

From: David Jones

To: Doug Young

Date: January 17, 2020

Subject: Request for Info - File # 0052-EX-ST-2020

Message:

Applicant: Shared Spectrum Company
File Number: 0052-EX-ST-2020
Correspondence Reference Number: 52831
Date of Original Email: 01/13/2020

The radio transmitters that we are using for our project can operate over a frequency range of 410 - 480 MHz. Depending on the data rate, channel bandwidth can be from 60 kHz to 400 kHz. For our testing and experimentation, the lowest data rate with a channel bandwidth of 60 kHz could suffice. Additionally, we could operate anywhere in the frequency range usable by the device. The 450 - 470 Mhz range was originally chosen with the expectation that there may be more frequencies available in that range rather than in the 410 - 450 MHz range which are federal government and amateur radio allocations. Additionally from 470 - 480 MHz includes high power TV transmitters in some areas and may not be usable at the locations where testing will take place.

The reason for the request for the use of a wide range of frequencies was to have a choice of usable frequencies at the different test locations to avoid interference.

Ultimately, an assignment of multiple frequencies (~10) in the range of 410 - 480 MHz with a channel bandwidth of 60 KHz would satisfy our testing requirements