

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 t 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 ERP	
		FrequencyfL MHzfH		fн	$\lambda_{\rm L}/2\pi$ $\lambda_{\rm H}/2\pi$				
§1.1307(b)(3)(i)(c)		-		мНz				W	
		0.3	-	1.34	159 m	-	35.6 m	1,920 R ²	
	-	1.34	-	30	35.6 m	-	1.6 m	$3,450 \text{ R}^2/f^2$	
		<u> </u>	-	300 1,500	1.6 m 159 mm	_	159 mm 31.8 mm	3.83 R ²	
	-	1,500	_	1,300	31.8 mm	_	0.5 mm	$0.0128 \text{ R}^2 f$	
		1,500		0	51.0 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								
	$P_{th} (\text{mW}) = \begin{cases} ERP_{20 \ cm} (d/20 \ \text{cm})^x & d \le 20 \ \text{cm} \\ ERP_{20 \ cm} & 20 \ \text{cm} < d \le 40 \ \text{cm} \end{cases}$								
	Where								
⊠ § 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(\frac{60}{ERP_{20} cm\sqrt{f}}\right)$ and f is in GHz;								
	and								
				ERP ₂₀	_{cm} (mW) =	${204 \\ 306}$	0 <i>f</i> 0.3 GH 0 1.5 GH	$z \leq f < 1.5 ext{ GHz}$ $z \leq f \leq 6 ext{ GHz}$	
	d = the separation distance (cm);								

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12.2 EUT Specification

	🗌 WLAN: 2412MHz ~ 2462MHz					
	🗌 WLAN: 5150MHz ~ 5250MHz					
Frequency band	🗌 WLAN: 5250MHz ~ 5350MHz					
(Operating)	🗌 WLAN: 5470MHz ~ 5725MHz					
	🗌 WLAN: 5725MHz ~ 5850MHz					
	Bluetooth: 2402MHz ~ 2480MHz					
	Portable (<20cm separation)					
Device category	Mobile (>20cm separation)					
Antenna diversity	Single antenna					
	Multiple antennas					
	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 <u>-0.35dBm (0.923mW)</u> at <u>2480MHz</u> (with <u>2.1dBi</u>						
antenna gain.)						

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	-0.35	0.15	2.10	0.10	1.02	3060

No non-compliance noted.

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