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F C C -

TEST REPORT

REPORT NO.: 50808-1

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FCC – Test Report

FCC listed testlab
acc. to Section 2.948 of the FCC - Rules

in compliance with the requirements of
ANSI C63.4 - 2003

Product	:	Music Box DVD with Radio & Cassette Player
Product Class	:	Low Power Communication Device Transmitter
Brand Name	:	-
Model	:	2312B
Applicant	:	BRILLIANT RICH ELECTRONICS LTD
FCC ID No.	:	T4G2312B

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LABORATORY - REPORT

APPLICANT: BRILLIANT RICH ELECTRONICS LTD

ADDRESS: Flat I, 2/F, Universal Industrial Centre
19-21 Shan Mei Street
Fo Tan, Shatin, N.T.
Hong Kong

DATE OF SAMPLE RECEIVED: 2008-07-28

DATE OF TESTING: 2008-09-16 to 2008-09-23

DESCRIPTION OF SAMPLE:

Product:	Music Box DVD with Radio & Cassette Player (With wireless microphone - frequency setting : 94.8 MHz)
Product class:	Low Power Communication Device Transmitter (for wireless microphone)
Model number:	2312B
FCC ID number:	T4G2312B
Rating:	DC 9V (6F22 size battery x 1) for wireless microphone

CONDITION OF TEST SAMPLE: The received sample was under good condition.

INVESTIGATIONS REQUESTED: For wireless microphone only :
Measurements to the relevant clauses of F.C.C. Rules and Regulations Part 15 Subpart C – Intentional Radiators

RESULTS: See the attached sheets.

CONCLUSIONS: From the measurement data obtained, the tested sample (wireless microphone only) was considered to have COMPLIED with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

INTERNATIONAL ELECTRICAL CERTIFICATION CENTRE LTD. IECC 國際電器認證中心有限公司

Stephen C.N. Wong
Technical Manager

Test Location

International Electrical Certification Centre Ltd.
Unit 602-605, 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong
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Email : info@iecc.com.hk

Summary of Test Results

Radiated Emission:

Test result: O.K.
Test data: See attached data sheet

Conducted Emission:

Test result: Not Applicable
Test data: Not Applicable

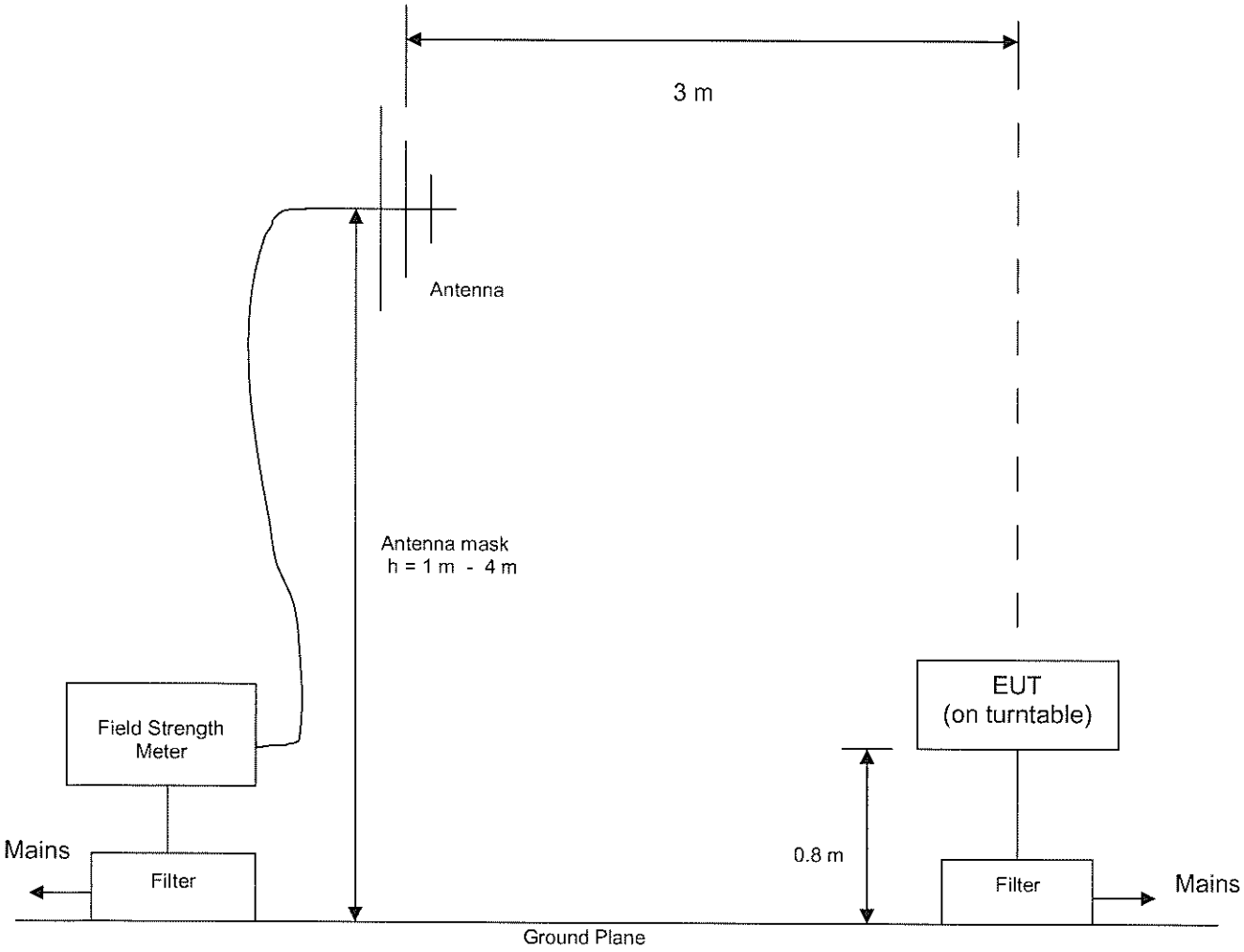
Measurement of Emissions within Band Edges

