

Supplement to Experimental STA Application  
Description of Experiment  
File Number 0458-EX-ST-2024

Brightspeed Broadband LLC (“Brightspeed”) is a high-speed Internet service provider offering reliable, affordable internet to rural and suburban communities across 20 states. Brightspeed seeks the subject STA to allow for unlicensed operation for testing to evaluate and verify a Wifi device during the pendency of an application for equipment authorization. Brightspeed intends to conduct a limited market trial to evaluate a WiFi device in real-world conditions and to assess the market potential for its wireless Internet access product. The equipment to be tested is a Wi-Fi base station with an internal antenna. Specifically, the testing is designed to assess and validate the product’s real-time performance and functionality and overall customer acceptance at locations in several states. The device will be tested for its connectivity, service activation, speed, and overall performance. Brightspeed’s objective is to evaluate market potential and customer acceptance in various markets to assess the suitability for product release.

The device will be operated indoors and comply with the FCC’s Part 15 rules. The device will be tested across four frequency bands to evaluate networking/protocol algorithms and verify performance and functionality.

Real world performance evaluation and testing will provide Brightspeed with insight on the device to determine its suitability for product release. Such real-world performance evaluation will also allow Brightspeed to understand market acceptability for the product and assist Brightspeed with bringing its device to market quickly.