

From: Craig D Mauldin

To: Behnam Ghaffari

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Message:

MAINGATE is intended to demonstrate interim capabilities, aid system development, and enable evaluation of performance and capabilities relative to user needs. The Mobile Ad hoc Interoperability Networking GATEway (MAINGATE) system includes a radio and a gateway. Other radios physically plug into the gateway via wired analog and digital interfaces. The MAINGATE radio connects to the gateway via a wired Ethernet interface and provides the wireless backbone network between MAINGATE equipped nodes. This application relates to the MAINGATE radio, which determines all of the spectrum characteristics of the MAINGATE system. This specific application is for the 902963 and 902972 versions of the system, which will be used for development and operational testing. Multiple devices will be operated in a single network in development and test environments, with 1 radio in transmit mode and all remaining radios in receive mode at any particular time within the same environment.

If "TVWS" means TV White Space, depending on configuration, the radio is capable of operating in either 225-450MHz or 470-698MHz. 470-698MHz is typically considered to be TV White Space.