

QUALCOMM DSRC (5850-5925 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.

Qualcomm will be completing evaluation and testing of 802.11P DSRC devices located inside moving vehicles. The testing will be completed in different RF environments within a 32km radius of a Qualcomm office located in Bridgewater NJ and Manhattan New York. Qualcomm will also be evaluating a new proprietary OFDM technology operating within the same DRSC channel bandwidths.

2 Transmitter Information

Up to 20 mobile units will be tested around the locations described in Table 2. The maximum output power for mobile units a is listed in Table 1.

Mobile units will consist of commercial DSRC devices, development 802.11p devices, and proprietary Qualcomm OFDM technology operating within the same transmission bandwidth.

Table 1 Transmitter Information

Type	Frequency (MHz)	Power (dBm EIRP)	Power (W EIRP)	Power (W ERP)	Bandwidth (MHz)	Emissions Designator:
Mobile	5850-5925	24	0.251	0.152	10	10M0W7W

Table 2 Transmitter Site Information

Type	Address	County	Lat	Long	Radius (miles)	Radius (km)	Antenna Type
Mobile	500 Somerset Corporate Blvd Bridgewater, NJ 08807	Somerset County	40-35-6 N	74-37-26W	20	32.2	Omni
Mobile	New York, NY	New York	40-45-4 N	73-59-26	20	32.2	Omni