

Communication Technologies, Inc. (COMTek), a provider of fixed wireless services for the U. S. Virgin Islands plans to develop and deploy systems for the delivery of efficient and affordable high-speed Internet access to home and businesses utilizing radio spectrum in the 2.4 GHz – 2483.5 GHz band, 5.47 – 5.725 GHz band and the 5.725 to 5.850 GHz band. COMTek hereby requests and authorization to conduct system performance trials in the Fredericksted, St. Croix, USVI, using 5.4 to 5.725 GHz, to determine the relationship between theoretical predictions and actual system performance of new technology under typical USVI propagation conditions.

The objective of these proposed system trials is to determine the feasibility and optimum equipment configuration requirements for use of this band to deploy high-speed wireless data services to installations within the Fredericksted area using Time Division Duplex (TDD) technology.

COMTek proposes to use 20 MHz wide channels. Base station and remote equipment for these trials will be the Motorola Canopy Advantage Access Points (5450AP) and Motorola Canopy Advantage Subscriber Modules (5450SM). This equipment has been configured for use in the 5.47 – 5.725 GHz band. All base access points and remote devices will be professionally installed and will operate in compliance with Part 15.

While this equipment meets Part 15 requirements, a specific goal of these tests is to monitor for interference in the adjacent frequency bands. From these tests, COMTek can determine if additional filtering is required to avoid adjacent channel interference. Should interference to adjacent channel users occur, COMTek will take immediate action, including discontinuance of operation, to eliminate the interference.

The data obtained from these tests will contribute to further development and utilization of unlicensed operations.

For further information regarding the information submitted herein, please contact Mr. Milan Vlajnic at COMTek on 703-961-2109.