l   | 95       |
| 74) N-amyl acetate            | 12.386 | 43   | 198187   | 45.052   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 182038   | 46.379   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 150460m  | 48.753   | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 125565   | 45.220   | ug/l   | 85       |
| 78) n-propylbenzene           | 12.916 | 91   | 634971   | 49.088   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 410633   | 48.330   | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 497794   | 50.906   | ug/l   | 92       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 54602    | 47.489   | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 393174   | 49.712   | ug/l   | 93       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 430938   | 50.192   | ug/l   | 90       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 484474   | 51.206   | ug/l   | 94       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 570455   | 50.963   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 472329   | 54.125   | ug/l   | 93       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 216485   | 48.171   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 212804   | 48.692   | ug/l   | 95       |
| 89) n-Butylbenzene            | 13.939 | 91   | 357212   | 53.441   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.204 | 117  | 87593    | 46.238   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 215626   | 48.679   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 41174    | 50.701   | ug/l   | 78       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 100380   | 49.068   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.362 | 225  | 60187    | 50.707   | ug/l   | 99       |
| 95) Naphthalene               | 15.504 | 128  | 322706   | 47.134   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 101615   | 49.803   | ug/l   | 97       |

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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/03/2022  
Supervised By :Mahesh Dadoda 05/03/2022

Quant Time: May 03 03:14:01 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 26 18:50:11 2022  
Response via : Initial Calibration

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

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

