

A. Applicant's Qualifications

QUALCOMM Incorporated (www.qualcomm.com) is a leader in developing and delivering innovative digital wireless communications products and services based on CDMA and other advanced technologies. Headquartered in San Diego, Calif., QUALCOMM is included in the S&P 500 Index and is a 2006 FORTUNE 500® company traded on The Nasdaq Stock Market® under the ticker symbol QCOM.

B. Introduction

This experimental license will replace STA 0536-EX-ST-2006 that currently authorizes transmission on the requested frequencies.

This updated experimental proposal adds a 4th site that is almost exactly the same as the original Building E site in Table 2. The difference is that the azimuth is 0 degrees instead of 300 degrees. Only one orientation will be used at any one time. The frequencies and power remain the same.

C. Attachment Description

1. Experiment Description
2. Interference analysis parameters
3. 3rd party Interference analysis

D. Experimentation Proposal

QUALCOMM is expanding its technology with the emergence of new applications for wireless technology in the 700 MHz band. QUALCOMM has successfully developing this new FLO (Forward Link Only) technology while operating under experimental license call sign WD2XLG. This new STA application will support expanded development of the system, and includes information for the following:

- 4 frequencies for testing in San Diego
- 3 fixed locations for testing

For this testing, the mobile receiver units operate in a receive mode only. The only transmitters associated with this license application are located at the fixed sites detailed below.

The test transmitters deployed have a maximum of 8MHz bandwidth. The proposed spectrum to support this testing is allocated to licensed Broadcast TV stations that are divided into 6 MHz channels.

Since the 8MHz BW is greater than the 6 MHz TV channels allocated by the FCC, Qualcomm has identified four frequencies for use that will each overlap two TV channels. Ch 52 is a 6 MHz bandwidth system only. Qualcomm has selected these frequencies and power levels after performing an interference analysis report for each effected TV channel. When the Qualcomm system is deployed, the test transmitter will be centered in the middle of two adjacent TV channels as shown in Figure 1.

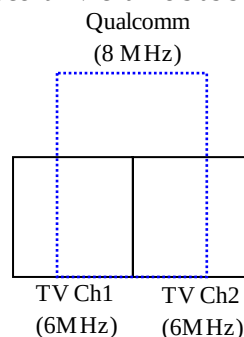


Figure 1: Frequency Overlap

The interference analysis was performed using the requested peak ERP centered on each TV channel overlapped by the Qualcomm MediaFlo transmitter to present the worst case in-band interference possibility. The four frequencies requested in this application were selected when two adjacent TV channels each resulted in adding 0.00% interference caused to TV stations by the Qualcomm transmitter centered on each channel.

Below, Table 1 summarizes the Qualcomm transmit frequencies, locations used, and affected TV stations. Table 2 summarizes the fixed transmitter locations, antenna configurations, and ERP.

Table 1: Test Frequencies and Locations

Affected TV Channels	TV Channel Frequency Range	Qualcomm Center Frequency	Max BW (MHz)	Qualcomm Low/High Frequencies	Sites
44	650-656	650	8	650-656 MHz	Building X
52	698-704	701	6	698-704 MHz	Building A
61 62	752-758 758-764	758	8	754 - 762 MHz	Building X
63 64	764-770 770-776	770	8	766 - 774 MHz	Building A Building E Building X

Table 2: Transmitter Parameters

Location Name	Lat (N)	Long (W)	Address	Azimuth	RC-AMSL (m)	Down Tilt (degrees)	Antenna Make	Conducted Power (W)	Antenna Gain (dBd)	ERP (W)
Building A	32 53 50.4	117 13 7.5	10555 Sorrento Valley Rd, CA 92121	0	25.28	0	Omni	19.01	6.24	80
Building E	32 52 47.4	117 12 9	4875 Eastgate Mall, San Diego, CA 92121	300	132.63	5	CL-1469B	12.69	8	80.1
Building E	32 52 47.4	117 12 9	4875 Eastgate Mall, San Diego, CA 92121	0	132.63	5	CL-1469B	12.69	8	80.1
Building X	32 54 18.5	117 11 13.2	10309 Pacific Center Ct, San Diego, CA 92121	235	116.24	0	CL-1469B	23.81	8	150.2

E. Frequency Coordination

Prior to activating the experimental transmitter, QUALCOMM will coordinate with SBE. QUALCOMM will also coordinate with any TV stations potentially affected by the experimentation.