

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN033022\  
 Data File : VN071650.D  
 Acq On : 30 Mar 2022 11:15  
 Operator : JC\MD  
 Sample : VSTDIC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC020

Quant Time: Mar 30 12:07:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N033022W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 12:03:14 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/31/2022  
 Supervised By : Mahesh Dadoda 04/01/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 565468     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 887511     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 799885     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.668         | 152  | 316575     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.433          | 65   | 125230     | 18.623   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 37.240%# |        |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 100473     | 18.596   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 37.200%# |        |          |
| 50) Toluene-d8               | 10.433         | 98   | 415036     | 18.618   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 37.240%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 131133     | 17.986   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 35.980%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 92039      | 16.929   | ug/l   | 99       |
| 3) Chloromethane             | 2.299          | 50   | 107434     | 16.696   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.446          | 62   | 121912     | 17.039   | ug/l   | 98       |
| 5) Bromomethane              | 2.851          | 94   | 82054      | 19.618   | ug/l   | 99       |
| 6) Chloroethane              | 3.016          | 64   | 82823      | 16.004   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.375          | 101  | 155702     | 18.159   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.828          | 74   | 66534      | 18.617   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.216          | 101  | 94185      | 18.069   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.422          | 142  | 134100     | 17.558   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.357          | 59   | 102189     | 85.991   | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 91529      | 18.208   | ug/l   | 95       |
| 13) Acrolein                 | 4.040          | 56   | 127291     | 117.290  | ug/l   | 99       |
| 14) Allyl chloride           | 4.840          | 41   | 147518     | 18.275   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.545          | 53   | 308521     | 92.563   | ug/l   | 98       |
| 16) Acetone                  | 4.281          | 43   | 258306     | 92.434   | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.534          | 76   | 193563     | 15.563   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.851          | 43   | 138478     | 16.018   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 349316     | 18.885   | ug/l   | 97       |
| 20) Methylene Chloride       | 5.098          | 84   | 112845     | 18.372   | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.592          | 96   | 98697      | 18.265   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.487          | 45   | 330986     | 19.144   | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.428          | 43   | 1369613    | 94.029   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.387          | 63   | 191058     | 18.596   | ug/l   | 99       |
| 25) 2-Butanone               | 7.328          | 43   | 396621     | 91.729   | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.322          | 77   | 165262     | 18.710   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.322          | 96   | 124655     | 18.729   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.657          | 49   | 80371      | 19.747   | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.681          | 42   | 262523     | 93.344   | ug/l   | 99       |
| 30) Chloroform               | 7.810          | 83   | 199520     | 18.918   | ug/l   | 99       |
| 31) Cyclohexane              | 8.092          | 56   | 166683     | 17.749   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 170320     | 18.652   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.216          | 75   | 139462     | 17.883   | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.404          | 43   | 156807     | 18.260   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 137923     | 17.888   | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.457          | 83   | 170940     | 17.776   | ug/l   | 98       |
| 40) Benzene                  | 8.457          | 78   | 446795     | 18.656   | ug/l   | 98       |

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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC020

Manual Integrations  
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 Supervised By : Mahesh Dadoda 04/01/2022

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 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 12:03:14 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.628  | 41   | 86325    | 20.758  | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.522  | 62   | 155324   | 18.770  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 248109   | 16.422  | ug/l   | 99       |
| 44) Trichloroethene           | 9.210  | 130  | 116532   | 18.463  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 112231   | 18.977  | ug/l   | 95       |
| 46) Dibromomethane            | 9.575  | 93   | 76744    | 18.975  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.757  | 83   | 153207   | 19.218  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.551  | 41   | 116135   | 19.069  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 48302    | 355.743 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.322 | 43   | 786193   | 93.839  | ug/l   | 100      |
| 52) Toluene                   | 10.498 | 92   | 289577   | 18.759  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 160958   | 18.561  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 179876   | 19.078  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 118998   | 19.088  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 174169   | 18.759  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 197836   | 19.039  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.033 | 63   | 198657   | 83.958  | ug/l   | 100      |
| 59) 2-Hexanone                | 11.080 | 43   | 557381   | 93.114  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.233 | 129  | 118831   | 19.063  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 117966   | 18.764  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.974 | 164  | 103289   | 18.757  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.763 | 112  | 312964   | 18.787  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.833 | 131  | 116151   | 19.456  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.839 | 91   | 538843   | 18.760  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.951 | 106  | 421920   | 38.593  | ug/l   | 100      |
| 69) o-Xylene                  | 12.274 | 106  | 209852   | 19.118  | ug/l   | 98       |
| 70) Styrene                   | 12.292 | 104  | 322961   | 19.280  | ug/l   | 99       |
| 71) Bromoform                 | 12.451 | 173  | 88709    | 18.810  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.574 | 105  | 535669   | 19.322  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.380 | 43   | 154749   | 18.375  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 176473   | 19.027  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 125534m  | 16.534  | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 126012   | 18.055  | ug/l   | 100      |
| 78) n-propylbenzene           | 12.916 | 91   | 562381   | 18.809  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 353431   | 18.874  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.051 | 105  | 430692   | 19.674  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 45847    | 17.433  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 13.098 | 91   | 324686   | 18.578  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.315 | 119  | 390215   | 19.408  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 417035   | 19.419  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.498 | 105  | 509143   | 19.200  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 406322   | 19.249  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 210658   | 18.721  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 201926   | 18.074  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.939 | 91   | 294259   | 18.452  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.204 | 117  | 73888    | 18.670  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.980 | 146  | 203828   | 18.541  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 27841    | 17.414  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 86718    | 17.825  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.362 | 225  | 60173    | 19.575  | ug/l   | 99       |
| 95) Naphthalene               | 15.498 | 128  | 210351   | 15.894  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.692 | 180  | 83113    | 17.088  | ug/l   | 100      |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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