

LTE B30 Experiment Description

1 Introduction

Qualcomm's technologies powered the smartphone revolution and connected billions of people. We pioneered 3G and 4G – and now we are leading the way to 5G and a new era of intelligent, connected devices. Our products are revolutionizing industries, including automotive, computing, IoT, healthcare and data center, and are allowing millions of devices to connect with each other in ways never before imagined. Qualcomm Incorporated includes our licensing business, QTL, and the vast majority of our patent portfolio. Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, all of our engineering, research and development functions, and all of our products and services businesses, including, our QCT semiconductor business.

Qualcomm is requesting an experimental license requests authorization to test development user equipment (less than 100 active units) anywhere in the United States for the purposes of technology development and demonstration of LTE technologies on mobile devices. This experimental license request is limited to the testing of mobile device transmitters in the WCS band, also known as 3GPP Band 30 (2305-2315 uplink and 2350-2360 MHz downlink). Base station, or downlink operation, is not requested.

Qualcomm currently has two similar flexible experimental licenses for the cellular band (call sign KM2XJY) and PCS band (call sign KK2XBJ) where testing is allowed anywhere in the United States.

2 Experiment Description

Demonstrations will occur at any location within the United States in support of, but not limited to, government agencies, private companies, and tradeshow. Testing of mobile device will occur anywhere in the United State where the mobile device is connected to a commercial B30 LTE network.

3 Transmitter Information

Table 1 summarizes the location, frequencies, and transmit information requested in this license application.

Table 1 Site, Frequency, Transmit Power Information

Type	Frequency (MHz)	Power (dBm EIRP)	Power (W EIRP)	Power (W ERP)	Bandwidth (MHz)	Emissions Designator	Location
Mobile	2305-2315	25	0.32	0.19	10	10M00W7W (LTE)	Nationwide