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

LED LCD TV

| Model No. | Brand | | |
|--------------|---------|--|--|
| HU55K324UBWG | Higanga | | |
| 55U1600 | Hisense | | |
| LC-55U | Sharp | | |

FCC ID: W9HLCDF0088

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-F16196

Date of Test: Jul 26 – Aug 08, 2016

Date of Report: Aug 15, 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. : Refer to Sec.2.1

Brand : Refer to Sec.2.1

Power Supply: 120V/60Hz

Test Procedure Used:

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 Jul 26 – Aug 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.F16195, a Verification report.

| Date of Test : | Jul 26 – Aug 08, 2016 | Date of Report : | Aug 15, 2016 |
|----------------|--|------------------|--------------|
| Producer: | HUI MIN YAN / Assistant | | |
| Review: | Byron WW/ BYRON WU/ Deputy Assistant Manager | | |
| For and | on behalf of | | |

Audix Technology (Shanghai) Co., Ltd.

Authorized Signature EMC BYRON KWO / Assistant General Manager

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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:

| Description of Test Item | 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 |

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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. | Brand |
|--------------|---------|
| HU55K324UBWG | Higanga |
| 55U1600 | Hisense |
| LC-55U | Sharp |

Note : The above models are all the same except for the model

number and brand. The LC-55U was tested.

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-B51(010)

Tuner : Manufacturer : XuGuang Tech. Co., Ltd

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

Max Resolution : 3840*2160@60Hz

HDMI Cable*4

Shielded, Detachable, 1.50m, with two cores

(Lab provide)

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

USB Cable*2 : Shielded, Detachable, 1.00m

(Lab provide)

LAN Cable : Unshielded, Detachable, 1.50m

D-Sub Cable : Shielded, Detachable, 1.50m

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Remark:

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

Side Port:

(1) One USB2 Port

: Connected with Hard-Disk #1

(2) One RS232 Port

: Connected with PC

(3) One VGA Port

: Connected with PC

(4) One HDMI2 Port

· Connected with PC

(5) One HDMI1 Port

: Connected with DVD PLAYER #3

(6) One Audio out Port

: Connected with Earphone#1

(7) One Service Port

: Do not open to customer

(8) One USB1 Port

: Connected with Hard-Disk #2

(9) One ANT/CABLE IN Port

: Connected with Antenna or ATSC SG / TV SG

Back Port:

(10) One LAN Port

: Connected with PC

(11) One HDMI3 Port

: Connected with DVD PLAYER #1

(12) One HDMI4 Port

: Connected with DVD PLAYER #2

(13) One Digital Audio Out Port

: Connected with Audio Converter to Earphone#2

(14) One component of YPbPr +Audio Port

: Connected with DVD PLAYER #1

2.2 Peripherals

2.2.1 PC

Manufacturer: HP

Model Number: DX7400MT Serial Number: CNG8130K89

Power Cord : Unshielded, Detachable, 1.2m

Certificate : CE/EMC, FCC DoC, VCCI, UL, CCC

2.2.2 PC

Manufacturer : HP
Model Number : Pro3340
Serial Number : 6CR2512VFD

Power Cord : Unshielded, Detachable, 1.8m

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

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2.2.3 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

2.2.4 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

2.2.5 Earphone *2

Manufacturer : EDIFIER Model Number : H210

2.2.6 DVD PLAYER #1

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

Certificate : CCC

2.2.7 DVD PLAYER #2

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

Certificate : CCC

2.2.8 DVD PLAYER #3

Manufacturer : LG

Model Number: DF9921N Serial Number: 507DT00304F

Certificate : BSMI

2.2.9 Hard Disk #1

Manufacturer : Tetasys Model Number : F12

Serial Number : A010022-4860010X

Data Cable : Shielded, Undetachable, 1.8m.

Certificate : CE, FCC DoC

2.2.10 Hard Disk #2

Manufacturer : Tetasys Model Number : F12

Serial Number : A010022-486006

Data Cable : Shielded, Undetachable, 1.8m.

Certificate : CE, FCC DoC

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2.2.11 ATSC Signal Generator

Manufacturer : SENCORE Model Number : ATSC997 Serial Number : 6790071

2.2.12 TV Signal Generator

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

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

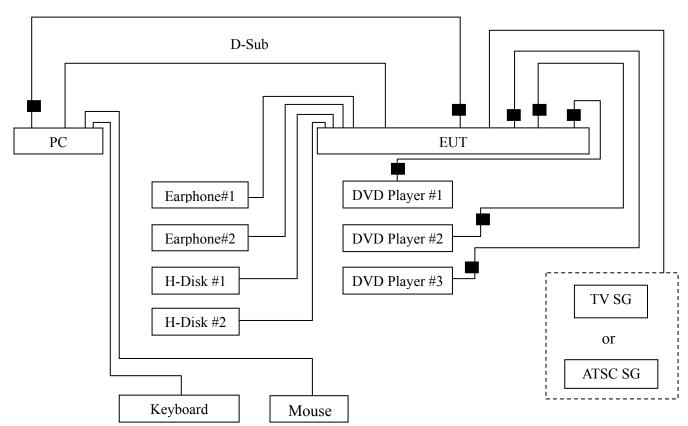
The following test equipments are used during the conducted emission test in a shielded room:

