

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX052324\  
 Data File : VX041615.D  
 Acq On : 23 May 2024 09:19  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: May 24 05:47:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 08 06:03:16 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/24/2024  
 Supervised By :Semsettin Yesilyurt 05/24/2024

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 182347               | 50.000  | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 255032               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 235205               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 134894               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 108121               | 54.466  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 108.940%  |         |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 90214                | 52.199  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 104.400%  |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 309142               | 56.514  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 113.020%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 121927               | 57.580  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 115.160%  |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 72238                | 48.212  | ug/l   | 97       |
| 3) Chloromethane             | 1.300          | 50   | 67948                | 43.825  | ug/l   | 97       |
| 4) Vinyl Chloride            | 1.374          | 62   | 73353                | 49.629  | ug/l   | 99       |
| 5) Bromomethane              | 1.599          | 94   | 47692                | 51.471  | ug/l   | 97       |
| 6) Chloroethane              | 1.666          | 64   | 40991                | 59.731  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 1.867          | 101  | 133664               | 52.444  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.136          | 74   | 50624                | 56.354  | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 2.318          | 101  | 76948                | 53.718  | ug/l   | 88       |
| 10) Methyl Iodide            | 2.440          | 142  | 87405                | 56.694  | ug/l   | 92       |
| 11) Tert butyl alcohol       | 3.001          | 59   | 99777                | 251.123 | ug/l # | 91       |
| 12) 1,1-Dichloroethene       | 2.306          | 96   | 69060                | 48.873  | ug/l   | 91       |
| 13) Acrolein                 | 2.239          | 56   | 77777                | 246.751 | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 123881               | 52.182  | ug/l   | 98       |
| 15) Acrylonitrile            | 3.068          | 53   | 243068               | 268.047 | ug/l   | 98       |
| 16) Acetone                  | 2.392          | 43   | 259089               | 297.121 | ug/l   | 97       |
| 17) Carbon Disulfide         | 2.501          | 76   | 126411               | 38.057  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.709          | 43   | 120568               | 59.365  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 259396               | 50.357  | ug/l   | 100      |
| 20) Methylene Chloride       | 2.788          | 84   | 82158                | 47.674  | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 71978                | 45.580  | ug/l   | 89       |
| 22) Diisopropyl ether        | 3.763          | 45   | 261139               | 51.903  | ug/l   | 89       |
| 23) Vinyl Acetate            | 3.721          | 43   | 1179284              | 262.024 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 142639               | 50.182  | ug/l   | 98       |
| 25) 2-Butanone               | 4.562          | 43   | 364598               | 283.776 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 118994               | 50.070  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 92259                | 49.343  | ug/l   | 92       |
| 28) Bromochloromethane       | 4.897          | 49   | 52146                | 51.404  | ug/l # | 81       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 221245               | 263.305 | ug/l   | 96       |
| 30) Chloroform               | 5.092          | 83   | 154451               | 52.229  | ug/l   | 97       |
| 31) Cyclohexane              | 5.464          | 56   | 108154               | 45.142  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 133810               | 49.735  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.684          | 75   | 94909                | 45.925  | ug/l   | 96       |
| 37) Ethyl Acetate            | 4.714          | 43   | 133232               | 51.669  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.665          | 117  | 117676               | 49.705  | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.379          | 83   | 117374               | 48.345  | ug/l   | 95       |
| 40) Benzene                  | 6.031          | 78   | 304524               | 47.800  | ug/l   | 99       |

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 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: May 24 05:47:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 08 06:03:16 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/24/2024  
 Supervised By :Semsettin Yesilyurt 05/24/2024

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 74373    | 56.040   | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 117457   | 50.307   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 204470   | 52.739   | ug/l   | 98       |
| 44) Trichloroethene           | 7.122  | 130  | 84276    | 50.097   | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 77736    | 54.613   | ug/l   | 99       |
| 46) Dibromomethane            | 7.580  | 93   | 58725    | 51.825   | ug/l # | 79       |
| 47) Bromodichloromethane      | 7.817  | 83   | 116603   | 57.746   | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.696  | 41   | 103408   | 58.184   | ug/l   | 97       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 44058    | 1146.593 | ug/l # | 87       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 717414   | 308.378  | ug/l   | 99       |
| 52) Toluene                   | 8.714  | 92   | 200417   | 51.426   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 115005   | 49.043   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 123314   | 55.550   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 85958    | 57.273   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 138251   | 59.520   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 138699   | 55.373   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 324207   | 287.865  | ug/l   | 94       |
| 59) 2-Hexanone                | 9.433  | 43   | 562936   | 302.608  | ug/l   | 98       |
| 60) Dibromochloromethane      | 9.518  | 129  | 102190   | 57.838   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 89195    | 54.020   | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.268  | 164  | 80902    | 47.500   | ug/l   | 90       |
| 65) Chlorobenzene             | 10.079 | 112  | 240239   | 50.315   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 89566    | 53.089   | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 391433   | 49.689   | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.299 | 106  | 307716   | 97.544   | ug/l   | 96       |
| 69) o-Xylene                  | 10.640 | 106  | 154391   | 51.114   | ug/l   | 95       |
| 70) Styrene                   | 10.652 | 104  | 268836   | 54.240   | ug/l   | 96       |
| 71) Bromoform                 | 10.799 | 173  | 83285    | 55.161   | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 408228   | 49.577   | ug/l   | 97       |
| 74) N-amyl acetate            | 10.841 | 43   | 191055   | 53.109   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 146110   | 54.152   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 119220m  | 54.232   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 116106   | 49.960   | ug/l   | 80       |
| 78) n-propylbenzene           | 11.305 | 91   | 455849   | 52.710   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 282748   | 50.734   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 343624   | 51.192   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 43758    | 54.219   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 325971   | 51.521   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 373739   | 51.994   | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 349865   | 51.800   | ug/l   | 95       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 442490   | 53.716   | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 387381   | 52.361   | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 215454   | 51.005   | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 216303   | 49.701   | ug/l   | 95       |
| 89) n-Butylbenzene            | 12.329 | 91   | 316243   | 53.159   | ug/l   | 97       |
| 90) Hexachloroethane          | 12.536 | 117  | 66055    | 53.389   | ug/l   | 63       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 219157   | 49.119   | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 33504    | 53.737   | ug/l   | 64       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 153035   | 49.069   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 75598    | 48.540   | ug/l   | 99       |
| 95) Naphthalene               | 13.774 | 128  | 473445   | 51.226   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 158540   | 49.739   | ug/l   | 96       |

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Manual Integrations  
APPROVED

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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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