FCC PART 15 CLASS B EMI MEASUREMENT AND TEST REPORT For

Blupont Limited

713 RM, 206 East, Tairan 4 Road, CheGongMiao Industrial Park, Futian District, ShenZhen, China

FCC ID: V36WL-700N-XS

May 30, 2012

This Report Concerns:		Equipment Type:		
Original Report		Wireless Card		
Test Engineer:	Eric Li	Bric la		
Report No.:	BST12050203Y-1E-3-2			
Receive EUT Date/Test Date:	May 10, 2012/ May 10-29, 2012			
Reviewed By:	Christina Deng			
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TABLE OF CONTENTS

1.	GENH	ERAL INFORMATION	.3
	1.1.	Report information	.3
	1.2.	Measurement Uncertainty	.3
2.	PROI	DUCT DESCRIPTION	.4
	2.1.	EUT Description	.4
	2.2.	Block Diagram of EUT Configuration	.4
	2.3.	Support Equipment List	.4
	2.4.	Test Conditions	.4
3.	FCC I	D LABEL	.5
4.	TEST	RESULTS SUMMARY	.6
	Modif	ications	.6
5.	TEST	EQUIPMENT USED	.7
6.	CONI	DUCTED EMISSION TEST	.8
	6.1.	Block Diagram of Test Setup	.8
	6.2.	Test Standard	
	6.3.	Conducted Emission Limit(Class B)	
	6.4.	EUT Configuration on Test	
	6.5.	Operating Condition of EUT	
	6.6.	Test Procedure	
	6.7.	Test Result	
7.	RADI	ATED EMISSION MEASUREMENT	
	7.1.	Block Diagram of EUT Configuration	
	7.2.	Test Standard	
	7.3.	Radiated Emission Limit(Class B)	
	7.4.	EUT Configuration on Test	
	7.5.	Operating Condition of EUT	
	7.6.	Test Procedure	
	7.7.	Test Result	14

1. GENERAL INFORMATION

1.1. Report information

- 1.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.
- 1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

Test Facility -The test site used to collect the radiated data is located on the address of Shenzhen Certification Technology Service Co., Ltd (FCC Registered Test Site Number: 197647) on 2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, shenzhen 518126, China The Test Site is constructed and calibrated to meet the FCC requirements.

1.2. Measurement Uncertainty

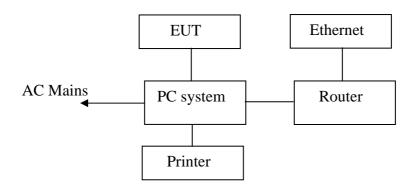
Available upon request.

2. PRODUCT DESCRIPTION

2.1. EUT Description

Applicant Address	:	Blupont Limited 713 RM, 206 East, Tairan 4 Road, CheGongMiao Industrial Park, Futian District, ShenZhen, China
Manufacturer Address	:	Blupont Limited 713 RM, 206 East, Tairan 4 Road, CheGongMiao Industrial Park, Futian District, ShenZhen, China
EUT Description	:	Wireless Card
Trade Name	:	N/A
Model Number	:	WL-700N-XS
Power Supply	:	DC 5V powered by USB port

2.2. Block Diagram of EUT Configuration



2.3. Support Equipment List

Name	Model No	S/N	Manufacturer	Used ""
PC system	AM1830	N/A	Acer	
Printer	HP1020	N/A	HP	
Router	TL-R402M	07115200391	TP-LINK	