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------|---|--------------|-----------|-------------|--------------|--------------|
| 1. | Test Receiver | R&S | ESCI | ESCI 101302 | | Jul 02, 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 | 8-1280-4 | Mar 20, 2016 | Mar 19, 2017 |
| 4. | 50Ω Terminator | Anritsu | BNC | 001 | Mar 20, 2016 | Mar 19, 2017 |
| 5. | Software | Audix | e3 | 6.111206 | | |

3.2 Block Diagram of Test Setup

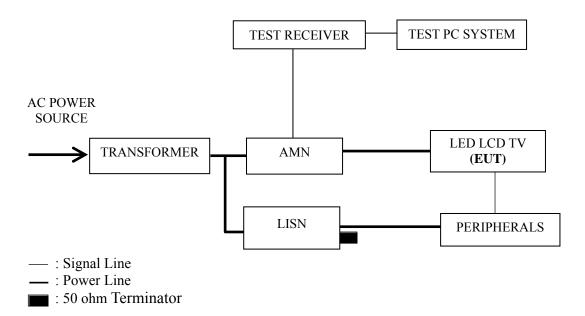
3.2.1 EUT & Peripherals

HDMI



: Ferrite Core

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 & D-Sub 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 The other peripherals devices were driven and operated during the test.
- 3.5.9 The test modes are as follows:

| Test Mode |
|-------------------------------------|
| HDMI 3840*2160@60Hz & 1kHz playing |
| HDMI 1920*1080@60Hz & 1kHz playing |
| HDMI 1280*1024@60Hz & 1kHz playing |
| HDMI 640*480@60Hz & 1kHz playing |
| D-Sub 1920*1080@60Hz & 1kHz playing |
| HDMI1080P |
| USB Play |
| LAN Play |

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 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

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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.

| Test Mode | Data Page |
|-------------------------------------|-----------|
| HDMI 3840*2160@60Hz & 1kHz playing | P13 |
| HDMI 1920*1080@60Hz & 1kHz playing | P14 |
| HDMI 1280*1024@60Hz & 1kHz playing | P15 |
| HDMI 640*480@60Hz & 1kHz playing | P16 |
| D-Sub 1920*1080@60Hz & 1kHz playing | P17 |
| HDMI1080P | P18 |
| USB Play | P19 |
| LAN Play | P20 |

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 case is for HDMI 1920*1080@60Hz & 1kHz playing test mode. The worst emission is detected at 0.152MHz (Quasi-Peak Value) with corrected signal level of 64.58dB (μ V) (limit is 65.91 dB (μ V)), when the Neutral of the EUT is connected to AMN.

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EUT : LED LCD TV Temperature : 22° C

Model No. : LC-55U Humidity : 48%RH

Test Mode : HDMI 3840*2160@60Hz Date of Test : Jul 26, 2016

& 1kHz Playing

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|
| | 0.151 | 53.60 | 10.59 | 64.19 | 65.94 | 1.75 | |
| | 0.337 | 34.20 | 10.46 | 44.66 | 59.28 | 14.62 | |
| | 0.506 | 31.30 | 10.40 | 41.70 | 56.00 | 14.30 | OD |
| | 0.998 | 29.40 | 10.40 | 39.80 | 56.00 | 16.20 | QP |
| | 1.739 | 26.70 | 10.41 | 37.11 | 56.00 | 18.89 | |
| Line | 16.150 | 22.59 | 10.57 | 33.16 | 60.00 | 26.84 | |
| Line | 0.151 | 43.10 | 10.59 | 53.69 | 55.94 | 2.25 | |
| | 0.337 | 23.20 | 10.46 | 33.66 | 49.28 | 15.62 | |
| | 0.506 | 17.70 | 10.40 | 28.10 | 46.00 | 17.90 | AV |
| | 0.998 | 16.90 | 10.40 | 27.30 | 46.00 | 18.70 | |
| | 1.739 | 13.00 | 10.41 | 23.41 | 46.00 | 22.59 | |
| | 16.150 | 18.09 | 10.57 | 28.66 | 50.00 | 21.34 | |
| | 0.150 | 53.90 | 10.58 | 64.48 | 65.99 | 1.51 | |
| | 0.339 | 27.69 | 10.45 | 38.14 | 59.22 | 21.08 | |
| | 0.793 | 22.80 | 10.39 | 33.19 | 56.00 | 22.81 | QP |
| | 1.755 | 25.99 | 10.43 | 36.42 | 56.00 | 19.58 | Qr |
| | 3.072 | 18.50 | 10.46 | 28.96 | 56.00 | 27.04 | |
| Neutral | 16.250 | 24.10 | 10.67 | 34.77 | 60.00 | 25.23 | |
| Neuman | 0.150 | 42.90 | 10.58 | 53.48 | 55.99 | 2.51 | |
| | 0.339 | 17.89 | 10.45 | 28.34 | 49.22 | 20.88 | |
| | 0.793 | 11.40 | 10.39 | 21.79 | 46.00 | 24.21 | AV |
| | 1.755 | 15.09 | 10.43 | 25.52 | 46.00 | 20.48 | |
| | 3.072 | 10.50 | 10.46 | 20.96 | 46.00 | 25.04 | |
| | 16.250 | 19.00 | 10.67 | 29.67 | 50.00 | 20.33 | |

