

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091522\  
 Data File : VN074457.D  
 Acq On : 15 Sep 2022 12:12  
 Operator : JC\MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Quant Time: Sep 15 19:07:44 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091522W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 15 19:05:53 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 09/16/2022  
 Supervised By : Mahesh Dadoda 09/16/2022

| Compound                     | R.T.           | QIon | Response             | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|-------|----------|
| -----                        |                |      |                      |         |       |          |
| Internal Standards           |                |      |                      |         |       |          |
| 1) Pentafluorobenzene        | 8.016          | 168  | 411173               | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.904          | 114  | 781661               | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.686         | 117  | 726394               | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.616         | 152  | 343468               | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.369          | 65   | 734884               | 127.510 | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 255.020%# |         |       |          |
| 35) Dibromofluoromethane     | 7.945          | 113  | 553505               | 113.576 | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 227.160%# |         |       |          |
| 50) Toluene-d8               | 10.381         | 98   | 2135371              | 117.848 | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 235.700%# |         |       |          |
| 62) 4-Bromofluorobenzene     | 12.675         | 95   | 804578               | 123.272 | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 246.540%# |         |       |          |
| Target Compounds             |                |      |                      |         |       |          |
|                              |                |      |                      |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.040          | 85   | 427916               | 110.695 | ug/l  | 98       |
| 3) Chloromethane             | 2.263          | 50   | 769434               | 158.143 | ug/l  | 98       |
| 4) Vinyl Chloride            | 2.405          | 62   | 791098               | 194.633 | ug/l  | 98       |
| 5) Bromomethane              | 2.775          | 94   | 360027               | 193.073 | ug/l  | 98       |
| 6) Chloroethane              | 2.934          | 64   | 524965               | 200.512 | ug/l  | 99       |
| 7) Trichlorofluoromethane    | 3.299          | 101  | 892077               | 145.510 | ug/l  | 97       |
| 8) Diethyl Ether             | 3.757          | 74   | 434817               | 139.685 | ug/l  | 82       |
| 9) 1,1,2-Trichlorotrifluo... | 4.134          | 101  | 556726               | 135.704 | ug/l  | 91       |
| 10) Methyl Iodide            | 4.340          | 142  | 729593               | 150.559 | ug/l  | 95       |
| 11) Tert butyl alcohol       | 5.287          | 59   | 1089437              | 712.696 | ug/l  | 99       |
| 12) 1,1-Dichloroethene       | 4.104          | 96   | 559313               | 137.022 | ug/l  | 91       |
| 13) Acrolein                 | 3.975          | 56   | 457021               | 747.745 | ug/l  | 96       |
| 14) Allyl chloride           | 4.751          | 41   | 1315738              | 147.197 | ug/l  | 95       |
| 15) Acrylonitrile            | 5.469          | 53   | 2724820              | 772.065 | ug/l  | 99       |
| 16) Acetone                  | 4.216          | 43   | 2218277              | 692.796 | ug/l  | 95       |
| 17) Carbon Disulfide         | 4.446          | 76   | 1510494              | 142.571 | ug/l  | 100      |
| 18) Methyl Acetate           | 4.763          | 43   | 1358317              | 153.456 | ug/l  | 92       |
| 19) Methyl tert-butyl Ether  | 5.528          | 73   | 2385237              | 152.281 | ug/l  | 98       |
| 20) Methylene Chloride       | 5.004          | 84   | 696748               | 129.286 | ug/l  | # 84     |
| 21) trans-1,2-Dichloroethene | 5.504          | 96   | 609643               | 136.009 | ug/l  | 94       |
| 22) Diisopropyl ether        | 6.404          | 45   | 2691960              | 158.893 | ug/l  | 95       |
| 23) Vinyl Acetate            | 6.346          | 43   | 12342784             | 792.986 | ug/l  | # 93     |
| 24) 1,1-Dichloroethane       | 6.298          | 63   | 1330597              | 152.011 | ug/l  | 99       |
| 25) 2-Butanone               | 7.257          | 43   | 3884912              | 751.757 | ug/l  | 91       |
| 26) 2,2-Dichloropropane      | 7.245          | 77   | 1125048              | 144.046 | ug/l  | 98       |
| 27) cis-1,2-Dichloroethene   | 7.245          | 96   | 763250               | 141.433 | ug/l  | 92       |
| 28) Bromochloromethane       | 7.581          | 49   | 391173               | 115.699 | ug/l  | # 73     |
| 29) Tetrahydrofuran          | 7.604          | 42   | 2574341              | 751.481 | ug/l  | 87       |
| 30) Chloroform               | 7.745          | 83   | 1274589              | 145.718 | ug/l  | 97       |
| 31) Cyclohexane              | 8.022          | 56   | 1213250              | 147.006 | ug/l  | 87       |
| 32) 1,1,1-Trichloroethane    | 7.940          | 97   | 1085614              | 142.759 | ug/l  | 97       |
| 36) 1,1-Dichloropropene      | 8.145          | 75   | 934812               | 137.212 | ug/l  | 97       |
| 37) Ethyl Acetate            | 7.334          | 43   | 1537699              | 140.161 | ug/l  | # 94     |
| 38) Carbon Tetrachloride     | 8.134          | 117  | 894406               | 127.350 | ug/l  | 98       |
| 39) Methylcyclohexane        | 9.392          | 83   | 1180042              | 142.843 | ug/l  | 94       |
| 40) Benzene                  | 8.387          | 78   | 2991814              | 139.284 | ug/l  | 99       |

