# **Maximum Permissible Exposure report**

## For

## Xiamen Trust Information Tech Co.,Ltd.

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## FCC ID:2ADY9WI-200

WI-200, WI-100, WI-300

This Report Concerns:		Equipment Type:		
Original Report		Indoor Air Detector		
Test Engineer:	Lisa Chen	Lissa Chon		
Report No.:	BSL20150112-2			
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Date/Test Date:	January 02- January 12, 2015			
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### 1.§ 15.247 (i) and §1.1307 (b) (1) – Maximum Permissible exposure (MPE)

### 1.1 Standard Applicable

According to subpart 15.247 (i) and subpart 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minute)		
Limits for General Population/Uncontrolled Exposure						
0.3-3.0	614	1.63	*(100)	30		
3.0–30	824/f	2.19/f	*(180/f2)	30		
30–300	27.5	0.073	0.2	30		
300–1500	/	/	f/1500	30		
1500–100,0 00	/	/	1.0	30		

f = frequency in MHz

#### 1.2 Test Data

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S = PG/4\pi R^2$ 

S: Power density, in mW/cm<sup>2</sup>

P: Power input to the antenna, in mW

G: numeric gain of the antenna

R: distance to the center of the antenna, in cm

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

#### 802.11b Mode

Maximum peak output power at antenna input terminal (dBm): 16.93 49.32 Maximum peak output power at antenna input terminal (mW): Prediction distance (cm): <u>20</u> Prediction frequency (MHz): 2437 Antenna Gain, typical (dBi): 0 Maximum Antenna Gain (numeric): 1 0.0098 Power density at predication frequency and distance (mW/cm<sup>2</sup>): MPE limit for Occupational exposure at predication frequency (mW/cm<sup>2</sup>): 1.0

#### 1.3 Test Result

The device is compliant with the requirement MPE limit of General Population/Uncontrolled Exposure at predication frequency 1.0~mW/cm2. And the precaution is outlined in the user's manual to prevent to high level of RF energy.