



TEST REPORT

Report No. : AG005969-001 Date : 2006 March 28

Application No. : LG203342(3)

Applicant : Brilliant Rich Electronics Ltd.
Flat 1, 2/F., Universal Industrial Centre,
19-21 Shan Mei Street, Fo Tan, Shatin,
N. T., Hong Kong.

Sample Description : One(1) submitted sample(s) stated to be Dynamo Radio
of Model No. 3339
Rating : 2 x 1.5V AA size batteries
2.4V Ni-CD rechargeable battery
AC 120V to DC 3V adaptor
No. of submitted sample : Two (2) piece(s) ***

Date Received : 2006 March 14

Test Period : 2006 March 14 - 2006 March 28

Test Requested : FCC Part 15 Certification.

Test Method : 47 CFR Part 15 (10-1-05 Edition)
ANSI C63.4 – 2003

Test Result : See attached sheet(s) from page 2 to 12.

Conclusion : The submitted sample was found to comply with requirement of FCC Part 15
Subpart C.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____

Danny Chui
EMC Engineer - EL. Division

FCC ID: T4G3339

Page 1 of 12



TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

Table of Contents

1	General Information.....	3
1.1	General Description	3
1.2	Location of the test site	4
1.3	List of measuring equipment.....	5
2	Description of the radiated emission test	6
2.1	Test Procedure	6
2.2	Test Result	6
2.3	Radiated Emission Measurement Data	7
3	Description of the Line-conducted Test.....	9
3.1	Test Procedure	9
3.2	Test Result	9
3.3	Graph and Table of Conducted Emission Measurement Data	9
4	Photograph.....	10
4.1	Photographs of the Test Setup for Radiated Emission and Conduction Emission.....	10
4.2	Photographs of the External and Internal Configurations of the EUT.....	10
5	Supplementary document.....	11
5.1	Bandwidth	11
5.2	Duty cycle	11
5.3	Transmission time	11
6	Appendices.....	12



TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

Test Result :

1 General Information

1.1 General Description

The equipment under test (EUT) is power by DC 3V, DC2.4V built-in rechargeable battery and dynamo power. The EUT is AM/FM and Weather Band Receiver.

The brief circuit description is listed as follows:

D1, D2, D5, D6, M1 and associated circuit acts dynamo charge the built-in rechargeable battery

IC1 (KA22426D), CF1 (10.7MHz), CF2 (10.7 MHz) and associated circuit acts for AM/FM/WB radio

The brief circuit description is saved with filename: OpDes.pdf



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TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

Test Result :

1.2 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
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Hong Kong.



TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

Test Result :

1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.
EMI Test Receiver	R&S	ESCI	100152
EMI Test Receiver	R&S	ESCS30	100001
Broadband Antenna	Schaffner	CBL6112B	2692
Signal Generator	IFR	2023B	202302/938
LISN	R&S	ESH3-Z5	100038
LISN	R&S	ESH3-Z5	100010
Loop Antenna	EMCO	6502	00056620

Support Equipment Adaptor: NA-12 (supplied by CMA)



TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

Test Result :

2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

2.2 Test Result

The harmonic emissions meeting the requirement of section 15.109 are based on measurements employing the CISPR quasi-peak detector.

It was found that the EUT meet the FCC requirement.



TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

Test Result :

2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Mode: WB

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dB μ V/m)	Antenna and Cable factor (dB)	Field Strength (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
145.346	H	23.7	10.4	34.1	43.5	-9.4
150.975	H	24.1	10.4	34.5	43.5	-9.0
167.244	H	27.6	9.2	36.8	43.5	-6.7
182.772	H	25.0	9.7	34.7	43.5	-8.8
187.448	H	25.2	9.7	34.9	43.5	-8.6
301.930	H	9.9	17.7	27.6	43.5	-18.4
334.472	H	10.6	17.7	28.3	46.0	-17.7
365.544	H	7.0	17.7	24.7	46.0	-21.3
374.890	H	6.4	17.7	24.1	46.0	-21.9
436.028	H	15.8	19.2	35.0	46.0	-11.0



TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

Test Result :

2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15 subpart C

Mode: FM

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dB μ V/m)	Antenna and Cable factor (dB)	Field Strength (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
97.564	H	19.8	11.0	30.8	43.5	-12.7
109.830	H	20.9	12.4	33.3	43.5	-10.2
118.507	H	27.6	12.4	40.0	43.5	-3.5
219.633	H	4.5	13.9	18.4	46.0	-27.6
237.002	H	5.5	13.9	19.4	46.0	-26.6
292.669	H	18.3	14.9	33.2	46.0	-12.8
329.475	H	19.4	17.7	37.1	46.0	-8.9
355.498	H	13.9	17.7	31.6	46.0	-14.4
439.295	H	5.7	19.2	24.9	46.0	-21.1
795.115	H	5.9	22.5	28.4	46.0	-17.6



TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

Test Result :

3 Description of the Line-conducted Test

3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The result showed that the EUT met the FCC requirement. The measurement data was indicated in Appendix

3.3 Graph and Table of Conducted Emission Measurement Data

For electronic filing, the document are saved with filename TestRpt2.pdf



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TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

Test Result :

4 Photograph

4.1 Photographs of the Test Setup for Radiated Emission and Conduction Emission

For electronic filing, the photos are saved with filename TSup1.jpg to TSup5.jpg.

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename ExPho1.jpg to ExPho2.jpg and InPho1.jpg to InPho2.jpg.



TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

Test Result :

5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename
ID Label/Location	LabelSmp.jpg
Block Diagram	BlkDia.pdf
Schematic Diagram	Schem.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf

5.1 Bandwidth

N/A

5.2 Duty cycle

N/A

5.3 Transmission time

N/A



TEST REPORT

Report No. : AG005969-001

Date : 2006 March 28

6 Appendices

A1.	Photos of the set-up of Radiated Emissions	2	pages
A2.	Photos of the set-up of Conducted Emissions	3	pages
A3.	Photos of External Configurations	2	pages
A4.	Photos of Internal Configurations	2	pages
A5.	ID Label/Location	1	page
A6.	Conducted Emission Test Result	2	pages
A7.	Block Diagram	1	page
A8.	Schematics Diagram	1	page
A9.	User Manual	1	page
A10.	Operation Description	1	page

***** End of Report *****