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.							
\[\tag{5.1.1307(b)(3)(i)(c)}	ERP is below a threshold calculated based on the distance , R between the person and the antenna / radiating structure, where R > λ /2 π . TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION RF Source							
⊠ § 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 $ERP_{20\ cm} \text{ (mW)} = \begin{cases} 2040f & 0.3\ \text{GHz} \leq f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \leq f \leq 6\ \text{GHz} \end{cases}$ $d = \text{the separation distance (cm)};$							

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12.2 EUT Specification

	☐ WLAN: 2412MHz ~ 2462MHz				
Frequency band (Operating)					
	☐ WLAN: 5725MHz ~ 5850MHz				
	⊠ Bluetooth: 2402MHz ~ 2480MHz				
Dovice category	☐ Portable (<20cm separation)				
Device category					
	Single antenna				
Antenna diversity	☐ Tx diversity				
	Rx diversity				
	Tx/Rx diversity				
	☐ Blanket 1 mW Blanket Exemption				
Evaluation applied					
	☐ SAR-based Exemption				
Remark:					
The maximum conducte antenna gain.)	ed output power is 13.81dBm (24.044mW) at 2402MHz (with 4.0dBi				

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	13.81	14.31	4.00	16.16	41.30	3060

No non-compliance noted.

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