

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN092123\  
 Data File : VN079314.D  
 Acq On : 21 Sep 2023 08:57  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Sep 22 02:25:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 05:05:24 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John  
 Carlone

09/22/2023  
 Supervised By :Mahesh  
 Dadoda

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.230  | 168  | 182134   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.106  | 114  | 315823   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.871 | 117  | 293957   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 132817   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.583  | 65    | 134121   | 54.551   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 109.100% |      |
| 35) Dibromofluoromethane    | 8.171  | 113   | 106641   | 50.762   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 101.520% |      |
| 50) Toluene-d8              | 10.571 | 98    | 398648   | 51.680   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 103.360% |      |
| 62) 4-Bromofluorobenzene    | 12.853 | 95    | 130276   | 52.946   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 105.900% |      |

|                              |       |     |         |         |        |     |
|------------------------------|-------|-----|---------|---------|--------|-----|
| Target Compounds             |       |     |         |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 2.130 | 85  | 89931   | 49.903  | ug/l   | 98  |
| 3) Chloromethane             | 2.365 | 50  | 116068  | 49.063  | ug/l   | 96  |
| 4) Vinyl Chloride            | 2.518 | 62  | 135152  | 52.431  | ug/l   | 98  |
| 5) Bromomethane              | 2.948 | 94  | 76076   | 51.345  | ug/l   | 96  |
| 6) Chloroethane              | 3.118 | 64  | 95052   | 57.805  | ug/l   | 98  |
| 7) Trichlorofluoromethane    | 3.495 | 101 | 172989  | 45.830  | ug/l   | 98  |
| 8) Diethyl Ether             | 3.959 | 74  | 62738   | 47.887  | ug/l   | 67  |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 99543   | 49.589  | ug/l   | 98  |
| 10) Methyl Iodide            | 4.589 | 142 | 105576  | 64.295  | ug/l   | 100 |
| 11) Tert butyl alcohol       | 5.524 | 59  | 81531   | 179.616 | ug/l   | 99  |
| 12) 1,1-Dichloroethene       | 4.342 | 96  | 88785   | 45.706  | ug/l   | 84  |
| 13) Acrolein                 | 4.183 | 56  | 92114   | 212.740 | ug/l   | 98  |
| 14) Allyl chloride           | 5.030 | 41  | 143242  | 46.225  | ug/l   | 91  |
| 15) Acrylonitrile            | 5.724 | 53  | 288751  | 245.330 | ug/l   | 99  |
| 16) Acetone                  | 4.430 | 43  | 337389  | 323.109 | ug/l   | 93  |
| 17) Carbon Disulfide         | 4.712 | 76  | 240527  | 39.617  | ug/l   | 100 |
| 18) Methyl Acetate           | 5.030 | 43  | 218338  | 50.876  | ug/l # | 82  |
| 19) Methyl tert-butyl Ether  | 5.794 | 73  | 331737  | 49.794  | ug/l   | 97  |
| 20) Methylene Chloride       | 5.277 | 84  | 116498  | 45.846  | ug/l # | 78  |
| 21) trans-1,2-Dichloroethene | 5.794 | 96  | 108214  | 48.022  | ug/l   | 90  |
| 22) Diisopropyl ether        | 6.677 | 45  | 377416  | 55.509  | ug/l # | 90  |
| 23) Vinyl Acetate            | 6.606 | 43  | 1110121 | 265.451 | ug/l # | 86  |
| 24) 1,1-Dichloroethane       | 6.571 | 63  | 216003  | 51.535  | ug/l   | 99  |
| 25) 2-Butanone               | 7.488 | 43  | 420319  | 277.429 | ug/l # | 79  |
| 26) 2,2-Dichloropropane      | 7.488 | 77  | 182089  | 52.940  | ug/l   | 98  |
| 27) cis-1,2-Dichloroethene   | 7.488 | 96  | 128092  | 49.712  | ug/l   | 86  |
| 28) Bromochloromethane       | 7.818 | 49  | 122583  | 64.686  | ug/l # | 74  |
| 29) Tetrahydrofuran          | 7.841 | 42  | 248469  | 257.709 | ug/l # | 77  |
| 30) Chloroform               | 7.965 | 83  | 228090  | 52.268  | ug/l   | 93  |
| 31) Cyclohexane              | 8.259 | 56  | 168003  | 46.798  | ug/l   | 87  |
| 32) 1,1,1-Trichloroethane    | 8.171 | 97  | 189268  | 50.880  | ug/l   | 92  |
| 36) 1,1-Dichloropropene      | 8.377 | 75  | 161896  | 49.997  | ug/l   | 95  |
| 37) Ethyl Acetate            | 7.565 | 43  | 159391  | 49.350  | ug/l # | 90  |
| 38) Carbon Tetrachloride     | 8.365 | 117 | 162211  | 48.408  | ug/l   | 97  |
| 39) Methylcyclohexane        | 9.606 | 83  | 153497  | 48.057  | ug/l # | 89  |
| 40) Benzene                  | 8.606 | 78  | 477790  | 48.200  | ug/l   | 100 |

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

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

Quant Time: Sep 22 02:25:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 05:05:24 2023  
 Response via : Initial Calibration

