

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 2005 FORTUNE 500® company traded on The Nasdaq Stock Market® under the ticker symbol QCOM.

B. 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:

- 3 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 will have an 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 three frequencies for use that will each overlap two TV channels. Qualcomm has selected these frequencies after performing an interference analysis reports 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.

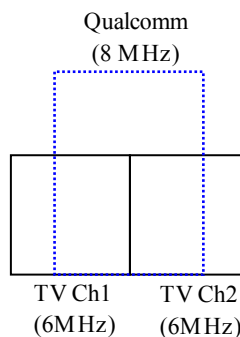


Figure 1: Frequency Overlap

The interference analysis was performed using the requested peak 200W ERP for each TV channel overlapped by the Qualcomm MediaFlo transmitter to present the worst case in-band interference possibility. The three frequencies requested in this application were selected by identifying two adjacent TV Channels that each resulted in 0.00% interference caused by the Qualcomm transmitter centered on each channel.

Table 1 summarizes the fixed transmitter locations and antenna configurations. Table 2 summarizes the Qualcomm transmit frequency, power, and affected TV stations.

Table 1: Test Locations

Site Location	Lat	Long	Azimuth	RC- AMSL (m)	Antenna Make	Antenna Gain (dBd)	ERP (W)
Building AR	32 54 52.7	117 13 33.8	120	47.24	CL-1469B	8	200
Building E	32 52 46.5	117 12 8.4	25	127.14	CL-1469B	8	200
Building X	32 54 23	117 11 13	240	120.4	CL-1469B	8	200

Table 2: Test Locations vs. Frequency

Site Location	ERP (W)	Antenna Gain (dBd)	Conducted Power (W)	Affected TV Channels	TV Channel Frequency Range	Qualcomm Center Frequency	Max BW (MHz)	Qualcomm Low/High Frequencies
Building AR	200	8	31.70	31	572-578	578	8	574 - 582 MHz
Building X				32	578-584			
Building AR	200	8	31.70	44	650-656	656	8	652 - 660 MHz
Building E				45	659-662			
Building X								
Building AR	200	8	31.70	49	680-686	686	8	682 - 690 MHz
Building X				50	686-692			

C. Coordination with Society of Broadcast Engineers, Inc. (SBE)

Prior to activating the experimental transmitter, QUALCOMM will coordinate with SBE.