

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061423\  
 Data File : VN078218.D  
 Acq On : 14 Jun 2023 20:09  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/15/2023  
 Supervised By : Mahesh Dadoda 06/15/2023

Quant Time: Jun 15 02:49:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 396534     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 713567     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 633797     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 253775     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 261137     | 49.392  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 98.780% |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 220887     | 48.958  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 97.920% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 841393     | 48.374  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 96.740% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 265530     | 49.107  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 98.220% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 180442     | 40.256  | ug/l   | 100      |
| 3) Chloromethane             | 2.371          | 50   | 200225     | 47.386  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.524          | 62   | 257587     | 43.886  | ug/l   | 96       |
| 5) Bromomethane              | 2.954          | 94   | 190174     | 42.873  | ug/l   | 96       |
| 6) Chloroethane              | 3.124          | 64   | 182382     | 45.582  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 355576     | 44.673  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.971          | 74   | 122043     | 43.638  | ug/l   | 79       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 192104     | 45.732  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.600          | 142  | 266199     | 44.811  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.530          | 59   | 147455     | 201.986 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.348          | 96   | 185881     | 42.927  | ug/l   | 90       |
| 13) Acrolein                 | 4.189          | 56   | 201876     | 250.907 | ug/l   | 96       |
| 14) Allyl chloride           | 5.030          | 41   | 239159     | 45.245  | ug/l   | 91       |
| 15) Acrylonitrile            | 5.730          | 53   | 454424     | 241.442 | ug/l   | 98       |
| 16) Acetone                  | 4.436          | 43   | 344923     | 226.655 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.724          | 76   | 456735     | 40.979  | ug/l   | 96       |
| 18) Methyl Acetate           | 5.036          | 43   | 324473     | 46.312  | ug/l   | 89       |
| 19) Methyl tert-butyl Ether  | 5.806          | 73   | 643390     | 46.569  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.289          | 84   | 223950     | 44.533  | ug/l # | 88       |
| 21) trans-1,2-Dichloroethene | 5.800          | 96   | 206035     | 44.116  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.683          | 45   | 625701     | 50.324  | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.612          | 43   | 1857440    | 251.311 | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 396371     | 48.326  | ug/l   | 97       |
| 25) 2-Butanone               | 7.489          | 43   | 562734     | 240.465 | ug/l   | 88       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 298801     | 49.338  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 253782     | 45.555  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.818          | 49   | 203613     | 54.067  | ug/l   | 90       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 374309     | 239.262 | ug/l   | 85       |
| 30) Chloroform               | 7.977          | 83   | 430837     | 48.780  | ug/l   | 95       |
| 31) Cyclohexane              | 8.265          | 56   | 303188     | 44.704  | ug/l   | 90       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 379499     | 48.942  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 306236     | 47.320  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.571          | 43   | 248860     | 49.224  | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 337818     | 49.436  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.606          | 83   | 278821     | 41.573  | ug/l   | 91       |
| 40) Benzene                  | 8.612          | 78   | 934510     | 48.369  | ug/l   | 99       |

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Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Jun 15 02:49:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By : John Carlone 06/15/2023  
 Supervised By : Mahesh Dadoda 06/15/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.788  | 41   | 127521   | 46.535  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 324250   | 48.948  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 445940   | 46.122  | ug/l # | 93       |
| 44) Trichloroethene           | 9.359  | 130  | 237932   | 46.632  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.630  | 63   | 239186   | 49.758  | ug/l   | 100      |
| 46) Dibromomethane            | 9.712  | 93   | 168656   | 47.634  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.894  | 83   | 343981   | 52.302  | ug/l   | 92       |
| 48) Methyl methacrylate       | 9.688  | 41   | 201870   | 49.752  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 71510    | 838.531 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 1286770  | 252.733 | ug/l   | 94       |
| 52) Toluene                   | 10.635 | 92   | 584333   | 47.902  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 348429   | 50.870  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 376535   | 49.730  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 229231   | 49.676  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 336735   | 50.116  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 11.171 | 76   | 395085   | 50.722  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 703060   | 259.018 | ug/l   | 92       |
| 59) 2-Hexanone                | 11.200 | 43   | 892125   | 251.649 | ug/l   | 91       |
| 60) Dibromochloromethane      | 11.365 | 129  | 254582   | 50.417  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 235612   | 48.654  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.112 | 164  | 179612   | 42.479  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.894 | 112  | 624213   | 45.989  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 241809   | 48.438  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.971 | 91   | 1120835  | 47.858  | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.076 | 106  | 842529   | 94.396  | ug/l   | 97       |
| 69) o-Xylene                  | 12.406 | 106  | 417059   | 47.582  | ug/l   | 97       |
| 70) Styrene                   | 12.418 | 104  | 670957   | 48.624  | ug/l   | 97       |
| 71) Bromoform                 | 12.582 | 173  | 163396   | 50.718  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1022838  | 42.622  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 352671   | 44.627  | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 329596   | 49.933  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 296857m  | 49.482  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 230852   | 41.440  | ug/l   | 98       |
| 78) n-propylbenzene           | 13.041 | 91   | 1152956  | 44.220  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 715010   | 42.484  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 820331   | 42.222  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 91792    | 47.008  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 686940   | 43.733  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 698764   | 41.374  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 818137   | 43.433  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 886896   | 40.122  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 729087   | 40.644  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 393539   | 41.763  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 386157   | 42.469  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 560389   | 39.606  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.335 | 117  | 137371   | 43.152  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 394683   | 42.857  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 52581    | 44.235  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 129386   | 39.432  | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 67934    | 41.798  | ug/l   | 96       |
| 95) Naphthalene               | 15.647 | 128  | 408230   | 36.986  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 141580   | 38.580  | ug/l   | 98       |

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Manual Integrations  
APPROVED

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

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

