

1755-1760 MHz and 2155-2160 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 is conducting a 5G test in Yuma, Arizona, utilizing the 3GPP Band n66 frequency range 1755-1760 (Uplink) MHz and 2155-2160 MHz (Downlink). Qualcomm respectfully requests the Commission to grant a STA to enable this field testing.

2 Transmitter Information

Testing is temporary and expected to occur constantly for up to six months. The network will consist of 5 base station sites transmitting on the range of 2155-2160 MHz at the locations defined in Table 2. Mobile devices will transmit on the uplink frequency range of 1755-1760 MHz at any location within the base station coverage area. All base station sites are 3-sector deployments providing 360 degrees of coverage.

Table 1 Transmitter Information

Type	Frequency (MHz)	Peak EIRP			W ERP	Emission BW
		dBm	dBW	W EIRP		
Mobile	1755-1760	30	0	1	0.61	5M00W7W
Fixed	2155-2160	69.52	39.52	8954	5432	5M00W7W



Table 2 Base Transmitter Site Information

Site #	County	Lat	Long	Azimuth	Elevation	Antenna Type
1	Yuma	32°40'57.10"N	114°34'5.80"W	Omni (3 sector site)	degrees below horizon	Omni
2	Yuma	32°41'24.60"N	114°36'30.00"W			Omni
3	Yuma	32°41'7.20"N	114°40'6.50"W			Omni
4	Yuma	32°42'42.20"N	114°39'0.62"W			Omni
5	Yuma	32°43'18.20"N	114°37'18.80"W			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