Application for FCC Certification
On behalf of

Hisense Electric Co., Ltd.

Product Name: Remote Control

Model No.: ERF6C11

FCC ID: W9HBRCB0005

(MPE Calculation)

Prepared For : Hisense Electric Co., Ltd.
No.218 Qianwangang Road, Economy & Technology
Development Zone, Qingdao, China

Prepared By : Audix Technology (Shanghai) Co., Ltd.
3F 34Bldg 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai 200233, China

Tel: +86-21-64955500
Fax: +86-21-64955491

Report No. : ACI-F14014
Date of Test : Feb. 12, 2014
Date of Report : Feb. 20, 2014

TABLE OF CONTENTS

Page

1 GENERAL INFORMATION 4
1.1 Description of Equipment Under Test 4
1.2 Description of Test Facility 5
1.3 Measurement Uncertainty 5
2 SUMMARY OF STANDARDS AND RESULTS 6
2.1 Applicable Standard 6
2.2 Specification Limits 6
2.3 MPE Calculation Method 6
2.4 Calculated Result 7

TEST REPORT FOR FCC CERTIFICATE

Applicant : Hisense Electric Co., Ltd.

Manufacturer : Hisense Electric Co., Ltd.

EUT Description : Remote Control

(A) Model No. : ERF6C11,

(B) Power Supply : DC 3V (AA Battery*3)

(C) Test Voltage : DC 3V

Test Procedure Used:

FCC OET Bulletin 65 August 1997

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC OET Bulletin 65.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: ERF6A11, ERF6B11), which was tested on Feb. 12, 2014 is technically compliance with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Feb. 12, 2014 **Date of Report :** Feb. 20, 2014

Producer : Emily Zhu

EMILY ZHU / Assistant

Review : Dio Yang

DIO YANG / Deputy Manager

AUDIX® For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory : Sammy Chen

Authorized Signature EMC SAMMY CHEN / Deputy Manager

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description	:	Remote Control
Model Number	:	ERF6C11
Type of EUT		☑ Production ☐ Pre-product ☐ Pro-type
Radio Tech	:	Bluetooth
Freq. Band	:	2402 MHz ~ 2480 MHz Total 79 Channels
Tested Freq.	:	2402 MHz (Channel 00) 2441 MHz (Channel 39) 2480 MHz (Channel 78)
Antenna Gain	:	-2.0 dBi
Applicant	:	Hisense Electric Co., Ltd. No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China
Manufacturer	:	Hisense Electric Co., Ltd. No.218 Qianwangang Road, Economy & Technology Development Zone, Qingdao, China

1.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber)	: Sept. 17, 1998 file on Mar 16, 2012 Renewed Federal Communications Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, USA
Name of Firm	: Audix Technology (Shanghai) Co., Ltd.
Site Location	: 3 F 34 Bldg 680 Guiping Rd., Caohejing Hi-Tech Park, Shanghai 200233, China
FCC registration Number	: 91789
Accredited by NVLAP, Lab Code	: 200371-0

1.3 Measurement Uncertainty

Output Power Expanded Uncertainty : U = ±1.56 dB

2 SUMMARY OF STANDARDS AND RESULTS

2.1 Applicable Standard

FCC OET Bulletin 65:1997

2.2 Specification Limits

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f2)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

f = frequency in MHz *Plane-wave equivalent power density

NOTE: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The limit value $1.0mW/cm^2$ is available for this EUT.

2.3 MPE Calculation Method

$$S = PG/(4 \pi R^2)$$

$$R = [PG/(4 \pi S)]^{0.5}$$

where: S = power density (in appropriate units, e.g. mW/cm^2)
P = power input to the antenna (in appropriate units, e.g., mW)
(the measured power value see Report: F13102 Section 5.6)
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

2.4 Calculated Result

2.4.1 Radio Frequency Radiation Exposure Evaluation – Non-EDR

Frequency	Output Power to Antenna	Antenna Gain		Power Density	Limit
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm^2)	(mW/cm^2)
2402	0.64	-2.0	0.63	0.000080	1.0
2441	0.64	-2.0	0.63	0.000080	1.0
2480	0.57	-2.0	0.63	0.000071	1.0

Separation distance R= 20cm.

Frequency	Output Power to Antenna	Antenna Gain		Limit	Distance
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm^2)	(cm)
2402	0.64	-2.0	0.63	1.0	0.18
2441	0.64	-2.0	0.63	1.0	0.18
2480	0.57	-2.0	0.63	1.0	0.17

The antenna used for this transmitter must be installed to provide a separation distance of at least 0.18cm from all persons.

2.4.2 Radio Frequency Radiation Exposure Evaluation – EDR

Frequency	Output Power to Antenna	Antenna Gain		Power Density	Limit
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm^2)	(mW/cm^2)
2402	0.79	-2.0	0.63	0.000099	1.0
2441	0.79	-2.0	0.63	0.000099	1.0
2480	0.71	-2.0	0.63	0.000089	1.0

Separation distance R= 20cm.

Frequency	Output Power to Antenna	Antenna Gain		Limit	Distance
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm^2)	(cm)
2402	0.79	-2.0	0.63	1.0	0.20
2441	0.79	-2.0	0.63	1.0	0.20
2480	0.71	-2.0	0.63	1.0	0.19

The antenna used for this transmitter must be installed to provide a separation distance of at least 0.20cm from all persons.