



Illumina, Inc.  
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Date: September 1, 2011

Federal Communications Commission  
Authorization and Evaluation Division

Re: FCC ID: ZWF-MISEQ

To Whom It May Concern:

The purpose of this letter is to request limited modular approval of the Illumina, Inc, printed circuit board assembly, which operates in the 13.56 MHz ISM band under the provisions of FCC Part C 15.225. The RFID Reader is designed to be used within the host, MiSeq System, manufactured by Illumina.

There are three transceivers within the host device that have identical PCB layouts and identical antennas. There are two minor capacitor differences among the three transceivers which do not effect emissions and all three were found to be within the measurement of accuracy.

To address the specific numbered items of Public Notice DA 00-1407:

1. The board incorporates no shield over the wireless transceiver IC or the RF Front End Module. The module complies with regulations without a shielded Host.
2. The Transceiver IC has onboard voltage regulation and data buffering capabilities.
3. The RFID Reader has an integrated printed circuit board antenna that is inaccessible from outside the module's housing and is only accessible to a professional installer. There are no user serviceable parts within the MiSeq System and all service activities are to be performed by trained personal.
4. The RFID Reader module is intended to be installed in the MiSeq System. The module has been tested in its representative configurations.
5. The RFID Reader has a label to Identify the module's FCC ID. Additionally, the FCC ID appears on the MiSeq System's nameplate, which contains the RFID Reader Modules.
6. The RFID Reader complies and is certified for compliance with all of the applicable provisions of FCC Part 15.225 for devices operating within ISM frequency band.



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7. The RFID Reader is a low-power device and operates with a very low duty cycle.
8. The RFID Reader has been demonstrated and certified to comply with the MPE RF exposure requirements for mobile devices.

Sincerely,

A handwritten signature in blue ink that reads "Carol Escano".

Carol Escano  
Illumina, Inc.  
25861 Industrial Blvd.  
Hayward, CA 94545