

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX110122\  
 Data File : VX032518.D  
 Acq On : 01 Nov 2022 17:08  
 Operator : JC/MD  
 Sample : N4955-07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT4-2022

Quant Time: Nov 02 06:18:47 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 02 06:18:44 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/02/2022  
 Supervised By : Mahesh Dadoda 11/02/2022

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 107170     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 167523     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 146102     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 69655      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 70881      | 47.600  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 95.200% |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 57381      | 48.019  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 96.040% |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 193247     | 46.508  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 93.020% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 71467      | 44.031  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 88.060% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 368        | 0.298   | ug/l   | 100      |
| 3) Chloromethane             | 1.294          | 50   | 462        | 0.442   | ug/l   | 91       |
| 4) Vinyl Chloride            | 1.374          | 62   | 336        | 0.292   | ug/l # | 74       |
| 5) Bromomethane              | 1.611          | 94   | 426        | 0.463   | ug/l # | 75       |
| 6) Chloroethane              | 1.684          | 64   | 262        | 0.339   | ug/l   | 92       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 882        | 0.405   | ug/l   | 89       |
| 8) Diethyl Ether             | 2.142          | 74   | 328        | 0.464   | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 433        | 0.376   | ug/l   | 88       |
| 10) Methyl Iodide            | 2.447          | 142  | 464        | 0.388   | ug/l # | 73       |
| 11) Tert butyl alcohol       | 2.940          | 59   | 682m       | 3.147   | ug/l   |          |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 357        | 0.332   | ug/l # | 70       |
| 13) Acrolein                 | 2.239          | 56   | 406        | 1.876   | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 731        | 0.427   | ug/l # | 79       |
| 15) Acrylonitrile            | 3.068          | 53   | 949        | 1.613   | ug/l   | 87       |
| 16) Acetone                  | 2.379          | 43   | 1244       | 2.299   | ug/l   | 92       |
| 17) Carbon Disulfide         | 2.514          | 76   | 758        | 0.296   | ug/l # | 74       |
| 18) Methyl Acetate           | 2.703          | 43   | 700        | 0.398   | ug/l # | 75       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 1444       | 0.382   | ug/l   | 95       |
| 20) Methylene Chloride       | 2.794          | 84   | 841        | 0.678   | ug/l # | 88       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 397        | 0.339   | ug/l # | 84       |
| 22) Diisopropyl ether        | 3.763          | 45   | 1429       | 0.386   | ug/l # | 66       |
| 23) Vinyl Acetate            | 3.733          | 43   | 5012       | 1.674   | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 3.617          | 63   | 893        | 0.419   | ug/l # | 82       |
| 25) 2-Butanone               | 4.574          | 43   | 1567       | 1.869   | ug/l # | 79       |
| 26) 2,2-Dichloropropane      | 4.483          | 77   | 534        | 0.315   | ug/l # | 53       |
| 27) cis-1,2-Dichloroethene   | 4.495          | 96   | 413        | 0.305   | ug/l   | 75       |
| 28) Bromochloromethane       | 4.897          | 49   | 372        | 0.490   | ug/l # | 47       |
| 29) Tetrahydrofuran          | 5.025          | 42   | 1003       | 1.876   | ug/l # | 78       |
| 30) Chloroform               | 5.105          | 83   | 906        | 0.387   | ug/l   | 91       |
| 31) Cyclohexane              | 5.464          | 56   | 598        | 0.331   | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 849        | 0.404   | ug/l # | 48       |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 628        | 0.377   | ug/l # | 71       |
| 37) Ethyl Acetate            | 4.751          | 43   | 653m       | 0.377   | ug/l   |          |
| 38) Carbon Tetrachloride     | 5.690          | 117  | 695        | 0.377   | ug/l # | 63       |
| 39) Methylcyclohexane        | 7.391          | 83   | 706        | 0.359   | ug/l # | 84       |
| 40) Benzene                  | 6.043          | 78   | 1877       | 0.399   | ug/l # | 89       |

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 Sample : N4955-07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT4-2022

Quant Time: Nov 02 06:18:47 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 02 06:18:44 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 11/02/2022  
 Supervised By :Mahesh Dadoda 11/02/2022

