

CERPASS TECHNOLOGY CORP.

12.1 Applicable Standards

12. Radio Frequency Exposure

	The available maximum time-averaged power is no more than 1 mW,							
§1.1307(b)(3)(i)(A)	regardless of separation distance.							
	ERP is below a threshold calculated based on the distance, R between the person and the antenna / radiating structure, where R > λ /2 π . TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION							
	RF Source Minimum Distance Threshold ERP							
	$f_{ m L}$ MHz $f_{ m H}$ $\lambda_{ m L}$ / 2π $\lambda_{ m H}$ / 2π W							
§1.1307(b)(3)(i)(c)	0.3 - 1.34 159 m - 35.6 m 1,920 R ²							
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
	30 - 300 1.6 m - 159 mm 3.83 R ²							
	300 - 1,500 159 mm - 31.8 mm 0.0128 R ² f 1,500 - 100,00 31.8 mm - 0.5 mm 19.2R ²							
	Subscripts L and H are low and high; λ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.							
	Device operates between 300 MHz and 6 GHz and the maximum time-averaged							
	power or effective radiated power (ERP), whichever is greater, <= Pth							
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \ cm} (d/20 \ \text{cm})^x & d \le 20 \ \text{cm} \\ ERP_{20 \ cm} & 20 \ \text{cm} < d \le 40 \ \text{cm} \end{cases}$							
	Where							
§ 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(rac{60}{ERP_{20\;cm}\sqrt{f}} ight)$ and f is in GHz;							
	and							
	$ERP_{20 cm} \text{ (mW)} = \begin{cases} 2040 f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$							
	d = the separation distance (cm);							

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12.2 EUT Specification

	☐ WLAN: 2412MHz ~ 2462MHz				
	☐ WLAN: 5150MHz ~ 5250MHz				
Frequency band	WLAN: 5250MHz ~ 5350MHz				
(Operating)					
	☐ Bluetooth: 2402MHz ~ 2480MHz				
Device category	☐ Portable (<20cm separation)				
Device category					
	Single antenna				
Antenna diversity	Tx diversity				
	Rx diversity				
	Tx/Rx diversity				
	☐ Blanket 1 mW Blanket Exemption				
Evaluation applied					
	☐ SAR-based Exemption				
Remark:					
The maximum conducted output power is 7.85dBm (6.095mW) at 2480MHz (with 3.5dBi antenna gain.)					

12.3 Test Result

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Max.Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p power (mW)	Limit (mW)
2480	7.85	8.35	3.5	9.70	9.33	3060

No non-compliance noted.

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