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 the 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	1				
	Frequency			ERP					
	$f_{ m L}$ MHz $f_{ m H}$ MHz	$\lambda_{\rm L}$ / 2π	$\lambda_{H} / 2\pi$	W					
§1.1307(b)(3)(i)(c)	0.3 – 1.34	159 m –	35.6 m	1,920 R ²					
	1.34 – 30	35.6 m –	1.6 m	$3,450 \text{ R}^2/f^2$					
	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								
	$(ERP_{20,mn}(d/20 \text{ cm})^x d \leq 20 \text{ cm}$								
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
_	Where								
§ 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(rac{60}{ERP_{20~cm}\sqrt{f}} ight)$ and f is in GHz;								
	and								
		ERP _{20 cm} (m)	$(N) = \begin{cases} 2040 \\ 3060 \end{cases}$	$0.3 \text{ GHz} \le f < 0.3 \text{ GHz} $	< 1.5 GHz ≤ 6 GHz				
	d = the separation distance (cm);								

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12.2 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 is <u>5.01dBm (3.170mW)</u> at <u>2480MHz</u> (with <u>3.0dBi</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	5.01	5.51	3.00	6.36	4.33	3060

No non-compliance noted.

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