



Supplementary figure 1. In vivo measured electrical characteristics of a graphene transistors array with 16 channels measured at 50 mV drain-to-source voltage for three different experiments. Top: Current (I_{ds})-voltage characteristics for each of the gFETs in the array in each of the three experiments. Bottom: Calculated transconductance (GM: dI_{ds}/dV_{gs}) for each of the gFETs in the array in each of the three experiments. Black vertical lines denotes the used V_{gs} bias point for that experiment.