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: V36BT-USB-M2

May 18, 2012

This Report Concerns: Equipment Type:

Original Report USB Bluetooth Dongle

Test Engineer: Eric Li

Report No.: BST12050200Y-1E-3-2

Receive EUT Date/Test Date: April 17, 2012/ April 18-23, 2012

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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 SinTek Laboratory Co.,Ltd.

(FCC Registered Test Site Number: 963441) on

No.7, Xinshidai Industrial, Guantian Village, Shiyan Town, Baoan District, Shenzhen,

Guangdong 518108, 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 : Blupont Limited

Address 713 RM, 206 East, Tairan 4 Road, CheGongMiao Industrial Park,

Futian District, ShenZhen, China

Manufacturer : Blupont Limited

Address 713 RM, 206 East, Tairan 4 Road, CheGongMiao Industrial Park,

Futian District, ShenZhen, China

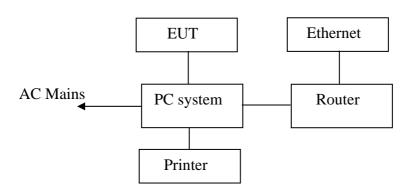
EUT Description : USB Bluetooth Dongle

Trade Name : N/A

Model Number : BT-USB-M2

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	ST-PC-002	569787506	DeLUX	
Printer	HP930C	N/A	HP	
Router	TL-R402M	07115200391	TP-LINK	

2.4. Test Conditions

Temperature: 20~25

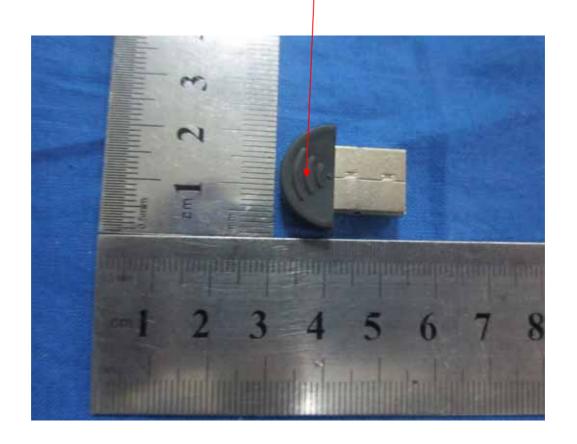
Relative Humidity: 50~63 %

3. FCC ID LABEL

FCC ID: V36BT-USB-M2

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.

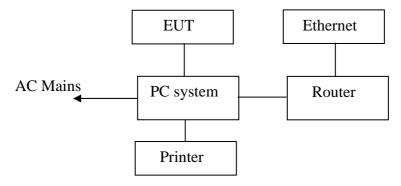
5. TEST EQUIPMENT USED

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

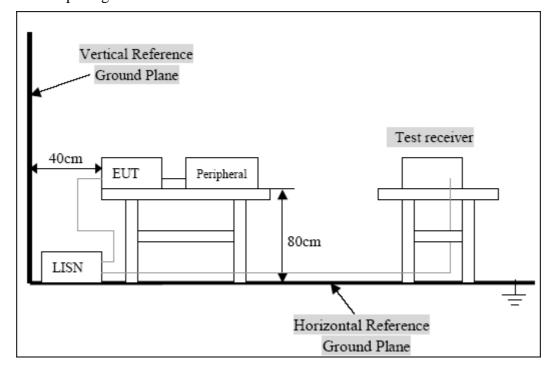
6. CONDUCTED EMISSION TEST

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

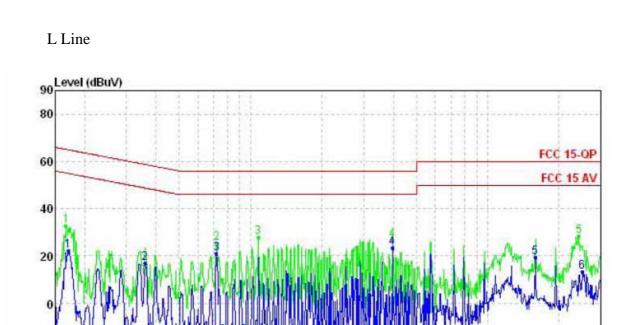
- 6.5.1. Setup the EUT and simulators as shown in Section 6.1.
- 6.5.2. Turn on the power of all equipments.
- 6.5.3.Let the EUT work in test mode (Connect to PC) and test it.

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



Frequency (MHz)

10

20

30

Condition:

