

5 MPE Evaluation

Model RM433V2 – Channel 13 with Highest gain Antenna, 7 dBi YAGI

Corrected (including calibration factors) Measurement:	94.94	dBμV
The Gain of the antenna:	7.00	dBi
Type of Measurement:	Radiated	Calculated using the Friis Equations
Impedance:	50.00	Ω
Measuring Distance:	3.00	m
Time weighted Duty Cycle:	100.00	%

Frequency range from 10 MHz to 40 GHz:

Frequency:	433	MHz
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Power output with DC and antenna Gain
(EIRP):

Power (dBm):	-0.29
Power (mW):	0.936
Power (W):	0.000936

R = distance in	20	cm
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5.1.1 FCC Evaluation

FCC:		
Controlled Exposures - Limit =	1.443333333	mW/cm ²
Uncontrolled Exposures - Limit =	0.288666667	mW/cm ²
Pd =	0.0001861	mW/cm ²
Controlled Margin to Limit =	1.4431	mW/cm ²
Uncontrolled Margin to Limit =	0.2885	mW/cm ²

Note: * = Plane-wave equivalent power density

5.1.2 Industry Canada Evaluation RSS-102 Issue 5

IC:		
Controlled Exposures to Limit =	13.4319849	W/m ²
Uncontrolled Exposures Limit =	1.659248092	W/m ²
Pd =	0.001861	W/m ²
Controlled Margin to Limit =	13.4301	W/m ²
Uncontrolled Margin to Limit =	1.6574	W/m ²

Note: Refer to section 4 of RSS-102 for limits and time averaging for frequencies below 10 MHz and above 150 GHz.

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