# Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010519\
Data File : VU029022.D
Acq On : 04 Jan 2019 12:53
Operator : MD/SY
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** VSTDCCC050

**Manual Integrations APPROVED**
MMDadoda
1/7/2019 12:48:51 PM

Quant Time: Jan 05 04:00:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Fri Jan 04 02:22:53 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 4.98 | 168 | 121440 | 50.00 ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.88 | 114 | 190198 | 50.00 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 9.09 | 117 | 179705 | 50.00 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152 | 92259 | 50.00 ug/l | 0.00 |

| System Monitoring Compounds | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 33) 1,2-Dichloroethane-d4 | 5.31 | 65 | 73475 | 48.94 ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = | 97.88% | |
| 35) Dibromofluoromethane | 4.88 | 113 | 62773 | 50.91 ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = | 101.82% | |
| 50) Toluene-d8 | 7.56 | 98 | 246792 | 50.70 ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = | 101.40% | |
| 62) 4-Bromofluorobenzene | 10.30 | 95 | 88139 | 50.39 ug/l | 0.00 |
| Spiked Amount 50.000 | | | Recovery = | 100.78% | |

| Target Compounds | R.T. | QIon | Response | Conc Units | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.20 | 85 | 59115 | 49.085 ug/l | 99 |
| 3) Chloromethane | 1.33 | 50 | 92543 | 48.117 ug/l | 100 |
| 4) Vinyl Chloride | 1.40 | 62 | 86051 | 48.485 ug/l | 99 |
| 5) Bromomethane | 1.60 | 94 | 48640 | 53.521 ug/l | 98 |
| 6) Chloroethane | 1.68 | 64 | 49151 | 46.494 ug/l | 99 |
| 7) Trichlorofluoromethane | 1.88 | 101 | 94338 | 48.781 ug/l | 100 |
| 8) Diethyl Ether | 2.10 | 74 | 45143 | 48.588 ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluoroet | 2.28 | 101 | 62844 | 48.566 ug/l | 99 |
| 10) Methyl Iodide | 2.40 | 142 | 61990 | 50.949 ug/l | 100 |
| 11) Tert butyl alcohol | 2.83 | 59 | 80868 | 211.923 ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.28 | 96 | 60655 | 48.158 ug/l | 98 |
| 13) Acrolein | 2.19 | 56 | 62042 | 216.525 ug/l | 100 |
| 14) Allyl chloride | 2.59 | 41 | 116946 | 50.605 ug/l | 99 |
| 15) Acrylonitrile | 2.93 | 53 | 225064 | 240.408 ug/l | 100 |
| 16) Acetone | 2.32 | 43 | 225989 | 238.960 ug/l | 99 |
| 17) Carbon Disulfide | 2.47 | 76 | 201340 | 48.255 ug/l | 100 |
| 18) Methyl Acetate | 2.61 | 43 | 101952 | 46.364 ug/l | 98 |
| 19) Methyl tert-butyl Ether | 3.00 | 73 | 210057 | 47.437 ug/l | 100 |
| 20) Methylene Chloride | 2.70 | 84 | 76010 | 47.338 ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 2.98 | 96 | 68880 | 47.071 ug/l | 97 |
| 22) Diisopropyl ether | 3.57 | 45 | 227830 | 49.882 ug/l | 99 |
| 23) Vinyl Acetate | 3.52 | 43 | 940038 | 251.762 ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.44 | 63 | 130040 | 49.321 ug/l | 99 |
| 25) 2-Butanone | 4.26 | 43 | 311896 | 244.177 ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.22 | 77 | 107057 | 50.251 ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.22 | 96 | 78124 | 48.813 ug/l | 99 |
| 28) Bromochloromethane | 4.54 | 49 | 56601 | 50.134 ug/l | 99 |
| 29) Tetrahydrofuran | 4.63 | 42 | 183959 | 237.452 ug/l | 98 |
| 30) Chloroform | 4.67 | 83 | 123966 | 49.363 ug/l | 99 |
| 31) Cyclohexane | 4.99 | 56 | 122951 | 49.386 ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 4.91 | 97 | 101718 | 49.019 ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.13 | 75 | 95697 | 50.337 ug/l | 98 |
| 37) Ethyl Acetate | 4.38 | 43 | 104253 | 49.959 ug/l | 99 |
| 38) Carbon Tetrachloride | 5.13 | 117 | 81883 | 51.641 ug/l | 98 |

