

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091724\  
 Data File : VN083973.D  
 Acq On : 18 Sep 2024 09:32  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Sep 18 09:55:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 09/18/2024  
 Supervised By : Mahesh Dadoda 09/18/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 176699     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 313315     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 274149     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 130150     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 132012     | 49.547   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 99.100%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 98582      | 49.148   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 98.300%  |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 357168     | 51.508   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 103.020% |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 141820     | 49.572   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 99.140%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 96630      | 47.089   | ug/l   | 96       |
| 3) Chloromethane             | 2.360          | 50   | 107967     | 51.581   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.518          | 62   | 113363     | 50.400   | ug/l   | 98       |
| 5) Bromomethane              | 2.948          | 94   | 70888      | 54.891   | ug/l   | 99       |
| 6) Chloroethane              | 3.118          | 64   | 73007      | 46.272   | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 184800     | 48.402   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.965          | 74   | 68214      | 53.299   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 97950      | 48.401   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.589          | 142  | 132440     | 51.458   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 111985     | 313.873  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 98443      | 51.509   | ug/l   | 96       |
| 13) Acrolein                 | 4.177          | 56   | 79035      | 224.514  | ug/l   | 99       |
| 14) Allyl chloride           | 5.024          | 41   | 151823     | 44.582   | ug/l   | 92       |
| 15) Acrylonitrile            | 5.718          | 53   | 265676     | 273.814  | ug/l   | 99       |
| 16) Acetone                  | 4.424          | 43   | 233504     | 218.620  | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.718          | 76   | 244930     | 45.814   | ug/l   | 98       |
| 18) Methyl Acetate           | 5.024          | 43   | 150423     | 68.272   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.795          | 73   | 369950     | 53.493   | ug/l   | 97       |
| 20) Methylene Chloride       | 5.271          | 84   | 111619     | 51.068   | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 101352     | 49.483   | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.677          | 45   | 375114     | 53.509   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.600          | 43   | 1291807    | 251.631  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 202195     | 50.064   | ug/l   | 99       |
| 25) 2-Butanone               | 7.483          | 43   | 360221     | 256.600  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.489          | 77   | 114008     | 30.652   | ug/l   | 94       |
| 27) cis-1,2-Dichloroethene   | 7.483          | 96   | 123574     | 50.824   | ug/l   | 97       |
| 28) Bromochloromethane       | 7.812          | 49   | 82887      | 48.734   | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.836          | 42   | 233390     | 281.169  | ug/l   | 99       |
| 30) Chloroform               | 7.965          | 83   | 214340     | 49.989   | ug/l   | 97       |
| 31) Cyclohexane              | 8.259          | 56   | 171163     | 44.449   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 197777     | 50.164   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 148248     | 49.105   | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.559          | 43   | 148959     | 54.357   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 168151     | 49.094   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.600          | 83   | 165105     | 48.046   | ug/l   | 99       |
| 40) Benzene                  | 8.606          | 78   | 448845     | 49.395   | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/18/2024  
 Supervised By : Mahesh Dadoda 09/18/2024

Quant Time: Sep 18 09:55:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 87644    | 54.074   | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 170534   | 50.224   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 271240   | 54.620   | ug/l   | 98       |
| 44) Trichloroethene           | 9.353  | 130  | 107781   | 51.220   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 110067   | 50.116   | ug/l   | 95       |
| 46) Dibromomethane            | 9.706  | 93   | 80098    | 52.068   | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.888  | 83   | 170205   | 51.124   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.677  | 41   | 130340   | 55.322   | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 42399    | 1093.936 | ug/l # | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 762776   | 282.175  | ug/l   | 99       |
| 52) Toluene                   | 10.630 | 92   | 285959   | 51.448   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 166614   | 49.373   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 175187   | 49.421   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 106183   | 51.172   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 187496   | 58.730   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 186196   | 52.209   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 378212   | 328.783  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.194 | 43   | 555223   | 277.663  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.359 | 129  | 126457   | 54.454   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 108822   | 52.585   | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.106 | 164  | 97067    | 53.241   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.888 | 112  | 306610   | 50.321   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 105857   | 50.115   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.965 | 91   | 577403   | 53.345   | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.071 | 106  | 446115   | 111.014  | ug/l   | 99       |
| 69) o-Xylene                  | 12.394 | 106  | 214445   | 55.124   | ug/l   | 100      |
| 70) Styrene                   | 12.412 | 104  | 355865   | 55.739   | ug/l   | 98       |
| 71) Bromoform                 | 12.576 | 173  | 81569    | 57.306   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 549033   | 54.526   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 239583   | 55.768   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 151302   | 51.141   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 127160m  | 48.420   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 123273   | 50.860   | ug/l   | 97       |
| 78) n-propylbenzene           | 13.035 | 91   | 641589   | 54.763   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.124 | 91   | 397106   | 53.148   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 479053   | 56.430   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 45918    | 45.794   | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 390697   | 52.107   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.435 | 119  | 392525   | 52.849   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 563338   | 66.061   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 532975   | 54.108   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 449340   | 54.419   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 226246   | 49.461   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 225588   | 48.704   | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.053 | 91   | 404960   | 54.624   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.335 | 117  | 82868    | 49.926   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 222641   | 50.433   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.718 | 75   | 33256    | 56.389   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 117110   | 49.435   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 46625    | 46.344   | ug/l   | 98       |
| 95) Naphthalene               | 15.635 | 128  | 499168   | 69.259   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 112736   | 49.794   | ug/l   | 98       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 49 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/18/2024  
Supervised By :Mahesh Dadoda 09/18/2024

Quant Time: Sep 18 09:55:07 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration

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

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

