

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

§1.1307(b)(3)(i) For single RF sources (*i.e.*, any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

5.2 Measurement Result

Frequency (MHz)	Maximum EIRP (dBm)	Antenna Gain (dBi)	Maximum Conducted Output Power		1-mW Test Exemption
			dBm	mW	
433.92	-6.03	0	-6.03	0.25	Compliant

Note:

1. Chose the maximum power to do MPE analysis.
2. This device maximum E-Field level is 89.17 dB μ V/m at 3m, so the EIRP power is -6.03 dBm.
3. Pout EIRP(dBm)=Field Strength of Fundamental(dBuV/m)-95.2, ERP = EIRP – 2.15 dB
4. Conducted Output Power = EIRP - Antenna Gain

Result: Compliant. RF Exposure is exemption.