EUT LED LCD TV Temperature:

LC-55U Humidity Model No. 48%RH

HDMI 1920*1080@60Hz & 1kHz Playing Date of Test: Test Mode Jul 26, 2016

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|
| | 0.153 | 53.50 | 10.59 | 64.09 | 65.86 | 1.77 | |
| | 0.338 | 32.80 | 10.46 | 43.26 | 59.26 | 16.00 | |
| | 0.591 | 28.40 | 10.40 | 38.80 | 56.00 | 17.20 | OD |
| | 0.999 | 29.40 | 10.40 | 39.80 | 56.00 | 16.20 | QP |
| | 1.739 | 27.30 | 10.41 | 37.71 | 56.00 | 18.29 | |
| Time | 15.160 | 22.00 | 10.55 | 32.55 | 60.00 | 27.45 | |
| Line | 0.153 | 43.10 | 10.59 | 53.69 | 55.86 | 2.17 | |
| | 0.338 | 22.30 | 10.46 | 32.76 | 49.26 | 16.50 | |
| | 0.591 | 14.80 | 10.40 | 25.20 | 46.00 | 20.80 | A T 7 |
| | 0.999 | 16.20 | 10.40 | 26.60 | 46.00 | 19.40 | AV |
| | 1.739 | 13.40 | 10.41 | 23.81 | 46.00 | 22.19 | |
| | 15.160 | 17.50 | 10.55 | 28.05 | 50.00 | 21.95 | |
| | 0.152 | 54.00 | 10.58 | 64.58 | 65.91 | 1.33 | |
| | 0.341 | 27.19 | 10.45 | 37.64 | 59.19 | 21.55 | |
| | 0.583 | 25.90 | 10.39 | 36.29 | 56.00 | 19.71 | OD |
| | 0.818 | 25.30 | 10.39 | 35.69 | 56.00 | 20.31 | QP |
| | 1.754 | 24.49 | 10.43 | 34.92 | 56.00 | 21.08 | |
| NI asstract | 15.910 | 22.79 | 10.67 | 33.46 | 60.00 | 26.54 | |
| Neutral | 0.152 | 42.80 | 10.58 | 53.38 | 55.91 | 2.53 | |
| | 0.341 | 17.59 | 10.45 | 28.04 | 49.19 | 21.15 | |
| | 0.583 | 15.40 | 10.39 | 25.79 | 46.00 | 20.21 | AV |
| | 0.818 | 13.50 | 10.39 | 23.89 | 46.00 | 22.11 | |
| | 1.754 | 14.19 | 10.43 | 24.62 | 46.00 | 21.38 | |
| | 15.910 | 17.99 | 10.67 | 28.66 | 50.00 | 21.34 | |

