



TEST REPORT

Report No. : AD010663-1

Date : 2003 July 28

Applicant : iLike Electronics Co., Ltd.
Unit 1209, 12/F., Siu Wai Industrial Centre,
29-33 Wing Hong Street, Kowloon, Hong Kong.

Sample Description : One(1) submitted sample stated to be FM Wireless Microphone
of Model No. PRO-388.

Rating : 1 x 1.5 V AA size battery
No. of sample(s) : Three(3) pieces ***

Date Received : 2003 June 11.

Test Period : 2003 June 11 – 2003 June 18.
2003 July 12 – 2003 July 27.

Test Requested : FCC Part 15 Certification

Test Method : FCC Rules and Regulations Part 15 – May 2002
ANSI C63.4 – 1992

Test Result : See attached sheet(s) from page 2 to 10.

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

For and on behalf of
CMA Testing and Certification Laboratories

Authorized Signature : 

Danny Chui

EMC Engineer - EL. Division

FCC ID : RCLTXPR0388

Page 1 of 10



TEST REPORT

Report No. : AD010663-1

Date : 2003 July 28

Table of Contents

1	General Information	3
1.1	General Description.....	3
1.2	Related Submittal Grants	3
1.3	Location of the test site.....	4
1.4	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	8
3.1	Test Procedure	8
3.2	Test Result.....	8
3.3	Graph and Table of Conducted Emission Measurement Data	8
4	Photograph	9
4.1	Photographs of the Test Setup for Radiated Emission and Conduction Emission	9
4.2	Photographs of the External and Internal Configurations of the EUT	9
5	Supplementary document	9
5.1	Bandwidth	9
6	Appendices	10



TEST REPORT

Report No. : AD010663-1

Date : 2003 July 28

1 General Information

1.1 General Description

The equipment under test (EUT) is a transmitter for FM Wireless Microphone operating at 100 MHz. The EUT is powered by 1 x 1.5 V AA size battery. There is an ON/OFF switch on the body of the mic. When it switches on, the LED lights up and it transmits signal to the receiver.

The brief circuit description is listed as follows :

- Q2 and associated circuit act as mixer
- Q1 and associated circuit act as amplifier
- Q3, Q4 and associated circuit act as regulator

1.2 Related Submittal Grants

This is a single application for certification of a transmitter. The receiver for this transmitter is authorized by Certification procedure.

FCC ID : RCLTXPR0388

Page 3 of 10



TEST REPORT

Report No. : AD010663-1

Date : 2003 July 28

1.3 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 1992. An Open Area Testing Site is set up for investigation and located at :

Top of the Roof, 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 – 1992. A double shielded room is located at :

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

FCC ID : RCLTXPR0388

Page 4 of 10



TEST REPORT

Report No. : AD010663-1

Date : 2003 July 28

1.4 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Certification No.
EMI Test Receiver	R&S	ESCS30	100001	S21141
Broadband Antenna	Schaffner	CBL6113B	2718	AC1753
Signal Generator	IFR	2023B	202302/938	Nil
LISN	R&S	ESH3-Z5	100038	S21142
Pulse Limiter	R&S	ESH3-Z2	100001	20-73194
Biconical Antenna	R&S	HK116	837414/004	4000.7752.02

FCC ID : RCLTXPR0388

Page 5 of 10

This document shall not be reproduced either in full or in part except with written approval by the Authorized Representative of CMA Testing.
Room 1401-3, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com Web Site: <http://www.cmatcl.com>



TEST REPORT

Report No. : AD010663-1

Date : 2003 July 28

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 – 1992.

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.

The device was rotated through three orthogonal axes to determine which attitude and configuration produce the highest emission during measurement.

2.2 Test Result

Peak Detector data was measured unless otherwise stated.

* Emissions appearing within the restricted bands shall follow the requirement of section 15.205.

It was found that the EUT meet the FCC requirement.

FCC ID : RCLTXPR0388

Page 6 of 10



TEST REPORT

Report No. : AD010663-1

Date : 2003 July 28

2.3 Radiated Emission Measurement Data

Radiated emission
pursuant to
the requirement of FCC Part 15 subpart C

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)
100.097	V	26.2	12.0	38.2	48.0	-9.8
200.426	H	13.1	10.7	23.8	43.5	-19.7
300.652	H	13.2	15.3	28.5	46.0	-17.5
*400.889	H	13.9	18.6	32.5	46.0	-13.5
501.134	H	11.0	20.6	31.6	46.0	-14.4
601.372	H	12.7	22.2	34.9	46.0	-11.1
701.641	H	12.8	22.9	35.7	46.0	-10.3
801.887	H	12.3	24.0	36.3	46.0	-9.7
902.143	H	12.7	25.0	37.7	46.0	-8.3
*1002.443	H	12.2	26.0	38.2	54.0	-15.8

FCC ID : RCLTXPR0388

Page 7 of 10



TEST REPORT

Report No. : AD010663-1

Date : 2003 July 28

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 – 1992. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

No measurement is required as the EUT is a battery-operated product.

3.3 Graph and Table of Conducted Emission Measurement Data

Not Applicable

FCC ID : RCLTXPR0388

Page 8 of 10



TEST REPORT

Report No. : AD010663-1

Date : 2003 July 28

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 TSup2.jpg

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename ExtPho1.jpg to ExtPho2.jpg and IntPho1.jpg to IntPho2.jpg.

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	LabelSmpl.pdf
Block Diagram	BlkDia.pdf
Schematic Diagram	Schem.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf

5.1 Bandwidth

The plot on saved in TestRpt 2.pdf shows the fundamental emission is confined with a band 200 kHz wide lie wholly within the frequency range of 88-108 MHz.

FCC ID : RCLTXPR0388

Page 9 of 10



TEST REPORT

Report No. : AD010663-1

Date : 2003 July 28

6 Appendices

A1.	Photos of the set-up of Radiated Emissions	1 page
A2.	Photos of External Configurations	1 page
A3.	Photos of Internal Configurations	1 page
A4.	ID Label/Location	1 page
A5.	Block Diagram	1 page
A6.	Schematics	1 page
A7.	User Manual	1 page
A8.	Operation Description	1 page
A9.	Bandwidth Plot	1 page

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

FCC ID : RCLTXPR0388

Page 10 of 10