## 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 per antenna / radiating structure, where R > $\lambda$ /2 $\pi$ .  TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION  RF Source Minimum Distance Threshold ERP $f_L$ MHz $f_H$ $\lambda_L/2\pi$ $\lambda_H/2\pi$ $\nu_L$							F SOURCES EVALUATION Threshold	and
§1.1307(b)(3)(i)(c)		f <sub>L</sub> MHz		$f_{ m H} \  m MHz$	Λ <u>L</u> / Zπ		Λ <sub>H</sub> / Zπ	W	
§ 1.1007 (b)(0)(1)(c)		0.3	_	1.34	159 m	_	35.6 m	1,920 R <sup>2</sup>	
		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 <sup>2</sup>	
		300	_	1,500	159 mm	_	31.8 mm	$0.0128  \mathrm{R}^2 f$	
		1,500	_	100,00	31.8 mm	_	0.5 mm	19.2R <sup>2</sup>	
	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								
	$x = -\log_{10}\left(\frac{60}{ERP_{20~cm}\sqrt{f}}\right)$ and $f$ is in GHz;								
	and								
				ERP <sub>20</sub>	<sub>cm</sub> (mW) =	${204 \choose 306}$	0f 0.3 GH 0 1.5 GH	$\mathbf{z} \leq f < 1.5  \mathrm{GHz}$ $\mathbf{z} \leq f \leq 6  \mathrm{GHz}$	
	d = the separation distance (cm);								

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## 12.2 EUT Specification

<u> </u>							
	☐ WLAN: 2412MHz ~ 2462MHz						
Frequency band	☐ WLAN: 5250MHz ~ 5350MHz						
(Operating)							
Device category	□ Portable (<20cm separation)						
	☐ Mobile (>20cm separation)						
	Single antenna						
	☐ Multiple antennas						
Antenna diversity	☐ Tx diversity						
	Rx diversity						
	☐ Tx/Rx diversity						
	☐ Blanket 1 mW Blanket Exemption						
Evaluation applied	MPE-based Exemption						
• •							
Remark:							
The maximum conducted output power is <u>0.02dBm (1.005mW)</u> at <u>2402MHz</u> (with <u>1.43dBi</u>							
<u>antenna gain</u> .)							

## 12.3 Result

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Max. Tune up power (mW)	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)
2402-2480	0.02	0.52	1.13	1.43	1.95	-0.20	0.96	5	2.72

No non-compliance noted.

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