
70/80/90 GHz Experimental Request

Antenna Beamwidth < 43 dBi

Crown Castle is testing close range 70/80/90 GHz point to point links of various manufacturer equipment for fronthaul and backhaul connectivity.

Due to the challenges with twist and sway at close range with small aperture antennas, and deployment challenges supporting 5G on small node pole structures, Crown Castle requests permission to test wider aperture, lower gain antennas at our private test facility.

85 FR 40168 "The Commission proposes to increase the maximum beamwidth by 3 dB points, from 1.2 degrees to 2.2 degrees. Additionally, the Commission proposes to reduce minimum antenna gain from 43 dBi to 38 dBi and to retain the proportional EIRP reduction requirement."

<https://www.federalregister.gov/documents/2020/07/06/2020-14064/modernizing-and-expanding-access-to-the-708090-ghz-bands>