

## CERPASS TECHNOLOGY CORP.

# 12. Radio Frequency Exposure

#### 12.1 Applicable Standards

	The available maximum time-averaged power is no more than 1 mW,						
§1.1307(b)(3)(i)(A)	regardless of separation distance.						
□ §1.1307(b)(3)(i)(c)	ERP is below a threshold calculated based on the distance, R between the person and the antenna / radiating structure, where R > $\lambda$ / 2 $\pi$ .  TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION  RF Source   Minimum Distance   Threshold ERP   $f_L$ MHz   $f_H$   $\lambda_L/2\pi$   $\lambda_H/2\pi$   W   $0.3$   $-$ 1.34   159 m   $-$ 35.6 m   1,920 R²   $1.34$   $-$ 30   35.6 m   $-$ 1.6 m   3,450 R²/ $f$ ²   $30$   $-$ 300   1.6 m   $-$ 159 mm   3.83 R²   $300$   $-$ 1,500   159 mm   $-$ 31.8 mm   0.0128 R² $f$   $1,500$   $-$ 100,00   31.8 mm   $-$ 0.5 mm   19.2R²    Subscripts L and H are low and high; $\lambda$ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.						
⊠ § 1.1307(b)(3)(i)(B).	Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= Pth $P_{th} \text{ (mW)} = \begin{cases} ERP_{20\ cm} (d/20\ \text{cm})^x & d \leq 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \leq 40\ \text{cm} \end{cases}$ Where $x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz};$ and $ERP_{20\ cm} \text{ (mW)} = \begin{cases} 2040f & 0.3\ \text{GHz} \leq f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \leq f \leq 6\ \text{GHz} \end{cases}$ $d = \text{the separation distance (cm)};$						

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### 12.2 EUT Specification

Frequency band (Operating)	<ul> <li>□ WLAN: 2412MHz ~ 2462MHz</li> <li>□ WLAN: 5150MHz ~ 5250MHz</li> <li>□ WLAN: 5250MHz ~ 5350MHz</li> <li>□ WLAN: 5470MHz ~ 5725MHz</li> <li>□ WLAN: 5725MHz ~ 5850MHz</li> <li>☑ Bluetooth: 2402MHz ~ 2480MHz</li> </ul>					
Device category	☐ Portable (<20cm separation) ☐ Mobile (>20cm separation)					
Antenna diversity	<ul> <li>Single antenna</li> <li>Multiple antennas</li> <li>☐ Tx diversity</li> <li>☐ Rx diversity</li> <li>☐ Tx/Rx diversity</li> </ul>					
Evaluation applied	<ul><li>☐ Blanket 1 mW Blanket Exemption</li><li>☐ MPE-based Exemption</li><li>☐ SAR-based Exemption</li></ul>					
Remark:						
The maximum conducte antenna gain.)	ed output power is 7.48dBm (5.598mW) at 2480MHz (with 0dBi					

#### 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)
2402-2480	7.48	7.98	0.00	5.83	3.83	3060

No non-compliance noted.

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