

# MURS (Multi-Use Radio Service) Band Info

**MURS**, or the **Multi-Use Radio Service** band is part of the **PRS**, or Personal Radio Service bands, as outlined by **47 CFR Part 95J** of the **FCC** (Federal Communications Commission), which regulates and makes rules for the use of all RF (Radio Frequency) radio spectrum in the United States. The band is usable for personal or business two-way radio communications with up to 2 Watts of power, and **MURS radios** are used by individual preppers, families, Neighborhood Watch groups, businesses, CERT and other organizations.

The MURS band consists of 5 MURS frequencies which were previously part of the **Business Band**, known formally as **LMR** (Land Mobile Radio service), and two of which were known as the “Color Dot” frequencies (Blue Dot & Green Dot). Transmitting on MURS channels does NOT require a license and can be used by any US citizen of any age, so it’s great for the entire family. There are some businesses that still operate “grandfathered” licenses to operate their business on the **MURS frequencies**, so in some areas, you may hear the occasional drive-thru window or superstore on a specific channel. All users must share these frequencies and not cause interference to each other.

MURS allows analog FM voice operation, and a handful of digital data & remote control modes, with specific limitations. Digital voice modes such as DMR, P25, D-STAR, and System Fusion (C4FM) are not allowed on the MURS band.

## MURS Channels, Frequencies, Bandwidth, Mode & Power

Channel	RX Freq	TX Freq	Bandwidth & Mode	Max Power
1 C	151.8200	151.8200	NFM	2W PEP
2 S	151.8800	151.8800	NFM	2W PEP

Channel	RX Freq	TX Freq	Bandwidth & Mode	Max Power
3 <b>E</b>	151.9400	151.9400	NFM	2W PEP
4 <b>BLUE</b>	154.5700	154.5700	FM	2W PEP
5 <b>GREEN</b>	154.6000	154.6000	FM	2W PEP

**C** = Calling Channel, **S** = Safety Channel, **E** = Emergency/Prepper Channel, **T** = Travel Channel for Road Safety & Assistance  
**BLUE DOT** & **GREEN DOT** channels are grandfathered from old “Business Band” radio service.

**NFM** = 11.25kHz, **FM** = 20kHz

**PEP** = Peak Envelope Power (Total Power Out)

Being in the VHF band between 151 & 154 MHz (megahertz), MURS is particularly useful for rural and outdoor settings because these lower frequencies have a tendency to “bend” around hills and penetrate through trees and foliage when higher UHF frequencies would otherwise be absorbed and fall off. On the same token, MURS usually doesn’t do as well in indoor and urban settings because the VHF waves tend to be absorbed more by walls and obstructions, and don’t bounce around to reach their destination like UHF waves. This is why we recommend that your **EmComm** radio capabilities include both **VHF MURS** and **UHF GMRS** (and Ham if you are licensed), keeping you safe and in contact in just about any setting.

Unlike the **FRS** (Family Radio Service) Band, which most people use with cheap, throw-away blister-pack or bubble-pack radios with fixed antennas and very low power limits (0.5 Watts), MURS allows **external antennas** and up **2 Watts** of power for **handheld** “HT” or “Walkie-Talkie” radios, greatly increasing your potential operating range. As well, because the MURS Band stands alone and doesn’t overlap another band like GMRS does with FRS, it’s still largely unused. Even though there are only 5 channels to choose from, you can almost always find a clear one to use, making a **MURS radio** a great choice for serious recreational, prepper or SHTF emergency communications.