

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032122\  
 Data File : VN071434.D  
 Acq On : 21 Mar 2022 21:42  
 Operator : JC\MD  
 Sample : VN0321WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0321WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/22/2022  
 Supervised By : Mahesh Dadoda 03/22/2022

Quant Time: Mar 22 06:24:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 08 06:52:46 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 607892              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 1018699             | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 905255              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.669         | 152  | 353030              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.434          | 65   | 463760              | 55.664  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 111.320% |         |        |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 346866              | 53.959  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 107.920% |         |        |          |
| 50) Toluene-d8               | 10.439         | 98   | 1363792             | 52.692  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 105.380% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 457434              | 52.192  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 104.380% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 108852              | 16.338  | ug/l   | 98       |
| 3) Chloromethane             | 2.299          | 50   | 158470              | 17.695  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.440          | 62   | 144473              | 17.695  | ug/l   | 99       |
| 5) Bromomethane              | 2.834          | 94   | 78023               | 17.519  | ug/l   | 97       |
| 6) Chloroethane              | 3.005          | 64   | 94309               | 19.073  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.369          | 101  | 199533              | 18.567  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.822          | 74   | 89462               | 19.454  | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.204          | 101  | 119137              | 19.150  | ug/l   | 94       |
| 10) Methyl Iodide            | 4.422          | 142  | 147473              | 16.784  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.363          | 59   | 183371              | 112.039 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 111608              | 18.314  | ug/l   | 97       |
| 13) Acrolein                 | 4.040          | 56   | 70712               | 40.819  | ug/l   | 100      |
| 14) Allyl chloride           | 4.840          | 41   | 241013              | 18.183  | ug/l # | 86       |
| 15) Acrylonitrile            | 5.551          | 53   | 501244              | 103.141 | ug/l   | 99       |
| 16) Acetone                  | 4.281          | 43   | 430628              | 106.229 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.528          | 76   | 257689              | 14.852  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.851          | 43   | 250251              | 23.240  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 471858              | 20.622  | ug/l   | 95       |
| 20) Methylene Chloride       | 5.093          | 84   | 145290              | 19.842  | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 5.593          | 96   | 118875              | 17.833  | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.493          | 45   | 530236              | 20.305  | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.428          | 43   | 2264855             | 102.448 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.387          | 63   | 270127              | 19.576  | ug/l   | 100      |
| 25) 2-Butanone               | 7.328          | 43   | 713321              | 109.235 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.322          | 77   | 197284              | 18.532  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.322          | 96   | 150987              | 19.084  | ug/l   | 89       |
| 28) Bromochloromethane       | 7.651          | 49   | 96592               | 15.719  | ug/l # | 81       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 481628              | 106.462 | ug/l   | 92       |
| 30) Chloroform               | 7.816          | 83   | 262956              | 19.980  | ug/l   | 99       |
| 31) Cyclohexane              | 8.092          | 56   | 243406              | 18.295  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 221665              | 19.773  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.216          | 75   | 182659              | 17.735  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.410          | 43   | 282376              | 19.921  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 182551              | 18.324  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.457          | 83   | 213388              | 17.611  | ug/l   | 92       |
| 40) Benzene                  | 8.457          | 78   | 583339              | 18.798  | ug/l   | 99       |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0321WBSD01

Manual Integrations  
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Quant Time: Mar 22 06:24:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 08 06:52:46 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.628  | 41   | 143293   | 20.657  | ug/l   | 86       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 216791   | 20.076  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 451280   | 21.290  | ug/l   | 94       |
| 44) Trichloroethene           | 9.210  | 130  | 137966   | 18.843  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 162158   | 19.466  | ug/l   | 98       |
| 46) Dibromomethane            | 9.575  | 93   | 96993    | 18.917  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.757  | 83   | 198157   | 19.124  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.557  | 41   | 198535   | 20.211  | ug/l # | 84       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 78056    | 457.142 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.328 | 43   | 1392827  | 105.878 | ug/l   | 100      |
| 52) Toluene                   | 10.504 | 92   | 364741   | 19.088  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 212998   | 18.648  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 236106   | 18.918  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 151744   | 19.817  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 247429   | 19.787  | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 267778   | 19.483  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 261815   | 116.415 | ug/l   | 95       |
| 59) 2-Hexanone                | 11.080 | 43   | 1029677  | 114.717 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.233 | 129  | 148538   | 19.524  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.345 | 107  | 149022   | 19.042  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.975 | 164  | 116292   | 18.419  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.769 | 112  | 373284   | 19.201  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 142744   | 20.024  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.839 | 91   | 671812   | 19.544  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.951 | 106  | 498470   | 39.640  | ug/l   | 97       |
| 69) o-Xylene                  | 12.275 | 106  | 250493   | 19.872  | ug/l   | 96       |
| 70) Styrene                   | 12.292 | 104  | 392300   | 20.106  | ug/l   | 98       |
| 71) Bromoform                 | 12.457 | 173  | 110639   | 20.438  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.574 | 105  | 649335   | 19.080  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.386 | 43   | 277275   | 21.669  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.822 | 83   | 241822   | 22.503  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 219782m  | 24.232  | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 151451   | 19.085  | ug/l   | 78       |
| 78) n-propylbenzene           | 12.916 | 91   | 697402   | 19.097  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 444829   | 18.976  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 517072   | 19.529  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.622 | 75   | 63886    | 19.562  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 415341   | 19.891  | ug/l   | 93       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 467072   | 19.767  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 500202   | 19.724  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 609316   | 19.401  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 489340   | 19.812  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 245395   | 19.032  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 234773   | 18.627  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.939 | 91   | 358653   | 18.566  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.210 | 117  | 92211    | 18.774  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 245385   | 19.795  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 44066    | 22.255  | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180  | 105235   | 20.091  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.363 | 225  | 67753    | 19.469  | ug/l   | 100      |
| 95) Naphthalene               | 15.504 | 128  | 330941   | 23.444  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 109301   | 21.375  | ug/l   | 99       |

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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By : John Carlone 03/22/2022  
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Quant Time: Mar 22 06:24:20 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
Quant Title : SW846 8260  
QLast Update : Tue Mar 08 06:52:46 2022  
Response via : Initial Calibration

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

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

