

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081522\  
 Data File : VN073910.D  
 Acq On : 15 Aug 2022 21:13  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Aug 16 00:00:23 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 15 23:50:46 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/16/2022  
 Supervised By : Mahesh Dadoda 08/16/2022

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.016  | 168  | 632667   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.904  | 114  | 938177   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.686 | 117  | 871069   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.616 | 152  | 450101   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.369  | 65    | 337144   | 54.712   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 109.420% |      |
| 35) Dibromofluoromethane    | 7.951  | 113   | 302217   | 54.470   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 108.940% |      |
| 50) Toluene-d8              | 10.381 | 98    | 1171517  | 54.519   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 109.040% |      |
| 62) 4-Bromofluorobenzene    | 12.669 | 95    | 412769   | 57.880   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 115.760% |      |

|                              |       |     |         |         |        |     |
|------------------------------|-------|-----|---------|---------|--------|-----|
| Target Compounds             |       |     |         |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 2.046 | 85  | 262513  | 52.329  | ug/l   | 96  |
| 3) Chloromethane             | 2.269 | 50  | 291045  | 52.172  | ug/l   | 98  |
| 4) Vinyl Chloride            | 2.405 | 62  | 365824  | 51.082  | ug/l   | 98  |
| 5) Bromomethane              | 2.787 | 94  | 188395  | 42.126  | ug/l   | 98  |
| 6) Chloroethane              | 2.957 | 64  | 236655  | 46.777  | ug/l   | 97  |
| 7) Trichlorofluoromethane    | 3.310 | 101 | 510139  | 55.220  | ug/l   | 98  |
| 8) Diethyl Ether             | 3.763 | 74  | 172572  | 50.322  | ug/l   | 96  |
| 9) 1,1,2-Trichlorotrifluo... | 4.140 | 101 | 259665  | 48.385  | ug/l   | 93  |
| 10) Methyl Iodide            | 4.351 | 142 | 344095  | 53.407  | ug/l   | 98  |
| 11) Tert butyl alcohol       | 5.293 | 59  | 379329  | 275.200 | ug/l   | 99  |
| 12) 1,1-Dichloroethene       | 4.110 | 96  | 247447  | 49.556  | ug/l   | 93  |
| 13) Acrolein                 | 3.981 | 56  | 298347  | 309.230 | ug/l   | 98  |
| 14) Allyl chloride           | 4.763 | 41  | 371462  | 50.231  | ug/l   | 99  |
| 15) Acrylonitrile            | 5.475 | 53  | 904347  | 268.735 | ug/l   | 100 |
| 16) Acetone                  | 4.222 | 43  | 766666  | 263.711 | ug/l   | 100 |
| 17) Carbon Disulfide         | 4.457 | 76  | 576556  | 48.562  | ug/l   | 99  |
| 18) Methyl Acetate           | 4.769 | 43  | 427001  | 59.237  | ug/l   | 98  |
| 19) Methyl tert-butyl Ether  | 5.534 | 73  | 936540  | 52.078  | ug/l   | 95  |
| 20) Methylene Chloride       | 5.010 | 84  | 292980  | 47.758  | ug/l   | 94  |
| 21) trans-1,2-Dichloroethene | 5.516 | 96  | 269870  | 49.057  | ug/l   | 93  |
| 22) Diisopropyl ether        | 6.410 | 45  | 828594  | 52.847  | ug/l   | 97  |
| 23) Vinyl Acetate            | 6.351 | 43  | 3645139 | 271.288 | ug/l   | 99  |
| 24) 1,1-Dichloroethane       | 6.304 | 63  | 495084  | 50.727  | ug/l   | 97  |
| 25) 2-Butanone               | 7.257 | 43  | 1254339 | 272.108 | ug/l   | 98  |
| 26) 2,2-Dichloropropane      | 7.245 | 77  | 369388  | 40.285  | ug/l   | 97  |
| 27) cis-1,2-Dichloroethene   | 7.251 | 96  | 338370  | 49.854  | ug/l   | 91  |
| 28) Bromochloromethane       | 7.581 | 49  | 175870  | 48.858  | ug/l   | 86  |
| 29) Tetrahydrofuran          | 7.610 | 42  | 806448  | 272.722 | ug/l   | 96  |
| 30) Chloroform               | 7.745 | 83  | 546285  | 50.057  | ug/l   | 99  |
| 31) Cyclohexane              | 8.022 | 56  | 421914  | 49.115  | ug/l   | 95  |
| 32) 1,1,1-Trichloroethane    | 7.939 | 97  | 489966  | 50.627  | ug/l   | 97  |
| 36) 1,1-Dichloropropene      | 8.151 | 75  | 381427  | 49.495  | ug/l   | 98  |
| 37) Ethyl Acetate            | 7.340 | 43  | 469277  | 50.264  | ug/l   | 98  |
| 38) Carbon Tetrachloride     | 8.134 | 117 | 425964  | 48.358  | ug/l   | 99  |
| 39) Methylcyclohexane        | 9.392 | 83  | 493452  | 51.102  | ug/l   | 95  |
| 40) Benzene                  | 8.392 | 78  | 1193883 | 49.085  | ug/l   | 98  |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/16/2022  
 Supervised By : Mahesh Dadoda 08/16/2022

