

1695-1710 MHz Special Temporary Authorization ("STA") Application

1 Introduction

Qualcomm's technologies powered the smartphone revolution and connected billions of people. We pioneered 3G and 4G – and now we are leading the way to 5G and a new era of intelligent, connected devices. Our products are revolutionizing industries, including automotive, computing, IoT, healthcare and data center, and are allowing millions of devices to connect with each other in ways never before imagined. 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, our QCT semiconductor business. For more information, visit Qualcomm's [website](#), [OnQ blog](#), [Twitter](#) and [Facebook](#) pages.

Qualcomm would like to conduct 5G testing in San Diego, CA, utilizing the 3GPP Band n70 frequency range 1695-1710 MHz. Qualcomm respectfully requests the Commission to grant an Special Temporary Authorization to field test in this range.

2 Transmitter Information

Testing is expected to occur constantly for up to 12 months. The network will consist of 3 base stations and 200 mobile devices transmitting on the range of 1695-1710 MHz at the location defined in Table 2.

Table 1 Transmitter Information

Type	Frequency (MHz)	Peak EIRP			W ERP	Emission BW
		dBm	dBW	W EIRP		
Mobile	1695-1710	27	-3.0	0.5	0.5	5M00W7W
Fixed	1695-1710	71	41	13,700	13,700	5M00W7W



Table 2 Base Transmitter Site Information

Site #	County	Lat	Long	Azimuth	Elevation	Antenna Type
1 (AV)	San Diego	32° 54' 9.1"	-117° 11' 32.21"	Omni (3 sector site)	degrees below horizon	Omni
2 (QRC)	San Diego	32° 53' 42.93"	-117° 11' 41.99"	Omni (3 sector site)	degrees below horizon	Omni
3 (Q)	San Diego	32° 54' 8.59"	-117° 12' 2.82"	Omni (3 sector site)	degrees below horizon	Omni

3 Point of Contact to Stop Transmission

Immediate requests for Qualcomm to stop transmission should be emailed to qualcomm.transmitter.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