Test result: O.K.
Test data: See attached data sheet

TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Last Calibration Date	Next Calibration Date
Test Receiver	Rohde & Schwarz	ESCS 30	100388	26/8/2008	25/8/2009
Antenna	Schaffner	CBL6111C	2791	22/07/2008	21/07/2010
Antenna Mast System	Schwarzbeck	AM9104	--	--	--
Turntable with Controller	Drehtisch	DT312	--	--	--

Radiated Emission Test Setup (3 m diatance) (> 30MHz)



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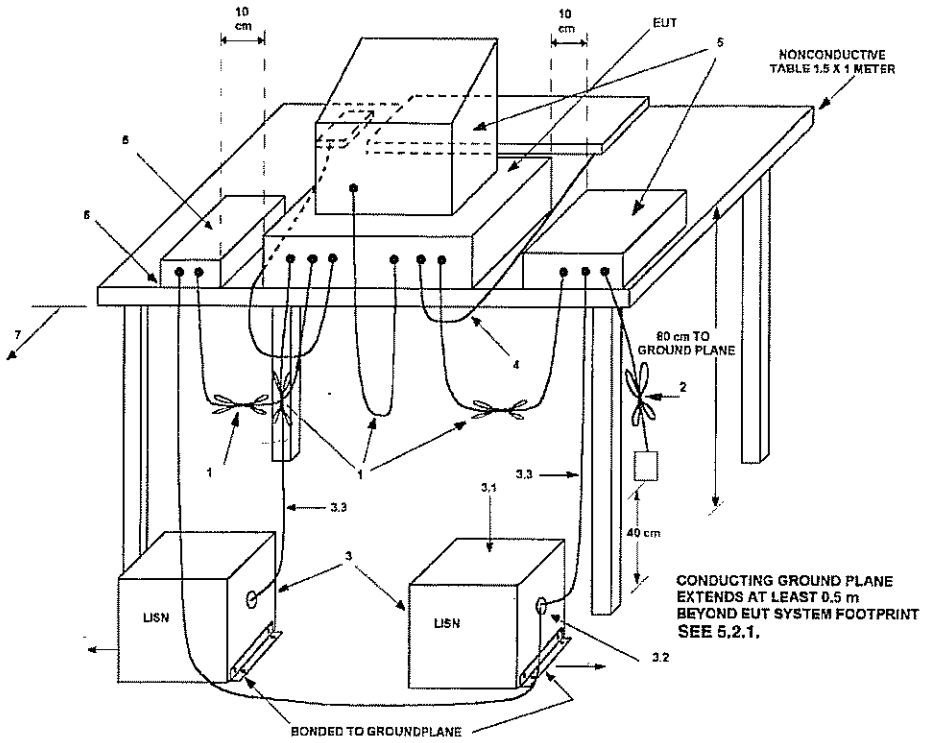
Conducted Emission Test Setup



