

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121521\  
 Data File : VN070108.D  
 Acq On : 15 Dec 2021 13:35  
 Operator : JC/MD  
 Sample : VN1215WBS01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1215WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/16/2021  
 Supervised By : Amit Patel 12/16/2021

Quant Time: Dec 16 05:38:13 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 960129              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 1532092             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.744         | 117  | 1394806             | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.675         | 152  | 591307              | 50.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 781307              | 52.704 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 105.400% |        |        |          |
| 35) Dibromofluoromethane     | 8.021          | 113  | 529850              | 55.212 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 110.420% |        |        |          |
| 50) Toluene-d8               | 10.440         | 98   | 2079034             | 53.953 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 107.900% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.731         | 95   | 736629              | 52.767 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 105.540% |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 186612              | 16.664 | ug/l   | 100      |
| 3) Chloromethane             | 2.303          | 50   | 231476              | 16.499 | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.448          | 62   | 211639              | 16.406 | ug/l   | 98       |
| 5) Bromomethane              | 2.858          | 94   | 124613              | 17.780 | ug/l   | 96       |
| 6) Chloroethane              | 3.022          | 64   | 132646              | 16.780 | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.379          | 101  | 279588              | 16.513 | ug/l   | 99       |
| 8) Diethyl Ether             | 3.824          | 74   | 121739              | 18.669 | ug/l   | 82       |
| 9) 1,1,2-Trichlorotrifluo... | 4.205          | 101  | 176978              | 18.647 | ug/l   | 96       |
| 10) Methyl Iodide            | 4.422          | 142  | 217917              | 16.807 | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.374          | 59   | 209611              | 74.803 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.178          | 96   | 159426              | 17.432 | ug/l   | 89       |
| 13) Acrolein                 | 4.039          | 56   | 167925              | 70.370 | ug/l   | 96       |
| 14) Allyl chloride           | 4.840          | 41   | 367814              | 17.848 | ug/l   | 92       |
| 15) Acrylonitrile            | 5.557          | 53   | 634731              | 84.061 | ug/l   | 99       |
| 16) Acetone                  | 4.285          | 43   | 782251              | 87.720 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.529          | 76   | 348250              | 14.739 | ug/l   | 99       |
| 18) Methyl Acetate           | 4.857          | 43   | 454699              | 16.893 | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.616          | 73   | 648402              | 18.234 | ug/l   | 96       |
| 20) Methylene Chloride       | 5.095          | 84   | 205276              | 17.316 | ug/l # | 84       |
| 21) trans-1,2-Dichloroethene | 5.597          | 96   | 171089              | 17.223 | ug/l   | 86       |
| 22) Diisopropyl ether        | 6.498          | 45   | 788032              | 19.564 | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.434          | 43   | 2996166             | 91.429 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.388          | 63   | 388519              | 18.620 | ug/l   | 98       |
| 25) 2-Butanone               | 7.335          | 43   | 1004366             | 82.893 | ug/l # | 89       |
| 26) 2,2-Dichloropropane      | 7.327          | 77   | 296799              | 18.295 | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.324          | 96   | 212549              | 17.710 | ug/l   | 84       |
| 28) Bromochloromethane       | 7.659          | 49   | 204323              | 18.831 | ug/l # | 77       |
| 29) Tetrahydrofuran          | 7.686          | 42   | 618171              | 84.021 | ug/l # | 86       |
| 30) Chloroform               | 7.815          | 83   | 387983              | 18.411 | ug/l   | 99       |
| 31) Cyclohexane              | 8.094          | 56   | 372042              | 18.034 | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 8.016          | 97   | 317385              | 17.682 | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 274722              | 18.836 | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.412          | 43   | 370759              | 17.079 | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 249793              | 17.465 | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.459          | 83   | 321983              | 18.560 | ug/l   | 88       |
| 40) Benzene                  | 8.458          | 78   | 850998              | 19.089 | ug/l   | 100      |

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 Sample : VN1215WBS01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1215WBS01

Manual Integrations  
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Reviewed By : John Carlone 12/16/2021  
 Supervised By : Amit Patel 12/16/2021

Quant Time: Dec 16 05:38:13 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.638  | 41   | 195204   | 19.156  | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.531  | 62   | 336029   | 18.672  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.560  | 43   | 578185   | 17.998  | ug/l # | 93       |
| 44) Trichloroethene           | 9.215  | 130  | 198048   | 18.613  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.488  | 63   | 232605   | 19.430  | ug/l   | 100      |
| 46) Dibromomethane            | 9.577  | 93   | 141742   | 18.053  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.762  | 83   | 276794   | 18.620  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.561  | 41   | 264388   | 17.636  | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.569  | 88   | 86605    | 321.957 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.330 | 43   | 1885855  | 90.493  | ug/l   | 95       |
| 52) Toluene                   | 10.505 | 92   | 511892   | 18.808  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.719 | 75   | 283085   | 17.740  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.188 | 75   | 320224   | 18.380  | ug/l # | 90       |
| 55) 1,1,2-Trichloroethane     | 10.896 | 97   | 202254   | 18.417  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.760 | 69   | 335116   | 17.715  | ug/l # | 88       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 365844   | 18.920  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 408699   | 86.056  | ug/l   | 91       |
| 59) 2-Hexanone                | 11.084 | 43   | 1364016  | 86.523  | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.237 | 129  | 184109   | 17.280  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.344 | 107  | 201793   | 17.741  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.977 | 164  | 177414   | 18.759  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.771 | 112  | 528749   | 18.686  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.840 | 131  | 186609   | 18.737  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.843 | 91   | 995077   | 19.360  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.953 | 106  | 724561   | 38.715  | ug/l   | 90       |
| 69) o-Xylene                  | 12.280 | 106  | 359207   | 19.055  | ug/l   | 90       |
| 70) Styrene                   | 12.294 | 104  | 571168   | 19.108  | ug/l   | 95       |
| 71) Bromoform                 | 12.457 | 173  | 125464   | 16.655  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.578 | 105  | 942848   | 17.922  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.388 | 43   | 387830   | 16.669  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.827 | 83   | 315333   | 17.333  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.878 | 75   | 295710m  | 17.438  | ug/l   |          |
| 77) Bromobenzene              | 12.860 | 156  | 216507   | 17.521  | ug/l   | 77       |
| 78) n-propylbenzene           | 12.921 | 91   | 1081811  | 18.479  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.007 | 91   | 673108   | 18.196  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 13.058 | 105  | 774844   | 18.299  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 69799    | 16.438  | ug/l   | 85       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 647450   | 18.611  | ug/l   | 92       |
| 83) tert-Butylbenzene         | 13.324 | 119  | 667710   | 17.808  | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 13.366 | 105  | 752802   | 18.667  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.501 | 105  | 943183   | 18.545  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.616 | 119  | 739946   | 18.613  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 376269   | 18.534  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.694 | 146  | 362174   | 18.154  | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.943 | 91   | 589095   | 18.268  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.209 | 117  | 109333   | 15.665  | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.989 | 146  | 368480   | 18.629  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.603 | 75   | 51455    | 15.652  | ug/l   | 75       |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180  | 157855   | 18.213  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.370 | 225  | 105820   | 20.186  | ug/l   | 98       |
| 95) Naphthalene               | 15.507 | 128  | 391678   | 16.459  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180  | 152766   | 17.806  | ug/l   | 96       |

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Quant Title : SW846 8260  
QLast Update : Fri Dec 03 08:46:47 2021  
Response via : Initial Calibration

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

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

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