

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111523\  
 Data File : VN080126.D  
 Acq On : 15 Nov 2023 21:26  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/16/2023  
 Supervised By : Mahesh Dadoda 11/17/2023

Quant Time: Nov 15 23:40:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 195998              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 309141              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 271764              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 138215              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 163771              | 54.845  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 109.680% |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 120535              | 55.090  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 110.180% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 413566              | 51.345  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 102.680% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 163411              | 61.172  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 122.340% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 108968              | 46.156  | ug/l   | 99       |
| 3) Chloromethane             | 2.365          | 50   | 77767               | 25.679  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.512          | 62   | 162704              | 52.649  | ug/l   | 97       |
| 5) Bromomethane              | 2.942          | 94   | 53404               | 28.442  | ug/l   | 92       |
| 6) Chloroethane              | 3.118          | 64   | 64325               | 26.343  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 212909              | 55.392  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.959          | 74   | 68467               | 46.940  | ug/l   | 85       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 100439              | 45.077  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.595          | 142  | 115236              | 45.288  | ug/l   | 91       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 95024               | 249.285 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 89578               | 42.460  | ug/l # | 82       |
| 13) Acrolein                 | 4.177          | 56   | 76876               | 259.053 | ug/l   | 97       |
| 14) Allyl chloride           | 5.024          | 41   | 136277              | 42.174  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.718          | 53   | 254100              | 213.905 | ug/l   | 100      |
| 16) Acetone                  | 4.424          | 43   | 212493              | 202.587 | ug/l   | 92       |
| 17) Carbon Disulfide         | 4.712          | 76   | 197682              | 32.485  | ug/l   | 99       |
| 18) Methyl Acetate           | 5.024          | 43   | 200284              | 39.911  | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.795          | 73   | 386352              | 53.191  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.277          | 84   | 113594              | 42.920  | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.783          | 96   | 98747               | 41.968  | ug/l # | 82       |
| 22) Diisopropyl ether        | 6.671          | 45   | 315251              | 42.099  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.606          | 43   | 827393              | 200.313 | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 207694              | 45.633  | ug/l   | 97       |
| 25) 2-Butanone               | 7.483          | 43   | 299661              | 195.097 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.494          | 77   | 198124              | 52.635  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.489          | 96   | 124747              | 44.323  | ug/l   | 86       |
| 28) Bromochloromethane       | 7.818          | 49   | 97294               | 43.865  | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 187913              | 188.042 | ug/l   | 90       |
| 30) Chloroform               | 7.965          | 83   | 244151              | 49.385  | ug/l   | 90       |
| 31) Cyclohexane              | 8.259          | 56   | 142652              | 36.152  | ug/l   | 90       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 229183              | 56.894  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 157976              | 50.568  | ug/l   | 93       |
| 37) Ethyl Acetate            | 7.565          | 43   | 124154              | 43.333  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 199559              | 63.383  | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.606          | 83   | 143301              | 48.741  | ug/l   | 93       |
| 40) Benzene                  | 8.612          | 78   | 443538              | 47.402  | ug/l   | 97       |

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 Sample : VSTDCCC050  
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 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Nov 15 23:40:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 02 05:49:08 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 11/16/2023  
 Supervised By :Mahesh Dadoda 11/17/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 68151    | 44.793   | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 197350   | 60.380   | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 248857   | 49.528   | ug/l # | 90       |
| 44) Trichloroethene           | 9.353  | 130  | 113336   | 48.812   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 116843   | 48.863   | ug/l   | 97       |
| 46) Dibromomethane            | 9.712  | 93   | 83252    | 50.988   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.888  | 83   | 193551   | 55.583   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.682  | 41   | 105713   | 48.033   | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 39148    | 1006.674 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 636172   | 224.891  | ug/l   | 97       |
| 52) Toluene                   | 10.630 | 92   | 291554   | 52.558   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 198537   | 58.160   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 201469   | 54.147   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 114798   | 51.451   | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 177610   | 55.807   | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 203002   | 51.617   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 407640   | 252.715  | ug/l   | 96       |
| 59) 2-Hexanone                | 11.200 | 43   | 460941   | 213.002  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.359 | 129  | 141728   | 59.343   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 113829   | 50.830   | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 93988    | 53.399   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.894 | 112  | 304521   | 51.657   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 130944   | 61.651   | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.965 | 91   | 572508   | 55.742   | ug/l   | 95       |
| 68) m/p-Xylenes               | 12.071 | 106  | 423283   | 110.633  | ug/l   | 88       |
| 69) o-Xylene                  | 12.400 | 106  | 210474   | 57.128   | ug/l   | 88       |
| 70) Styrene                   | 12.412 | 104  | 351391   | 59.348   | ug/l   | 92       |
| 71) Bromoform                 | 12.582 | 173  | 96735    | 64.140   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 556156   | 53.019   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 181927   | 39.734   | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 161607   | 43.452   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 156100m  | 48.107   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 131384   | 51.159   | ug/l   | 98       |
| 78) n-propylbenzene           | 13.035 | 91   | 624306   | 51.972   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 405994   | 52.907   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 477106   | 58.460   | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 50778    | 42.576   | ug/l # | 75       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 407240   | 53.405   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 395341   | 59.179   | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 476144   | 59.299   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 532165   | 57.497   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 454206   | 60.191   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 239028   | 50.032   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 239686   | 49.427   | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 359985   | 55.388   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.335 | 117  | 84459    | 56.515   | ug/l   | 76       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 232142   | 51.473   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 36955    | 58.593   | ug/l   | 88       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 124561   | 58.086   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 68163    | 70.117   | ug/l   | 100      |
| 95) Naphthalene               | 15.641 | 128  | 377845   | 51.956   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 120483   | 57.317   | ug/l   | 97       |

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ALS Vial : 26 Sample Multiplier: 1

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Manual Integrations  
APPROVED

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Supervised By :Mahesh Dadoda 11/17/2023

Quant Time: Nov 15 23:40:49 2023  
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Quant Title : SW846 8260  
QLast Update : Thu Nov 02 05:49:08 2023  
Response via : Initial Calibration

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

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

