

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042423\  
 Data File : VN077442.D  
 Acq On : 24 Apr 2023 17:35  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN042423

Quant Time: Apr 25 02:06:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 01:54:53 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 04/25/2023  
 Supervised By : Mahesh Dadoda 04/25/2023

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.231  | 168  | 606150   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.107  | 114  | 1137544  | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.866 | 117  | 1050936  | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.795 | 152  | 446044   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.583  | 65    | 428212   | 54.169   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 108.340% |      |
| 35) Dibromofluoromethane    | 8.172  | 113   | 368374   | 54.028   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 108.060% |      |
| 50) Toluene-d8              | 10.566 | 98    | 1433546  | 54.980   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 109.960% |      |
| 62) 4-Bromofluorobenzene    | 12.854 | 95    | 495954   | 58.031   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 116.060% |      |

|                              |       |     |         |         |        |     |
|------------------------------|-------|-----|---------|---------|--------|-----|
| Target Compounds             |       |     |         |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 2.137 | 85  | 378313  | 48.899  | ug/l   | 97  |
| 3) Chloromethane             | 2.372 | 50  | 283138  | 46.599  | ug/l   | 96  |
| 4) Vinyl Chloride            | 2.525 | 62  | 386760  | 47.783  | ug/l   | 98  |
| 5) Bromomethane              | 2.954 | 94  | 321735  | 41.986  | ug/l   | 94  |
| 6) Chloroethane              | 3.125 | 64  | 261071  | 42.454  | ug/l   | 100 |
| 7) Trichlorofluoromethane    | 3.501 | 101 | 558299  | 46.928  | ug/l   | 98  |
| 8) Diethyl Ether             | 3.966 | 74  | 213768  | 49.448  | ug/l   | 99  |
| 9) 1,1,2-Trichlorotrifluo... | 4.378 | 101 | 332105  | 48.000  | ug/l   | 99  |
| 10) Methyl Iodide            | 4.601 | 142 | 425168  | 50.417  | ug/l   | 95  |
| 11) Tert butyl alcohol       | 5.525 | 59  | 299467  | 256.489 | ug/l   | 99  |
| 12) 1,1-Dichloroethene       | 4.348 | 96  | 314426  | 46.236  | ug/l   | 98  |
| 13) Acrolein                 | 4.190 | 56  | 282360  | 225.645 | ug/l   | 98  |
| 14) Allyl chloride           | 5.031 | 41  | 377178  | 50.152  | ug/l   | 97  |
| 15) Acrylonitrile            | 5.731 | 53  | 699560  | 242.858 | ug/l   | 99  |
| 16) Acetone                  | 4.437 | 43  | 585337  | 232.613 | ug/l   | 98  |
| 17) Carbon Disulfide         | 4.725 | 76  | 777714  | 45.246  | ug/l   | 99  |
| 18) Methyl Acetate           | 5.031 | 43  | 460480  | 47.387  | ug/l   | 99  |
| 19) Methyl tert-butyl Ether  | 5.801 | 73  | 1127386 | 50.115  | ug/l   | 99  |
| 20) Methylene Chloride       | 5.278 | 84  | 362372  | 45.410  | ug/l   | 94  |
| 21) trans-1,2-Dichloroethene | 5.795 | 96  | 337777  | 46.179  | ug/l   | 100 |
| 22) Diisopropyl ether        | 6.678 | 45  | 848501  | 49.159  | ug/l   | 99  |
| 23) Vinyl Acetate            | 6.613 | 43  | 2685046 | 249.089 | ug/l   | 98  |
| 24) 1,1-Dichloroethane       | 6.578 | 63  | 591329  | 48.399  | ug/l   | 98  |
| 25) 2-Butanone               | 7.484 | 43  | 843000  | 236.198 | ug/l   | 98  |
| 26) 2,2-Dichloropropane      | 7.495 | 77  | 577788  | 48.771  | ug/l   | 100 |
| 27) cis-1,2-Dichloroethene   | 7.489 | 96  | 421068  | 48.606  | ug/l   | 100 |
| 28) Bromochloromethane       | 7.813 | 49  | 251141  | 53.827  | ug/l   | 99  |
| 29) Tetrahydrofuran          | 7.842 | 42  | 533617  | 238.628 | ug/l   | 98  |
| 30) Chloroform               | 7.966 | 83  | 678259  | 49.259  | ug/l   | 93  |
| 31) Cyclohexane              | 8.260 | 56  | 486407  | 36.846  | ug/l   | 95  |
| 32) 1,1,1-Trichloroethane    | 8.172 | 97  | 616692  | 48.715  | ug/l   | 98  |
| 36) 1,1-Dichloropropene      | 8.378 | 75  | 484507  | 49.051  | ug/l   | 99  |
| 37) Ethyl Acetate            | 7.566 | 43  | 354114  | 47.178  | ug/l   | 97  |
| 38) Carbon Tetrachloride     | 8.366 | 117 | 533699  | 48.971  | ug/l   | 94  |
| 39) Methylcyclohexane        | 9.601 | 83  | 646310  | 49.662  | ug/l   | 97  |
| 40) Benzene                  | 8.613 | 78  | 1465981 | 48.718  | ug/l   | 100 |

