

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051524\  
 Data File : VN082130.D  
 Acq On : 15 May 2024 13:49  
 Operator : JC\MD  
 Sample : VSTDICCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 05/16/2024  
 Supervised By :Mahesh Dadoda 05/16/2024

Quant Time: May 16 04:57:37 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 04:51:03 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 208041     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 352589     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 324363     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 151604     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 163855     | 49.879   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 99.760%  |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 110054     | 50.740   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 101.480% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 428787     | 51.564   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 103.120% |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 155862     | 52.513   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 64 - 133 |      | Recovery = | 105.020% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 156258     | 52.096   | ug/l   | 96       |
| 3) Chloromethane             | 2.359          | 50   | 167705     | 49.336   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.512          | 62   | 161628     | 50.577   | ug/l   | 96       |
| 5) Bromomethane              | 2.954          | 94   | 86924      | 47.323   | ug/l   | 100      |
| 6) Chloroethane              | 3.118          | 64   | 99881      | 47.867   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 212595     | 50.804   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.959          | 74   | 78175      | 52.440   | ug/l   | 70       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 120624     | 49.345   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.589          | 142  | 129912     | 52.865   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 134214     | 254.522  | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 116032     | 51.069   | ug/l # | 73       |
| 13) Acrolein                 | 4.177          | 56   | 103907     | 265.908  | ug/l   | 99       |
| 14) Allyl chloride           | 5.024          | 41   | 236332     | 48.583   | ug/l # | 90       |
| 15) Acrylonitrile            | 5.718          | 53   | 353044     | 258.509  | ug/l   | 100      |
| 16) Acetone                  | 4.424          | 43   | 360608     | 267.598  | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.712          | 76   | 352681     | 48.060   | ug/l   | 98       |
| 18) Methyl Acetate           | 5.024          | 43   | 164289     | 48.954   | ug/l # | 84       |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 431812     | 51.995   | ug/l   | 93       |
| 20) Methylene Chloride       | 5.277          | 84   | 131778     | 48.468   | ug/l # | 72       |
| 21) trans-1,2-Dichloroethene | 5.789          | 96   | 122572     | 49.505   | ug/l # | 80       |
| 22) Diisopropyl ether        | 6.671          | 45   | 522824     | 51.471   | ug/l # | 93       |
| 23) Vinyl Acetate            | 6.600          | 43   | 2146772    | 268.059  | ug/l # | 89       |
| 24) 1,1-Dichloroethane       | 6.571          | 63   | 259680     | 49.599   | ug/l   | 96       |
| 25) 2-Butanone               | 7.483          | 43   | 531822     | 260.297  | ug/l # | 84       |
| 26) 2,2-Dichloropropane      | 7.489          | 77   | 225182     | 51.350   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.489          | 96   | 148270     | 50.742   | ug/l   | 79       |
| 28) Bromochloromethane       | 7.812          | 49   | 114730     | 50.441   | ug/l # | 74       |
| 29) Tetrahydrofuran          | 7.836          | 42   | 343814     | 262.092  | ug/l # | 80       |
| 30) Chloroform               | 7.965          | 83   | 248790     | 49.761   | ug/l   | 99       |
| 31) Cyclohexane              | 8.259          | 56   | 243472     | 46.405   | ug/l   | 85       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 227750     | 51.347   | ug/l   | 92       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 186432     | 51.250   | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.559          | 43   | 218292     | 53.621   | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 190859     | 51.757   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.600          | 83   | 212288     | 53.240   | ug/l # | 85       |
| 40) Benzene                  | 8.606          | 78   | 556775     | 51.327   | ug/l   | 99       |

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 ALS Vial : 5 Sample Multiplier: 1

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Manual Integrations  
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Reviewed By : John Carlone 05/16/2024  
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Quant Time: May 16 04:57:37 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 04:51:03 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 122692   | 51.245   | ug/l # | 85       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 211449   | 50.683   | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 375268   | 52.022   | ug/l # | 89       |
| 44) Trichloroethene           | 9.353  | 130  | 124107   | 50.366   | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 142720   | 50.993   | ug/l   | 99       |
| 46) Dibromomethane            | 9.712  | 93   | 93777    | 51.035   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.888  | 83   | 202339   | 52.161   | ug/l # | 96       |
| 48) Methyl methacrylate       | 9.682  | 41   | 182783   | 53.177   | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 50969    | 1058.202 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1099711  | 268.319  | ug/l   | 90       |
| 52) Toluene                   | 10.629 | 92   | 344401   | 52.905   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 218121   | 54.368   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 226970   | 53.446   | ug/l # | 79       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 120618   | 50.987   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 224741   | 55.955   | ug/l # | 68       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 226465   | 51.200   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 565068   | 272.758  | ug/l   | 90       |
| 59) 2-Hexanone                | 11.194 | 43   | 832651   | 277.461  | ug/l   | 88       |
| 60) Dibromochloromethane      | 11.359 | 129  | 144454   | 55.332   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 124723   | 51.329   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 119092   | 49.536   | ug/l   | 94       |
| 65) Chlorobenzene             | 11.894 | 112  | 361616   | 50.465   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 123356   | 52.262   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 671341   | 52.373   | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.071 | 106  | 499323   | 106.284  | ug/l   | 92       |
| 69) o-Xylene                  | 12.400 | 106  | 241606   | 53.091   | ug/l   | 92       |
| 70) Styrene                   | 12.412 | 104  | 410383   | 54.291   | ug/l   | 95       |
| 71) Bromoform                 | 12.576 | 173  | 94096    | 50.122   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.694 | 105  | 625967   | 51.973   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.494 | 43   | 342555   | 51.707   | ug/l # | 86       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 172289   | 49.624   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 164053m  | 51.486   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 143402   | 49.961   | ug/l   | 86       |
| 78) n-propylbenzene           | 13.035 | 91   | 758852   | 53.207   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 453766   | 50.667   | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 523273   | 53.731   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 70411    | 54.260   | ug/l # | 79       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 449951   | 51.386   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 444895   | 52.218   | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 533053   | 53.500   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 627465   | 53.133   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 522178   | 54.408   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 265318   | 51.022   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 263536   | 49.655   | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 469757   | 54.456   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.335 | 117  | 94453    | 53.117   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 253273   | 51.455   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 38615    | 54.134   | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 146001   | 52.916   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 60343    | 49.843   | ug/l   | 96       |
| 95) Naphthalene               | 15.641 | 128  | 473910   | 54.809   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 141170   | 51.110   | ug/l   | 97       |

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Quant Title : SW846 8260  
QLast Update : Thu May 16 04:51:03 2024  
Response via : Initial Calibration

| 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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