09/22/2023  
 Supervised By :Mahesh  
 Dadoda

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |     |
|-------------------------------|--------|------|----------|---------|-------|----------|-----|
| 41) Methacrylonitrile         | 7.783  | 41   | 83773    | 51.443  | ug/l  | #        | 87  |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 182845   | 53.580  | ug/l  |          | 97  |
| 43) Isopropyl Acetate         | 8.688  | 43   | 257910   | 48.939  | ug/l  | #        | 91  |
| 44) Trichloroethene           | 9.353  | 130  | 114292   | 46.804  | ug/l  |          | 98  |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 133338   | 54.200  | ug/l  |          | 98  |
| 46) Dibromomethane            | 9.712  | 93   | 86415    | 51.744  | ug/l  |          | 96  |
| 47) Bromodichloromethane      | 9.894  | 83   | 184682   | 53.991  | ug/l  |          | 99  |
| 48) Methyl methacrylate       | 9.688  | 41   | 121542   | 51.489  | ug/l  | #        | 83  |
| 49) 1,4-Dioxane               | 9.700  | 88   | 44766    | 922.026 | ug/l  | #        | 82  |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 821269   | 268.460 | ug/l  |          | 89  |
| 52) Toluene                   | 10.635 | 92   | 302035   | 49.580  | ug/l  |          | 98  |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 185211   | 51.350  | ug/l  |          | 100 |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 200976   | 52.097  | ug/l  | #        | 92  |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 121184   | 50.697  | ug/l  |          | 96  |
| 56) Ethyl methacrylate        | 10.877 | 69   | 178785   | 52.985  | ug/l  | #        | 82  |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 214284   | 51.857  | ug/l  |          | 98  |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 328231   | 233.140 | ug/l  |          | 89  |
| 59) 2-Hexanone                | 11.200 | 43   | 611665   | 276.055 | ug/l  |          | 87  |
| 60) Dibromochloromethane      | 11.365 | 129  | 130236   | 51.194  | ug/l  |          | 99  |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 116377   | 48.786  | ug/l  |          | 100 |
| 64) Tetrachloroethene         | 11.106 | 164  | 98346    | 45.882  | ug/l  |          | 97  |
| 65) Chlorobenzene             | 11.894 | 112  | 312472   | 46.923  | ug/l  |          | 99  |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 119533   | 47.868  | ug/l  |          | 98  |
| 67) Ethyl Benzene             | 11.965 | 91   | 580719   | 50.983  | ug/l  |          | 97  |
| 68) m/p-Xylenes               | 12.076 | 106  | 435144   | 102.492 | ug/l  |          | 95  |
| 69) o-Xylene                  | 12.400 | 106  | 209733   | 51.508  | ug/l  |          | 96  |
| 70) Styrene                   | 12.418 | 104  | 350122   | 53.463  | ug/l  |          | 97  |
| 71) Bromoform                 | 12.582 | 173  | 86500    | 46.922  | ug/l  | #        | 99  |
| 73) Isopropylbenzene          | 12.700 | 105  | 538397   | 44.555  | ug/l  |          | 100 |
| 74) N-amyl acetate            | 12.500 | 43   | 212741   | 46.404  | ug/l  | #        | 88  |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 180495   | 40.112  | ug/l  |          | 99  |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 162312m  | 45.344  | ug/l  |          |     |
| 77) Bromobenzene              | 12.982 | 156  | 122908   | 40.169  | ug/l  |          | 93  |
| 78) n-propylbenzene           | 13.041 | 91   | 653158   | 48.116  | ug/l  |          | 97  |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 383745   | 43.222  | ug/l  |          | 99  |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 453360   | 45.025  | ug/l  |          | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 53388    | 41.003  | ug/l  | #        | 85  |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 382004   | 45.790  | ug/l  |          | 100 |
| 83) tert-Butylbenzene         | 13.441 | 119  | 362245   | 43.489  | ug/l  |          | 98  |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 452034   | 47.140  | ug/l  |          | 100 |
| 85) sec-Butylbenzene          | 13.618 | 105  | 530232   | 46.238  | ug/l  |          | 99  |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 430168   | 46.953  | ug/l  |          | 99  |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 225373   | 44.907  | ug/l  |          | 98  |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 220527   | 43.486  | ug/l  |          | 98  |
| 89) n-Butylbenzene            | 14.059 | 91   | 357451   | 49.616  | ug/l  |          | 98  |
| 90) Hexachloroethane          | 14.335 | 117  | 83705    | 44.991  | ug/l  |          | 91  |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 218994   | 44.203  | ug/l  |          | 99  |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 27774    | 40.603  | ug/l  |          | 99  |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 79219    | 44.496  | ug/l  |          | 99  |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 48255    | 34.455  | ug/l  |          | 98  |
| 95) Naphthalene               | 15.647 | 128  | 201300   | 38.069  | ug/l  |          | 99  |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 82020    | 39.055  | ug/l  |          | 99  |

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

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John  
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Supervised By :Mahesh  
Dadoda

09/22/2023

Quant Time: Sep 22 02:25:22 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091123W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 12 05:05:24 2023  
Response via : Initial Calibration

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

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

