

900 MHz Experimental License Application

1 Company Introduction

Qualcomm invents breakthrough technologies that transform how the world connects, computes, and communicates. When we connected the phone to the Internet, the mobile revolution was born. Today, our inventions are the foundation for life-changing products, experiences, and industries. As we lead the world to 5G, we envision this next big change in cellular technology spurring a new era of intelligent, connected devices and enabling new opportunities in connected cars, remote delivery of health care services, and smart cities, smart homes, and wearables. 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, the QCT semiconductor business. For more information on our company, visit Qualcomm’s [website](#), [OnQ blog](#), [Twitter](#) and [Facebook](#) pages.

2 Experiment Overview

Qualcomm plans to conduct research in the 900 MHz frequency band unlicensed band that requires channel sounding measurements in different RF environments. The test setup consists of a single constant waveform generator and a single receiving device. Testing will occur intermittently over several hours at a time during the experimental testing period. The expectation is that testing will occur 3 to 5 days a month during the term of the experimental license.

All testing will be performed within Qualcomm’s campus, inside Qualcomm’s own buildings or directly outside a Qualcomm building on our corporate campus in San Diego. No testing will occur outside of Qualcomm’s campus.

3 Transmitter Information

Testing will be conducted in the immediate vicinity of the area described in Table 1 within the parameters defined in Table 2. Only one of the two frequencies will be used at any one time. The frequencies have been selected at the band edge of the unlicensed 902-928 MHz unlicensed frequency band to avoid any potential interference to unlicensed devices in the band that may be operating on Qualcomm’s San Diego campus.

Table 1 Experiment Area and Antenna Parameters

County	Latitude (center)	Longitude (center)	Antenna 3dB Beam width
San Diego, California	32° 53' 46" N	117° 11' 43" W	Omni

Table 2 Transmitter Frequency/Power information

Type	Frequency (GHz)	Peak EIRP			W ERP	Emission designator
		dBm	dBW	W EIRP		
CW OOK	902.005 927.995	20	-10	0.100	0.60	1H00P0N

4 Interference Coordination

Immediate requests to Qualcomm to cease all transmission under this experimental operation should be emailed to qualcomm.transmitter.shutdown@qualcomm.com. Alternatively, a shutdown request can be communicated to John Forrester of Qualcomm who can be reached at 858-845-7428 and via email at jforrest@qti.qualcomm.com.