FCC PART 15.109

MEASUREMENT AND TEST REPORT

For

EUT Name: Wireless Remote Control

Item No.: WXD-189RX FCC ID: XBYWXD189RX

Serial No.: Not supplied by client



Prepared for : Shenzhen Fudasi Technology Co., Ltd.

B Building, Shengde Industrial Park, DaLang, Longhua Town,

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 Report Number
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 Dec. 14-16, 2009

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TEST REPORT DECLARATION

Applicant : Shenzhen Fudasi Technology Co., Ltd.

Manufacturer : Shenzhen Fudasi Technology Co., Ltd.

EUT Description : Wireless Remote Control

Model No. : WXD-189RX

The device described above is tested by SEM. Test Compliance Service Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B limits for both radiation and conduction emissions.

The measurement results are contained in this test report and Shenzhen Toby Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Toby Technology Co., Ltd.

Reported by:	Sacry Wong	Date:	Dec. 16, 2009
	(Jacky Wang)		
Reviewer: _	Benny Xu (Benny Xu)	Date:	Dec. 17, 2009
Approved by: _	(Justin Zhang)	Date:	Dec. 18, 2009

1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Shenzhen Fudasi Technology Co., Ltd.

Address of applicant: B Building, Shengde Industrial Park, DaLang, Longhua Town, Baoan

District, Shenzhen City, China

Manufacturer: Shenzhen Fudasi Technology Co., Ltd.

Address of manufacturer: B Building, Shengde Industrial Park, DaLang, Longhua Town, Baoan

District, Shenzhen City, China

General Description of E.U.T

Items	Description
items	Description

EUT Description: Wireless Remote Control

Trade Name: /

Model No.: WXD-189RX

Rated Voltage: DC 3V Batteries

Frequency Range: 433.92MHz

Tape of Antenna: Internal Antenna

Size: 6.0cm x 3.8cm x 2.8cm

For more information refer to the circuit diagram form and the user's manual.

The test data is gathered from a production sample, provided by the manufacturer.

1.2. Test Standards

The following report is prepared on behalf of the Shenzhen Fudasi Technology Co.,Ltd. in accordance with Part 2, Subpart J, and Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart B, and section 15.205, 15.107, and 15.109 rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

1.3. Related Submittal(s)/Grant(s)

No Related Submittal(s).

1.4. Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible immunity level. Test is carried with playing mode which worst case has been showed. Test setup was adapted accordingly in reference to the Operating Instructions.

1.5. Accessories Equipment List and Details

Manufacturer	Description	Model	Serial Number	
IBM	Notebook	T22	LV14893	
TP-LINK Modem	/	TM-EC5658V	KT99CTQC-508	
Lenovo	Printer	3110	OD65133711480	

1.6. EUT Cable List and Details

Cable Description	Length (M)	Shielded/ Unshielded	With Core/ Without Core
/	/	/	/

1.7. Test Location

FCC – Registration No.: 994117

SEM.Test Compliance Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 994117. SEM. Test Compliance Service Co., Ltd. Lab.

TOBY Tel: +86 0755 2804 5093 Fax: +86 0755 518055

2. SUMMARY OF TEST RESULTS

DESCRIPTION OF TEST	RESULT
§15.109(a) Radiated Emission	Compliant

3. §15.109(a) - RADIATED EMISSION

3.1. Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement is + 3.0 dB.

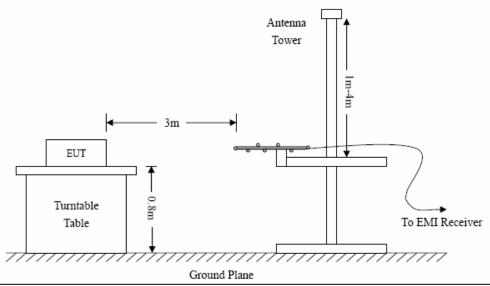
3.2. Test Equipment List and Details

Description Manufacturer		Model No.	Serial No.	Cal. Date	Cal. Date
Spectrum Analyzer	ROHDE & SCHWARZ	FSEA20	DE25181	2009-08-12	2010-08-11
Positioning Controller	C&C	CC-C-1F	N/A	2009-08-12	2010-08-11
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2009-07-21	2010-07-20
Horn Antenna	SCHWARZBECK	BBHX 9120	9120-426	2009-07-21	2010-07-20
RF Switch	EM	EMSW18	SW060023	2009-08-12	2010-08-11
Amplifier	Agilent	8447F	3113A06717	2009-08-12	2010-08-11
Coaxial Cable	SCHWARZBECK	AK9513	9513-10	2009-08-12	2010-08-11
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	25498514	2009-08-12	2010-08-11