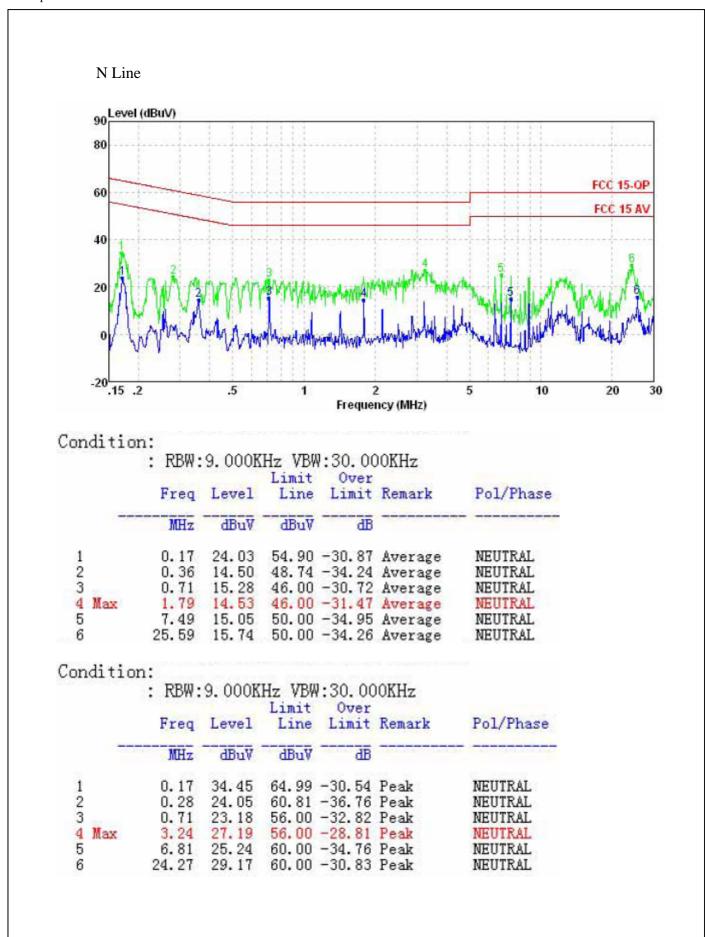
: RBW:9.000KHz VBW:30.000KHz

		Freq	Level	Limit	Limit	Remark	Pol/Phase
	-	MHz	dBu₹	dBu₹	dB		
1		0.17	22.37	54.94	-32.57	Average	LINE
2		0.36	16.83	48.74	-31.91	Average	LINE
3	Max	0.72	21.05			Average	LINE
4		3.96	23.26	46.00	-22.74	Average	LINE
5		15.89	19.55	50.00	-30.45	Average	LINE
6		25, 05	13, 17	50, 00	-36.83	Average	LINE

Condition:

: RBW:9.000KHz VBW:30.000KHz

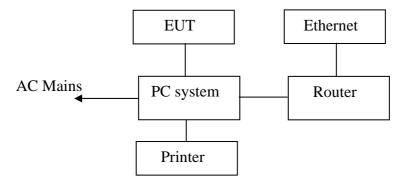
		Freq	Level	Limit	Over Limit	Remark	Pol/Phase
	7000	MHz	dBu₹	dBu∜	₫B	- W///////// -	
1 2		0.17 0.72			-32.30 -30.67		LINE LINE
345	Max			56.00 56.00	-28.03	Peak Peak	LINE LINE LINE



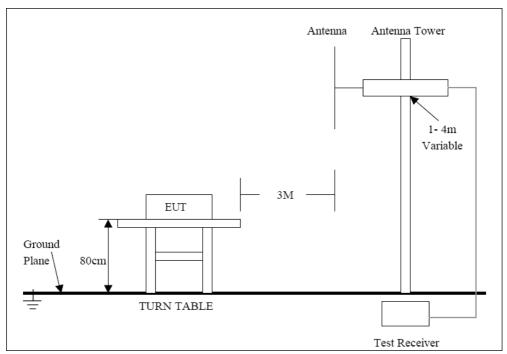
7. RADIATED EMISSION MEASUREMENT

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

7.3. Radiated Emi	ssion Limit	(Class	B)
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FREQUENCY	DISTANCE	FIELD STRENGTHS LIMITS
(MHz)	(Meters)	$(dB\mu V/m)$
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
Above 1000	3	54.0

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 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.

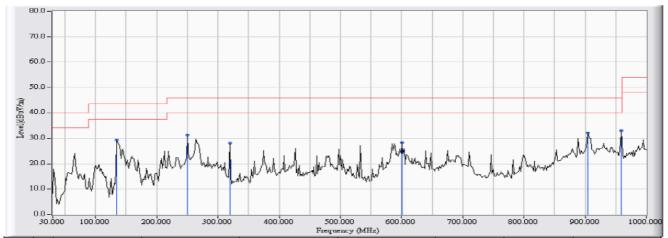
7.7. Test Result

PASS

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

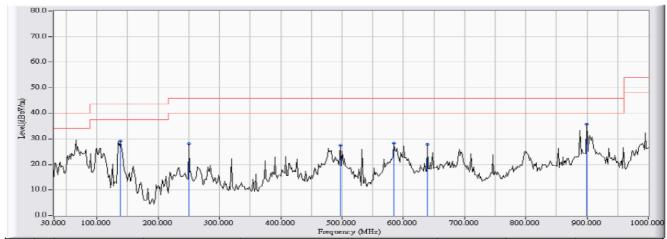
The final measurement in band 9-90kHz, 110-490kHz is performed with Peak detector and Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

Horizontal polarization



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		135.083	-11.868	41.343	29.475	-14.025	43.500	Quasi-Peak
2		249.867	-14.145	45.554	31.409	-14.591	46.000	Quasi-Peak
3		319.383	-13.395	41.405	28.010	-17.990	46.000	Quasi-Peak
4		600.683	-3.087	31.438	28.351	-17.649	46.000	Quasi-Peak
5		904.617	-3.344	35.442	32.098	-13.902	46.000	Quasi-Peak
6	*	959.583	-5.055	38.118	33.063	-12.937	46.000	Quasi-Peak

Vertical polarization



		Frequency	Correct Factor	Reading Level	Measure Level	Margin	Limit	Detector Type
		(MHz)	(dB)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	
1		138.317	-12.428	41.607	29.180	-14.320	43.500	Quasi-Peak
2		249.867	-14.145	42.328	28.183	-17.817	46.000	Quasi-Peak
3		497.217	-6.414	33.836	27.422	-18.578	46.000	Quasi-Peak
4		584.517	-6.303	34.701	28.397	-17.603	46.000	Quasi-Peak
5		639.483	-3.705	31.645	27.940	-18.060	46.000	Quasi-Peak
6	*	899.767	-3.980	39.745	35.765	-10.235	46.000	Quasi-Peak