2.4. Test Conditions

Temperature: 20~25

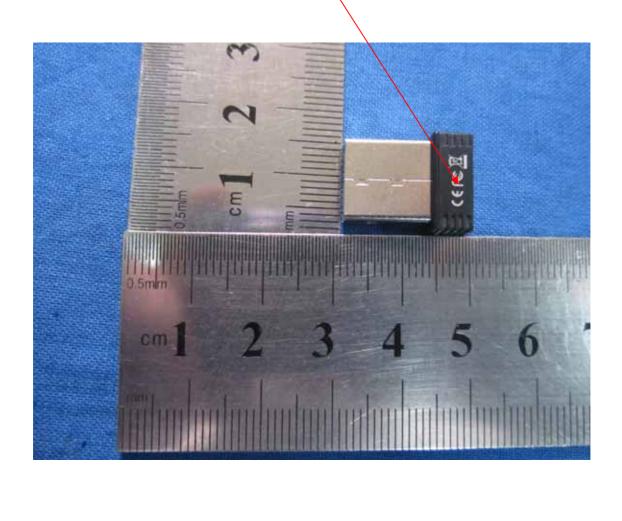
Relative Humidity: 50~63 %

3. FCC ID LABEL

FCC ID: V36WL-700N-XS

Label Location on EUT

EUT View/ FCC ID Label Location



4. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Conducted disturbance	Pass
Radiated disturbance	Pass

Statement: All testing was performed using the test procedures found in ANSI C63.4-20003.

Modifications

No modification was made.

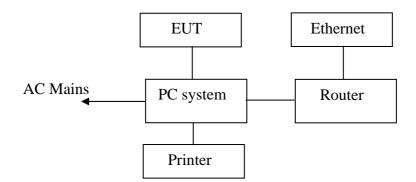
5. TEST EQUIPMENT USED

Equipment/Facilities	Manufacturer	Model #	Serial no.	Date of Cal.	Cal. Interval
Cable	Resenberger	N/A	NO.1	Mar 10 , 2012	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10 , 2012	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10 , 2012	1 Year
LISN	Rohde & Schwarz	ESH3-Z5	100305	Mar 10 , 2012	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10 , 2012	1 Year
EMI Test Receiver	Rohde & Schwarz	ESP13	100180	Oct.11,2011	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSP40	100273	Sep.10,2011	1 Year
3m Semi-Anechoic Chamber	Albatross Projects	9m×6m×6m	N/A	Feb.20,2012	1 Year
Signal Generator	FLUKE	PM5418 + Y/C	LO747012	Feb.20,2012	1 Year
Signal Generator	FLUKE	PM5418TX	LO738007	Feb.20,2012	1 Year
Loop Antenna	SCHWARZBECK	FMZB1516	113	Jan.30,2012	1 Year
Trilog-Super Broadband Antenna	SCHWARZBECK	VULB9161	9161-4079	Sep.22,2011	1 Year
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-564	Sep.22,2011	1 Year
Ultra Broadband Antenna	Rohde & Schwarz	HL-562	100110	June.15,2011	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100196	Oct.11,2011	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100197	Oct.11,2011	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
Power Meter	Rohde & Schwarz	NRVD	100041	Feb.20,2012	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb.20,2012	1 Year
Coaxial Cable with N-connectors	SCHWARZBECK	AK9515H	95549	Sep.22,2011	1 Year
Radio Communication Test Set	Rohde & Schwarz	CMS 54	846621/024	Feb.20,2012	1 Year
Modulation Analyzer	Hewlett-Packard	8901B	2303A00362	Feb.20,2012	1 Year
Absorbing clamp	Rohde & Schwarz	MDS-21	N/A	Oct.11,2011	1 Year

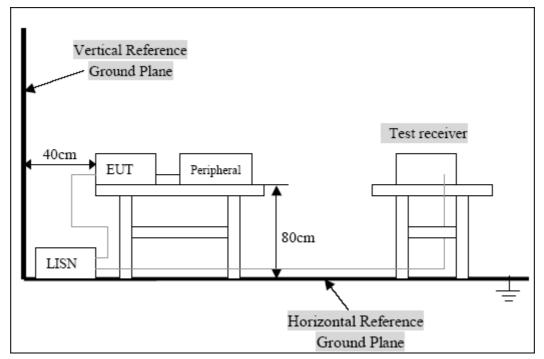
6. CONDUCTED EMISSION TEST

6.1. Block Diagram of Test Setup

6.1.1.Block Diagram of connection between the EUT and the simulators



6.1.2.Test Setup Diagram



6.2. Test Standard

FCC Part 15 CLASS B ANSI C63.4-2003

6.3. Conducted Emission Limit(Class B)

Frequency	Limits dB(µV)		
MHz	Quasi-peak Level Average Level		
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*	
0.50 ~ 5.00	56	46	
5.00 ~ 30.00	60	50	

Notes: 1. *Decreasing linearly with logarithm of frequency.

