

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091024\  
 Data File : VN083747.D  
 Acq On : 10 Sep 2024 11:32  
 Operator : JC\MD  
 Sample : VSTDICC001  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 09/11/2024  
 Supervised By :Semsettin Yesilyurt 09/11/2024

Quant Time: Sep 11 02:17:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 02:15:43 2024  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 8.224  | 168   | 149471   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100  | 114   | 268939   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865 | 117   | 219654   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794 | 152   | 91880    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 0.000  | 65    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 74 - 125 | Recovery | =      | 0.000%#  |
| 35) Dibromofluoromethane     | 0.000  | 113   | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 0.000%#  |
| 50) Toluene-d8               | 0.000  | 98    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 86 - 113 | Recovery | =      | 0.000%#  |
| 62) 4-Bromofluorobenzene     | 0.000  | 95    | 0d       | 0.000    | ug/l   |          |
| Spiked Amount                | 50.000 | Range | 77 - 121 | Recovery | =      | 0.000%#  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124  | 85    | 1767     | 1.018    | ug/l   | 96       |
| 3) Chloromethane             | 2.359  | 50    | 3237m    | 1.531    | ug/l   |          |
| 4) Vinyl Chloride            | 2.512  | 62    | 1982     | 1.042    | ug/l # | 44       |
| 6) Chloroethane              | 3.065  | 64    | 1404m    | 1.064    | ug/l   |          |
| 7) Trichlorofluoromethane    | 3.471  | 101   | 3488     | 1.080    | ug/l   | 96       |
| 8) Diethyl Ether             | 3.953  | 74    | 959      | 0.886    | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 4.348  | 101   | 1583     | 0.925    | ug/l # | 65       |
| 12) 1,1-Dichloroethene       | 4.318  | 96    | 1527     | 0.945    | ug/l   | 93       |
| 14) Allyl chloride           | 5.012  | 41    | 2756     | 0.957    | ug/l # | 80       |
| 15) Acrylonitrile            | 5.724  | 53    | 4223     | 5.145    | ug/l   | 98       |
| 16) Acetone                  | 4.436  | 43    | 4474     | 4.952    | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.700  | 76    | 5090     | 1.126    | ug/l # | 75       |
| 18) Methyl Acetate           | 5.036  | 43    | 3089m    | 1.407    | ug/l   |          |
| 19) Methyl tert-butyl Ether  | 5.794  | 73    | 5672     | 0.970    | ug/l # | 83       |
| 20) Methylene Chloride       | 5.277  | 84    | 1922     | 1.040    | ug/l # | 75       |
| 21) trans-1,2-Dichloroethene | 5.765  | 96    | 1745     | 1.007    | ug/l # | 67       |
| 22) Diisopropyl ether        | 6.665  | 45    | 5555     | 0.937    | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.600  | 43    | 19588    | 4.511    | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.565  | 63    | 3493     | 1.022    | ug/l # | 82       |
| 25) 2-Butanone               | 7.489  | 43    | 6127     | 5.160    | ug/l # | 57       |
| 26) 2,2-Dichloropropane      | 7.489  | 77    | 2982     | 0.948    | ug/l   | 94       |
| 27) cis-1,2-Dichloroethene   | 7.477  | 96    | 2052     | 0.998    | ug/l   | 92       |
| 28) Bromochloromethane       | 7.806  | 49    | 1257     | 0.874    | ug/l # | 90       |
| 29) Tetrahydrofuran          | 7.853  | 42    | 3436     | 4.893    | ug/l   | 99       |
| 30) Chloroform               | 7.959  | 83    | 3528     | 0.973    | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 8.159  | 97    | 3233     | 0.969    | ug/l # | 52       |
| 36) 1,1-Dichloropropene      | 8.371  | 75    | 2706     | 1.044    | ug/l   | 85       |
| 37) Ethyl Acetate            | 7.547  | 43    | 2070     | 0.880    | ug/l # | 88       |
| 38) Carbon Tetrachloride     | 8.365  | 117   | 2768     | 0.942    | ug/l # | 76       |
| 39) Methylcyclohexane        | 9.606  | 83    | 2729     | 0.925    | ug/l # | 84       |
| 40) Benzene                  | 8.594  | 78    | 7797     | 1.000    | ug/l # | 90       |
| 41) Methacrylonitrile        | 7.765  | 41    | 1496m    | 1.075    | ug/l   |          |
| 42) 1,2-Dichloroethane       | 8.671  | 62    | 2671     | 0.916    | ug/l   | 83       |
| 43) Isopropyl Acetate        | 8.683  | 43    | 4202     | 0.986    | ug/l # | 98       |
| 44) Trichloroethene          | 9.347  | 130   | 1904     | 1.054    | ug/l   | 99       |
| 45) 1,2-Dichloropropane      | 9.630  | 63    | 1824     | 0.968    | ug/l # | 83       |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

