



RE: FCC ID: E5MDS-9810_ATCB001525

1. FYI - Please note that the MPE report states 0.020cm for d. This should be 0.020 m or 20cm. Please also note that the MPE report shows that antenna with greater gain than 10dBi require more than 20cm separation. Please address this issue.

Response: The MPE report has been corrected.

2. Please note that the first table in the MPE report uses a frequency of 1500MHz. Please note that this device operates in the 902 to 928 MHz range – thus giving an r of 10cm.. Please provide an MPE report which addresses the frequency range of the device.

Response: The extra table was just an example and has no meaning to what was tested. This example table was removed and a revised MPE has been uploaded.

3. Please note that it does not appear that the manual addresses the minimum separation distance between the antenna and the user. Please address this issue in the manual and please be consistent with other documentation.

Response: The manual provided was the original manual used for similar past approved MDS9810. For this reason a portion of that manual was uploaded to the RF Exposure exhibit. This portion will show the minimum separation, which the MPE calculated to be 22cm. This portion of the manual has been uploaded to the Manual exhibit instead, for your review.

4. Please note that at the frequencies of concern, cardboard may not be the best or idea material for support of the antenna. Please justify and/or explain what measures were taken to verify that the cardboard box had no adverse affects on the readings for spurious emissions. Please note that a more appropriate material may be Styrofoam supports.

Response: Justification was done by measuring the fundamental at 3 meters. The Calculated values yield a field strength of 130.7 dBuV/m @ 3 meters at 928 MHz. A measured value at 3 meters for 928 MHz yield a field strength of 128.4 dBuV/m. The difference is only 2.5 dB which could be cause by the Yagi not having a true 10dBi gain at the frequency, cable loss, and measurement uncertainty. But, it is still within the site's +/- 4dB deviation. For future tests we will use Styrofoam.

Calculated				
Frequency (MHz)	Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (dBuV/m)
902	25.6	10.0	35.6	130.9
928	25.4	10.0	35.4	130.7
Measured @ 3 meters				
Frequency (MHz)	EIRP (dBuV/m)			
902	127.4			
928	128.2			

5. Please provide a hop table showing the pseudo random nature of the hop sequence.

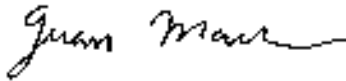
Response: Hopping sequence has been uploaded.

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6. Please note that the RSP100 form indicates that the power is a step function. This would also indicate that minimum and maximum power level existed. Please note that you have not provided a minimum power level for this device. Please explain, or alternately please provide the measured minimum power level for the device.

Response: RSP-100 form has been revised with the minimum power level of the lowest setting.

Regards,

A handwritten signature in black ink, appearing to read "Juan Martinez", with a stylized, flowing script.

Juan Martinez
Sr. EMC Engineer