

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111323\  
 Data File : VX038784.D  
 Acq On : 13 Nov 2023 16:53  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Nov 14 05:32:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X110723W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 08 03:19:07 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/14/2023  
 Supervised By : Mahesh Dadoda 11/15/2023

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 103306               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 184873               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 175378               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 90136                | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 75980                | 59.077  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 118.160%# |         |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 63479                | 47.674  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 95.340%   |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 236689               | 49.676  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 99.360%   |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 100503               | 54.405  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 108.800%  |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 64391                | 60.021  | ug/l   | 99       |
| 3) Chloromethane             | 1.294          | 50   | 62698                | 67.616  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 54602                | 55.313  | ug/l   | 97       |
| 5) Bromomethane              | 1.599          | 94   | 33727                | 44.266  | ug/l   | 95       |
| 6) Chloroethane              | 1.685          | 64   | 31901                | 51.039  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 81597                | 47.946  | ug/l   | 94       |
| 8) Diethyl Ether             | 2.136          | 74   | 29064                | 49.749  | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 60884                | 60.505  | ug/l   | 98       |
| 10) Methyl Iodide            | 2.453          | 142  | 73274                | 58.961  | ug/l   | 90       |
| 11) Tert butyl alcohol       | 2.953          | 59   | 79829                | 303.627 | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 60110                | 62.348  | ug/l   | 84       |
| 13) Acrolein                 | 2.233          | 56   | 73477                | 368.728 | ug/l   | 98       |
| 14) Allyl chloride           | 2.666          | 41   | 110651               | 80.129  | ug/l   | 91       |
| 15) Acrylonitrile            | 3.062          | 53   | 210166               | 378.770 | ug/l   | 98       |
| 16) Acetone                  | 2.373          | 43   | 205346               | 379.111 | ug/l   | 90       |
| 17) Carbon Disulfide         | 2.514          | 76   | 156270               | 61.002  | ug/l   | 100      |
| 18) Methyl Acetate           | 2.697          | 43   | 185471               | 80.373  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 201902               | 65.488  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 70412                | 64.486  | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 63806                | 60.791  | ug/l   | 92       |
| 22) Diisopropyl ether        | 3.757          | 45   | 203583               | 78.223  | ug/l   | 90       |
| 23) Vinyl Acetate            | 3.721          | 43   | 722418               | 391.070 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 117015               | 67.957  | ug/l   | 99       |
| 25) 2-Butanone               | 4.550          | 43   | 299943               | 382.264 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 90112                | 59.938  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 76168                | 62.843  | ug/l   | 92       |
| 28) Bromochloromethane       | 4.897          | 49   | 51485                | 66.534  | ug/l   | 87       |
| 29) Tetrahydrofuran          | 4.995          | 42   | 192647               | 394.617 | ug/l   | 95       |
| 30) Chloroform               | 5.092          | 83   | 121227               | 60.004  | ug/l   | 97       |
| 31) Cyclohexane              | 5.470          | 56   | 103028               | 72.381  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 103580               | 58.258  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 89008                | 53.814  | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.708          | 43   | 108127               | 64.030  | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 88222                | 47.712  | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.379          | 83   | 111389               | 53.865  | ug/l   | 97       |
| 40) Benzene                  | 6.037          | 78   | 264438               | 55.508  | ug/l   | 99       |

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 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/14/2023  
 Supervised By : Mahesh Dadoda 11/15/2023

Quant Time: Nov 14 05:32:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X110723W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 08 03:19:07 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 60435    | 70.246   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 92683    | 53.918   | ug/l   | 95       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 163192   | 62.858   | ug/l   | 95       |
| 44) Trichloroethene           | 7.123  | 130  | 70220    | 47.373   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 68147    | 59.174   | ug/l   | 99       |
| 46) Dibromomethane            | 7.580  | 93   | 48419    | 50.274   | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.824  | 83   | 91586    | 50.565   | ug/l   | 96       |
| 48) Methyl methacrylate       | 7.690  | 41   | 82049    | 65.578   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 29684    | 1042.170 | ug/l # | 94       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 551781   | 326.207  | ug/l   | 97       |
| 52) Toluene                   | 8.720  | 92   | 167294   | 53.606   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 101576   | 55.084   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 110660   | 56.845   | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 70179    | 52.999   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 111768   | 60.329   | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 114850   | 55.687   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 264795   | 290.701  | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 441671   | 322.703  | ug/l   | 95       |
| 60) Dibromochloromethane      | 9.518  | 129  | 72462    | 48.749   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 75393    | 50.662   | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.275  | 164  | 54713    | 41.678   | ug/l   | 97       |
| 65) Chlorobenzene             | 10.079 | 112  | 183121   | 51.293   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 64441    | 48.015   | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 327103   | 54.165   | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.299 | 106  | 249021   | 103.899  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 121125   | 51.968   | ug/l   | 98       |
| 70) Styrene                   | 10.652 | 104  | 206264   | 53.620   | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 51027    | 43.076   | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 322043   | 58.238   | ug/l   | 98       |
| 74) N-amyl acetate            | 10.841 | 43   | 142311   | 74.068   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 115042   | 60.178   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 99838m   | 55.927   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 76380    | 50.328   | ug/l   | 98       |
| 78) n-propylbenzene           | 11.305 | 91   | 388938   | 60.442   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 236321   | 61.341   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 279789   | 58.789   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 36056    | 61.663   | ug/l   | 87       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 274866   | 61.071   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.713 | 119  | 268804   | 55.740   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 279282   | 59.166   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 347807   | 57.801   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 289915   | 56.557   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 149018   | 51.358   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 148482   | 49.786   | ug/l   | 97       |
| 89) n-Butylbenzene            | 12.329 | 91   | 267065   | 58.547   | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 50741    | 58.438   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 143453   | 50.624   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 29456    | 61.306   | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 92985    | 45.878   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 35218    | 40.269   | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 336754   | 55.082   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 89570    | 44.836   | ug/l   | 98       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/14/2023  
Supervised By :Mahesh Dadoda 11/15/2023

Quant Time: Nov 14 05:32:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X110723W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 08 03:19:07 2023  
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

## Manual Integrations

Quant Time: Nov 14 05:32:47 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X110723W.M  
Quant Title : SW846 8260  
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