Quant Time: Aug 16 00:00:23 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 15 23:50:46 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.563  | 41   | 233747   | 55.401   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.463  | 62   | 417203   | 49.886   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.498  | 43   | 712375   | 53.561   | ug/l   | 99       |
| 44) Trichloroethene           | 9.151  | 130  | 340466   | 48.465   | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.428  | 63   | 289852   | 49.719   | ug/l   | 100      |
| 46) Dibromomethane            | 9.516  | 93   | 220100   | 49.658   | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.698  | 83   | 420431   | 49.628   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.498  | 41   | 312580   | 54.926   | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.504  | 88   | 174179   | 1029.199 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43   | 2429732  | 270.202  | ug/l   | 99       |
| 52) Toluene                   | 10.445 | 92   | 798721   | 47.890   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.657 | 75   | 457824   | 51.501   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.128 | 75   | 484926   | 49.856   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.839 | 97   | 334483   | 51.556   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.704 | 69   | 522126   | 56.426   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.986 | 76   | 536692   | 50.878   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.981  | 63   | 1139856  | 263.556  | ug/l   | 96       |
| 59) 2-Hexanone                | 11.028 | 43   | 1923596  | 277.955  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.180 | 129  | 360559   | 50.255   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.286 | 107  | 350131   | 50.457   | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.916 | 164  | 317475   | 46.177   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.710 | 112  | 893457   | 48.263   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.780 | 131  | 338607   | 48.302   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.786 | 91   | 1549983  | 50.346   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.892 | 106  | 1228748  | 98.229   | ug/l   | 97       |
| 69) o-Xylene                  | 12.222 | 106  | 622347   | 49.613   | ug/l   | 95       |
| 70) Styrene                   | 12.233 | 104  | 1018618  | 51.868   | ug/l   | 98       |
| 71) Bromoform                 | 12.398 | 173  | 299174   | 47.801   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.522 | 105  | 1590240  | 48.520   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.327 | 43   | 628098   | 50.693   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.769 | 83   | 523051   | 47.557   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.822 | 75   | 455677m  | 47.997   | ug/l   |          |
| 77) Bromobenzene              | 12.798 | 156  | 416685   | 46.969   | ug/l   | 92       |
| 78) n-propylbenzene           | 12.863 | 91   | 1756779  | 50.285   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.945 | 91   | 1060035  | 48.689   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.998 | 105  | 1345328  | 50.465   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.569 | 75   | 156724   | 47.647   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 13.045 | 91   | 1037115  | 50.155   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.263 | 119  | 1228907  | 50.095   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.310 | 105  | 1354872  | 50.894   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.439 | 105  | 1678727  | 52.791   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.557 | 119  | 1451309  | 53.573   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.557 | 146  | 742973   | 48.292   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.633 | 146  | 747002   | 47.911   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.880 | 91   | 1151413  | 53.661   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.151 | 117  | 234488   | 47.354   | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.927 | 146  | 759899   | 47.831   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.545 | 75   | 125676   | 48.395   | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 15.198 | 180  | 505765   | 52.306   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.298 | 225  | 245217   | 48.110   | ug/l   | 99       |
| 95) Naphthalene               | 15.433 | 128  | 1741463  | 55.243   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.627 | 180  | 526572   | 52.687   | ug/l   | 99       |

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Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/16/2022  
Supervised By :Mahesh Dadoda 08/16/2022

Quant Time: Aug 16 00:00:23 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 15 23:50:46 2022  
Response via : Initial Calibration

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

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

