

12. Radio Frequency Exposure

12.1 Applicable Standards

	The available m	naximum	n tim	e-avera	aed powe	er is	no more	than 1 mW.	
ے §1.1307(b)(3)(i)(A)		The available maximum time-averaged power is no more than 1 mW,							
3	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	
		Freque	ncy	C.				ERP	-
 §1.1307(b)(3)(i)(c)		$f_{\rm L}$ MHz		∫ _H MHz	$\lambda_L / 2\pi$		$\lambda_{\rm H}$ / 2π	W	
311001 (2)(0)(1)(0)		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 0	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 l	oetween	300	MHz ar	d 6 GHz a	and	the maxim	num time-avera	ged
	Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= Pth								
	$P_{th} (mW) = \begin{cases} ERP_{20 cm} (d/20 cm)^{x} & d \le 20 cm \\ \\ ERP_{20 cm} & 20 cm < d \le 40 cm \end{cases}$								
	Where								
⊠ § 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz};$								
	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	WLAN: 5250MHz ~ 5350MHz					
(Operating)	WLAN: 5470MHz ~ 5725MHz					
	WLAN: 5725MHz ~ 5850MHz					
	Bluetooth: 2402MHz ~ 2480MHz					
Dovico cotogory	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>-1.26dBm (0.748mW)</u> at <u>2441MHz</u> (with <u>-0.21dBi</u>						
antenna gain.)						

12.3 Result

Channel Frequency (MHz)	power	Max. Tune up power (dBm)	power	Antenna Gain(dBi)	Max.Tune up e.i.r.p. Power (dBm)	Max.Tune up e.r.p. Power (dBm)	Max.Tune up e.r.p. Power (mW)	Distance (mm)	SAR test exclusion thresholds (mW)
2403-2480	-1.26	-0.76	0.84	-0.21	-0.97	-3.12	0.49	5	2.72

No non-compliance noted.

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