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Report No.: 1405RSU03502 Report Version: Issue Date: 05-30-2014

RF Exposure Evaluation Declaration

FCC ID: QB8LT5GT

APPLICANT: DragonWave Inc.

Certification Application Type:

Product: Microwave Outdoor Unit

Harmony Lite 5GHz Model No.:

FCC Classification: Digital Transmission System (DTS)

Reviewed By

: Robin Wu (Robin Wu) : Marlinchen Approved By

(Marlin Chen)

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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Revision History

Report No.	Version	Description	Issue Date
1405RSU03502	Rev. 01	Initial report	05-30-2014

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1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time		
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)		
(A) Limits for Occupational/ Control Exposures						
300-1500			f/300	6		
1500-100,000			5	6		
(B) Limits for General Population/ Uncontrolled Exposures						
300-1500			f/1500	6		
1500-100,000			1	30		

f= Frequency in MHz

Calculation Formula: $P_d = (P_{out}*G)/(4*pi*r^2)$

Where

 P_d = power density in mW/cm²

P_{out} = 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

P_d is the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

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1.2. Test Result of RF Exposure Evaluation

Product	Microwave Outdoor Unit	
Test Item	RF Exposure Evaluation	

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 23.5dBi for 5GHz in logarithm scale.

For 5G ISM Band:

Test Mode		Maximum Average output power (dBm)	Limit of Power Density S(mW/cm²)	Safety Distance (cm)
20MHz BW	5745 ~ 5825	19.32	1	39.03
40MHz BW	5755 ~ 5795	19.11	1	38.10

CONCULISON:

The Safety Distance of this equipment was 39.03 cm.

———— The End

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