

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100124\  
 Data File : VN084254.D  
 Acq On : 01 Oct 2024 21:06  
 Operator : JC\MD  
 Sample : P4226-04MSD  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT172S1-20240924MSD

Quant Time: Oct 02 02:10:05 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 07:11:01 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John Carlone 10/02/2024  
 Supervised By :Semsettin Yesilyurt 10/02/2024

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.224  | 168  | 148329   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 256578   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 231499   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 112831   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |           |
|-----------------------------|--------|-------|----------|----------|------|-----------|
| System Monitoring Compounds |        |       |          |          |      |           |
| 33) 1,2-Dichloroethane-d4   | 8.576  | 65    | 120962   | 55.001   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 110.000%  |
| 35) Dibromofluoromethane    | 8.165  | 113   | 93768    | 55.434   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 110.860%  |
| 50) Toluene-d8              | 10.565 | 98    | 356069   | 57.215   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 114.440%# |
| 62) 4-Bromofluorobenzene    | 12.847 | 95    | 128092   | 56.498   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | =    | 113.000%  |

|                              |       |     |         |         |        |     |
|------------------------------|-------|-----|---------|---------|--------|-----|
| Target Compounds             |       |     |         |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 2.124 | 85  | 93017   | 53.016  | ug/l   | 96  |
| 3) Chloromethane             | 2.359 | 50  | 105594  | 52.709  | ug/l   | 100 |
| 4) Vinyl Chloride            | 2.512 | 62  | 104417  | 53.809  | ug/l   | 100 |
| 5) Bromomethane              | 2.947 | 94  | 63804   | 49.848  | ug/l   | 96  |
| 6) Chloroethane              | 3.118 | 64  | 66106   | 47.567  | ug/l   | 98  |
| 7) Trichlorofluoromethane    | 3.500 | 101 | 164713  | 54.509  | ug/l   | 98  |
| 8) Diethyl Ether             | 3.965 | 74  | 57619   | 51.413  | ug/l   | 95  |
| 9) 1,1,2-Trichlorotrifluo... | 4.365 | 101 | 92099   | 53.192  | ug/l   | 99  |
| 10) Methyl Iodide            | 4.588 | 142 | 121872  | 54.657  | ug/l   | 95  |
| 11) Tert butyl alcohol       | 5.512 | 59  | 91595   | 252.579 | ug/l # | 85  |
| 12) 1,1-Dichloroethene       | 4.341 | 96  | 89239   | 53.434  | ug/l   | 96  |
| 13) Acrolein                 | 4.183 | 56  | 106833  | 256.616 | ug/l   | 98  |
| 14) Allyl chloride           | 5.024 | 41  | 142640  | 49.178  | ug/l   | 100 |
| 15) Acrylonitrile            | 5.718 | 53  | 246872  | 269.580 | ug/l   | 99  |
| 16) Acetone                  | 4.430 | 43  | 206452  | 218.525 | ug/l   | 98  |
| 17) Carbon Disulfide         | 4.712 | 76  | 259386  | 49.055  | ug/l   | 98  |
| 18) Methyl Acetate           | 5.024 | 43  | 100631  | 48.870  | ug/l   | 100 |
| 19) Methyl tert-butyl Ether  | 5.794 | 73  | 305984  | 54.283  | ug/l   | 98  |
| 20) Methylene Chloride       | 5.277 | 84  | 103119  | 53.694  | ug/l   | 89  |
| 21) trans-1,2-Dichloroethene | 5.783 | 96  | 93279   | 53.311  | ug/l   | 98  |
| 22) Diisopropyl ether        | 6.671 | 45  | 331510  | 55.257  | ug/l   | 100 |
| 23) Vinyl Acetate            | 6.606 | 43  | 1122947 | 252.360 | ug/l   | 99  |
| 24) 1,1-Dichloroethane       | 6.571 | 63  | 183810  | 54.786  | ug/l   | 98  |
| 25) 2-Butanone               | 7.482 | 43  | 329397  | 255.988 | ug/l   | 99  |
| 26) 2,2-Dichloropropane      | 7.488 | 77  | 130037  | 42.986  | ug/l   | 99  |
| 27) cis-1,2-Dichloroethene   | 7.488 | 96  | 114920  | 54.353  | ug/l   | 97  |
| 28) Bromochloromethane       | 7.812 | 49  | 72984   | 48.755  | ug/l   | 99  |
| 29) Tetrahydrofuran          | 7.841 | 42  | 219382  | 276.270 | ug/l   | 99  |
| 30) Chloroform               | 7.965 | 83  | 189199  | 54.289  | ug/l   | 96  |
| 31) Cyclohexane              | 8.253 | 56  | 161233  | 49.495  | ug/l   | 98  |
| 32) 1,1,1-Trichloroethane    | 8.171 | 97  | 170863  | 54.590  | ug/l   | 99  |
| 36) 1,1-Dichloropropene      | 8.371 | 75  | 132837  | 54.065  | ug/l   | 100 |
| 37) Ethyl Acetate            | 7.559 | 43  | 129924  | 51.543  | ug/l   | 99  |
| 38) Carbon Tetrachloride     | 8.365 | 117 | 149541  | 55.484  | ug/l   | 96  |
| 39) Methylcyclohexane        | 9.600 | 83  | 148274  | 54.222  | ug/l   | 98  |
| 40) Benzene                  | 8.606 | 78  | 422104  | 55.140  | ug/l   | 99  |

