# Application for FCC Certificate On Behalf of Hisense Electric Co., Ltd.

## LED LCD TV

Model No.	Brand		
55H8C	Hisense		
55H8C+			

FCC ID: W9HLCDF0077

Prepared For: Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy & Technology

Development Zone, Qingdao, China

Prepared By: Audix Technology (Shanghai) Co., Ltd.

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Report No.: ACI-F16049A1 Date of Test: Sep 07-08, 2016 Date of Report: Sep 20, 2016

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# TEST REPORT FOR FCC CERTIFICATE

Applicant : Hisense Electric Co., Ltd.

Manufacturer : Hisense Electric Co., Ltd. Factory #1 : Hisense Electric Co., Ltd.

Factory #2 : Tatung Mexico S.A. de C.V.

Factory #3 : HISENSE ELECTRONICA MEXICO, S.A. DE C.V.

EUT Description : LED LCD TV

Model No.	Brand	Power Supply
Refer to Sec.2.1	Hisense	120V/60Hz

#### Test Procedure Used:

Authorized Signature EMC BYRO

## FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2015 AND ANSI C63.4-2014

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 Part 15 Subpart B (Class B) limits both radiated and conducted emissions.

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 shows that the EUT (M/N: Refer to Sec2.1) which was tested in 3m anechoic chamber Sep 07-08, 2016 is technically compliance with the FCC official limits also.

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.

The test results for EUT's TV functions are contained in No.F16048A1, a Verification report.

Date of Test :	Sep 07-08, 2016	Date of Report :	Sep 20, 2016
Producer:	Tina Liang / Assistant	- -	
Audix Technology (Shar	Byron Managari Co., Ltd.	ger	

O / Assistant General Manager

# 1 SUMMARY OF STANDARDS AND RESULTS

# 1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

<b>Description of Test Item</b>	Standard	Limits	Results				
EMISSION							
Conducted Disturbance at the Mains Terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2015 AND ANSI C63.4-2014	15.107(a) Class B	Pass				
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2015 AND ANSI C63.4-2014	15.109(a) Class B	Pass				

## 2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : LED LCD TV

Type of EUT :  $\square$  Production  $\square$  Pre-product  $\square$  Pro-type

Model No : 55H8C, 55H8C+

Note #1 : The above models are all the same except for

model number.55H8C

model is tested and recorded in the report.

Note #2 : "+"represents any of the Arabic numeral.

Brand : Hisense

Note #3 : The modified histories of report are as follows:

Report No.	Model No.	Rev. Summary	Edition No.	Data of Rev.
ACI-F16049	HU55K3300UWG 55H8C,55H8C+	Original Report	0	Mar 04, 2016
ACI-F16049A1	55H8C,55H8C+	1.To change WiFi module, FCC ID: PPQ-WCBN4511R. 2. To update ICES-003 standard.	Rev. A1	Sep 20, 2016

Note #4 : According to the modification, we select the worst

test mode to retest and record in this report.

Applicant : Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy &

Technology Development Zone, Qingdao, China

Manufacturer : Same as Applicant

Factory #1 : Same as Applicant

Factory #2 : Tatung Mexico S.A. de C.V.

Miguel Catalán 420, Parque Industrial Rio Bravo,

Cd. Juarez, Chih., CP 32557

Factory #3 : HISENSE ELECTRONICA MEXICO, S.A. DE C.V.

Blvd. Sharp #3510 Parque Industrial

Rosarito, C.P. 22710 Playas de Rosarito, B.C.

LCD Panel : Manufacturer : Hisense

M/N : HD550DU-B52

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Tuner : Manufacturer : XuGuang Tech. Co. Ltd.

