

MURS Radio Distance Proxy Test



Date: Friday 10/16/2020
Frequency: 146.520
Stations: KM4YGI KX4Z
Power: 1 watt
Radios: Baofeng UV-5R, one standard antenna, one approx 14" antennas
Store: Ingles Grocery Store, Black Mountain, NC

NOTE: MURS allows 2 watts, and the frequencies are in the 151 MHz range.

Nancy stationed near BACK of store near refrigerated goods, to simulate being inside a church building with a lot of material between communicator and outside wall.

LOC#1: Near the far side of Ingles gas pumps, approx 240 yards
LOC#2: Beside BP Gas Station, slightly higher in altitude, 250 yards

At each location, first test with communicator #2 (me) inside the vehicle and then repeated outside vehicle. Criterion was “easily intelligible speech”

RESULTS:

	INSIDE VEHICLE	OUTSIDE VEHICLE
Loc #1 Gas Pumps	Slightly scratchy, easily intelligible	Slightly scratchy, easily intelligible
Loc #2 BP Gas Station	Slightly scratchy, easily intelligible	Clear

Possible Models:

BTECH, low and 2W modes, able to watch 2 frequencies. \$60

<https://www.amazon.com/BTECH-MURS-V1-Manufacturing-Personal-Business/dp/B075VBP9YG>

One review of the cheaper Retevis brand found the output anemic at only 0.3 watts.