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Quant Time: Sep 11 02:17:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 02:15:43 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) Dibromomethane            | 9.712  | 93   | 1144     | 0.866  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.888  | 83   | 2654     | 0.929  | ug/l # | 88       |
| 48) Methyl methacrylate       | 9.688  | 41   | 1957     | 0.968  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 754      | 22.664 | ug/l # | 60       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 10889    | 4.693  | ug/l   | 98       |
| 52) Toluene                   | 10.624 | 92   | 4412     | 0.925  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 2794     | 0.965  | ug/l   | 91       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 2742     | 0.901  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 1858     | 1.043  | ug/l # | 65       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 2275     | 0.830  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 2755     | 0.900  | ug/l   | 93       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 3831     | 3.880  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.194 | 43   | 7463     | 4.348  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.353 | 129  | 1813     | 0.910  | ug/l   | 92       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 1838     | 1.035  | ug/l   | 88       |
| 64) Tetrachloroethene         | 11.106 | 164  | 1497     | 1.025  | ug/l   | 86       |
| 65) Chlorobenzene             | 11.888 | 112  | 5253     | 1.076  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.953 | 131  | 1672     | 0.988  | ug/l # | 65       |
| 67) Ethyl Benzene             | 11.965 | 91   | 8403     | 0.969  | ug/l   | 91       |
| 68) m/p-Xylenes               | 12.076 | 106  | 6267     | 1.946  | ug/l   | 95       |
| 69) o-Xylene                  | 12.394 | 106  | 2885     | 0.926  | ug/l   | 98       |
| 70) Styrene                   | 12.412 | 104  | 4834     | 0.945  | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 981      | 0.860  | ug/l # | 92       |
| 73) Isopropylbenzene          | 12.694 | 105  | 6908     | 0.972  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.494 | 43   | 3100     | 1.022  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 2386     | 1.142  | ug/l   | 84       |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 2066m    | 1.114  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 1996     | 1.167  | ug/l   | 97       |
| 78) n-propylbenzene           | 13.035 | 91   | 8379     | 1.013  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 5437     | 1.031  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 6080     | 1.015  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 5495     | 1.038  | ug/l   | 92       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 5311     | 1.013  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 5912     | 0.982  | ug/l   | 94       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 6408     | 0.922  | ug/l   | 93       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 5592     | 0.959  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 3851     | 1.193  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.818 | 146  | 3958m    | 1.210  | ug/l   |          |
| 89) n-Butylbenzene            | 14.053 | 91   | 5621     | 1.074  | ug/l   | 93       |
| 90) Hexachloroethane          | 14.335 | 117  | 1285     | 1.097  | ug/l   | 81       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 3418     | 1.097  | ug/l   | 90       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 404      | 0.970  | ug/l # | 66       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 1907     | 1.140  | ug/l   | 90       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 848      | 1.194  | ug/l # | 47       |
| 95) Naphthalene               | 15.641 | 128  | 5160     | 1.014  | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 1803     | 1.128  | ug/l   | 92       |

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

