See: https://devzone.nordicsemi.com/blogs/943/measuring-lithium-battery-voltage-with-nrf52/

Maximum voltage: 4.2 V * (2 M/(0.8 M+2 M)) = 3 V
Minimum voltage: 2.7 V * (2 M/(0.8 M+2 M)) = 1.93 V
ADC value at 4.2 V - 12 bit setup: 3 V * (1/5) / 0.6 V * 4095 = 4095
ADC value at 2.7 V - 12 bit setup: 1.93 V * (1/5) / 0.6 V * 4095 = 2634
Usable ADC resolution - 12 bit setup: 4095 - 2634 = 1461