

## RF Exposure Report

**FCC ID:2AS7X-BL-99**

The EUT is a Projector in the 2412 ~ 2462MHz and 5745-5825 MHz frequency band.

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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> 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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> 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/ cm<sup>2</sup>;

P: power input to the antenna in mW;

g: numeric gain of antenna;

r: distance to centre of radiation in cm

## Calculated result

Mode	Max. Peak output power (dBm)	Max. Peak output power (mW)	Antenna Gain (numeric)	Power Density (S) (mW/ cm <sup>2</sup> )	Limit of Power Density (S) (mW/ cm <sup>2</sup> )
802.11b	16.537	45.050	1.78	0.015961	1
802.11g	15.505	35.522	1.78	0.012585	1
802.11n20	14.667	29.288	1.78	0.010376	1
802.11n40	12.550	17.988	1.78	0.006373	1
802.11a	10.35	10.839	1.78	0.003840	1
5G Wi-Fi 802.11 n20	9.50	8.912	1.78	0.003157	1
5G Wi-Fi 802.11 n40	9.46	8.830	1.78	0.003128	1
5G Wi-Fi 802.11 ac80	7.29	5.357	1.78	0.001898	1

Note1: the antenna gain is 2.5dBi;

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