

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021822\  
 Data File : VN071017.D  
 Acq On : 18 Feb 2022 21:51  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Feb 19 00:45:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 16 07:52:42 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/22/2022  
 Supervised By : Mahesh Dadoda 02/22/2022

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.080  | 168  | 671098   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.963  | 114  | 1098062  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.739 | 117  | 1005331  | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.668 | 152  | 414871   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.433  | 65    | 389712   | 50.836   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =    | 101.680% |
| 35) Dibromofluoromethane    | 8.016  | 113   | 308661   | 47.259   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =    | 94.520%  |
| 50) Toluene-d8              | 10.439 | 98    | 1248500  | 47.600   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =    | 95.200%  |
| 62) 4-Bromofluorobenzene    | 12.727 | 95    | 426936   | 45.538   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =    | 91.080%  |

|                              |       |     |         |         |        |     |
|------------------------------|-------|-----|---------|---------|--------|-----|
| Target Compounds             |       |     |         |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 2.069 | 85  | 321938  | 46.187  | ug/l   | 99  |
| 3) Chloromethane             | 2.299 | 50  | 427962  | 48.847  | ug/l   | 98  |
| 4) Vinyl Chloride            | 2.440 | 62  | 410476  | 46.803  | ug/l   | 100 |
| 5) Bromomethane              | 2.834 | 94  | 219547  | 44.066  | ug/l   | 100 |
| 6) Chloroethane              | 3.004 | 64  | 262802  | 45.675  | ug/l   | 94  |
| 7) Trichlorofluoromethane    | 3.369 | 101 | 546677  | 49.738  | ug/l   | 99  |
| 8) Diethyl Ether             | 3.822 | 74  | 235187  | 49.223  | ug/l   | 95  |
| 9) 1,1,2-Trichlorotrifluo... | 4.216 | 101 | 311995  | 46.267  | ug/l   | 95  |
| 10) Methyl Iodide            | 4.422 | 142 | 455972  | 48.823  | ug/l   | 99  |
| 11) Tert butyl alcohol       | 5.363 | 59  | 387078  | 277.059 | ug/l   | 99  |
| 12) 1,1-Dichloroethene       | 4.181 | 96  | 313161  | 47.665  | ug/l   | 98  |
| 13) Acrolein                 | 4.040 | 56  | 302209  | 242.075 | ug/l   | 99  |
| 14) Allyl chloride           | 4.840 | 41  | 628406  | 50.151  | ug/l   | 88  |
| 15) Acrylonitrile            | 5.551 | 53  | 1191665 | 289.577 | ug/l   | 98  |
| 16) Acetone                  | 4.281 | 43  | 949022  | 224.787 | ug/l   | 94  |
| 17) Carbon Disulfide         | 4.534 | 76  | 792440  | 42.060  | ug/l   | 99  |
| 18) Methyl Acetate           | 4.851 | 43  | 530610  | 57.489  | ug/l   | 97  |
| 19) Methyl tert-butyl Ether  | 5.610 | 73  | 1220707 | 52.966  | ug/l   | 97  |
| 20) Methylene Chloride       | 5.098 | 84  | 388909  | 50.686  | ug/l   | 92  |
| 21) trans-1,2-Dichloroethene | 5.598 | 96  | 333869  | 47.345  | ug/l   | 92  |
| 22) Diisopropyl ether        | 6.492 | 45  | 1333576 | 55.492  | ug/l   | 94  |
| 23) Vinyl Acetate            | 6.428 | 43  | 5752375 | 282.764 | ug/l   | 99  |
| 24) 1,1-Dichloroethane       | 6.386 | 63  | 702340  | 52.134  | ug/l   | 99  |
| 25) 2-Butanone               | 7.328 | 43  | 1602324 | 285.298 | ug/l   | 98  |
| 26) 2,2-Dichloropropane      | 7.322 | 77  | 513826  | 45.892  | ug/l   | 98  |
| 27) cis-1,2-Dichloroethene   | 7.322 | 96  | 413347  | 51.000  | ug/l   | 93  |
| 28) Bromochloromethane       | 7.657 | 49  | 302345  | 55.450  | ug/l   | 87  |
| 29) Tetrahydrofuran          | 7.681 | 42  | 1079413 | 296.677 | ug/l   | 95  |
| 30) Chloroform               | 7.816 | 83  | 676751  | 51.075  | ug/l   | 98  |
| 31) Cyclohexane              | 8.092 | 56  | 649671  | 49.001  | ug/l   | 93  |
| 32) 1,1,1-Trichloroethane    | 8.010 | 97  | 585483  | 51.167  | ug/l   | 97  |
| 36) 1,1-Dichloropropene      | 8.222 | 75  | 507325  | 47.412  | ug/l   | 97  |
| 37) Ethyl Acetate            | 7.410 | 43  | 647467  | 56.420  | ug/l   | 99  |
| 38) Carbon Tetrachloride     | 8.204 | 117 | 493323  | 46.791  | ug/l   | 99  |
| 39) Methylcyclohexane        | 9.457 | 83  | 625944  | 45.461  | ug/l   | 97  |
| 40) Benzene                  | 8.457 | 78  | 1560650 | 49.307  | ug/l   | 99  |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/22/2022  
 Supervised By : Mahesh Dadoda 02/22/2022

