## 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 th	TAF SUBJ RF Sour Frequer fL MHz  0.3  1.34  30  300  1,500  Subscrip	BLE DECT rce acy	Mhere R  B.1—THI TO ROU  f <sub>H</sub> MHz 1.34 30 300 1,500 100,00 0 and H are	> $\lambda$ / 2  RESHOLDS TINE ENVI  Minimum $\lambda_L$ / $2\pi$ 159 m  35.6 m  1.6 m  159 mm  31.8 mm  low and hig	π.  FOFRON um I	R SINGLE RIMENTAL IDistance $\lambda_{\rm H}/2\pi$ 35.6 m 1.6 m 159 mm 31.8 mm 0.5 mm	RF SOURCES EVALUATION  Threshold ERP  W  1,920 R <sup>2</sup> 3,450 R <sup>2</sup> /f <sup>2</sup> 3.83 R <sup>2</sup> 0.0128 R <sup>2</sup> f  19.2R <sup>2</sup>	erson and
∑ § 1.1307(b)(3)(i)(B).	Device operates to power or effective where	radiate	d po	wer (ER $nw) = \begin{cases} E \\ E \end{cases}$ $x = -1c$ $ERP_{20}$	P), whicher $RP_{20\ cm}(d/2)$ $RP_{20\ cm}$ $RP_{20\ cm}$ $RP_{20\ cm}$	ever $\frac{0}{cm\sqrt{306}}$	is greater $d \le 20$ $20 \text{ cm}$ $\frac{1}{f}$ and $f$ is in $00f  0.3 \text{ GH}$ $00  1.5 \text{ GH}$	f, <= Pth $f, <= Pth$ $f, <$	jed

Cerpass Technology Corp. T-FD-506-0 Ver 1.6 Issued Date : Sep. 30, 2024
Page No. : 58 of 59

Report No.: 24060472-TRFCC02

FCC ID. : RBWESY15I1EC

## 12.2 EUT Specification

•					
	☐ WLAN: 2412MHz ~ 2462MHz				
_	☐ WLAN: 5150MHz ~ 5250MHz				
Frequency band					
(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	MPE-based Exemption				
	SAR-based Exemption				
Remark:					
The maximum conducted output power is 6.52dBm (4.487mW) at 2440MHz (with 1.97dBi					
antenna gain.)					

## 12.3 Result

Modulation Type	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	up e.r.p.	Max. Tune up e.r.p power (mW)	Limit (mW)
GFSK(2Mbps)	2402-2480	6.52	7.02	1.97	6.84	4.83	3060

No non-compliance noted.

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Cerpass Technology Corp. T-FD-506-0 Ver 1.6

Page No. : 59 of 59 FCC ID. : RBWESY15I1EC

Issued Date :

Sep. 30, 2024

Report No.: 24060472-TRFCC02