

Fig. 1 Measurement setup.

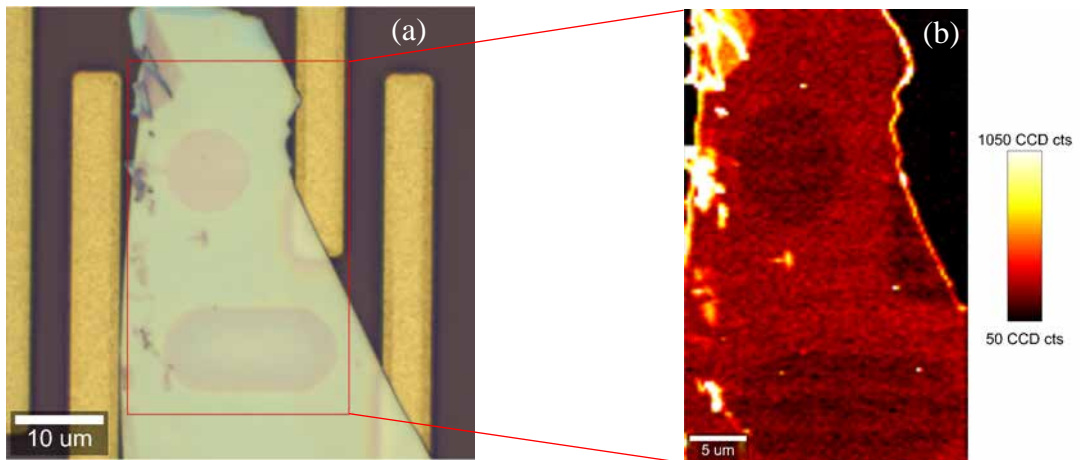


Fig. 2 (a) Optical image of the device. (b) Raman mapping of red-boxed area in (a) .

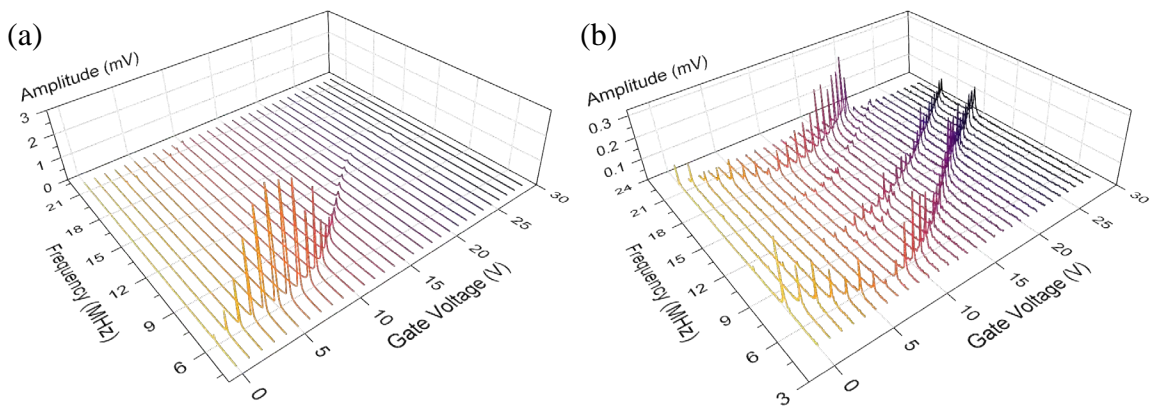


Fig. 3 3D color plot of the resonant response of the device with gate voltage increase (a) and gate voltage decrease (b) , respectively