

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111921\  
 Data File : VN069600.D  
 Acq On : 19 Nov 2021 21:37  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/22/2021  
 Supervised By : Mahesh Dadoda 11/26/2021

Quant Time: Nov 22 05:10:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 09 18:18:22 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 1014956             | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 1691777             | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.744         | 117  | 1552199             | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.675         | 152  | 693279              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 740713              | 50.333  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 100.660% |         |        |          |
| 35) Dibromofluoromethane     | 8.024          | 113  | 531220              | 52.355  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 104.700% |         |        |          |
| 50) Toluene-d8               | 10.441         | 98   | 1994928             | 49.990  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 99.980%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.731         | 95   | 739020              | 50.410  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 100.820% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 450884              | 41.582  | ug/l   | 100      |
| 3) Chloromethane             | 2.303          | 50   | 524208              | 41.686  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.448          | 62   | 525511              | 41.736  | ug/l   | 99       |
| 5) Bromomethane              | 2.840          | 94   | 389057              | 47.576  | ug/l   | 99       |
| 6) Chloroethane              | 3.014          | 64   | 338500              | 39.828  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.374          | 101  | 776502              | 39.902  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.821          | 74   | 298336              | 47.384  | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.205          | 101  | 430412              | 46.953  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.417          | 142  | 562461              | 50.026  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.377          | 59   | 604207              | 227.846 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.178          | 96   | 380973              | 46.312  | ug/l   | 90       |
| 13) Acrolein                 | 4.041          | 56   | 105272              | 281.160 | ug/l   | 99       |
| 14) Allyl chloride           | 4.841          | 41   | 873605              | 48.034  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.554          | 53   | 1751793             | 257.963 | ug/l   | 99       |
| 16) Acetone                  | 4.285          | 43   | 1594860             | 200.862 | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.527          | 76   | 695827              | 35.784  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.854          | 43   | 1267398             | 49.104  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.616          | 73   | 1783722             | 51.236  | ug/l   | 97       |
| 20) Methylene Chloride       | 5.090          | 84   | 522444              | 46.401  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.597          | 96   | 420348              | 45.749  | ug/l   | 86       |
| 22) Diisopropyl ether        | 6.495          | 45   | 2022010             | 51.611  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.434          | 43   | 7832308             | 258.480 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.385          | 63   | 991531              | 49.689  | ug/l   | 98       |
| 25) 2-Butanone               | 7.335          | 43   | 2571495             | 239.175 | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.324          | 77   | 669168              | 42.860  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.327          | 96   | 561050              | 49.258  | ug/l   | 88       |
| 28) Bromochloromethane       | 7.657          | 49   | 507212              | 49.634  | ug/l # | 81       |
| 29) Tetrahydrofuran          | 7.686          | 42   | 1668618             | 252.899 | ug/l   | 90       |
| 30) Chloroform               | 7.818          | 83   | 1038877             | 50.782  | ug/l   | 99       |
| 31) Cyclohexane              | 8.094          | 56   | 845154              | 42.036  | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 8.013          | 97   | 855996              | 50.129  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 679391              | 47.726  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.413          | 43   | 1017519             | 52.877  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 686017              | 49.916  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.459          | 83   | 796595              | 44.984  | ug/l   | 92       |
| 40) Benzene                  | 8.459          | 78   | 2145897             | 48.838  | ug/l   | 99       |

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 VSTDCCC050EC

Quant Time: Nov 22 05:10:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N110921W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 09 18:18:22 2021  
 Response via : Initial Calibration

Manual Integrations  
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 Supervised By : Mahesh Dadoda 11/26/2021

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.638  | 41   | 508965   | 51.188  | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.531  | 62   | 885557   | 51.471  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.560  | 43   | 1614066  | 52.221  | ug/l # | 94       |
| 44) Trichloroethene           | 9.218  | 130  | 516411   | 49.108  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.491  | 63   | 614748   | 52.366  | ug/l   | 97       |
| 46) Dibromomethane            | 9.577  | 93   | 394225   | 50.136  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.762  | 83   | 779880   | 53.151  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.561  | 41   | 739752   | 50.871  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.569  | 88   | 247653   | 864.852 | ug/l   | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.331 | 43   | 5384531  | 269.894 | ug/l   | 96       |
| 52) Toluene                   | 10.505 | 92   | 1348306  | 49.256  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.719 | 75   | 792365   | 44.241  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.188 | 75   | 865682   | 45.691  | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane     | 10.896 | 97   | 580672   | 52.624  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 982073   | 47.341  | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 1004594  | 51.810  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 1127217  | 214.385 | ug/l   | 93       |
| 59) 2-Hexanone                | 11.084 | 43   | 3823428  | 227.708 | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.237 | 129  | 563595   | 46.703  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.344 | 107  | 580501   | 47.194  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.977 | 164  | 474097   | 50.585  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.771 | 112  | 1465977  | 50.740  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.841 | 131  | 551442   | 55.027  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.843 | 91   | 2710366  | 50.865  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.953 | 106  | 1990657  | 101.576 | ug/l   | 93       |
| 69) o-Xylene                  | 12.280 | 106  | 1006654  | 51.524  | ug/l   | 91       |
| 70) Styrene                   | 12.294 | 104  | 1673005  | 47.763  | ug/l   | 96       |
| 71) Bromoform                 | 12.457 | 173  | 401455   | 46.402  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.578 | 105  | 2702120  | 48.952  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.388 | 43   | 1209440  | 51.701  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.827 | 83   | 944297   | 50.722  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.881 | 75   | 804575m  | 50.288  | ug/l   |          |
| 77) Bromobenzene              | 12.860 | 156  | 622957   | 49.346  | ug/l   | 80       |
| 78) n-propylbenzene           | 12.919 | 91   | 3031406  | 48.806  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.007 | 91   | 1884384  | 48.999  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.058 | 105  | 2207192  | 49.462  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 225019   | 42.806  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 1793194  | 48.913  | ug/l   | 93       |
| 83) tert-Butylbenzene         | 13.324 | 119  | 2006979  | 51.323  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.367 | 105  | 2158712  | 50.109  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.501 | 105  | 2731777  | 50.008  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.616 | 119  | 2168268  | 50.001  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.616 | 146  | 1071396  | 48.951  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.694 | 146  | 1030386  | 47.988  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.943 | 91   | 1702284  | 47.073  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.211 | 117  | 367411   | 46.263  | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.989 | 146  | 1066589  | 51.212  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.603 | 75   | 166550   | 48.185  | ug/l   | 79       |
| 93) 1,2,4-Trichlorobenzene    | 15.263 | 180  | 459523   | 42.601  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.370 | 225  | 269829   | 49.862  | ug/l   | 99       |
| 95) Naphthalene               | 15.504 | 128  | 1270043  | 42.045  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.700 | 180  | 453297   | 43.856  | ug/l   | 98       |

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

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

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