

Experimental Description

Applicant: Broadcom Corporation

File Number: 0350-EX-CN-2020

The proposed experimental license would allow Broadcom to develop, evaluate and demonstrate the performance and other operational characteristics of 6 GHz Wi-Fi equipment in real-world settings. This application is primarily a continuation of Broadcom's existing Special Temporary Authorization,¹ and will allow Broadcom to continue to test the practical capabilities of Wi-Fi equipment in the 6 GHz band, and this knowledge can be used to make informed decisions about the need for further testing and research in an area of developing technological and regulatory standards.

All testing will be conducted on channels that Broadcom verifies are free of nearby licensed incumbents based on information provided in relevant FCC databases, such as ULS, and will therefore not cause harmful interference to licensed users. Additionally, all operations will be restricted to indoor areas. Specifically, the testing will take place at indoor areas in San Jose, CA; San Francisco, CA; Irvine, CA; San Diego, CA; Redwood City, CA; and Washington, DC. The transmitters to be used in the experiment are experimental and manufactured by Broadcom. All transmissions will be limited to 1-Watt conducted power and 1-Watt EIRP, will not use directional antennas, and all testing is either indoors, or the antennas will not extend more than 6 meters above ground. Finally, the experimental operations are expected throughout the 5925-7125 MHz band.

¹ Broadcom Corporation, Experimental Licensing System, File No. 2105-EX-ST-2019.