

5. RF EXPOSURE EVALUATION

5.1 1-mW Test Exemption

5.1.1 Applicable Standard

According to 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.2- 1-mW Test Exemption:

Per §1.1307(b)(3)(i)(A), a single RF source is *exempt RF device* (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

5.1.2 Measurement Result

Radio	Frequency (MHz)	Maximum EIRP (dBm)	Maximum ERP		1-mW Test Exemption
			dBm	mW	
SRD	2405-2475	-26.57	-28.72	0.001	Compliant

Note:

1. chose the maximum power to do RF exposure analysis.
2. This device maximum E-Field level is 68.63 dBμV/m at 3m, so the EIRP power is -26.57 dBm.
3. $EIRP(dBm) = \text{Field Strength of Fundamental}(dBuV/m) - 95.2 (dB)$

Result: Compliant. RF Exposure is exemption.