M/N: HFT-96S3/W11FJ2H\ROH

Max Resolution : 3840\*2160@60Hz

HDMI Cable\*4 : Shielded, Detachable, 1.50m

(Lab provide)

Power Cord : Unshielded, Detachable, 1.80m, 2C

LAN Cable : Shielded, Detachable, 1.50m

USB Cable\*3 : Shielded, Detachable, 1.00m, without core

(Lab provide)

MHL to HDMI Adaptor: Manufacture: CE-Link

with RCP (Lab provide) M/N: 3002

#### Remark:

The EUT is a LED LCD TV which input/output ports as follows: Side Port:

(1) One USB3 Port

: Connected with Hard-Disk #3

(2) One HDMI2/ARC Port

: Connected with PC

(3) One HDMI1/MHL Port

: Connected with Smart Mobile Phone

(4) One Audio out Port

: Connected with Earphone#1

(5) One Service Port

: This port does not open to customer

(6) One USB1 Port

: Connected with Hard-Disk #1

(7) One USB2 Port

: Connected with Hard-Disk #2

(8) One ANT/CABLE IN Port

: Connected with ATSC SG / TV SG

Back Port:

(9) One LAN Port

: Connected with PC

(10) One HDMI3 Port

: Connected with DVD PLAYER #1

(11) One HDMI4 Port

: Connected with DVD PLAYER #2

(12) One Digital Audio Out Port

: Connected with Audio Converter to Earphone#2

(13) One COMPONENT IN/AV IN Port

: Connected with DVD PLAYER #1

## 2.2 Peripherals

#### 2.2.1 PC

Manufacturer: HP

Model Number: dx7400MT Serial Number: CNG8130K89

Power Cord : Shielded, Detachable, 1.8m

Certificate : FCC DoC; CE/EMC; VCCI; C-Tick;

### 2.2.2 Keyboard

Manufacturer : Microsoft Model Number : RT2300

Serial Number: 7668200662248

Data Cable : Shielded, Detachable, 1.5m Certificate : CE/EMC, FCC DoC, VCCI, MIC,

C-Tick, BSMI

### 2.2.3 Mouse

Manufacturer : Microsoft Model Number : RT2300

Serial Number: 6965712071551

Data Cable : Shielded, Detachable, 1.5m.
Certificate : CE/EMC, FCC DoC, VCCI, MIC,

C-Tick, BSMI

#### 2.2.4 Modem

Manufacturer : TP-LINK
Model Number : TM-EC5658V
Serial Number : 07123301053

Data Cable : Shielded, Detachable, 1.5m

Certificate : CCC

### 2.2.5 Earphone#1

Manufacturer : Edifier Model Number : H210

## 2.2.6 Earphone#2

Manufacturer : Edifier Model Number : H210

#### 2.2.7 DVD PLAYER #1

Manufacturer : PHILIPS
Model Number : DVP3986K/93
Serial Number : KX1A0902120108

Certificate : CCC

### 2.2.8 DVD PLAYER #2

Manufacturer : PHILIPS
Model Number : DVP3986K/93
Serial Number : KX1A0902120082

Certificate : CCC

#### 2.2.9 Hard Disk #1

Manufacturer : Tetasys Model Number : F12

Serial Number: A010022-4860010X

Data Cable : Shielded, Detachable, 1.5m.

Certificate : CE, FCC DoC

## 2.2.10 Hard Disk #2

Manufacturer : Tetasys Model Number : F12

Serial Number: A010022-4860007

Data Cable : Shielded, Detachable, 1.5m.

Certificate : CE, FCC DoC

## 2.2.11 Hard Disk #3

Manufacturer : Tetasys Model Number : F12

Serial Number : A010022-40F0005

Data Cable : Shielded, Detachable, 1.5m.

Certificate : CE, FCC DoC

## 2.2.12 ATSC Signal Generator

Manufacturer : SENCORE Model Number : ATSC997 Serial Number : 6790071

## 2.2.13 TV Signal Generator

Manufacturer : FLUKE Model Number : 54200M01 Serial Number : 814008

## 2.2.14 Smart Mobile Phone

Manufacturer : SAMSUNG Model Number : GT-I9100G Serial Number : 6935152011519

Certificate : CE/EMC

## 2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on (No.3 3m Chamber) : Jan.15, 2015 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 : 3F 34Bldg 680 Guiping Rd,

Caohejing Hi-Tech Park, Shanghai 200233, China

FCC registration Number : 91789

NVLAP Lab Code : 200371-0

## 2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 3.4dB

Radiated Emission Expanded Uncertainty (30-200MHz):

U = 4.6dB(Horizontal)

