

12-21-15

Dear Application Examiner:

Masimo Corporation, Model MWM1, FCC ID VKF-MWM1 is seeking limited modular approval. The radio meets the requirements for limited modular approval as detailed in FCC 15.212. Compliance to each of the requirements is described below:

1. **“The modular transmitter must have its own RF shielding.”** The radio portion of the module is contained in its own RF shielding. The shielding is installed at the factory. Please see the Internal Photos exhibit. **The MWM1 radio module is not able to be tested in a stand-alone configuration. The MWM1 radio module was tested in the Masimo model Radical 7 multi-function pulse Co-Oximeter host system.**
2. **“The modular transmitter must have buffered modulation/data inputs.”** The EUT has buffered data inputs to insure compliance with Part 15 requirements under conditions of excessive data rates or over-modulation. Please see the Schematics exhibit.
3. **“The modular transmitter must have its own power supply regulation.”** The EUT has its own power supply regulation to insure compliance with Part 15 requirements regardless of the quality or level of external DC supplying the module from the host unit. Please see Schematics exhibit. Also, the technical report exhibit contains AC power line conducted emissions data taken with the EUT powered from a linear power supply that contains no EMC suppression components. **The limited modular radio relies on the voltage regulating circuit of the host device.**
4. **“The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).”** The EUT meets the FCC antenna requirements. Please see Antenna information exhibit and internal photos exhibit.
5. **“The modular transmitter must be tested in a stand-alone configuration.”** The EUT was tested in a stand-alone configuration. The module was greater than 10 cm from the host device. Please see test setup photos exhibit and technical report exhibit. **. Radical 7 is a multi-functional pulse Co-Oximeter monitoring device designed for use with integrated radio model MWM1 and is described as follows:**
Provides wireless communication for patient monitoring equipment, communicating simultaneously with multiple patient monitoring devices.
Provides wireless communication to store and transfer medical data to customer-designated servers and electronic medical record systems.
Supports 802.11 wireless/Bluetooth connectivity.
Integrated into an isolated ground system
External local oscillator 32.768KHz
Antenna is an isolated magnetic dipole (IMD).
6. **“The modular transmitter must be labeled with its own FCC ID number.”** The EUT is labeled with its own FCC ID number. Please see FCC ID label & location exhibit. If the FCC ID number will not be visible when the module is installed inside a host device, another label with the FCC ID will be applied to the exterior of the host device. **The MWM1 LMR module is installed only by the manufacturer and is not customer accessible so no label will be placed on the module itself. The MWM1 LMR is only to interface with Masimo products which are designed for the module to be integrated at the time of manufacturer.**
7. **“The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions**



MASIMO AMERICAS
Forty Parker
Irvine, CA 92618

along with the module to explain any such requirements.” The EUT is compliant with all applicable FCC rules. Detail instructions for maintaining compliance are given in the User Manual.

8. **“The modular transmitter must comply with any applicable RF exposure requirements.”**

The EUT is compliant with all applicable RF exposure requirements. Please see RF Exposure Exhibit.

Please contact me if you have additional questions. Your attention to this matter is greatly appreciated.

Best regards,

Michael Clark
Signature,
Engineer, Senior Test R&D Instruments