Model No. : LC-55U Humidity : 48%RH

Test Mode : HDMI 1280*1024@60Hz Date of Test : Jul 26, 2016

& 1kHz Playing

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|
| | 0.151 | 53.50 | 10.59 | 64.09 | 65.97 | 1.88 | |
| | 0.337 | 32.70 | 10.46 | 43.16 | 59.28 | 16.12 | |
| | 0.792 | 27.30 | 10.40 | 37.70 | 56.00 | 18.30 | OD |
| | 1.732 | 26.90 | 10.41 | 37.31 | 56.00 | 18.69 | QP |
| | 3.624 | 21.01 | 10.43 | 31.44 | 56.00 | 24.56 | |
| Line | 15.770 | 25.70 | 10.56 | 36.26 | 60.00 | 23.74 | |
| Line | 0.151 | 43.10 | 10.59 | 53.69 | 55.97 | 2.28 | |
| | 0.337 | 22.30 | 10.46 | 32.76 | 49.28 | 16.52 | |
| | 0.792 | 12.40 | 10.40 | 22.80 | 46.00 | 23.20 | AV |
| | 1.732 | 12.50 | 10.41 | 22.91 | 46.00 | 23.09 | |
| | 3.624 | 12.11 | 10.43 | 22.54 | 46.00 | 23.46 | |
| | 15.770 | 12.30 | 10.56 | 22.86 | 50.00 | 27.14 | |
| | 0.151 | 54.00 | 10.58 | 64.58 | 65.96 | 1.38 | |
| | 0.473 | 24.50 | 10.40 | 34.90 | 56.46 | 21.56 | |
| | 0.812 | 26.20 | 10.39 | 36.59 | 56.00 | 19.41 | QP |
| | 1.745 | 25.59 | 10.43 | 36.02 | 56.00 | 19.98 | |
| | 3.863 | 21.90 | 10.48 | 32.38 | 56.00 | 23.62 | |
| Neutral | 16.140 | 23.20 | 10.67 | 33.87 | 60.00 | 26.13 | |
| Neutrai | 0.151 | 42.90 | 10.58 | 53.48 | 55.96 | 2.48 | |
| | 0.473 | 14.40 | 10.40 | 24.80 | 46.46 | 21.66 | |
| | 0.812 | 15.10 | 10.39 | 25.49 | 46.00 | 20.51 | AX7 |
| | 1.745 | 14.89 | 10.43 | 25.32 | 46.00 | 20.68 | AV |
| | 3.863 | 14.60 | 10.48 | 25.08 | 46.00 | 20.92 | |
| | 16.140 | 18.30 | 10.67 | 28.97 | 50.00 | 21.03 | |

Model No. : LC-55U Humidity : 48%RH

Test Mode : HDMI 640*480@60Hz & Date of Test : Jul 26, 2016

1kHz Playing

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark | |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|--|
| | 0.150 | 52.80 | 10.59 | 63.39 | 65.99 | 2.60 | | |
| | 0.340 | 33.39 | 10.46 | 43.85 | 59.21 | 15.36 | | |
| | 0.803 | 28.10 | 10.40 | 38.50 | 56.00 | 17.50 | OD | |
| | 1.738 | 26.20 | 10.41 | 36.61 | 56.00 | 19.39 | QP | |
| | 3.773 | 23.51 | 10.43 | 33.94 | 56.00 | 22.06 | | |
| Line | 15.250 | 22.20 | 10.55 | 32.75 | 60.00 | 27.25 | | |
| Line | 0.150 | 42.40 | 10.59 | 52.99 | 55.99 | 3.00 | | |
| | 0.340 | 22.49 | 10.46 | 32.95 | 49.21 | 16.26 | AV | |
| | 0.803 | 13.80 | 10.40 | 24.20 | 46.00 | 21.80 | | |
| | 1.738 | 13.10 | 10.41 | 23.51 | 46.00 | 22.49 | | |
| | 3.773 | 12.81 | 10.43 | 23.24 | 46.00 | 22.76 | | |
| | 15.250 | 18.10 | 10.55 | 28.65 | 50.00 | 21.35 | | |
| | 0.151 | 53.10 | 10.58 | 63.68 | 65.97 | 2.29 | | |
| | 0.339 | 26.19 | 10.45 | 36.64 | 59.22 | 22.58 | | |
| | 0.816 | 25.20 | 10.39 | 35.59 | 56.00 | 20.41 | QP | |
| | 1.753 | 23.79 | 10.43 | 34.22 | 56.00 | 21.78 | Qr | |
| | 2.912 | 18.10 | 10.46 | 28.56 | 56.00 | 27.44 | | |
| Neutral | 16.320 | 23.20 | 10.67 | 33.87 | 60.00 | 26.13 | | |
| Neutrai | 0.151 | 42.00 | 10.58 | 52.58 | 55.97 | 3.39 | | |
| | 0.339 | 16.79 | 10.45 | 27.24 | 49.22 | 21.98 | | |
| | 0.816 | 13.20 | 10.39 | 23.59 | 46.00 | 22.41 | A 3 7 | |
| | 1.753 | 13.49 | 10.43 | 23.92 | 46.00 | 22.08 | AV | |
| | 2.912 | 9.50 | 10.46 | 19.96 | 46.00 | 26.04 | | |
| | 16.320 | 18.20 | 10.67 | 28.87 | 50.00 | 21.13 | | |