U = 4.3 dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):

U = 4.5 dB (Horizontal)

U = 5.4dB (Vertical)

Radiated Emission Expanded Uncertainty (1GHz-6GHz):

U = 5.1 dB

# 3 CONDUCTED EMISSION TEST

# 3.1 Test Equipment

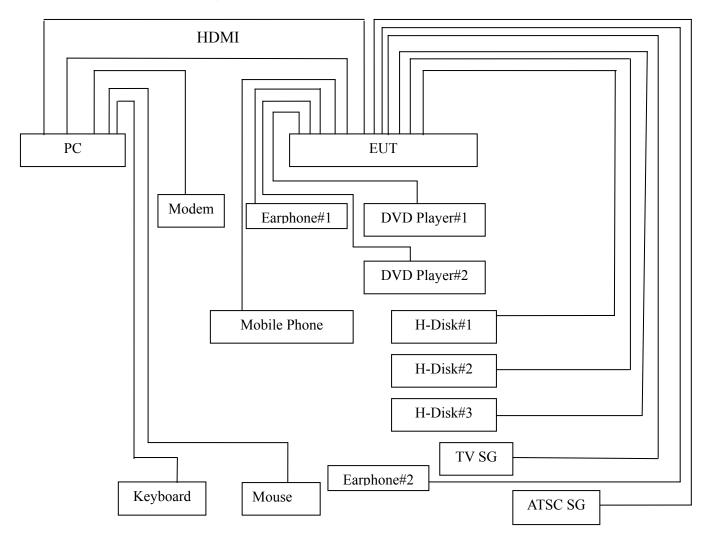
The following test equipments are used during the conducted emission test in a shielded room:

Item	Item Type Manufa		Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101302	Apr 27, 2016	Apr 25, 2017
2.	Artificial Mains Network (AMN)	R&S ENV4200		100125	Jun 27, 2016	Jun 26, 2017
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-5	Mar 20, 2016	Mar 19, 2017
4.	50Ω Terminator	Anritsu	BNC	001	Aug 12, 2016	Aug 11, 2017
5.	Software	Audix	e3	6.111206		

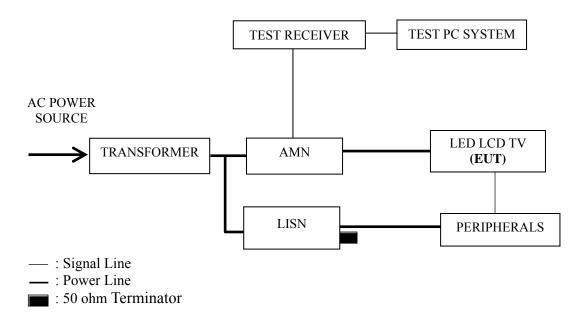
# 3.2 Block Diagram of Test Setup

## 3.2.1 EUT & Peripherals

LAN



## 3.2.2 Conducted Disturbance Test Setup



3.3 Conducted Emission Limit [FCC Part 15 Subpart B 15.107(a)]

Frequency Range	Limits Db (μV)			
(MHz)	Quasi-peak	Average		
0.15 ~ 0.5	66~56	56~46		
0.5 ~ 5	56	46		
5 ~ 30	60	50		

NOTE 1 – The lower limit shall apply at the transition frequencies.

NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range  $0.15~\text{MHz}{\sim}0.50~\text{MHz}$ 

# 3.4 Test Configuration

The EUT (listed in Sec.2.1) and the peripherals (listed in Sec 2.2) were installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

# 3.5 Operating Condition of EUT

- 3.5.1 Setup the EUT and peripherals as shown in Sec. 3.2.
- 3.5.2 Turn on the power of all equipments and the EUT.
- 3.5.3 Set the contrast & brightness of EUT to maximum.
- 3.5.4 PC system ran the self-test program "EMC Test" by windows XP and sent "H" characters to EUT through graphic card, the EUT's screen displayed and filled with "H" pattern by its resolution (Via HDMI Input).
- 3.5.5 PC system sent the 1kHz audio signal to EUT through audio port, the EUT speak out 1kHz audio signal.
- 3.5.6 In USB Play mode, set the EUT play digital media from H-Disk.
- 3.5.7 In LAN Play mode, set the EUT play digital media through LAN port.
- 3.5.8 In MHL mode, set the EUT play digital media from mobile phone.
- 3.5.9 The other peripherals devices were driven and operated during the test.