LEGEND:

1) Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long (see 6.1.4 and 11.2.4).
2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m (see 6.1.4).
3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, reference groundplane (see 5.2.3 and 7.2.1).
   3.1) All other equipment powered from additional LISN(s).
   3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
   3.3) LISN at least 80 cm from nearest part of EUT chassis.
4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use (See 6.2.1.3 and 11.2.4).
5) Non-EUT components of EUT system being tested (see also Figure 13).
6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.1.1 and 6.2.1.2).
7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the groundplane (see 5.2.2 for options).

Test Procedure

Radiated Emission :

The EUT (wireless microphone) was tested according to ANSI 63.4-2003 for the requirements of FCC Part 15 Subpart C Section 15.209 and 15.239.

During the test, the sample was placed on a turn table and operated with new battery. The table is 0.8 meter above the reference ground plane on the Open Aera Test Site and can rotate 360 degrees to determine the position of the maximum emission level. A broad-band antenna for the frequency range 30 - 1000 MHz, connected with 10 meters coaxial cable to the test receiver was used for measurement. The antenna is capable of measuring both horizontal and vertical polarizations. The antenna was raised from 1 to 4 meters to find out the maximum emission level from the EUT.

An initial pre-scan was performed to find out the maximum emission level of the sample placed at 3 orthogonal planes. Final measurement (30 MHz –1000 MHz) was then performed to record the data for the emissions under worst-case condition for combination of the antenna orientation / height and turn table position.

Note : The Open Aera Test Site located at IECC was placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules (FCC Registration No. : 97774).

Conducted Emission :

Not applicable

Test Results

Radiated Emission :

(1) For FM Transmission mode :

Test Requirement:	FCC Part 15 Subpart C Section 15.209 and 15.239
Test Method:	ANSI C63.4 : 2003
Deviations from Standard Test Method:	Nil
Frequency Range:	30MHz – 1000MHz
Measurement Distance:	3 m
Detector:	Peak / Average (for fundamental frequency) Quasi-Peak (for frequencies outside the operation band)

Refer to page 11 for measurement data.

Band Edges Plot :

Refer to page 12

Interference Radiation

Date : 2008-09-23

Measurement of Radiated Emissions
Acc: FCC Part 15 Subpart C (15.239 & 15.209)

IECC Ref: 50808-1
Model: 2312B
Applicant: BRILLIANT RICH ELECTRONICS LTD

Ser.Nr.: --

Set under test: Music Box DVD with Radio & Cassette Player
Connected sets: -
Operating mode: Operate (wireless microphone)

Test Equipment
Receiver: Rohde & Schwarz ESCS 30
Antenna: Schaffner CBL6111C

Transmission frequency : 94.8 MHz

	Frequency (MHz)	Horz. Reading dB(μV)	Vert. Reading dB(μV)	Corr. Factor (dB)	Horiz. Test Result dB(μV/m)	Vert. Test Result dB(μV/m)	Limit dB(μV/m)
Peak	94.8	39	36	9.1	48.1	45.1	68.0
Av.	94.8	36	34	9.1	45.1	43.1	48.0
	30	< 16	< 16	19.1	< 35.1	< 35.1	40.0
	100	< 16	< 16	9.5	< 25.5	< 25.5	43.5
	189.6	17	< 16	9.2	26.2	< 25.2	43.5
	284.5	22	< 16	14.5	36.5	< 30.5	46.0
	379.4	25	< 16	15.7	40.7	< 31.7	46.0
	400	< 16	< 16	16.7	< 32.7	< 32.7	46.0
	500	< 16	< 16	18.9	< 34.9	< 34.9	46.0
	700	< 16	< 16	22.3	< 38.3	< 38.3	46.0
	1000	< 16	< 16	26.2	< 42.2	< 42.2	54.0