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 MSVOA\_N  
 ClientSampleId :  
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Quant Time: Apr 25 02:06:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 01:54:53 2023  
 Response via : Initial Calibration

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 Supervised By : Mahesh Dadoda 04/25/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.784  | 41   | 181255   | 46.365  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.672  | 62   | 505581   | 48.918  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.695  | 43   | 649026   | 49.982  | ug/l   | 99       |
| 44) Trichloroethene           | 9.354  | 130  | 384147   | 49.860  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.625  | 63   | 352192   | 49.965  | ug/l   | 98       |
| 46) Dibromomethane            | 9.713  | 93   | 273204   | 47.767  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.889  | 83   | 556013   | 50.258  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.683  | 41   | 293129   | 49.592  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.695  | 88   | 142696   | 962.461 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 1820430  | 239.014 | ug/l   | 99       |
| 52) Toluene                   | 10.630 | 92   | 983042   | 49.868  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.836 | 75   | 602983   | 53.826  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 637774   | 52.303  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 11.019 | 97   | 397055   | 50.089  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 573166   | 51.601  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 11.166 | 76   | 642317   | 50.870  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.160 | 63   | 1052450  | 280.130 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.195 | 43   | 1357465  | 245.194 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.360 | 129  | 421620   | 51.249  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.472 | 107  | 403318   | 49.835  | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.107 | 164  | 295552   | 46.980  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.895 | 112  | 1047272  | 47.093  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.960 | 131  | 385871   | 47.691  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.966 | 91   | 1908822  | 48.759  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.071 | 106  | 1488002  | 97.797  | ug/l   | 100      |
| 69) o-Xylene                  | 12.401 | 106  | 740486   | 49.478  | ug/l   | 99       |
| 70) Styrene                   | 12.413 | 104  | 1200975  | 51.313  | ug/l   | 99       |
| 71) Bromoform                 | 12.577 | 173  | 276802   | 52.292  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.701 | 105  | 1925909  | 46.530  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.495 | 43   | 557893   | 45.527  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 550831   | 42.355  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 459359m  | 43.341  | ug/l   |          |
| 77) Bromobenzene              | 12.983 | 156  | 412417   | 45.718  | ug/l   | 98       |
| 78) n-propylbenzene           | 13.036 | 91   | 2203360  | 48.144  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.130 | 91   | 1303278  | 46.188  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 1601540  | 52.103  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.736 | 75   | 177128   | 49.609  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 1253407  | 47.537  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.442 | 119  | 1376773  | 46.122  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.483 | 105  | 1566280  | 54.561  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 1973614  | 48.169  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 1583958  | 50.245  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 764093   | 47.628  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.813 | 146  | 755035   | 47.704  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.060 | 91   | 1358346  | 55.677  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.336 | 117  | 317067   | 45.525  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 756371   | 47.535  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.724 | 75   | 105943   | 44.052  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.371 | 180  | 261439   | 50.803  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.465 | 225  | 161085   | 50.098  | ug/l   | 97       |
| 95) Naphthalene               | 15.589 | 128  | 992635   | 50.738  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.754 | 180  | 239444   | 50.026  | ug/l   | 97       |

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Instrument :  
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ICVVN042423

Manual Integrations  
APPROVED

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Supervised By :Mahesh Dadoda 04/25/2023

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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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