Model No. : LC-55U Humidity : 48%RH

Test Mode : D-Sub 1920*1080@60Hz Date of Test : Jul 26, 2016

& 1kHz playing

| Test Line | Frequency (MHz) | Meter Reading dB(µV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark | | |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|--|--|
| | 0.151 | 53.60 | 10.59 | 64.19 | 65.93 | 1.74 | | | |
| | 0.337 | 33.30 | 10.46 | 43.76 | 59.28 | 15.52 | | | |
| | 0.815 | 29.30 | 10.40 | 39.70 | 56.00 | 16.30 | OD | | |
| | 1.394 | 23.99 | 10.41 | 34.40 | 56.00 | 21.60 | QP | | |
| | 2.893 | 26.10 | 10.43 | 36.53 | 56.00 | 19.47 | | | |
| Line | 16.020 | 22.50 | 10.56 | 33.06 | 60.00 | 26.94 | | | |
| Line | 0.151 | 43.40 | 10.59 | 53.99 | 55.93 | 1.94 | | | |
| | 0.337 | 22.70 | 10.46 | 33.16 | 49.28 | 16.12 | | | |
| | 0.815 | 13.40 | 10.40 | 23.80 | 46.00 | 22.20 | AV | | |
| | 1.394 | 6.49 | 10.41 | 16.90 | 46.00 | 29.10 | AV | | |
| | 2.893 | 11.30 | 10.43 | 21.73 | 46.00 | 24.27 | | | |
| | 16.020 | 17.80 | 10.56 | 28.36 | 50.00 | 21.64 | | | |
| | 0.150 | 53.00 | 10.58 | 63.58 | 65.99 | 2.41 | | | |
| | 0.508 | 26.80 | 10.39 | 37.19 | 56.00 | 18.81 | | | |
| | 0.807 | 25.40 | 10.39 | 35.79 | 56.00 | 20.21 | QP | | |
| | 1.746 | 24.89 | 10.43 | 35.32 | 56.00 | 20.68 | Qr | | |
| | 3.041 | 16.40 | 10.46 | 26.86 | 56.00 | 29.14 | | | |
| Neutral | 16.180 | 23.10 | 10.67 | 33.77 | 60.00 | 26.23 | | | |
| Neutrai | 0.150 | 43.00 | 10.58 | 53.58 | 55.99 | 2.41 | | | |
| | 0.508 | 14.40 | 10.39 | 24.79 | 46.00 | 21.21 | | | |
| | 0.807 | 14.60 | 10.39 | 24.99 | 46.00 | 21.01 | AX7 | | |
| | 1.746 | 13.79 | 10.43 | 24.22 | 46.00 | 21.78 | AV | | |
| | 3.041 | 10.50 | 10.46 | 20.96 | 46.00 | 25.04 | | | |
| | 16.180 | 15.00 | 10.67 | 25.67 | 50.00 | 24.33 | | | |

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EUT : LED LCD TV Temperature : 22° C

Model No. : LC-55U Humidity : 48%RH

Test Mode : HDMI 1080P Date of Test : Jul 26, 2016

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark | | |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|-------------|--|--|
| | 0.151 | 53.60 | 10.59 | 64.19 | 65.96 | 1.77 | | | |
| | 0.339 | 33.09 | 10.46 | 43.55 | 59.24 | 15.69 | | | |
| | 0.507 | 31.10 | 10.40 | 41.50 | 56.00 | 14.50 | QP | | |
| | 1.003 | 29.60 | 10.40 | 40.00 | 56.00 | 16.00 | Qr | | |
| | 3.197 | 25.20 | 10.43 | 35.63 | 56.00 | 20.37 | | | |
| Line | 15.050 | 22.20 | 10.55 | 32.75 | 60.00 | 27.25 | | | |
| Line | 0.151 | 43.40 | 10.59 | 53.99 | 55.96 | 1.97 | | | |
| | 0.339 | 22.19 | 10.46 | 32.65 | 49.24 | 16.59 | AV | | |
| | 0.507 | 17.90 | 10.40 | 28.30 | 46.00 | 17.70 | | | |
| | 1.003 | 15.90 | 10.40 | 26.30 | 46.00 | 19.70 | | | |
| | 3.197 | 12.00 | 10.43 | 22.43 | 46.00 | 23.57 | | | |
| | 15.050 | 17.90 | 10.55 | 28.45 | 50.00 | 21.55 | | | |
| | 0.151 | 54.00 | 10.58 | 64.58 | 65.96 | 1.38 | | | |
| | 0.462 | 25.70 | 10.40 | 36.10 | 56.66 | 20.56 | | | |
| | 0.816 | 25.70 | 10.39 | 36.09 | 56.00 | 19.91 | QP | | |
| | 1.759 | 25.59 | 10.43 | 36.02 | 56.00 | 19.98 | Qr | | |
| | 3.795 | 22.31 | 10.47 | 32.78 | 56.00 | 23.22 | | | |
| Neutral | 16.300 | 24.20 | 10.67 | 34.87 | 60.00 | 25.13 | | | |
| Neutrai | 0.151 | 42.90 | 10.58 | 53.48 | 55.96 | 2.48 | | | |
| | 0.462 | 16.00 | 10.40 | 26.40 | 46.66 | 20.26 | | | |
| | 0.816 | 13.50 | 10.39 | 23.89 | 46.00 | 22.11 | A3 7 | | |
| | 1.759 | 14.19 | 10.43 | 24.62 | 46.00 | 21.38 | AV | | |
| | 3.795 | 14.91 | 10.47 | 25.38 | 46.00 | 20.62 | | | |
| | 16.300 | 19.20 | 10.67 | 29.87 | 50.00 | 20.13 | | | |

