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.									
	ERP is below a threshold calculated based on the distance , R between the person and 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		
		Frequency f _L MHz f _H		$\lambda_{\rm L} / 2\pi$ $\lambda_{\rm H} / 2\pi$			ERP			
§1.1307(b)(3)(i)(c)		JE WILL		∫ _H MHz	AL / ZA		70H / Zit	W		
§1.1007 (b)(σ)(i)(σ)		0.3	_	1.34	159 m	_	35.6 m	1,920 R ²		
		1.34	<u> </u>	30	35.6 m	_	1.6 m	3,450 R ² /f ²		
		30	<u> </u>	300	1.6 m	_	159 mm	3.83 R ²		
		300	<u> </u>	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									
⊠ § 1.1307(b)(3)(i)(B).	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			Œ	NF 20 cm		20 (111	< a ≤ 40 cm		
	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz};$									
	and									
	$ERP_{20 \ cm} \ (\text{mW}) = \begin{cases} 2040 f & 0.3 \ \text{GHz} \le f < 1.5 \ \text{GHz} \\ \\ 3060 & 1.5 \ \text{GHz} \le f \le 6 \ \text{GHz} \end{cases}$									
	d = the separation distance (cm);									

Cerpass Technology Corp. T-FD-506-0 Ver 1.6 Issued Date : Oct. 13, 2023

Page No. : 46 of 47

FCC ID. : SWX-UAINT

Report No.: 23090223-TRFCC02

12.1 EUT Specification

Frequency band (Operating)	 WLAN: 2412MHz ~ 2462MHz WLAN: 5150MHz ~ 5250MHz WLAN: 5250MHz ~ 5350MHz WLAN: 5470MHz ~ 5725MHz WLAN: 5725MHz ~ 5850MHz Bluetooth: 2402MHz ~ 2480MHz
Device category	☐ Portable (<20cm separation) ☐ Mobile (>20cm separation)
Antenna diversity	 Single antenna Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Evaluation applied	☐ Blanket 1 mW Blanket Exemption☑ MPE-based Exemption☐ SAR-based Exemption
Remark:	
The maximum conducte antenna gain.)	ed output power is12.96dBm (19.770mW) at 2440MHz (with 4.00dBi

12.2 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	12.96	13.46	4	15.31	33.96	3060

No non-compliance noted.

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Cerpass Technology Corp. T-FD-506-0 Ver 1.6 Page No. : 47 of 47
FCC ID. : SWX-UAINT

Report No.: 23090223-TRFCC02