3.3. Test Procedure

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.205 and FCC Part 15.109 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



3.4. Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit for Class B. The equation for margin calculation is as follows:

3.5. Environmental Conditions

Temperature:	20° C
Relative Humidity:	54 %
ATM Pressure:	1015 mbar

3.6. Test Receiver Setup

According to the data in section 4.6, the EUT complied with the FCC 15 Class B standards, and had the worst margin is:

-6.41 dBμV at 315.8601 MHz in the Horizontal polarization, 30 MHz to 1 GHz, 3Meters

Plot of Radiation Emissions Test Data

Radiated Disturbance

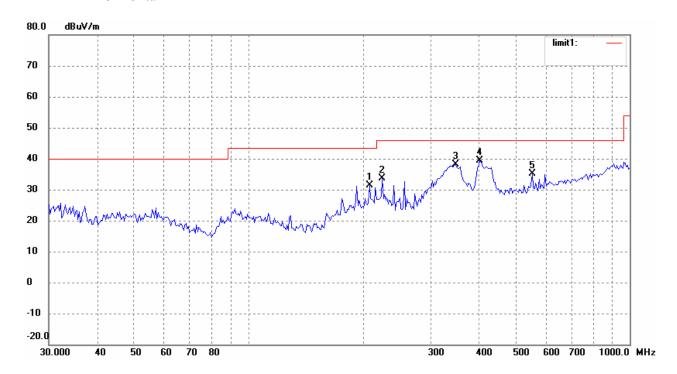
EUT: Wireless Remote Control

M/N: WXD-189RX Operating Condition: ON

Test Specification: Horizontal & Vertical

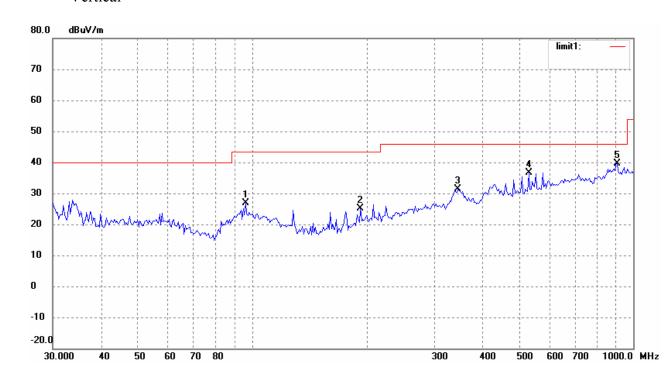
Comment: DC 3V

Horizontal



No.	Frequency	Reading	Correct	Dutycycle	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/	Factor	Factor	(dBuV/	(dBuV	(dB)	(°)	(cm)	
		m)	(dB)	(dB)	m)	m)				
1	207.8500	24.23	7.20	N/A	31.43	43.50	-12.07	140	100	peak
2	224.5192	25.74	7.95	N/A	33.69	46.00	-12.31	155	100	peak
3	349.2500	26.20	11.85	N/A	38.05	46.00	-7.95	250	100	peak
4	404.6664	27.24	12.14	N/A	39.38	46.00	-6.62	38	100	peak
5	554.8253	20.08	15.13	N/A	35.21	46.00	-10.79	50	100	peak

Vertical



No.	Frequency	Reading	Correct	Dutycycle	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/	Factor	Factor	(dBuV/	(dBuV	(dB)	(°)	(cm)	
		m)	(dB)	(dB)	m)	m)				
1	96.0986	18.71	8.14	N/A	26.85	43.50	-16.65	85	100	peak
2	192.4185	18.20	6.84	N/A	25.04	43.50	-18.46	114	100	peak
3	346.8901	19.70	11.78	N/A	31.48	46.00	-14.52	156	100	peak
4	531.9634	21.94	14.70	N/A	36.64	46.00	-9.36	173	100	peak
5	906.4823	18.84	20.75	N/A	39.59	46.00	-6.41	47	100	peak