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EUT : LED LCD TV Temperature : 22° C

Model No. : LC-55U Humidity : 48%RH

Test Mode : USB Play Date of Test : Jul 26, 2016

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(μV) | Limits dB(µV) | Margin (dB) | Remark | |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|--|
| | 0.151 | 53.60 | 10.59 | 64.19 | 65.97 | 1.78 | | |
| | 0.337 | 33.50 | 10.46 | 43.96 | 59.28 | 15.32 | | |
| | 0.594 | 28.51 | 10.39 | 38.90 | 56.00 | 17.10 | ΩD | |
| | 0.999 | 29.00 | 10.40 | 39.40 | 56.00 | 16.60 | QP | |
| | 3.192 | 25.30 | 10.43 | 35.73 | 56.00 | 20.27 | | |
| Line | 14.980 | 22.10 | 10.55 | 32.65 | 60.00 | 27.35 | | |
| | 0.151 | 43.20 | 10.59 | 53.79 | 55.97 | 2.18 | | |
| | 0.337 | 22.40 | 10.46 | 32.86 | 49.28 | 16.42 | AV | |
| | 0.594 | 11.61 | 10.39 | 22.00 | 46.00 | 24.00 | | |
| | 0.999 | 11.90 | 10.40 | 22.30 | 46.00 | 23.70 | | |
| | 3.192 | 12.40 | 10.43 | 22.83 | 46.00 | 23.17 | | |
| | 14.980 | 17.50 | 10.55 | 28.05 | 50.00 | 21.95 | | |
| | 0.151 | 54.00 | 10.58 | 64.58 | 65.94 | 1.36 | | |
| | 0.339 | 27.39 | 10.45 | 37.84 | 59.22 | 21.38 | | |
| | 0.583 | 25.30 | 10.39 | 35.69 | 56.00 | 20.31 | ΩD | |
| | 1.051 | 24.60 | 10.40 | 35.00 | 56.00 | 21.00 | QP | |
| | 2.375 | 22.10 | 10.44 | 32.54 | 56.00 | 23.46 | | |
| Neutral | 16.380 | 24.00 | 10.67 | 34.67 | 60.00 | 25.33 | | |
| Neutrai | 0.151 | 42.90 | 10.58 | 53.48 | 55.94 | 2.46 | | |
| | 0.339 | 17.79 | 10.45 | 28.24 | 49.22 | 20.98 | | |
| | 0.583 | 15.00 | 10.39 | 25.39 | 46.00 | 20.61 | AV | |
| | 1.051 | 12.30 | 10.40 | 22.70 | 46.00 | 23.30 | | |
| | 2.375 | 13.20 | 10.44 | 23.64 | 46.00 | 22.36 | | |
| | 16.380 | 18.90 | 10.67 | 29.57 | 50.00 | 20.43 | | |

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EUT : LED LCD TV Temperature : 22° C

Model No. : LC-55U Humidity : 48%RH

Test Mode : LAN Play Date of Test : Jul 26, 2016

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(µV) | Limits dB(µV) | Margin (dB) | Remark | |
|--------------|-----------------|----------------------------|-------------|-----------------------------|---------------|-------------|--------|--|
| | 0.150 | 53.70 | 10.59 | 64.29 | 65.98 | 1.69 | | |
| | 0.338 | 33.20 | 10.46 | 43.66 | 59.25 | 15.59 | | |
| | 0.808 | 31.80 | 10.40 | 42.20 | 56.00 | 13.80 | OD | |
| | 1.725 | 26.70 | 10.41 | 37.11 | 56.00 | 18.89 | QP | |
| | 3.902 | 24.70 | 10.44 | 35.14 | 56.00 | 20.86 | | |
| Line | 15.770 | 23.20 | 10.56 | 33.76 | 60.00 | 26.24 | | |
| Line | 0.150 | 43.30 | 10.59 | 53.89 | 55.98 | 2.09 | | |
| | 0.338 | 22.40 | 10.46 | 32.86 | 49.25 | 16.39 | AV | |
| | 0.808 | 14.70 | 10.40 | 25.10 | 46.00 | 20.90 | | |
| | 1.725 | 13.00 | 10.41 | 23.41 | 46.00 | 22.59 | | |
| | 3.902 | 11.50 | 10.44 | 21.94 | 46.00 | 24.06 | | |
| | 15.770 | 19.30 | 10.56 | 29.86 | 50.00 | 20.14 | | |
| | 0.151 | 54.00 | 10.58 | 64.58 | 65.97 | 1.39 | | |
| | 0.339 | 27.59 | 10.45 | 38.04 | 59.22 | 21.18 | | |
| | 0.584 | 24.70 | 10.39 | 35.09 | 56.00 | 20.91 | OD | |
| | 1.032 | 24.40 | 10.40 | 34.80 | 56.00 | 21.20 | QP | |
| | 2.164 | 21.31 | 10.43 | 31.74 | 56.00 | 24.26 | | |
| Neutral | 16.290 | 24.00 | 10.67 | 34.67 | 60.00 | 25.33 | | |
| Neutrai | 0.151 | 42.90 | 10.58 | 53.48 | 55.97 | 2.49 | | |
| | 0.339 | 17.99 | 10.45 | 28.44 | 49.22 | 20.78 | | |
| | 0.584 | 12.80 | 10.39 | 23.19 | 46.00 | 22.81 | AV | |
| | 1.032 | 14.10 | 10.40 | 24.50 | 46.00 | 21.50 | | |
| | 2.164 | 11.91 | 10.43 | 22.34 | 46.00 | 23.66 | | |
| | 16.290 | 19.10 | 10.67 | 29.77 | 50.00 | 20.23 | | |

