

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091223\  
 Data File : VX037681.D  
 Acq On : 12 Sep 2023 20:17  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/13/2023  
 Supervised By : Mahesh Dadoda 09/13/2023

Quant Time: Sep 13 01:51:50 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 10:10:04 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 118622               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 246432               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 255379               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 125843               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 131998               | 68.777  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 137.560%# |         |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 100346               | 57.448  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 114.900%  |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 337233               | 51.191  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 102.380%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 132744               | 55.853  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 111.700%  |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 51555                | 39.641  | ug/l   | 96       |
| 3) Chloromethane             | 1.301          | 50   | 80597                | 54.398  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 76440                | 45.863  | ug/l   | 97       |
| 5) Bromomethane              | 1.593          | 94   | 67834                | 48.658  | ug/l   | 100      |
| 6) Chloroethane              | 1.666          | 64   | 61485                | 53.654  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.874          | 101  | 119715               | 43.414  | ug/l   | 97       |
| 8) Diethyl Ether             | 2.136          | 74   | 74019                | 67.635  | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 50544                | 40.889  | ug/l   | 99       |
| 10) Methyl Iodide            | 2.447          | 142  | 92287                | 63.219  | ug/l   | 95       |
| 11) Tert butyl alcohol       | 2.977          | 59   | 165143               | 423.203 | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 2.313          | 96   | 59321                | 48.607  | ug/l   | 86       |
| 13) Acrolein                 | 2.239          | 56   | 110266               | 351.644 | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 129168               | 60.416  | ug/l   | 96       |
| 15) Acrylonitrile            | 3.068          | 53   | 337731               | 383.714 | ug/l   | 99       |
| 16) Acetone                  | 2.386          | 43   | 286317               | 369.008 | ug/l   | 90       |
| 17) Carbon Disulfide         | 2.508          | 76   | 135193               | 43.576  | ug/l   | 97       |
| 18) Methyl Acetate           | 2.703          | 43   | 247404               | 75.504  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 348707               | 72.376  | ug/l   | 100      |
| 20) Methylene Chloride       | 2.788          | 84   | 107460               | 72.193  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 75714                | 53.923  | ug/l   | 91       |
| 22) Diisopropyl ether        | 3.764          | 45   | 315321               | 67.700  | ug/l   | 87       |
| 23) Vinyl Acetate            | 3.721          | 43   | 1268809              | 373.476 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 164738               | 60.696  | ug/l   | 100      |
| 25) 2-Butanone               | 4.562          | 43   | 472375               | 373.373 | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 94553                | 50.081  | ug/l   | 92       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 109296               | 63.833  | ug/l   | 89       |
| 28) Bromochloromethane       | 4.897          | 49   | 92651                | 67.567  | ug/l   | 85       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 307896               | 382.164 | ug/l   | 91       |
| 30) Chloroform               | 5.093          | 83   | 187053               | 63.814  | ug/l   | 99       |
| 31) Cyclohexane              | 5.471          | 56   | 90939                | 41.149  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 130978               | 53.688  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 95596                | 40.231  | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.721          | 43   | 181148               | 66.625  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 101026               | 41.617  | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.379          | 83   | 91916                | 32.690  | ug/l   | 93       |
| 40) Benzene                  | 6.037          | 78   | 375067               | 52.066  | ug/l   | 98       |

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 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Sep 13 01:51:50 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 10:10:04 2023  
 Response via : Initial Calibration

Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 95965    | 67.009   | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 165268   | 58.698   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 283299   | 65.312   | ug/l   | 96       |
| 44) Trichloroethene           | 7.129  | 130  | 90262    | 50.151   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 107801   | 56.705   | ug/l   | 99       |
| 46) Dibromomethane            | 7.580  | 93   | 83843    | 60.622   | ug/l   | 93       |
| 47) Bromodichloromethane      | 7.824  | 83   | 147294   | 58.994   | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.696  | 41   | 138607   | 66.104   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 7.665  | 88   | 73120    | 1407.518 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 946427   | 332.283  | ug/l   | 96       |
| 52) Toluene                   | 8.720  | 92   | 234312   | 50.589   | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 160081   | 63.240   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 168647   | 60.717   | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 126002   | 64.605   | ug/l   | 94       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 198853   | 66.639   | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 203265   | 62.134   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 485291   | 335.403  | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 738152   | 335.744  | ug/l   | 95       |
| 60) Dibromochloromethane      | 9.519  | 129  | 123015   | 64.214   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 135001   | 64.397   | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.275  | 164  | 65959    | 39.864   | ug/l   | 97       |
| 65) Chlorobenzene             | 10.079 | 112  | 272448   | 50.052   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 108208   | 57.681   | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 438576   | 45.276   | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 338542   | 91.657   | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 184821   | 50.188   | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 317786   | 52.894   | ug/l   | 96       |
| 71) Bromoform                 | 10.799 | 173  | 93373    | 63.608   | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 414698   | 44.015   | ug/l   | 99       |
| 74) N-amyl acetate            | 10.842 | 43   | 253541   | 61.712   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 209905   | 59.534   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 166398m  | 60.145   | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 124041   | 55.555   | ug/l   | 91       |
| 78) n-propylbenzene           | 11.305 | 91   | 460270   | 42.462   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 319374   | 47.865   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 368711   | 46.564   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 55849    | 61.362   | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 362032   | 47.498   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 360075   | 45.265   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 382552   | 47.920   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 396481   | 40.372   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 333821   | 41.482   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 210539   | 49.109   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 215170   | 48.835   | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 272491   | 37.387   | ug/l   | 97       |
| 90) Hexachloroethane          | 12.536 | 117  | 59963    | 44.157   | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 231496   | 53.971   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 47031    | 64.963   | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 126872   | 49.667   | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 38182    | 35.782   | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 558545   | 60.362   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 138192   | 52.726   | ug/l   | 98       |

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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

## Manual Integrations

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