DIGITAL VIDEO BROADCASTING - CABLE SYSTEM AND METHOD FOR PROCESSING RESERVED TONE

ABSTRACT

A Digital Video Broadcasting-Cable (DVB-C) system and a processing method for reserved tones are provided. A transmitter determines a position of broadcast data and a position of reserved tones in a frame and sends a broadcast signal into which the broadcast data and the reserved tones are inserted. A receiver determines the position of reserved tones in a received broadcast signal and extracts broadcast data from the broadcast signal in consideration of the determined position of the reserved tones. The system and method may compensate for the peak power of broadcast data to be transmitted through a multi-channel bundle, by inserting reserved tones into the whole multi-channel bundle with combined channel bands. This may reduce the Peak to Average Power Ratio (PAPR) of broadcast signals in the DVB-C system and thereby improve the performance of the DVB-C system while still adopting Orthogonal Frequency Division Multiplexing (OFDM).

Fig. 1