

MPE Calculation / RF Exposure

Product: Remote Control Unit(BLE)

Applicant: EM-TECH CO.,LTD..

Model: EMN1442SL01

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FCC ID: 2AOIK-EMN1442

KDB 447498 D01 General RF Exposure Guidance v06, section 4.3.1(a)

Standalone SAR test exclusion threshold is applied;

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,

- where $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

Frequency (GHz)	Max. output power		Evaluation Distance (mm)	SAR test exclusion Threshold	Limit
	(dBm)	(mW)			
2.402	9.65	9.226	5	2.860	3.0

- Freq: 2 402 MHz
Max. power : 9.65 dBm (9.226 mW)
Min. Test separation distance : 5 mm
SAR exclusion threshold: $[9.226/5] \times [\sqrt{2.402}] = 2.860$