### 3.6 Test Procedures

The EUT and peripherals were connected to the power mains through an Artificial Mains Network (AMN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2014 during conducted emission test.

The bandwidth of R&S Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

## 3.7 Test Results

### < PASS >

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

NOTE 1 - Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – "QP" means "Quasi-Peak" values, "AV" means "Average" values.

NOTE 4 –The worst emission is detected at 1.759MHz (QP Value) with corrected signal level of 38.62dB ( $\mu$ V) (limit is 46.00 dB ( $\mu$ V)), when the Neutral of the EUT is connected to AMN.

LED LCD TV EUT Temperature: 22

Model No. 55H8C Humidity 48%RH

: HDMI 640\*480@60Hz & Date of Test: Test Mode Sep 07, 2016

1kHz Playing

Test Line	Frequency (MHz)	Meter Reading dB(µV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.185	40.20	10.55	50.75	64.25	13.50	
	0.472	36.80	10.41	47.21	56.48	9.27	
	0.712	38.20	10.40	48.60	56.00	7.40	OD
	1.650	34.11	10.40	44.51	56.00	11.49	QP
	2.592	36.70	10.42	47.12	56.00	8.88	
Time	20.510	27.10	10.62	37.72	60.00	22.28	
Line	0.185	28.50	10.55	39.05	54.25	15.20	AV
	0.472	22.20	10.41	32.61	46.48	13.87	
	0.712	20.70	10.40	31.10	46.00	14.90	
	1.650	18.11	10.40	28.51	46.00	17.49	
	2.592	25.00	10.42	35.42	46.00	10.58	
	20.510	22.20	10.62	32.82	50.00	17.18	
	0.187	41.29	10.54	51.83	64.18	12.35	
	0.461	36.30	10.40	46.70	56.68	9.98	
	0.945	35.40	10.40	45.80	56.00	10.20	OD
	1.759	34.09	10.43	44.52	56.00	11.48	QP
	2.595	37.30	10.45	47.75	56.00	8.25	
NI41	20.240	26.00	10.72	36.72	60.00	23.28	
Neutral	0.187	29.19	10.54	39.73	54.18	14.45	
	0.461	19.60	10.40	30.00	46.68	16.68	
	0.945	21.50	10.40	31.90	46.00	14.10	A 3.7
	1.759	28.19	10.43	38.62	46.00	7.38	AV
	2.595	27.20	10.45	37.65	46.00	8.35	
	20.240	21.30	10.72	32.02	50.00	17.98	

