

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012022\  
 Data File : VX026525.D  
 Acq On : 20 Jan 2022 11:57  
 Operator : JC/MD  
 Sample : VX0120WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0120WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/21/2022  
 Supervised By : Mahesh Dadoda 01/21/2022

Quant Time: Jan 21 04:01:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 11 14:45:13 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 100179     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 161571     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 139178     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 65405      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 67722      | 48.393   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 96.780%  |        |          |
| 35) Dibromofluoromethane     | 5.391          | 113  | 53201      | 50.989   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 101.980% |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 192001     | 51.066   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 102.140% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 69872      | 52.313   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 104.620% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.173          | 85   | 20527      | 17.352   | ug/l   | 98       |
| 3) Chloromethane             | 1.294          | 50   | 19747      | 18.210   | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.380          | 62   | 21299      | 18.707   | ug/l   | 99       |
| 5) Bromomethane              | 1.618          | 94   | 10336      | 19.679   | ug/l   | 95       |
| 6) Chloroethane              | 1.691          | 64   | 12176      | 21.148   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 1.892          | 101  | 32591      | 18.131   | ug/l   | 100      |
| 8) Diethyl Ether             | 2.136          | 74   | 11732      | 18.444   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 21205      | 19.357   | ug/l   | 99       |
| 10) Methyl Iodide            | 2.459          | 142  | 24363      | 23.268   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.983          | 59   | 18506      | 95.061   | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 2.325          | 96   | 19709      | 18.838   | ug/l   | 94       |
| 13) Acrolein                 | 2.239          | 56   | 24431      | 118.102  | ug/l   | 98       |
| 14) Allyl chloride           | 2.666          | 41   | 35779      | 18.596   | ug/l   | 99       |
| 15) Acrylonitrile            | 3.069          | 53   | 59870      | 99.905   | ug/l   | 99       |
| 16) Acetone                  | 2.386          | 43   | 65869      | 92.298   | ug/l   | 97       |
| 17) Carbon Disulfide         | 2.514          | 76   | 52653      | 17.237   | ug/l   | 97       |
| 18) Methyl Acetate           | 2.709          | 43   | 27457      | 19.353   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 69619      | 18.339   | ug/l   | 100      |
| 20) Methylene Chloride       | 2.794          | 84   | 22172      | 18.804   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 3.099          | 96   | 21477      | 18.962   | ug/l   | 98       |
| 22) Diisopropyl ether        | 3.764          | 45   | 74622      | 19.094   | ug/l   | 98       |
| 23) Vinyl Acetate            | 3.727          | 43   | 306508     | 95.275   | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.617          | 63   | 40323      | 19.104   | ug/l   | 99       |
| 25) 2-Butanone               | 4.562          | 43   | 91285      | 98.359   | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 28030      | 17.916   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 24855      | 19.228   | ug/l   | 98       |
| 28) Bromochloromethane       | 4.904          | 49   | 17031      | 19.651   | ug/l   | 99       |
| 29) Tetrahydrofuran          | 5.013          | 42   | 54207      | 98.343   | ug/l   | 99       |
| 30) Chloroform               | 5.099          | 83   | 42298      | 19.287   | ug/l   | 97       |
| 31) Cyclohexane              | 5.477          | 56   | 38411      | 18.609   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 36422      | 18.881   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 31227      | 18.959   | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.715          | 43   | 33908      | 20.351   | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 32373      | 19.107   | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.385          | 83   | 38112      | 19.183   | ug/l   | 100      |
| 40) Benzene                  | 6.044          | 78   | 88736      | 19.491   | ug/l   | 97       |

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 Operator : JC/MD  
 Sample : VX0120WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0120WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/21/2022  
 Supervised By : Mahesh Dadoda 01/21/2022

Quant Time: Jan 21 04:01:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 11 14:45:13 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 18526    | 19.628  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 33590    | 18.858  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 52531    | 19.518  | ug/l   | 99       |
| 44) Trichloroethene           | 7.129  | 130  | 25220    | 19.522  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 22578    | 19.868  | ug/l   | 97       |
| 46) Dibromomethane            | 7.586  | 93   | 15519    | 19.372  | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.824  | 83   | 31118    | 19.225  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.696  | 41   | 25705    | 19.272  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.690  | 88   | 8731     | 398.874 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 166106   | 104.050 | ug/l   | 99       |
| 52) Toluene                   | 8.720  | 92   | 54499    | 19.521  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 28795    | 17.895  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 33443    | 19.237  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 21935    | 20.134  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 33438    | 20.027  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 38007    | 20.122  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 94718    | 108.188 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 127020   | 103.958 | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.525  | 129  | 22661    | 19.960  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 22546    | 19.860  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 26700    | 20.308  | ug/l   | 95       |
| 65) Chlorobenzene             | 10.079 | 112  | 56873    | 19.405  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 20534    | 18.855  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 103643   | 19.459  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.305 | 106  | 77950    | 39.108  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 37628    | 19.564  | ug/l   | 98       |
| 70) Styrene                   | 10.659 | 104  | 62566    | 19.936  | ug/l   | 99       |
| 71) Bromoform                 | 10.799 | 173  | 14841    | 19.252  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 102505   | 19.120  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.842 | 43   | 38451    | 18.578  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 28132    | 19.550  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 28601m   | 19.861  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 23444    | 19.088  | ug/l   | 100      |
| 78) n-propylbenzene           | 11.305 | 91   | 116547   | 19.064  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 70095    | 18.907  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 86116    | 19.484  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 7441     | 19.651  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 81032    | 19.018  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 80431    | 19.493  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 84534    | 19.122  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 104839   | 19.644  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 87545    | 19.552  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 44044    | 19.132  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 43583    | 18.704  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.335 | 91   | 75997    | 19.778  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 12446    | 18.109  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 43110    | 19.816  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 6595     | 18.963  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 26040    | 18.669  | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 11286    | 19.168  | ug/l   | 98       |
| 95) Naphthalene               | 13.780 | 128  | 92861    | 19.960  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 26560    | 19.363  | ug/l   | 98       |

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Sample : VX0120WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0120WBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 01/21/2022  
Supervised By :Mahesh Dadoda 01/21/2022

Quant Time: Jan 21 04:01:55 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 11 14:45:13 2022  
Response via : Initial Calibration

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

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

## Manual Integrations

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