

RF Exposure Report

FCC ID: 2AGTU-SUBTXRX

The EUT is NUVO Wireless 5.8G with 5G function.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz

MPE calculation method

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2}$$

S: power density mW/ cm²;

P: power input to the antenna in mW;

g: numeric gain of antenna;

r: distance to centre of radiation in cm

Calculated result

Test CH (MHz)	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Output power to antenna (mW)	Antenna Gain(dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
5180	9.92±1.0	10.92	12.36	1.74 (2.408dBi)	0.004281	1.0	Pass
5210	9.71±1.0	10.71	11.78	1.74 (2.408dBi)	0.004080	1.0	Pass
5240	10.03±1.0	11.03	12.68	1.74 (2.408dBi)	0.004392	1.0	Pass
5736	-2.88±1.0	-1.88	0.65	1.74 (2.408dBi)	0.000225	1.0	Pass
5762	-2.92±1.0	-1.92	0.64	1.74 (2.408dBi)	0.000222	1.0	Pass
5814	-3.17±1.0	-2.17	0.61	1.74 (2.408dBi)	0.000211	1.0	Pass

Note1: the antenna gain is 2.408dBi;

Note2: Calculated distance is 20cm, which is declared by the manufacturer.