

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

FCC §15.247 (i)

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See §1.1307(b)(1) of this chapter.

5.2 Procedure

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.

5.3 Measurement Result

Radio	Frequency (MHz)	Maximum EIRP (dBm)	Maximum ERP		1-mW Test Exemption
			dBm	mW	
SRD	2402-2480	-13.81	-15.96	0.03	Compliant

Note:

1. chose the maximum power to do MPE analysis.
2. This device maximum E-Field level is 81.39 dBμV/m at 3m, so the EIRP power is -13.81 dBm.
3. EIRP(dBm)=Field Strength of Fundamental(dBuV/m)-95.2 (dB)

Radio	Frequency (MHz)	Conducted output power including Tune-up Tolerance	Antenna Gain (dBi)	The Greater of Conducted Power or ERP		1-mW Test Exemption
		(dBm)		dBm	mW	
BLE	2402-2480	-5	3.0	-4.15	0.38	Compliant

Result: Compliant. RF Exposure is exemption.

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