

RF Exposure Report

Report No.: SA150415E06H

FCC ID: HEDIRAC750

Test Model: IR-AC750

Series Model: IR-AC750-EU

Received Date: Dec. 28, 2015

Test Date: Jan. 14, 2016

Issued Date: Jan. 25, 2016

Applicant: Accton Technology Corporation

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	Release Control Record							
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1 Certificate of Conformity

Product:	Cloud-Enabled Enterprise Access Point
Brand:	IgniteNet
Test Model:	IR-AC750
Series Model:	IR-AC750-EU
Sample Status:	ENGINEERING SAMPLE
Applicant:	Accton Technology Corporation
Test Date:	Jan. 14, 2016
Standards:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 General RF Exposure Guidance v06
	IEEE C95.1-2005

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :	f. co	, Date:	Jan. 25, 2016	
	Lori Chung / Specialist			

Approved by :

May Chen / Manager

Date: Jan. 25, 2016



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Power Density (mW/cm ²)	Average Time (minutes)						
	Limits For General Population / Uncontrolled Exposure								
300-1500 F/1500 30									
1500-100,000			1.0	30					

F = Frequency in MHz

2.2 MPE Calculation Formula

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^{2}$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20m away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

The antennas provided to the EUT, please refer to the following table:

2.4GHz Band										
Antenna No.	PCB Chain No.	Ant. Gain(dBi)	Frequency Range (GHz to GHz) Ant. T		Ant. Typ	е	Connecter Typ	e	Cable Length (mm)	
1 (White)	Chain (0)	4.3	2.4~2.4835 PCE		PCB		i-pex(MHF)		130	
2 (Gray)	Chain (1)	4.01	2.4~2.4835		PCB		i-pex(MHF)		90	
**For 802.11bg mode will fix transmission on Chain (0).										
5GHz Band										
Antenna No.	Ant. Gain(dE	(I) I '	cy Range o GHz)	Ant. Type		С	connecter Type	Cab	le Length (mm)	
3 (Black)	5	5.15	~5.85	PCB		PCB MMCX-plug		MMCX-plug		60



2.5 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	967.697	4.3	20	0.51817	1
5180-5240	212.814	5	20	0.13388	1
5745-5825	197.242	5	20	0.12409	1

Conclusion:

Both of the 2.4GHz and 5GHz can transmit simultaneously, the formula of calculated the MPE is:

 $CPD_1 / LPD_1 + CPD_2 / LPD_2 + \dots etc. < 1$

CPD = Calculation power density

LPD = Limit of power density

Therefore, the worst-case situation is 0.51817 / 1 + 0.13388 / 1 = 0.65205, which is less than "1".

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