

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)		TABLE B.1—THR SUBJECT TO ROUT RF Source Frequency ft MHz 0.3 - 1.34 1.34 - 30 30 - 300 300 - 1,500 1,500 - 100,00 0 Subscripts L and H are			ased on the distance , R > λ /2 π . RESHOLDS FOR SINGLE R TINE ENVIRONMENTAL E Minimum Distance $\frac{\lambda_L/2\pi}{\lambda_B/2\pi} = \frac{\lambda_H/2\pi}{\lambda_B/2\pi}$ $\frac{159 \text{ m}}{35.6 \text{ m}} = \frac{35.6 \text{ m}}{1.6 \text{ m}}$ $\frac{1.6 \text{ m}}{1.9 \text{ mm}} = \frac{159 \text{ mm}}{31.8 \text{ mm}}$ $\frac{159 \text{ mm}}{31.8 \text{ mm}} = \frac{31.8 \text{ mm}}{0.5 \text{ mm}}$ low and high; λ is wavelengt (C), modified by adding Minimal section (C), modified by adding Minimal section (C), modified by adding Minimal section (C)			RF SOURCES EVALUATION Threshold ERP W 1,920 R ² 3,450 R ² /f ² 3.83 R ² 0.0128 R ² f 19.2R ² th.	person and t
⊠ § 1.1307(b)(3)(i)(B).	Device operates be power or effective where	radiated	d po	wer (ER $mW) = \begin{cases} E \\ E \end{cases}$ $x = -1c$ ERP_{20}	P), whicher $RP_{20 cm}(d/2RP_{20 cm})$ $RP_{20 cm} \left(\frac{6}{ERP_{20}}\right)$ e^{-6} e	ever $\frac{0}{cm}$	is greater $d \le 20$ 20 cm $\left(\frac{1}{f}\right)^{\frac{1}{f}}$ and f is in	f, <= Pth f cm f cm f cm f d f d f cm f GHz; f f c	nged

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12.2 EUT Specification

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Frequency band	☐ WLAN: 5250MHz ~ 5350MHz
(Operating)	
(-)	☐ WLAN: 5725MHz ~ 5850MHz
	Bluetooth: 2402MHz ~ 2480MHz
Davis a satamam.	Portable (<20cm separation)
Device category	Mobile (>20cm separation)
	Single antenna
Antenna diversity	☐ Tx diversity
	Rx diversity
	☐ Tx/Rx diversity
	Blanket 1 mW Blanket Exemption
Evaluation applied	$\stackrel{\cdot}{\boxtimes}$ MPE-based Exemption
	☐ SAR-based Exemption
Remark:	
The maximum conducte	ed output power is <u>22.65dBm (184.077mW) at 2437MHz (with 2.935dBi</u>
antenna gain.)	

12.3 Result

Maximum Permissible Exposure

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Tune up	Antenna Gain (dBi)	Max.Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p power (mW)	Limit (mW)
2437	22.65	23.15	2.935	23.94	247.46	3060

Maximum Permissible Exposure (Co-location)

BLE+2.4G

Modulation Type	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm) Antenna Gain(dBi)			Max. Tune up e.r.p power (mW)	Limit (mW)	MPE Ratio	
GFSK(1Mbps)	2402	18.29	18.79	2.935	20	90.68	3060	0.030	
11b	2437	22.65	23.15	2.935	20	247.46	3060	0.081	
Co-location Total									
Σ MPE ratios Limit									

-----THE END OF REPORT-----

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