

1 Test summary and result

FCC ID: 2AGZ3S00911

RF Exposure Evaluation – FCC MPE

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	2400-2483.5MHz 5150-5350MHz 5470-5725MHz 5745-5850MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300 - 1500 MHz,
Power Density Limit:	f/1500 mW/cm ²
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm ²

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$
Where, S = Power Density
P = Power Input to Antenna
G = Antenna Gain
R = distance to the center of radiated antenna

Radio	Frequency (MHz)	Max Conducted Output Power (dBm)	Antenna Gain (dBi)	Separation distance (cm)	Power Density (mW/ cm ²)	MPE Limit (mW/ cm ²)
WLAN 11b/g	2412-2462	23	5	20	0.126	1
WLAN 11a/n/ac	5150-5250	22	5	20	0.100	1
WLAN 11a/n/ac	5350-5720	22	5	20	0.100	1
WLAN 11a/n/ac	5725-2825	24	5	20	0.158	1

The above results show that the device complies with the MPE requirement with separation distance of at least 20 cm.