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(54) **WIRELESS COMMUNICATION DEVICE
AND OPERATING METHOD OF THE SAME**

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(57) **ABSTRACT**

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A first wireless communication apparatus includes a transceiver including a direct current (DC) component filter configured to remove a DC component of a first data signal received from a second wireless communication apparatus via a channel and output a corresponding second data signal, and a measurement circuit configured to determine a target subcarrier set based on a carrier frequency offset with respect to the second data signal, and measure noise and a signal-to-noise ratio (SNR) of the second data signal using the target subcarrier set.