4 RADIATED EMISSION TEST

4.1 Test Equipment

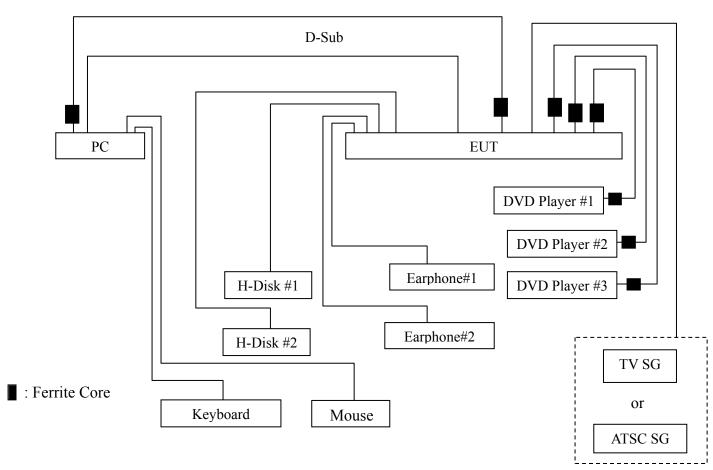
The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

| 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 | Mar 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 | E7405A | MY45106600 | Apr 26, 2016 | Apr 25, 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

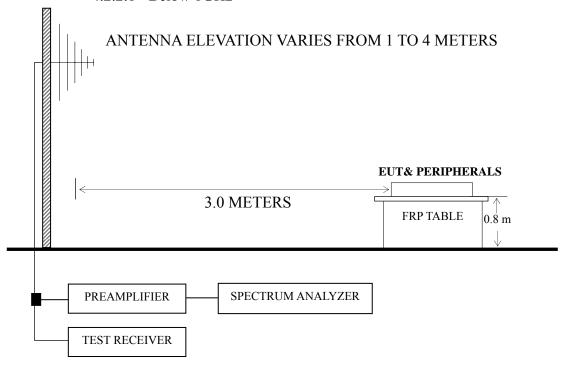
4.2.1 EUT & Peripherals

HDMI



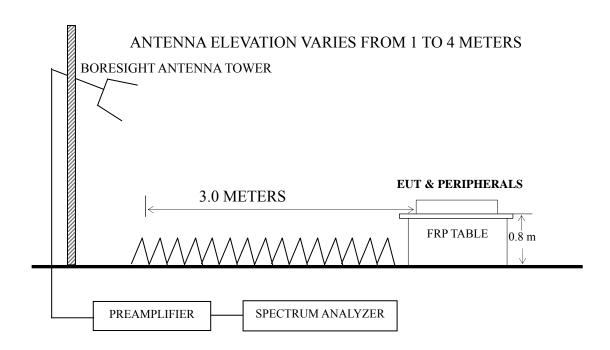
4.2.2 Radiated emission test setup

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 (μ V/m) = 20 log Emission Level (μ 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 requirements during radiated emission test.

The I.F. bandwidth of Test Receiver R&S ESCI was set at 120 kHz and The Spectrum Agilent E7405A was set at 1MHz above 1GHz.

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.

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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.

| Test Mode | Data Page |
|-------------------------------------|-----------|
| HDMI 3840*2160@60Hz & 1kHz playing | P25-P26 |
| HDMI 1920*1080@60Hz & 1kHz playing | P27 |
| HDMI 1280*1024@60Hz & 1kHz playing | P28 |
| HDMI 640*480@60Hz & 1kHz playing | P29 |
| D-Sub 1920*1080@60Hz & 1kHz playing | P30 |
| HDMI1080P | P31 |
| USB Play | P32 |
| LAN Play | P33 |

- 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° clockwise facing the antenna.
- NOTE 4 The worst case is for HDMI 3840*2160@60Hz & 1kHz playing test mode. The worst emission at horizontal polarization was detected at 890.728 MHz with corrected signal level of 45.41 dB (μ V/m) (limit is 46.00 dB (μ V/m)), when the antenna was 2.00 m height and the turntable was at 175°. The worst emission at vertical polarization was detected at 891.010 MHz with corrected signal level of 43.47 dB (μ V/m) (limit is 46.00 dB (μ V/m)), when the antenna was 1.10 m height and the turntable was at 90°.