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Quant Time: Jan 05 04:00:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Fri Jan 04 02:22:53 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 39) Methylcyclohexane | 6.41 | 83 | 117357 | 50.213 ug/l | 98 |
| 40) Benzene | 5.39 | 78 | 301492 | 50.841 ug/l | 100 |
| 41) Methacrylonitrile | 4.54 | 41 | 58468 | 52.343 ug/l | 98 |
| 42) 1,2-Dichloroethane | 5.40 | 62 | 94555 | 53.063 ug/l | 99 |
| 43) Isopropyl Acetate | 5.55 | 43 | 164898 | 51.513 ug/l | 99 |
| 44) Trichloroethene | 6.18 | 130 | 72425 | 49.292 ug/l | 100 |
| 45) 1,2-Dichloropropane | 6.43 | 63 | 81499 | 52.042 ug/l | 99 |
| 46) Dibromomethane | 6.56 | 93 | 51369 | 51.313 ug/l | 99 |
| 47) Bromodichloromethane | 6.75 | 83 | 96142 | 52.161 ug/l | 98 |
| 48) Methyl methacrylate | 6.62 | 41 | 83784 | 53.752 ug/l | 99 |
| 49) 1,4-Dioxane | 6.61 | 88 | 36741 | 994.644 ug/l | 97 |
| 51) 4-Methyl-2-Pentanone | 7.46 | 43 | 552914 | 253.800 ug/l | 100 |
| 52) Toluene | 7.63 | 92 | 183556 | 50.845 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 7.88 | 75 | 111801 | 50.494 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 7.27 | 75 | 121479 | 50.775 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 8.06 | 97 | 76266 | 52.734 ug/l | 99 |
| 56) Ethyl methacrylate | 8.02 | 69 | 112617 | 50.544 ug/l | 97 |
| 57) 1,3-Dichloropropane | 8.24 | 76 | 127632 | 51.575 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 7.13 | 63 | 261412 | 266.780 ug/l | 99 |
| 59) 2-Hexanone | 8.36 | 43 | 438962 | 256.691 ug/l | 99 |
| 60) Dibromochloromethane | 8.48 | 129 | 72719 | 50.752 ug/l | 100 |
| 61) 1,2-Dibromoethane | 8.58 | 107 | 79219 | 50.505 ug/l | 98 |
| 64) Tetrachloroethene | 8.22 | 164 | 65646 | 50.711 ug/l | 96 |
| 65) Chlorobenzene | 9.12 | 112 | 199028 | 49.409 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 9.21 | 131 | 66459 | 50.840 ug/l | 99 |
| 67) Ethyl Benzene | 9.25 | 91 | 347388 | 51.654 ug/l | 98 |
| 68) m/p-Xylenes | 9.37 | 106 | 269707 | 103.214 ug/l | 99 |
| 69) o-Xylene | 9.78 | 106 | 130233 | 51.725 ug/l | 99 |
| 70) Styrene | 9.79 | 104 | 217074 | 52.592 ug/l | 99 |
| 71) Bromoform | 9.95 | 173 | 57972 | 49.806 ug/l # | 97 |
| 73) Isopropylbenzene | 10.16 | 105 | 336743 | 49.312 ug/l | 100 |
| 74) N-amyl acetate | 10.01 | 43 | 149227 | 50.712 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 10.46 | 83 | 129782 | 47.420 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 10.49 | 75 | 110973m | 49.092 ug/l | |
| 77) Bromobenzene | 10.45 | 156 | 85699 | 48.157 ug/l | 99 |
| 78) n-propylbenzene | 10.58 | 91 | 411214 | 51.098 ug/l | 100 |
| 79) 2-Chlorotoluene | 10.66 | 91 | 241262 | 49.421 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 10.77 | 105 | 287355 | 50.390 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-buten | 10.51 | 75 | 38511m | 43.938 ug/l | |
| 82) 4-Chlorotoluene | 10.77 | 91 | 277838 | 49.634 ug/l | 99 |
| 83) tert-Butylbenzene | 11.10 | 119 | 276151 | 49.132 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.15 | 105 | 295193 | 51.848 ug/l | 99 |
| 85) sec-Butylbenzene | 11.32 | 105 | 345230 | 50.787 ug/l | 99 |
| 86) p-Isopropyltoluene | 11.47 | 119 | 295925 | 51.089 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 11.41 | 146 | 159444 | 48.847 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 11.50 | 146 | 162337 | 48.181 ug/l | 98 |
| 89) n-Butylbenzene | 11.89 | 91 | 274205 | 53.039 ug/l | 99 |
| 90) Hexachloroethane | 12.14 | 117 | 46688 | 47.913 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 11.88 | 146 | 159231 | 48.432 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropropan | 12.66 | 75 | 24915 | 47.331 ug/l | 96 |

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Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 93) 1,2,4-Trichlorobenzene | 13.50 | 180 | 104514 | 49.799 | ug/l | 100 |
| 94) Hexachlorobutadiene | 13.69 | 225 | 48031 | 50.035 | ug/l | 99 |
| 95) Naphthalene | 13.74 | 128 | 339000 | 47.483 | ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.99 | 180 | 106826 | 49.453 | ug/l | 99 |

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

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