

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112823\  
 Data File : VN080300.D  
 Acq On : 28 Nov 2023 16:39  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/29/2023  
 Supervised By : Mahesh Dadoda 11/29/2023

Quant Time: Nov 29 00:39:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 17 01:19:32 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 255705     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 401893     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 353168     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 169971     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 203090     | 48.102   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 96.200%  |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 155314     | 52.375   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 104.740% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 550424     | 51.490   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 102.980% |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 199299     | 49.359   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 98.720%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 159602     | 41.902   | ug/l   | 97       |
| 3) Chloromethane             | 2.365          | 50   | 115780     | 40.431   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.518          | 62   | 132150     | 43.606   | ug/l   | 99       |
| 5) Bromomethane              | 2.948          | 94   | 86959      | 42.268   | ug/l   | 98       |
| 6) Chloroethane              | 3.118          | 64   | 89587      | 47.706   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 277280     | 43.861   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.959          | 74   | 82855      | 45.066   | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 130498     | 45.163   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.595          | 142  | 140816     | 45.094   | ug/l   | 89       |
| 11) Tert butyl alcohol       | 5.512          | 59   | 109228     | 235.253  | ug/l # | 91       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 122366     | 45.277   | ug/l   | 87       |
| 13) Acrolein                 | 4.177          | 56   | 104108     | 253.367  | ug/l   | 96       |
| 14) Allyl chloride           | 5.024          | 41   | 152665     | 44.898   | ug/l   | 94       |
| 15) Acrylonitrile            | 5.712          | 53   | 277494     | 222.632  | ug/l   | 100      |
| 16) Acetone                  | 4.424          | 43   | 241019     | 169.959  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.712          | 76   | 310679     | 38.499   | ug/l   | 98       |
| 18) Methyl Acetate           | 5.018          | 43   | 203887     | 44.748   | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 450515     | 47.203   | ug/l   | 99       |
| 20) Methylene Chloride       | 5.271          | 84   | 140848     | 47.428   | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 135230     | 45.547   | ug/l # | 82       |
| 22) Diisopropyl ether        | 6.671          | 45   | 367120     | 48.800   | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.600          | 43   | 1017114    | 224.890  | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 249282     | 45.496   | ug/l   | 99       |
| 25) 2-Butanone               | 7.477          | 43   | 324444     | 192.563  | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 243789     | 44.846   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 155844     | 46.297   | ug/l   | 88       |
| 28) Bromochloromethane       | 7.812          | 49   | 100090     | 46.465   | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.835          | 42   | 204157     | 225.697  | ug/l   | 91       |
| 30) Chloroform               | 7.965          | 83   | 290521     | 47.438   | ug/l   | 92       |
| 31) Cyclohexane              | 8.259          | 56   | 184959     | 40.282   | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 274906     | 46.029   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 199224     | 46.403   | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.559          | 43   | 133653     | 44.880   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 252445     | 46.335   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.600          | 83   | 185372     | 44.779   | ug/l   | 91       |
| 40) Benzene                  | 8.606          | 78   | 566792     | 46.450   | ug/l   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Nov 29 00:39:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 17 01:19:32 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 11/29/2023  
 Supervised By :Mahesh Dadoda 11/29/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.771  | 41   | 78237    | 47.838  | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 231363   | 46.345  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 234383   | 40.444  | ug/l   | 98       |
| 44) Trichloroethene           | 9.353  | 130  | 147194   | 45.987  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 137153   | 48.366  | ug/l   | 94       |
| 46) Dibromomethane            | 9.712  | 93   | 98418    | 45.849  | ug/l   | 89       |
| 47) Bromodichloromethane      | 9.888  | 83   | 228186   | 48.326  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.682  | 41   | 141391   | 47.343  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 43940    | 884.394 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 675880   | 225.270 | ug/l   | 99       |
| 52) Toluene                   | 10.635 | 92   | 369236   | 48.352  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 229292   | 47.264  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 241783   | 48.783  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 138034   | 47.359  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 148895   | 50.006  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 243988   | 47.947  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 415256   | 247.553 | ug/l   | 98       |
| 59) 2-Hexanone                | 11.194 | 43   | 498186   | 206.637 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.359 | 129  | 168901   | 48.404  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 137457   | 46.229  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 148246   | 55.003  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.894 | 112  | 378524   | 47.300  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 155617   | 50.110  | ug/l   | 93       |
| 67) Ethyl Benzene             | 11.965 | 91   | 704863   | 49.499  | ug/l   | 95       |
| 68) m/p-Xylenes               | 12.070 | 106  | 517753   | 99.721  | ug/l   | 90       |
| 69) o-Xylene                  | 12.400 | 106  | 248700   | 50.827  | ug/l   | 88       |
| 70) Styrene                   | 12.412 | 104  | 369318   | 50.711  | ug/l   | 92       |
| 71) Bromoform                 | 12.576 | 173  | 112333   | 48.777  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 657381   | 49.772  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.494 | 43   | 184885   | 44.887  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 171807   | 43.461  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 169407m  | 40.678  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 158849   | 47.702  | ug/l   | 98       |
| 78) n-propylbenzene           | 13.035 | 91   | 737680   | 49.946  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 465883   | 48.566  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 567942   | 49.397  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 54478    | 44.196  | ug/l # | 78       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 475739   | 48.410  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 456927   | 49.557  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 570114   | 50.358  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 586411   | 50.276  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 530484   | 50.914  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 276547   | 46.094  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 276964   | 45.936  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 417867   | 47.915  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.335 | 117  | 96290    | 47.404  | ug/l   | 73       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 269833   | 46.999  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 39771    | 43.314  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 142495   | 42.674  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 79662    | 41.456  | ug/l   | 99       |
| 95) Naphthalene               | 15.641 | 128  | 381071   | 39.355  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 134293   | 42.907  | ug/l   | 98       |

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/29/2023  
Supervised By :Mahesh Dadoda 11/29/2023

Quant Time: Nov 29 00:39:53 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 17 01:19:32 2023  
Response via : Initial Calibration

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

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