6.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC Part 15 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

6.4.1.EUT Information

Model Number: BT-USB-M2 Serial Number: N/A

6.5. Operating Condition of EUT

6.5.1.Setup the EUT and simulators as shown in Section 6.1.

6.5.2.Turn on the power of all equipments.

6.5.3.Let the EUT work in test mode (Connect to PC) and test it.

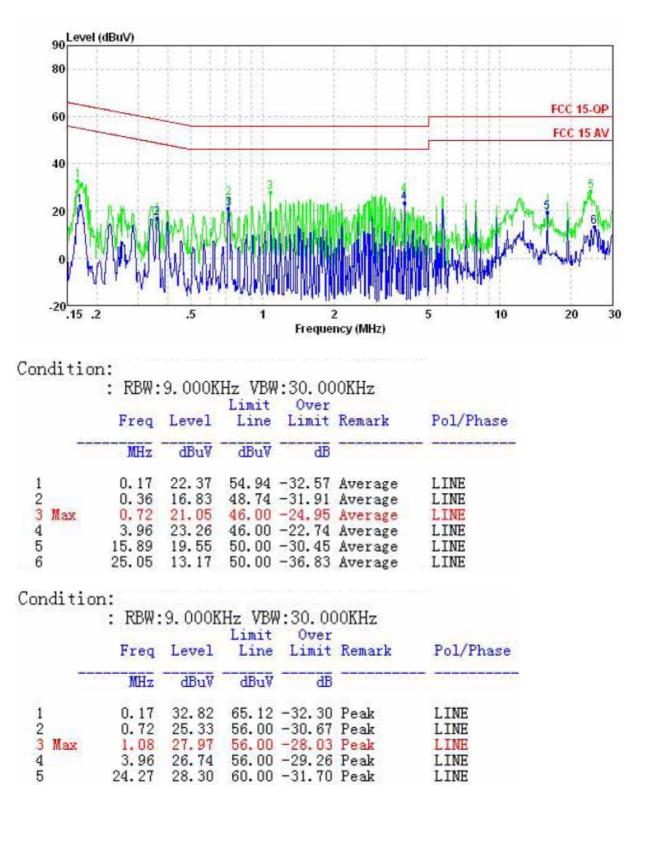
6.6. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

