

Supplementary Information

Synthesis of Metallic Mixed 3R and 2H Nb_{1+x}S₂ Nanoflakes by Chemical Vapor Deposition

Abdul Rahman Mohamad,^{*a} Azrul Azlan Hamzah,^a Jieun Yang,^b Yan Wang,^b Ibrahim Bozkurt,^c Hyeon Suk Shin,^d Hu Young Jeong,^e and Manish Chhowalla^{*b}

^aInstitute of Microengineering and Nanoelectronics, National University of Malaysia, 43600 UKM Bangi, Malaysia.

^bDept. of Materials Science and Metallurgy, University of Cambridge, 27 Charles Babbage Road, Cambridge CB3 0FS, UK.

^cMaterials Science and Engineering, Rutgers University, 607 Taylor Road, Piscataway, New Jersey 08854, USA.

^dDept. of Chemistry and Dept. of Energy Engineering, Low-Dimensional Carbon Materials Center, Ulsan National Institute of Science and Technology (UNIST), UNIST-gil 50, Ulsan 44919, Rep. of Korea.

^eUNIST Central Research Facilities (UCRF) & School of Materials Science & Engineering, UNIST, Ulsan 689-798, Rep. of Korea

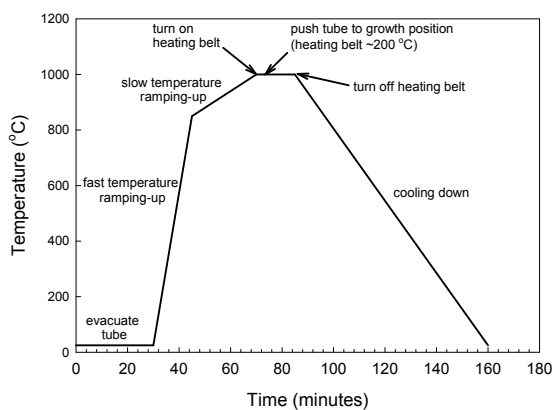


Figure S1. Furnace temperature profile versus time

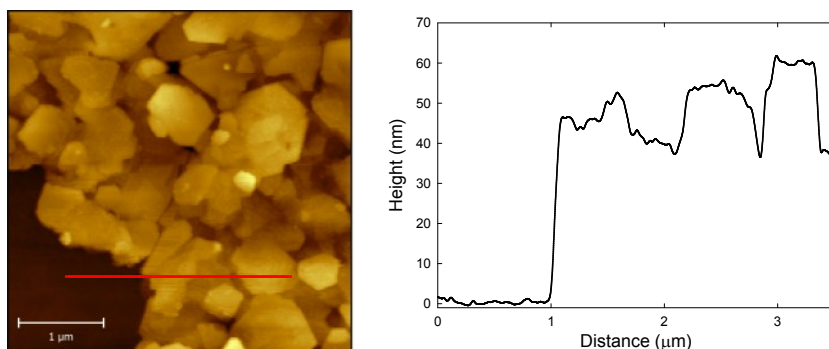


Figure S2. Cross-sectional AFM image showing the thickness of the Nb_{1.3}S₂ film is ~50 nm (red line)