

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031922\  
 Data File : VX027551.D  
 Acq On : 19 Mar 2022 10:56  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/21/2022  
 Supervised By : Mahesh Dadoda 03/21/2022

Quant Time: Mar 21 01:19:03 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031722W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 17 15:02:59 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 316900              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 487348              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 437532              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 222741              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 206534              | 52.905  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 105.800% |         |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 178574              | 56.952  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 113.900% |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 662318              | 55.821  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 111.640% |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.085         | 95   | 239455              | 54.907  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 109.820% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 167240              | 54.980  | ug/l   | 100      |
| 3) Chloromethane             | 1.294          | 50   | 136354              | 50.497  | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.374          | 62   | 166904              | 53.496  | ug/l   | 100      |
| 5) Bromomethane              | 1.599          | 94   | 68683               | 42.178  | ug/l   | 98       |
| 6) Chloroethane              | 1.678          | 64   | 104084              | 54.365  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 259316              | 50.350  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.136          | 74   | 100389              | 52.329  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 170688              | 55.654  | ug/l   | 95       |
| 10) Methyl Iodide            | 2.447          | 142  | 177300              | 43.672  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.971          | 59   | 168591              | 226.599 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 161381              | 54.843  | ug/l   | 91       |
| 13) Acrolein                 | 2.239          | 56   | 141226              | 244.610 | ug/l   | 95       |
| 14) Allyl chloride           | 2.660          | 41   | 241471              | 52.440  | ug/l   | 96       |
| 15) Acrylonitrile            | 3.062          | 53   | 461720              | 272.970 | ug/l   | 100      |
| 16) Acetone                  | 2.380          | 43   | 371298              | 233.337 | ug/l   | 98       |
| 17) Carbon Disulfide         | 2.508          | 76   | 409314              | 54.666  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 196289              | 51.470  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 518477              | 52.222  | ug/l   | 100      |
| 20) Methylene Chloride       | 2.788          | 84   | 177858              | 51.986  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 175830              | 56.016  | ug/l   | 96       |
| 22) Diisopropyl ether        | 3.763          | 45   | 500810              | 55.692  | ug/l   | 93       |
| 23) Vinyl Acetate            | 3.721          | 43   | 2167181             | 277.124 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 300242              | 54.896  | ug/l   | 100      |
| 25) 2-Butanone               | 4.556          | 43   | 624248              | 260.747 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 234365              | 52.475  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 200395              | 55.051  | ug/l   | 97       |
| 28) Bromochloromethane       | 4.897          | 49   | 125058              | 56.684  | ug/l   | 95       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 411015              | 267.620 | ug/l   | 93       |
| 30) Chloroform               | 5.092          | 83   | 324890              | 53.851  | ug/l   | 100      |
| 31) Cyclohexane              | 5.470          | 56   | 269255              | 55.543  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 286536              | 52.164  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 238123              | 55.573  | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.714          | 43   | 240100              | 56.234  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 264263              | 53.909  | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.379          | 83   | 303309              | 56.291  | ug/l   | 97       |
| 40) Benzene                  | 6.037          | 78   | 694701              | 56.512  | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Mar 21 01:19:03 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031722W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 17 15:02:59 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/21/2022  
 Supervised By : Mahesh Dadoda 03/21/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 129368   | 55.557  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 254100   | 55.154  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 364701   | 53.074  | ug/l   | 97       |
| 44) Trichloroethene           | 7.129  | 130  | 200333   | 53.684  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.433  | 63   | 175975   | 56.202  | ug/l   | 100      |
| 46) Dibromomethane            | 7.580  | 93   | 130633   | 54.615  | ug/l   | 100      |
| 47) Bromodichloromethane      | 7.824  | 83   | 251309   | 55.800  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.696  | 41   | 188191   | 55.339  | ug/l   | 91       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 86825    | 994.048 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 1199376  | 273.425 | ug/l   | 96       |
| 52) Toluene                   | 8.720  | 92   | 451699   | 54.833  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 254984   | 55.163  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 285098   | 56.671  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 187956   | 56.038  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 278090   | 55.414  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 300026   | 55.099  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 704716   | 277.531 | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 910299   | 269.445 | ug/l   | 93       |
| 60) Dibromochloromethane      | 9.525  | 129  | 204765   | 55.458  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 195313   | 52.981  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 188387   | 55.377  | ug/l   | 96       |
| 65) Chlorobenzene             | 10.079 | 112  | 496605   | 55.176  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 185548   | 55.255  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 868693   | 56.388  | ug/l   | 97       |
| 68) m/p-Xylenes               | 10.305 | 106  | 684004   | 112.762 | ug/l   | 100      |
| 69) o-Xylene                  | 10.646 | 106  | 332452   | 56.447  | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 556239   | 57.814  | ug/l   | 99       |
| 71) Bromoform                 | 10.799 | 173  | 150392   | 56.059  | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.963 | 105  | 875882   | 53.987  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.848 | 43   | 308702   | 53.662  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 277203   | 53.939  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 252285m  | 54.150  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 218773   | 53.498  | ug/l   | 95       |
| 78) n-propylbenzene           | 11.305 | 91   | 998569   | 56.069  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 595594   | 53.311  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 751059   | 55.003  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 80206    | 52.283  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 690408   | 54.276  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 738065   | 54.562  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 753377   | 55.323  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 915496   | 56.005  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 789625   | 56.239  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 412884   | 54.493  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 414763   | 54.100  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 669016   | 57.096  | ug/l   | 97       |
| 90) Hexachloroethane          | 12.542 | 117  | 124839   | 55.754  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 403461   | 54.535  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 62068    | 52.659  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 261245   | 55.093  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 115074   | 54.937  | ug/l   | 93       |
| 95) Naphthalene               | 13.780 | 128  | 857735   | 55.565  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 260323   | 54.271  | ug/l   | 96       |

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 03/21/2022  
Supervised By :Mahesh Dadoda 03/21/2022

Quant Time: Mar 21 01:19:03 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031722W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 17 15:02:59 2022  
Response via : Initial Calibration

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

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