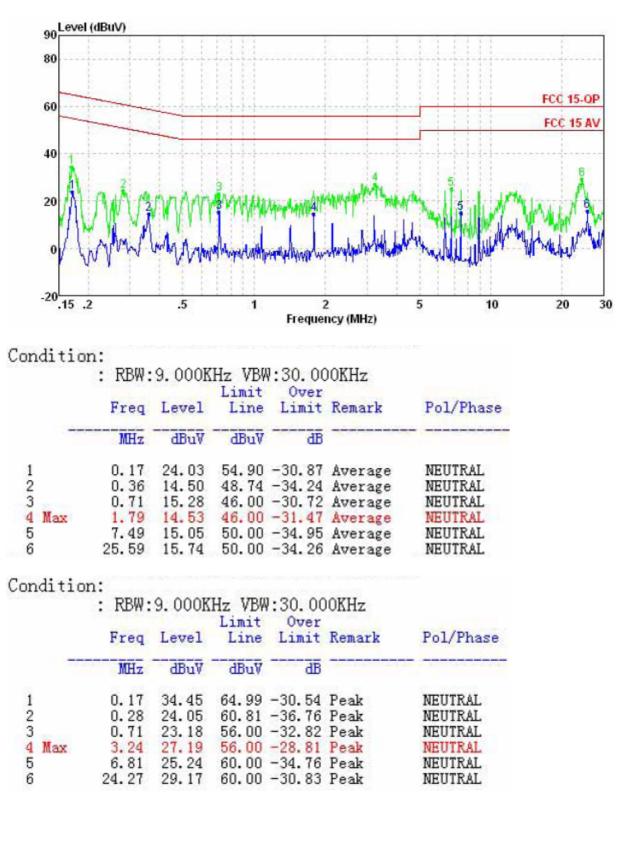
6.7. Test Result

Pass

L Line



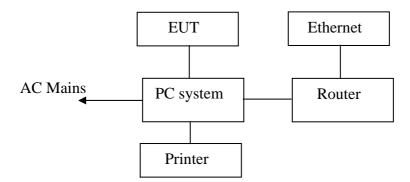
N Line 90 Level (dBuV)



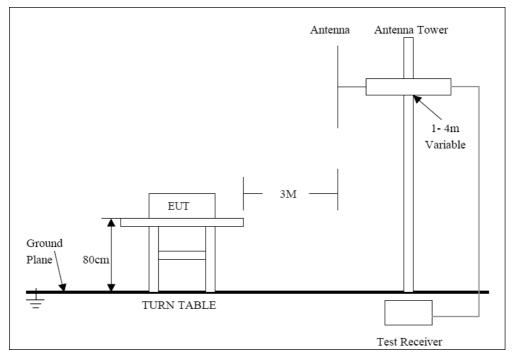
7. RADIATED EMISSION MEASUREMENT

7.1. Block Diagram of EUT Configuration

7.1.1.Block Diagram of connection between the EUT and the simulators



7.1.2.Semi-anechoic Chamber Test Setup Diagram



7.2. Test Standard

FCC Part 15 CLASS B ANSI C63.4-2003

FREQUENCY DISTANCE		FIELD STRENGTHS LIMITS
(MHz)	(Meters)	(dBµV/m)
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
Above 1000	3	54.0

7.3. Radiated Emission Limit(Class B)

Note:(1) The smaller limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or system.

7.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Measurement to meet the Commission requirements and operating regulations in a manner which tends to maximize Its emission characteristics in normal application.

7.5. Operating Condition of EUT

7.5.1.Setup the EUT as shown on Section 7.1

7.5.2.Turn on the power of all equipments.

7.5.3.Let the EUT work in test mode (Connect to PC) and measure it.

7.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Calibrated Loop antenna is used as receiving antenna for frequencies below 30MHz, Calibrated Bilog antenna is used as receiving antenna for frequencies between 30 MHz and 1 GHz, Calibrated Horn antenna is used as receiving antenna for antenna for frequencies above 1000MHz. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Peak detector and Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector. The frequency range from 9kHz to 1000MHz is checked.All the test results are listed in Section 7.7.

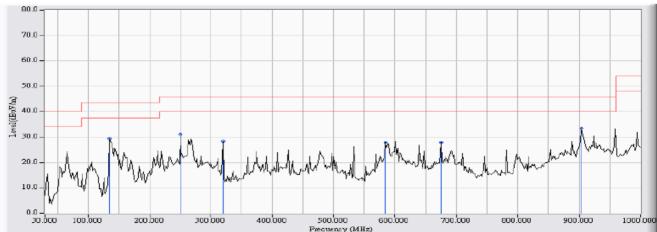
7.7. Test Result

PASS

The frequency range from 9kHz to 1GHz is checked. The measurements greater than 20dB below the limit are not report.

The final measurement in band 9-90kHz, 110-490kHz is performed with Peak detector and Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

Horizontal polarization



		Frequency	Frequency Correct Factor		Reading Level Measure Level		Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		135.083	-15.744	45.086	29.342	-14.158	43.500	Quasi-Peak
2		249.867	-13.345	44.382	31.037	-14.963	46.000	Quasi-Peak
3		319.383	-10.873	39.261	28.388	-17.612	46.000	Quasi-Peak
4		584.517	-5.455	33.292	27.836	-18.164	46.000	Quasi-Peak
5		675.050	-3.408	31.351	27.944	-18.056	46.000	Quasi-Peak
6	*	904.617	-1.247	34.643	33.396	-12.604	46.000	Quasi-Peak

