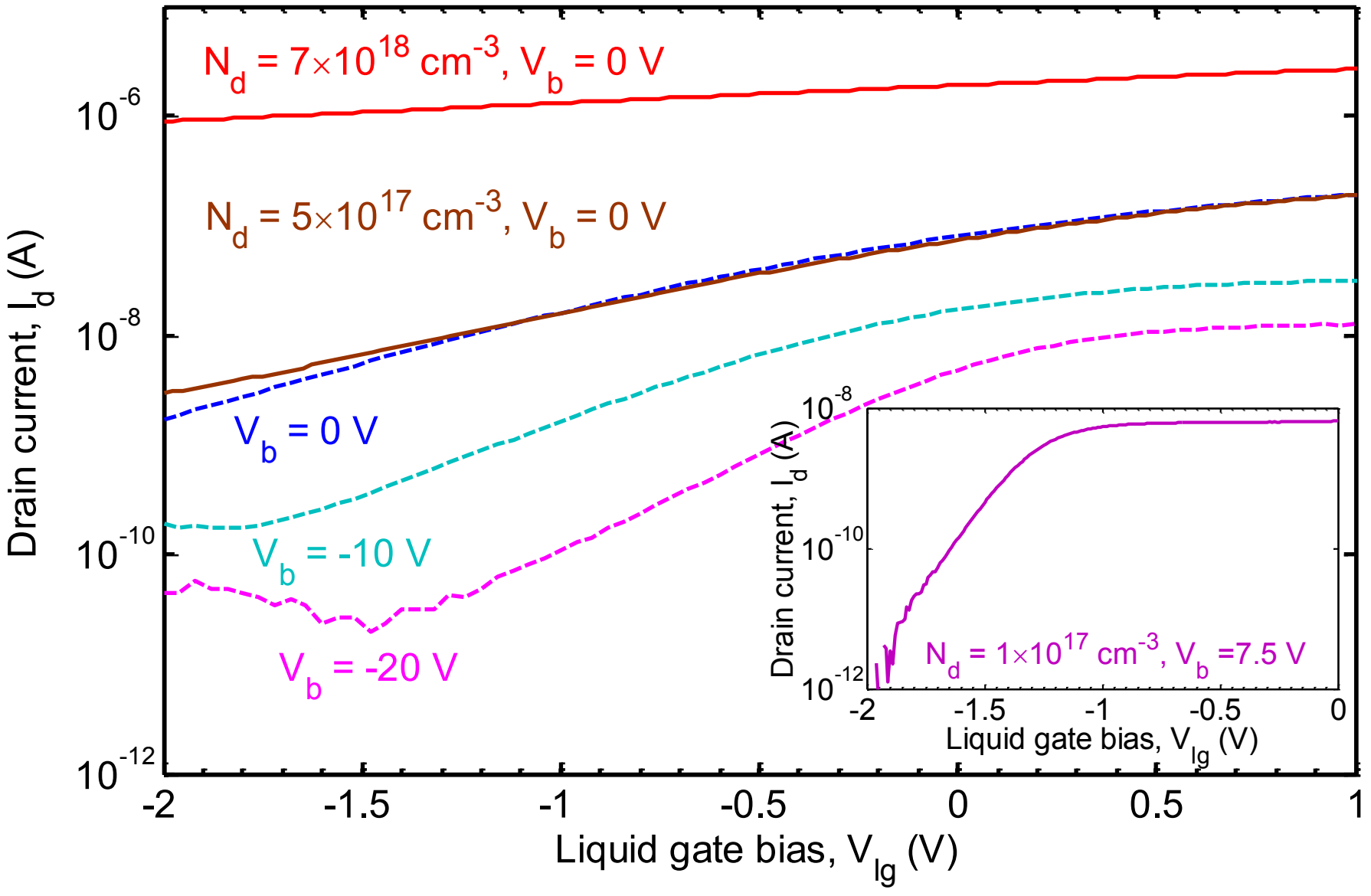
$N_d = 7\times10^{18}$ cm^{-3}, $V_b = 0$ V
$N_d = 5\times10^{17}$ cm^{-3}, $V_b = 0$ V
$V_b = 0$ V
$V_b = -10$ V
$V_b = -20$ V
Drain current, I_d (A)
10^{-6}
10^{-8}
10^{-10}
10^{-12}
-2
-1.5
-1
-0.5
0
0.5
1
Liquid gate bias, V_{lg} (V)
$N_d = 1\times10^{17}$ cm^{-3}, $V_b = 7.5$ V
Drain current, I_d (A)
10^{-8}
10^{-10}
10^{-12}
-2
-1.5
-1
-0.5
0
Liquid gate bias, V_{lg} (V)