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 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Quant Time: Sep 15 19:07:44 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091522W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 15 19:05:53 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/16/2022  
 Supervised By : Mahesh Dadoda 09/16/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.563  | 41   | 724929   | 139.709  | ug/l   | 88       |
| 42) 1,2-Dichloroethane        | 8.463  | 62   | 1024322  | 135.308  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.492  | 43   | 2367809  | 149.807  | ug/l # | 92       |
| 44) Trichloroethene           | 9.151  | 130  | 643455   | 122.612  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.422  | 63   | 809671   | 145.573  | ug/l   | 95       |
| 46) Dibromomethane            | 9.510  | 93   | 511734   | 138.653  | ug/l # | 84       |
| 47) Bromodichloromethane      | 9.698  | 83   | 1045272  | 142.501  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.498  | 41   | 1076920  | 150.579  | ug/l   | 88       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 410000   | 2613.796 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 8014142  | 771.211  | ug/l   | 91       |
| 52) Toluene                   | 10.445 | 92   | 1845045  | 140.499  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 1242218  | 155.335  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.128 | 75   | 1298525  | 148.901  | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 749402   | 131.014  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.704 | 69   | 1419810  | 152.539  | ug/l # | 85       |
| 57) 1,3-Dichloropropane       | 10.986 | 76   | 1345505  | 140.447  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.981  | 63   | 3107962  | 757.324  | ug/l   | 90       |
| 59) 2-Hexanone                | 11.028 | 43   | 6234008  | 777.548  | ug/l   | 91       |
| 60) Dibromochloromethane      | 11.180 | 129  | 753731   | 140.755  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.286 | 107  | 760101   | 135.391  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.916 | 164  | 490551   | 110.697  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.710 | 112  | 1880863  | 129.154  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 684683   | 124.557  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.786 | 91   | 3629681  | 140.081  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.892 | 106  | 2726895  | 269.573  | ug/l   | 95       |
| 69) o-Xylene                  | 12.222 | 106  | 1354722  | 133.664  | ug/l   | 96       |
| 70) Styrene                   | 12.233 | 104  | 2323092  | 142.279  | ug/l   | 98       |
| 71) Bromoform                 | 12.398 | 173  | 540390   | 131.113  | ug/l   | 100      |
| 73) Isopropylbenzene          | 12.522 | 105  | 3516347  | 128.239  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.333 | 43   | 2145093  | 146.504  | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.769 | 83   | 1315197  | 131.325  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.822 | 75   | 1013127m | 117.539  | ug/l   |          |
| 77) Bromobenzene              | 12.804 | 156  | 736138   | 115.034  | ug/l   | 74       |
| 78) n-propylbenzene           | 12.863 | 91   | 4356190  | 142.182  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 12.951 | 91   | 2493519  | 127.529  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.004 | 105  | 2918144  | 129.720  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.569 | 75   | 508291   | 152.711  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.045 | 91   | 2473187  | 133.826  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.263 | 119  | 2582376  | 125.921  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.310 | 105  | 2938303  | 130.990  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.445 | 105  | 3772844  | 136.284  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.557 | 119  | 3017252  | 135.586  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.557 | 146  | 1407181  | 121.488  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.639 | 146  | 1406205  | 120.696  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.886 | 91   | 2869445  | 154.913  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.151 | 117  | 597859   | 139.779  | ug/l   | 77       |
| 91) 1,2-Dichlorobenzene       | 13.927 | 146  | 1421873  | 118.421  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.545 | 75   | 301898   | 114.658  | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 15.198 | 180  | 745625   | 114.917  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.304 | 225  | 302110   | 107.492  | ug/l   | 99       |
| 95) Naphthalene               | 15.439 | 128  | 3060993  | 114.737  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.633 | 180  | 732286   | 105.326  | ug/l   | 98       |

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Sample : VSTDICC100  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC100

Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/16/2022  
Supervised By :Mahesh Dadoda 09/16/2022

Quant Time: Sep 15 19:07:44 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091522W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 15 19:05:53 2022  
Response via : Initial Calibration

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

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

