## FCC ID: BEJ-MTMB01

According to KDB 447498 D04 Interim General RF Exposure Guidance v01

### 1. MPE-Based Exemption

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power. For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

Table 1 to 1.1307(b)(3)(i)(c) – Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency (Mb)	Threshold ERP (watts)				
0.3-1.34	1 920 R <sup>2</sup>				
1.34-30	3 450 R <sup>2</sup> /f <sup>2</sup>				
30-300	3.83 R <sup>2</sup>				
300-1 500	0.012 8 R <sup>2</sup> f				
1 500-100 000	19.2 R <sup>2</sup>				

# 2. RF Exposure Test Exemptions for Single Source

Mode	Frequency Range (脈)	Minimum Separation Distance	Average Target Power	Maximum Tune up (dB)	Average Power	Antenna Gain (dBi)	ERP		P <sub>th</sub>	Ratio	Result
		(cm)	(dBm)		(dBm)		(dBm)	(Wm)	(mW)		
Thread of MATTER part	2 405 ~ 2 480	20	18	3	21	0.95	19.80	95.5	768	0.124	Pass

#### Note:

- Maximum average target power is the manufacturer's declared rated power.
- Maximum average power = Maximum average target power (dBm) + Maximum tune up (dB).
- ERP (dBm) = Maximum average power (dBm) + Antenna gain (dBi) -2.15

## 3. Conclusion: No SAR is required.