12. Radio Frequency Exposure

12.1 Applicable Standards

	The available m	aximum	n tim	ie-avera	aged powe	er 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 t antenna / radiating structure, where R > λ /2 π . TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION								
		RF Source Frequency			Minimum Distance			Threshold ERP	
\$1.1307(b)(3)(i)(c)		f _L MHz		f _H MHz	$\lambda_{L} / 2\pi$		$\lambda_{\rm H}$ / 2π	W	
§1.1307(b)(3)(1)(c)		0.3	-	1.34	159 m	_	35.6 m	1,920 R ²	
		1.34	_	30	35.6 m	_	1.6 m	3,450 R ² /f ²	
		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								
∑ § 1.1307(b)(3)(i)(B).	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
	Where			Œ	10 20 cm		20 (111	~ u <u> </u>	
	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$ and f is in GHz;								
	and								
	$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$								
	d = the separation distance (cm);								

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12.2 EUT Specification

•					
	☐ WLAN: 2412MHz ~ 2462MHz				
	☐ WLAN: 5150MHz ~ 5250MHz				
Frequency band					
(Operating)					
	⊠ Bluetooth: 2402MHz ~ 2480MHz				
Dovice esterory	☐ 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:					
	ed output power is <u>6.62dBm (4.592mW)</u> at <u>2402MHz</u> (with <u>3dBi antenna</u>				
<u>gain</u> .)					

12.3 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	6.62	7.12	3.00	7.97	6.27	3060	

No non-compliance noted.

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