1 Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields RESULT:

Test Specification

Test standard : CFR47 FCC Part 2: Section 2.1091

CFR47 FCC Part 1: Section 1.1310

FCC KDB Publication 447498 v06, section 7

FCC ID: WUI-BT532926

> FCC requirements

FCC requirement: 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 level 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 20cm normally can be maintained between the user and the device.

MPE Calculation Method according to KDB 447498 v06

Power Density: $S_{(Mw/cm^2)} = PG/4\Pi r^2$ or EIRP/4 Πr^2

Where:

 $S = power density (mW/cm^2)$

P = power input to the antenna (mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (cm)

From the maximum conducted output power, the minimum mobile separation distance, d=20 cm, as well as the antenna gain, the RF power density can be calculated as below:

 $S_{(Mw/cm2)} = PG/4\Pi r_2$

1) EUT RF Exposure Evaluation operations, Worst Case mode

Test Mode	Measured Power (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)	S _(Mw/cm²) = PG/4Πr ²	Limit (Mw/cm²)
2.4GHz band Wi-Fi	17.35	4.52	21.87	0.03	1.0
BLE	-6.58	3	-3.58	0.0001	1.0

Pass