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 41) Methacrylonitrile         | 4.958  | 41   | 201      | 0.228 | ug/l # | 48       |
| 42) 1,2-Dichloroethane        | 6.098  | 62   | 833      | 0.433 | ug/l # | 77       |
| 43) Isopropyl Acetate         | 6.354  | 43   | 974      | 0.366 | ug/l # | 79       |
| 44) Trichloroethene           | 7.129  | 130  | 590      | 0.445 | ug/l   | 83       |
| 45) 1,2-Dichloropropane       | 7.446  | 63   | 413      | 0.342 | ug/l # | 44       |
| 46) Dibromomethane            | 7.592  | 93   | 301      | 0.325 | ug/l   | 88       |
| 47) Bromodichloromethane      | 7.824  | 83   | 612      | 0.348 | ug/l # | 96       |
| 48) Methyl methacrylate       | 7.708  | 41   | 307      | 0.224 | ug/l # | 48       |
| 49) 1,4-Dioxane               | 7.689  | 88   | 136m     | 5.196 | ug/l   |          |
| 51) 4-Methyl-2-Pentanone      | 8.580  | 43   | 2923     | 1.745 | ug/l   | 98       |
| 52) Toluene                   | 8.726  | 92   | 1078     | 0.351 | ug/l   | 86       |
| 53) t-1,3-Dichloropropene     | 8.982  | 75   | 604      | 0.337 | ug/l # | 88       |
| 54) cis-1,3-Dichloropropene   | 8.378  | 75   | 630      | 0.329 | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 9.159  | 97   | 442      | 0.342 | ug/l # | 63       |
| 56) Ethyl methacrylate        | 9.128  | 69   | 575      | 0.309 | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 9.317  | 76   | 755      | 0.361 | ug/l   | 93       |
| 58) 2-Chloroethyl Vinyl ether | 8.250  | 63   | 1665     | 1.857 | ug/l   | 98       |
| 59) 2-Hexanone                | 9.439  | 43   | 2115     | 1.702 | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.525  | 129  | 445      | 0.315 | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 497      | 0.363 | ug/l   | 97       |
| 64) Tetrachloroethene         | 9.281  | 164  | 435      | 0.407 | ug/l # | 78       |
| 65) Chlorobenzene             | 10.079 | 112  | 1361     | 0.416 | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 488      | 0.396 | ug/l # | 54       |
| 67) Ethyl Benzene             | 10.195 | 91   | 2215     | 0.378 | ug/l   | 90       |
| 68) m/p-Xylenes               | 10.305 | 106  | 1653     | 0.727 | ug/l   | 99       |
| 69) o-Xylene                  | 10.646 | 106  | 804      | 0.364 | ug/l   | 98       |
| 70) Styrene                   | 10.665 | 104  | 1232     | 0.336 | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 310      | 0.318 | ug/l # | 82       |
| 73) Isopropylbenzene          | 10.963 | 105  | 2179     | 0.395 | ug/l   | 97       |
| 74) N-amyl acetate            | 10.847 | 43   | 672      | 0.322 | ug/l # | 84       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 654      | 0.369 | ug/l # | 92       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 630m     | 0.407 | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 542      | 0.401 | ug/l   | 92       |
| 78) n-propylbenzene           | 11.305 | 91   | 2242     | 0.353 | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 1576     | 0.414 | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 1740     | 0.369 | ug/l   | 89       |
| 81) trans-1,4-Dichloro-2-b... | 11.012 | 75   | 147m     | 0.302 | ug/l   |          |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 1656     | 0.372 | ug/l   | 95       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 1896     | 0.403 | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 1787     | 0.381 | ug/l   | 95       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 2171     | 0.383 | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 1785     | 0.371 | ug/l   | 83       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 958      | 0.375 | ug/l   | 93       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 1092m    | 0.412 | ug/l   |          |
| 89) n-Butylbenzene            | 12.335 | 91   | 1496     | 0.358 | ug/l   | 90       |
| 90) Hexachloroethane          | 12.542 | 117  | 174      | 0.222 | ug/l   | 85       |
| 91) 1,2-Dichlorobenzene       | 12.341 | 146  | 1049     | 0.417 | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 112      | 0.288 | ug/l   | 70       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 552      | 0.336 | ug/l   | 88       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 291      | 0.425 | ug/l   | 88       |
| 95) Naphthalene               | 13.780 | 128  | 1856     | 0.339 | ug/l # | 95       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 687      | 0.412 | ug/l   | 88       |

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Sample : N4955-07  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/02/2022  
Supervised By :Mahesh Dadoda 11/02/2022

Quant Time: Nov 02 06:18:47 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102622W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 02 06:18:44 2022  
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