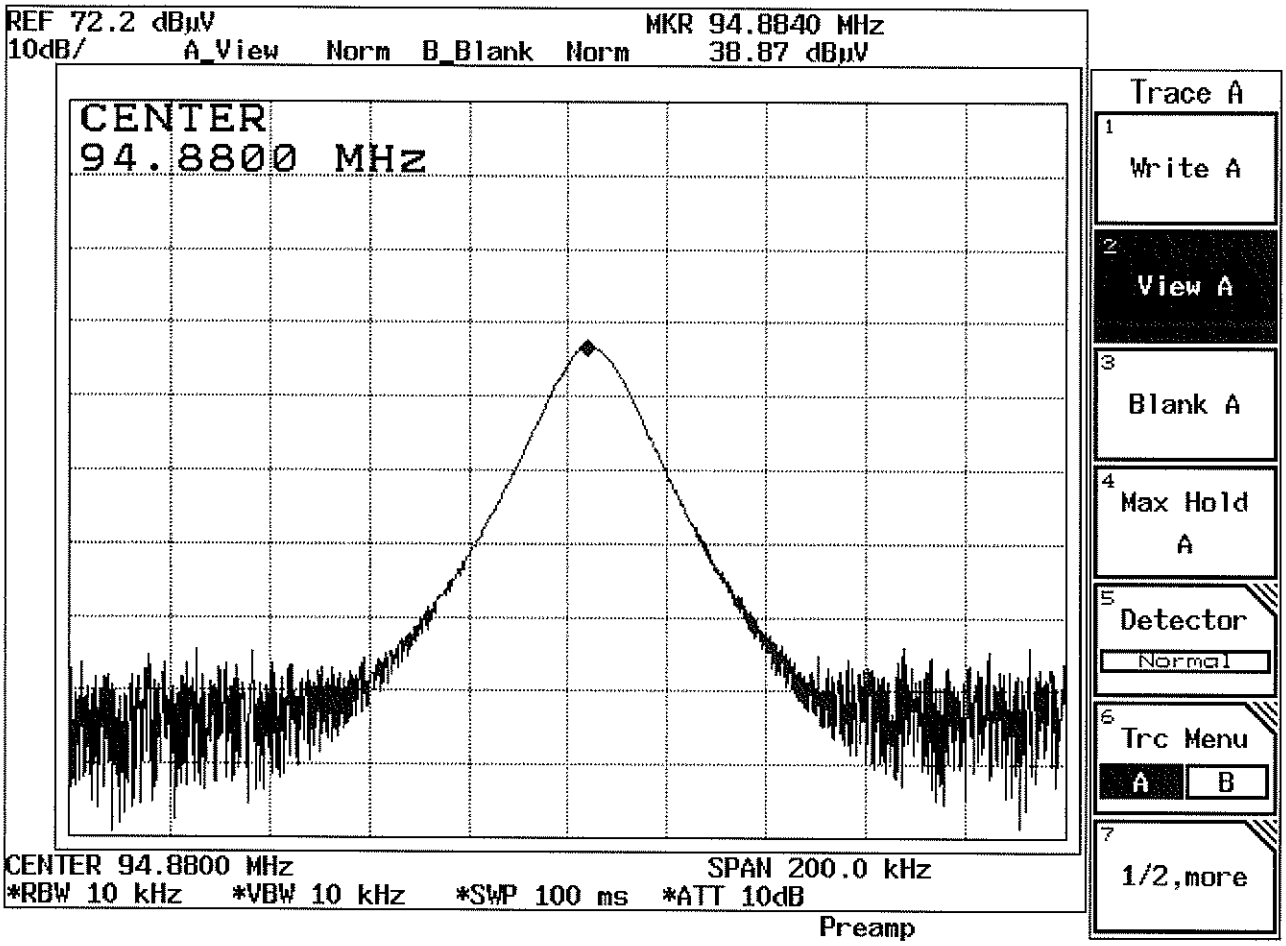
Note : 1. Unless otherwise indicated, the recorded readings are in quasi-peak values.
2. The above results were the worst case results with the sample placed vertically on the table during vertical antenna measurement and placed horizontally on the table during horizontal antenna measurement.
3. Due to the transmitted signal is not in pulse waveform, the average value of the radiation at the fundamental frequency is recorded by direct measurement. Calculation from time domain plots is not applicable.

Operator : KT

FCC – Test Report

Measurement Data of Emissions within Band Edges

Operation Frequency : 94.8 MHz



Result : The field strength of any emission within the operation band did not exceed 68 dB(µV/m) for average value or 48 dB(µV/m) for peak value. Refer to page 11for the recorded value for the emission at the fundamental frequency.

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Photo of Sample

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