FCC ID: BEJ-LVRF001

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 $\,\mathrm{klz}$ to 100 $\,\mathrm{GHz}$, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ 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 (쌘)	Threshold ERP (watts)					
0.3-1.34	1 920 R2					
1.34-30	3 450 R ² /f ² 3.83 R ²					
30-300						
300-1 500	0.012 8 R ² f					
1 500-100 000	19.2 R ²					

2. RF Exposure Test Exemptions for Single Source

Mode	Frequency Range (畑)	Minimum Separation Distance	Maximum Average Output Power (dBm)	Antenna Gain (dBi)	ERP		Threshold ERP (mW)		Result
	` ´	(cm)	` ,	, ,	(dBm)	(mW)	, ,		
Bluetooth Low energy	2 400 ~ 2 483.5	20	7.50	1.68	7.03	5.05	768	0.007	Pass
WLAN 2.4G	2 400 ~ 2 483.5	20	20	1.68	19.53	89.74	768	0.117	Pass

Note;

- Bluetooth Low Energy and WLAN 2.4G can't simultaneous transmission at the same time.
- ERP (dBm) = Maximum average output power (dBm) + Antenna gain (dBi) 2.15 (dB). The ERP threshold as the "R must be at least $\lambda/2\pi$ " as per 1.1307 b)3)C) table 1
- Maximum average output power is the manufacturer's declared rated power
- 3. Conclusion: No SAR is required.