TEST ENGINEER: WENCY YANG

# 4 RADIATED EMISSION TEST

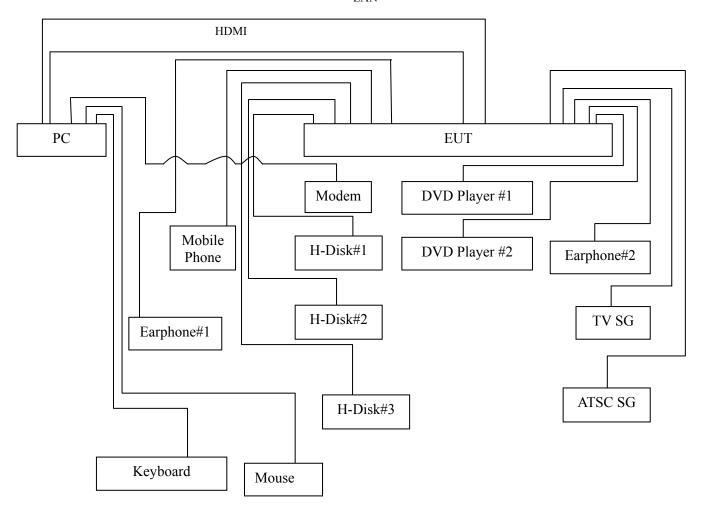
# 4.1 Test Equipment

The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101303	May 07, 2016	May 06, 2017
2.	Preamplifier	Agilent	8447D	2944A06664	Apr 27, 2016	Apr 26, 2017
3.	Preamplifier	HP	8449B	3008A00864	Mar 20, 2016	Sep 19, 2017
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 15, 2016	May 14, 2017
5.	Horn Antenna	EMCO	3115	9607-4878	Jun 03, 2016	Jun 02, 2017
6.	Spectrum	Agilent	N9010A	MY52221182	Jun 12, 2016	Jun 11, 2017
7.	Spectrum	HP	8591EM	3628A00908	May 07, 2016	May 06, 2017
8.	Software	Audix	e3	6.2007-9-10		

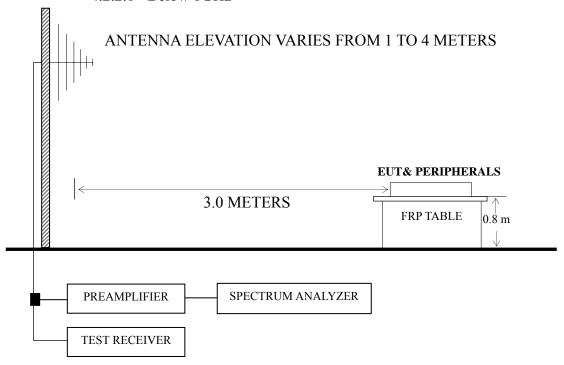
# 4.2 Block Diagram of Test Setup

# 4.2.1 EUT & Peripherals LAN



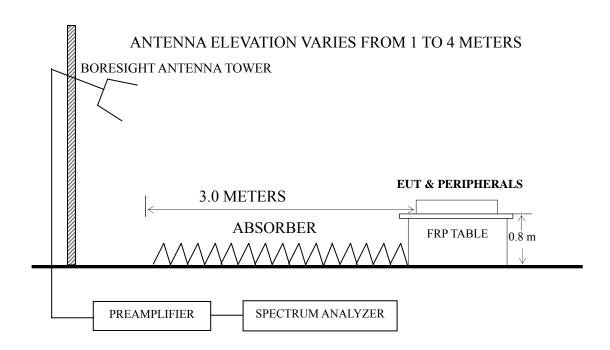
## 4.2.2 Radiated emission test setup

## 4.2.2.1 Below 1GHz



: 50 ohm Coaxial Switch

4.2.2.2 Above 1GHz



## 4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)]

Frequency	Distance	Field strength limits			
(MHz)	(m)	(µV/m)	dB (μV/m)		
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
Above 960	3	500	54.0		

- NOTE 1 Emission Level dB ( $\mu$ V/m) = 20 log Emission Level ( $\mu$ V/m)
- NOTE 2 The tighter limit applies at the band edges.
- NOTE 3 Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- NOTE 4 The limits shown are based on Quasi-peak value detector.
- NOTE 5 Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT.

## 4.4 Test Configuration

The configuration of the EUT and peripherals are same as those used in conducted emission test.

Please refer to Sec.3.4.

## 4.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.3.5, except for the test setup replaced by Sec.4.2.

## 4.6 Test Procedures

The EUT and peripherals were placed on a FRP turntable that is 0.8 meter above ground. The FRP turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated Bilog Antenna) was used as receiving antenna. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2014 requirements during radiated emission test.

The I.F. bandwidth of Test Receiver R&S ESCI was set at 120 kHz.

The frequency range from 30 MHz to 1000MHz was checked for all test modes.

The frequency range from 1 GHz to 6 GHz was checked for the maximum resolution test mode.

The test modes were done on radiated disturbance test and all the test results are listed in Sec.4.7.

#### 4.7 Test Results

#### <PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

- NOTE 1 Emission Level = Antenna Factor + Cable Loss + Meter Reading. (< 1GHz); Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading. (> 1GHz)
- NOTE 2 All readings are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.
- NOTE  $3-0^{\circ}$  was the table front facing the antenna. Degree is calculated from  $0^{\circ}$  clockwise facing the antenna.
- NOTE 4 The worst emission at horizontal polarization was detected at 679.960MHz with corrected signal level of 43.84 dB ( $\mu$ V/m) (limit is 46.00 dB ( $\mu$ V/m)), when the antenna was 2.00 m height and the turntable was at 110°. The worst emission at vertical polarization was detected at 890.728 MHz with corrected signal level of 43.71dB ( $\mu$ V/m) (limit is 46.00 dB ( $\mu$ V/m)), when the antenna was 1.9m height and the turntable was at 290°.

