

Registration number: W6M22108-21141-C-1

FCC ID: 2ALIW-VP560S2

## 3.2 RF Exposure Compliance Requirements

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

WLAN

EIRP = 8.62 dB + 2 dBi [antenna gain claimed by manufacturer] = 10.62 dBm = 11.5345 mW

Bluetooth Normal mode & EDR mode

EIRP = -7.07 dB + 2 dBi [antenna gain claimed by manufacturer] = -5.07 dBm = 0.3112 mW

Bluetooth Low Energy mode

EIRP = -9.22 dB + 2 dBi [antenna gain claimed by manufacturer] = -7.22 dBm = 0.1897 mW

Test equipment used: ETSTW-RE 055

## 3.3 Exemption Limits for Routine Evaluation according to 47 CFR FCC Part 2 Subpart J, section 2.1091

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20 cm normally can be maintained between the user and the device.

### MPE Calculation Method

#### (A) Limits for Occupational/Controlled Exposure

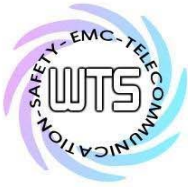
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	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 <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

\*Plane-wave equivalent power density



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E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to  $Pd \cdot \frac{30 \times P \times G}{377 \times d^2}$  mW/cm<sup>2</sup>.

Established separation distance is 20 cm.

## WLAN

Operating frequency band : 2412-2462 MHz

The product meets RF exposure requirement.

Because the power density of 0.0023 mW/cm<sup>2</sup> at 2437 MHz is below the power density limit of 1 mW/cm<sup>2</sup>.

## Bluetooth Normal mode & EDR mode

Operating frequency band : 2402-2480 MHz

The product meets RF exposure requirement.

Because the power density of 0.0001 mW/cm<sup>2</sup> at 2480 MHz is below the power density limit of 1 mW/cm<sup>2</sup>.

## Bluetooth Low Energy mode

Operating frequency band : 2402-2480 MHz

The product meets RF exposure requirement.

Because the power density of 0 mW/cm<sup>2</sup> at 2402 MHz is below the power density limit of 1 mW/cm<sup>2</sup>.