



The 22nd of April 2009

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Acknowledgment of FCC Listing Requirements with external antenna permissive change

FCC: VJV-9008251

To Whom It May Concern:

FCC ID: VJV-9008251

We measured this product on July 2008 with an external antenna at Emitech premises, so that at that time, we issued a permissive change and corresponding documentation through Emitech and through your services.

However, our end Customer made recently the remark that the measurement report from Emitech (RA-24-08102900-1) was not completely good regarding the gain of the antenna.

Despite user manual/ installation guide are with the good 8 dBi gain on FCC web site, it is mentioned at page 6 of the measurement report that the antenna has a gain lower than 6 dBi (because Emitech had not this information when implementing the measurement and thought it was lower than 6 dBi).

Basically this is not a problem, because the system is still OK by changing the limit as written below by Emitech:

The maximum peak conducted output power of the intentional radiator shall not exceed 1 W, for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels.

The conducted measurement (see Test Report RA-24-08102900 from Emitech Laboratory) of the carrier is 110 mW (output of the cable provided with the equipment)

The conducted output power limit specified is based on the use of antennas with directional gains that do not exceed 6 dBi.

For the systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations, it is possible to employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Antenna gain specified is 8 dBi then the new limit is $30 \text{ dBm} - 1 \text{ dB} = 29 \text{ dBm}$ (800 mW). Then the margin is 8.5 dB and it is still OK.

Our Customer has a high internal Quality level and asks us for report modification.

So Emitech has changed the report. Could you please engage proceedings so that the new Emitech report supersedes the present one at FCC site.

With our best regards

Sincerely,

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