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 Sample : P4226-04MSD  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT172S1-20240924MSD

Quant Time: Oct 02 02:10:05 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 07:11:01 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 10/02/2024  
 Supervised By :Semsettin Yesilyurt 10/02/2024

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 75985    | 55.527   | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 142449   | 54.889   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 216520   | 43.854   | ug/l   | 98       |
| 44) Trichloroethene           | 9.353  | 130  | 161779   | 90.484   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 102718   | 56.722   | ug/l   | 99       |
| 46) Dibromomethane            | 9.712  | 93   | 70466    | 57.661   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.888  | 83   | 149309   | 54.993   | ug/l # | 98       |
| 48) Methyl methacrylate       | 9.682  | 41   | 110916   | 56.435   | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 40925    | 1131.059 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 677433   | 282.314  | ug/l   | 100      |
| 52) Toluene                   | 10.629 | 92   | 259606   | 55.612   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 145625   | 52.617   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 153781   | 51.658   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 94978    | 56.755   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.870 | 69   | 156357   | 56.782   | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 165478   | 55.339   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.194 | 63   | 256      | 0.200    | ug/l # | 48       |
| 59) 2-Hexanone                | 11.194 | 43   | 495346   | 276.194  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.359 | 129  | 111499   | 56.390   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 95291    | 54.800   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.100 | 164  | 84754    | 52.563   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.888 | 112  | 269878   | 52.578   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 96521    | 54.594   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.964 | 91   | 490111   | 53.993   | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.070 | 106  | 372365   | 110.896  | ug/l   | 100      |
| 69) o-Xylene                  | 12.394 | 106  | 178053   | 56.047   | ug/l   | 99       |
| 70) Styrene                   | 12.412 | 104  | 305969   | 56.861   | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 72032    | 55.340   | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.694 | 105  | 453773   | 52.703   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 188132   | 48.252   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 133444   | 51.543   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 114159m  | 49.559   | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 107628   | 51.823   | ug/l   | 96       |
| 78) n-propylbenzene           | 13.035 | 91   | 541347   | 54.267   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 332277   | 52.200   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 385004   | 54.818   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 43717    | 45.501   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 13.217 | 91   | 338789   | 52.870   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.435 | 119  | 329875   | 52.845   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 391992   | 55.404   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 449382   | 53.948   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 376347   | 54.637   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 202923   | 52.083   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.811 | 146  | 199360   | 50.669   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 322710   | 51.668   | ug/l   | 100      |
| 90) Hexachloroethane          | 14.329 | 117  | 70757    | 50.607   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 194207   | 50.835   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 26627    | 49.839   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 93607    | 49.745   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 41248    | 43.955   | ug/l   | 98       |
| 95) Naphthalene               | 15.641 | 128  | 307022   | 49.216   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 93539    | 49.659   | ug/l   | 98       |

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ALS Vial : 27 Sample Multiplier: 1

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TT172S1-20240924MSD

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/02/2024  
Supervised By :Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 02:10:05 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 01 07:11:01 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