EUT : LED LCD TV Temperature : 22

Model No. : 55H8C Humidity : 60%RH

Test Mode : HDMI 640\*480@60Hz & Date of Test : Sep 08, 2016

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	61.995	27.32	6.33	0.89		34.54	40.00	5.46	
	189.739	27.28	10.33	1.90		39.51	43.50	3.99	
	239.987	27.73	11.80	2.11		41.64	46.00	4.36	OD
	296.184	24.97	13.65	2.56	-	41.18	46.00	4.82	QP
	679.960	20.66	19.90	3.28		43.84	46.00	2.16	
Horizontal	848.056	17.75	20.70	4.07		42.52	46.00	3.48	
Пописона	2534.314	58.69	28.57	4.96	35.16	57.06	74.00	16.94	
	2983.131	63.20	30.43	5.76	35.20	64.19	74.00	9.81	PK
	3369.664	59.17	31.25	6.10	34.83	61.69	74.00	12.31	
	2534.314	38.21	28.57	4.96	35.16	36.58	54.00	17.42	
	2983.131	42.49	30.43	5.76	35.20	43.48	54.00	10.52	AV
	3369.664	39.75	31.25	6.10	34.83	42.27	54.00	11.73	

EUT : LED LCD TV Temperature : 22

Model No. : 55H8C Humidity : 60%RH

Test Mode : HDMI 640\*480@60Hz & Date of Test : Sep 08, 2016

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ( $\mu V/m$ )	Margin (dB)	Remark
Vertical	60.918	28.83	6.26	0.88		35.97	40.00	4.03	QP
	125.446	25.15	13.07	1.50	1	39.72	43.50	3.78	
	230.907	27.22	11.24	2.09	1	40.55	46.00	5.45	
	431.032	22.16	16.82	2.79	1	41.77	46.00	4.23	
	654.232	20.28	19.70	3.03		43.01	46.00	2.99	
	890.728	17.95	21.30	4.46		43.71	46.00	2.29	
	2534.314	63.91	28.57	4.96	35.16	62.28	74.00	11.72	
	2945.949	63.21	30.30	5.69	35.20	64.00	74.00	10.00	PK
	3369.664	57.73	31.25	6.10	34.83	60.25	74.00	13.75	
	2534.314	44.29	28.57	4.96	35.16	42.66	54.00	11.34	
	2945.949	43.40	30.30	5.69	35.20	44.19	54.00	9.81	AV
	3369.664	36.11	31.25	6.10	34.83	38.63	54.00	15.37	

TEST ENGINEER: MARK LI

## **5 DEBUG DESCRIPTION**

The following components are used during the countermeasure procedures:

Name	M/N	Manufacturer	Location
Conductive cloth	35mm*35mm	Qingdao Joinset Co., Ltd	See Internal
Conductive cloth	JJIIIII JJIIIII	Qiliguao Johnset Co., Ltu	Photos Figure 22
Conductive Tapes	80mm*40mm	Shenzhen antai electronic	See Internal
Conductive Tapes	80111111 40111111	technology co., LTD	Photos Figure 23
Conductive cotton bubble	SMR-TSL-4-3.5-5R\	Oinadaa Jainaat Ca. Ltd	See Internal
Conductive cotton bubble	ROH	Qingdao Joinset Co., Ltd	Photos Figure 24

Note: We had required the applicant and manufacturer that all electrical and mechanical devices employed for spurious radiation suppression, including any modifications made during certification testing, must be incorporated in each unit marked

TEST ENGINEER:

(BYRON WU)

Hisense Electric Co., Ltd. FCC ID: W9HLCDF0077 Page 22 of 22

# 6 DEVIATION TO TEST SPECIFICATIONS

None.