## FCC ID: 2AZKWREBE-TZ29L ATTACHMENT

### RF EXPOSURE EVULATION

#### 1.1 Limit

According to §1.1310 and §2.1091 RF exposure is calculated.

#### (B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field	Magnetic field	Power	Averaging
	Strength	Strength	density	time
1.34 - 30	824/f	2.19/f	*(180/ f²)	30
30 - 300	27.5	0.073	0.2	30
300 - 1500			f/1500	30
1500 - 100.000			<u>1.0</u>	30

F = frequency in MHz

#### 1.2 MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

Power density at the specific separation:

$S = PG/(4R^2\pi)$	Where,		
5 - 1 G/(+R //)	S = Maximum power density (mW/cm2)		
$S = (1.94 * 0.29) / (4 * 20^2 * \pi)$	P = Power input to the antenna (mW)		
	G = Numeric power gain of the antenna		
$S = 0.0001 \text{ mW/cm}^2$	R = Distance to the center of the radiation of the antenna		
	(20 cm = limit for MPE)		

<sup>\* =</sup> Plane-wave equivalent power density

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#### 1.3 MAXIMUM PERMISSIBLE EXPOSURE Prediction

- Calculated under the worst-case conditions of each mode.

(Measured power 3.0 dBm  $\pm$  0.5dB)

#### 3-1. 2.4 GHz Mode

Max Peak output Power at antenna input terminal	2.87	dBm
Max Peak output Power at antenna input terminal	1.94	mW
Prediction distance	5	mm
Prediction frequency	2,480	MHz
Antenna Gain(typical)	-5.36	dBi
Antenna Gain(numeric)	0.29	-

For 100 MHz to 6 GHz and test separation distances  $\leq$  50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]

 $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR, and  $\le 7.5$  for 10-g extremity SAR

 $[(1.94)/(5)] \cdot [\sqrt{2.480}] = 0.611 \le 3.0$ 

Thus, SAR for this device is not required.