



Letter of Declaration of Channel Prioritization for Very Low Power Device (VLP) Operation

2025-05-06

Federal Communications Commission Date
7435 Oakland Mills Road
Columbia MD 21046

FCC ID: XMR2024AF65E

To whom it may concern:

We, [Quectel Wireless Solutions Company Limited], attest that this device, with FCC identifier [XMR2024AF65E] complies with the 47 CFR 15.407(d)(9) requirement. The device prioritizes operations on frequencies above 6105 MHz prior to operating on frequencies between 5925 MHz and 6105 MHz. The VLP channel prioritization is implemented without any change from Qualcomm's default configuration setting and the parameter will not be accessible by end-user.

For selecting the operating channel, a score is computed in the channel evaluation phase by the device. The score is computed by utilizing various metrics such as amount of traffic in the channel (# of packet detected during evaluation period), number of Wi-Fi networks detected, and signal strength (RSSI) of detected Wi-Fi networks. After channel evaluation phase, the channel with the lowest score is selected for operation. In the case of VLP operation, the calculated score is increased by a non-zero factor for channels with frequency below 6105 MHz. This increase in score de-prioritizes channels with frequencies below 6105 MHz.

Prioritization described above is applied for Soft AP (SAP) and Peer-to-peer Group Owner channel selection. When evaluation phase is not utilized and channel selection is done randomly, channels below 6105 MHz are removed from the list of available channels and never used.

For a client device connecting to a peer-peer connection or VLP hotspot where the channel has been selected by the AP or the initiating peer device with channel prioritization, the device is compliant with the prioritization requirement since the original device prioritized frequencies above 6105 MHz. This is consistent with Wi-Fi defined behavior.

Respectfully submitted,

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