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 antenna / radiating structure, where R > λ /2 π .								
		RF Source Frequency			Minimum Distance			Threshold ERP	
\[\] \[\]		f _L MHz		f _H MHz	$\lambda_L / 2\pi$		$\lambda_{H} / 2\pi$	W	
§1.1307(b)(3)(1)(c)		0.3	<u> </u>	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								
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20\ cm} (d/20\ \text{cm})^x & d \le 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases}$								
	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) =	${204 \choose 306}$	0 <i>f</i> 0.3 GH 0 1.5 GH	$z \le f < 1.5 ext{GHz}$ $z \le f \le 6 ext{GHz}$	
	d = the separation distance (cm);								

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12.2 EUT Specification

	☐ WLAN: 2412MHz ~ 2462MHz					
Frequency band						
(Operating)						
	⊠ Bluetooth: 2402MHz ~ 2480MHz					
Device category	□ 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						
	SAR-based Exemption					
Remark:						
-	Tx diversity Rx diversity Tx/Rx diversity Blanket 1 mW Blanket Exemption MPE-based Exemption					
	d output power is 3 <u>.82dBm (2.582mW)</u> at <u>2402MHz</u> (with <u>0.8dBi</u>					
antenna gain.)						

12.3 Result

Channel Frequency (MHz)	Max. Conducted output power (dBm)	up	power	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)
2402-2480	3.82	4.32	2.70	0.80	5.12	2.97	1.98	5	2.72

No non-compliance noted.

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