## 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.								
☐ §1.1307(b)(3)(i)(c)	ERP is below a th	TAH SUBJ  RF Sour Frequer ft MHz  0.3  1.34  30  300  1,500  Subscrip	BLE : ECT rce acy	### MHz  1.34  30  300  1,500  100,00  0  and H are	> $\lambda$ / 2  RESHOLDS TINE ENVI  Minimum $\lambda_L$ / $2\pi$ 159 m  35.6 m  1.6 m  159 mm  31.8 mm	π. FOI RON um I	R SINGLE R IMENTAL I Distance $\lambda_{\rm H}/2\pi$ $35.6 \text{ m}$ $1.6 \text{ m}$ $159 \text{ mm}$ $31.8 \text{ mm}$ $0.5 \text{ mm}$ is wavelength	RF SOURCES EVALUATION  Threshold ERP  W  1,920 R <sup>2</sup> 3,450 R <sup>2</sup> /f <sup>2</sup> 3.83 R <sup>2</sup> 0.0128 R <sup>2</sup> f  19.2R <sup>2</sup>	person and t
⊠ § 1.1307(b)(3)(i)(B).	Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= Pth $P_{th} \text{ (mW)} = \begin{cases} ERP_{20\ cm} (d/20\ \text{cm})^x & d \leq 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \leq 40\ \text{cm} \end{cases}$ where $x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz};$ and $ERP_{20\ cm} \text{ (mW)} = \begin{cases} 2040f & 0.3\ \text{GHz} \leq f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \leq f \leq 6\ \text{GHz} \end{cases}$ $d = \text{the separation distance (cm)};$							ged	

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## 12.2 EUT Specification

Frequency band (Operating)	<ul> <li>WLAN: 2412MHz ~ 2462MHz</li> <li>WLAN: 5150MHz ~ 5250MHz</li> <li>WLAN: 5250MHz ~ 5350MHz</li> <li>WLAN: 5470MHz ~ 5725MHz</li> <li>WLAN: 5725MHz ~ 5850MHz</li> <li>SRD: 2402MHz ~ 2480MHz</li> </ul>				
Device category	Portable (<20cm separation)				
Antenna diversity	<ul> <li>Single antenna</li> <li>Multiple antennas</li> <li>☐ Tx diversity</li> <li>☐ Rx diversity</li> <li>☐ Tx/Rx diversity</li> </ul>				
Evaluation applied	Blanket 1 mW Blanket Exemption				
Remark:					
The maximum conducte antenna gain.)	ed output power is <u>3.4dBm (2.188mW)</u> at <u>2480MHz</u> (with <u>0.76dBi</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	3.40	3.90	2.45	0.76	4.66	2.51	1.78	5	2.72

No non-compliance noted.

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