Quant Time: Feb 19 00:45:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 16 07:52:42 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.633  | 41   | 349426   | 57.813   | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 545637   | 50.616   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 1007728  | 55.711   | ug/l   | 99       |
| 44) Trichloroethene           | 9.216  | 130  | 384180   | 46.094   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 414930   | 51.177   | ug/l   | 100      |
| 46) Dibromomethane            | 9.575  | 93   | 264396   | 49.553   | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.757  | 83   | 537050   | 49.803   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.557  | 41   | 487264   | 56.911   | ug/l # | 84       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 170319   | 1120.009 | ug/l   | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.327 | 43   | 3261154  | 296.321  | ug/l   | 97       |
| 52) Toluene                   | 10.498 | 92   | 994288   | 49.992   | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 582496   | 49.677   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 646597   | 50.213   | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 393628   | 50.561   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 666492   | 56.820   | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 703599   | 52.249   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.033 | 63   | 590677   | 229.388  | ug/l   | 96       |
| 59) 2-Hexanone                | 11.080 | 43   | 2293427  | 303.001  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.233 | 129  | 406480   | 49.405   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 404892   | 51.131   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.974 | 164  | 336253   | 42.947   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.768 | 112  | 1045809  | 48.276   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 390588   | 49.462   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.839 | 91   | 1910380  | 50.385   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.951 | 106  | 1443485  | 98.560   | ug/l   | 98       |
| 69) o-Xylene                  | 12.274 | 106  | 739633   | 51.698   | ug/l   | 99       |
| 70) Styrene                   | 12.292 | 104  | 1172263  | 51.531   | ug/l   | 98       |
| 71) Bromoform                 | 12.451 | 173  | 309958   | 49.285   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.574 | 105  | 1862325  | 55.769   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.386 | 43   | 750628   | 70.321   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 599978   | 56.540   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 462923m  | 47.391   | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 438739   | 53.670   | ug/l   | 87       |
| 78) n-propylbenzene           | 12.915 | 91   | 2050178  | 54.643   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 1253159  | 54.999   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 1489992  | 55.075   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 169158   | 56.116   | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.098 | 91   | 1163424  | 52.602   | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 1373699  | 53.540   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 1492935  | 56.059   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 1819702  | 53.825   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 1488788  | 53.643   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 715535   | 49.446   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 683029   | 48.174   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.939 | 91   | 1139018  | 50.303   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.204 | 117  | 270761   | 54.628   | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 694475   | 51.106   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 104330   | 60.682   | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.256 | 180  | 339303   | 44.646   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.362 | 225  | 191611   | 38.667   | ug/l   | 99       |
| 95) Naphthalene               | 15.498 | 128  | 1014583  | 54.232   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 332954   | 47.422   | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/22/2022  
Supervised By :Mahesh Dadoda 02/22/2022

Quant Time: Feb 19 00:45:55 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 16 07:52:42 2022  
Response via : Initial Calibration

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

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

