

QUALCOMM 3560-3650 GHz MHz Experiment Proposal

1 Introduction

Qualcomm Incorporated (NASDAQ:QCOM - News) is the world leader in 3G and next-generation mobile technologies. For 25 years, Qualcomm ideas and inventions have driven the evolution of wireless communications, connecting people more closely to information, entertainment and each other. Today, Qualcomm technologies are powering the convergence of mobile communications and consumer electronics, making wireless devices and services more personal, affordable and accessible to people everywhere. For more information, please visit www.qualcomm.com.

2 Experiment Description

Qualcomm is conducting testing of LTE systems operating in the frequency range of 3560-3650 MHz. The testing consists of up to 5 small cell base stations located inside the geographic region described in Section 2. Up to 10 mobile devices will operate in the areas of the small cell equipment. All equipment is prototype hardware controlled by Qualcomm or authorized individuals.

The intent is to operate the LTE downlink 24 hours per day 7 days per week.

3 Interference Coordination

Immediate requests for Qualcomm to stop transmission should be emailed to 3.5GHz.trial.shutdown@qualcomm.com. Alternatively, a shutdown requested can be submitted through John Forrester who can be contacted at 858-845-7428 or jforrest@qti.qualcomm.com

4 Transmitter Information

A single downlink RF channel with a maximum transmission bandwidth of 20 MHz will be operated within the requested frequency range at any one time.

The maximum EIRP for small cell and fixed sites is listed in Table 1. The fixed sites and small cells also support MIMO and the defined power is with respect to each antenna element.

Table 2 defines the deployment radiuses where all fixed and small cell sites will be located within during the testing.

Table 1 Transmitter Information

Type	Transmit Frequency (MHz)	EIRP (dBm)	EIRP (W)	ERP (W)	Maximum Transmission Bandwidth (MHz)	Emissions Designator
Small cell	3560-3650	33	2	1.2	20	20M00W7W
Fixed	3560-3650	33	2	1.2	20	20M00W7W

Table 2 Fixed and Small Cell Transmitter Deployment Radius

Location Description	Location #	Operational Center Point		Fixed Site Location and Mobile Operational Radius	
		Lat	Long	Miles	km
1717 Arch Street Philadelphia, PA (Philadelphia county)	1	39 57 19 N	75 10 9 W	1	2
Jacksonville Rd Burlington, NJ (Burlington county)	2	40 3 47 N	74 49 39 W	1	2