



Medical Imaging *RDE*

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Concerning: Cirrus RFID reader Modular Transmitter and 47 CFR part 15 subpart C (FCC ID: HPL5243)

This short note describes the 47 CFR part 15 subpart C test configuration for radio type testing and the modular character of the Cirrus RFID reader.

The Cirrus RFID reader (internal reference A800626.X where X is a (software) version number is called reader throughout the rest of this document. The reader is designed and manufactured by Agfa-Healthcare NV.

The reader is integrated into medical scanners (manufactured Agfa-Healthcare NV.) by providing a +5V DC power supply and a RS232 serial interface (transmit TX and receive RX).

The reader is an intentional radiator that is based on inductive coupling to power a passive tag (using the Mifare protocol). The carrier frequency is 13.56MHz – section 15.225. The reader needs to comply with 47 CFR part 15 subpart C – 15.207 and 15.209.

The reader complies with all requirements of **Modular Transmitters** - section 15.212

15.212 (1) (i) the radio element has its own shielding, i.e. the MFR522 TX part is shielded

15.212 (1) (ii) the data inputs/outputs are buffered, i.e. the module uses RS232 data buffers

15.212 (1) (iii) the module has local power supply regulation, i.e. the module uses a local low-dropout regulator

15.212 (1) (iv) the antenna is fixed to the circuit part [sect 15.203 & 15.204 (b)]

15.212 (1) (v) the module is tested stand-alone (see test report CirrusRFIDreader ETC3170.pdf)

15.212 (vi) the module has a FCC ID labeled to the printed circuit board

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