Model No. : LC-55U Humidity : 60%RH

Test Mode : HDMI 3840*2160@60Hz Date of Test : Aug 08, 2016 & 1kHz Playing

| 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 | |
|--------------|-----------------|-----------------------------|-----------------------------|-----------------------|--------------------------|--------------------------------|-------------------------|-------------|--------|--|
| | 94.760 | 19.48 | 11.60 | 0.97 | 0.00 | 32.05 | 43.50 | 11.45 | | |
| | 131.758 | 18.81 | 12.87 | 1.19 | 0.00 | 32.87 | 43.50 | 10.63 | | |
| | 297.224 | 24.73 | 13.60 | 1.75 | 0.00 | 40.08 | 46.00 | 5.92 | QP | |
| | 454.310 | 22.32 | 16.84 | 2.16 | 0.00 | 41.32 | 46.00 | 4.68 | | |
| | 682.348 | 21.07 | 19.52 | 2.67 | 0.00 | 43.26 | 46.00 | 2.74 | | |
| Horizontal | 890.728 | 21.24 | 21.10 | 3.07 | 0.00 | 45.41 | 46.00 | 0.59 | | |
| Пописона | 2107.225 | 69.47 | 27.71 | 4.55 | 35.11 | 66.62 | 74.00 | 7.38 | | |
| | 3147.870 | 65.00 | 30.82 | 5.93 | 35.05 | 66.70 | 74.00 | 7.30 | PK | |
| | 3505.144 | 60.70 | 31.53 | 6.17 | 34.71 | 63.69 | 74.00 | 10.31 | | |
| | 2107.225 | 45.37 | 27.71 | 4.55 | 35.11 | 42.52 | 54.00 | 11.48 | | |
| | 3147.870 | 40.04 | 30.82 | 5.93 | 35.05 | 41.74 | 54.00 | 12.26 | AV | |
| | 3505.144 | 37.28 | 31.53 | 6.17 | 34.71 | 40.27 | 54.00 | 13.73 | | |

Model No. : LC-55U Humidity : 60%RH

Test Mode : HDMI 3840*2160@60Hz & Date of Test : Aug 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 | |
|--------------|-----------------|-----------------------------|-----------------------------|-----------------------|--------------------------|--------------------------------|-------------------------|-------------|--------|--|
| | 45.535 | 23.67 | 9.90 | 0.68 | 0.00 | 34.25 | 40.00 | 5.75 | | |
| | 75.977 | 21.96 | 8.41 | 0.87 | 0.00 | 31.24 | 40.00 | 8.76 | | |
| | 130.837 | 24.87 | 12.88 | 1.19 | 0.00 | 38.94 | 43.50 | 4.56 | QP | |
| | 425.028 | 21.11 | 16.35 | 2.10 | 0.00 | 39.56 | 46.00 | 6.44 | | |
| | 654.232 | 19.44 | 19.25 | 2.63 | 0.00 | 41.32 | 46.00 | 4.68 | | |
| Vertical | 891.010 | 19.30 | 21.10 | 3.07 | 0.00 | 43.47 | 46.00 | 2.53 | | |
| Vertical | 1752.110 | 70.13 | 26.63 | 4.11 | 35.37 | 65.50 | 74.00 | 8.50 | | |
| | 3164.836 | 64.67 | 30.86 | 5.93 | 35.03 | 66.43 | 74.00 | 7.57 | PK | |
| | 3517.727 | 60.56 | 31.56 | 6.17 | 34.70 | 63.59 | 74.00 | 10.41 | | |
| | 1752.110 | 46.22 | 26.63 | 4.11 | 35.37 | 41.59 | 54.00 | 12.41 | | |
| | 3164.836 | 42.93 | 30.86 | 5.93 | 35.03 | 44.69 | 54.00 | 9.31 | AV | |
| | 3517.727 | 38.22 | 31.56 | 6.17 | 34.70 | 41.25 | 54.00 | 12.75 | | |

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EUT : LED LCD TV Temperature : 22° C

Model No. : LC-55U Humidity : 60° RH

Test Mode : HDMI 1920*1080@60Hz Date of Test : Aug 08, 2016 & 1kHz Playing

| Polarization | Frequency (MHz) | Meter Reading dB (µV) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (µV/m) | Limits dB (µV/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------------|-----------------------|--------------------------------|------------------|-------------|
| | 85.898 | 23.21 | 10.20 | 0.93 | 34.34 | 40.00 | 5.66 |
| | 148.963 | 21.98 | 12.16 | 1.28 | 35.42 | 43.50 | 8.08 |
| Horizontal | 242.525 | 21.54 | 12.28 | 1.61 | 35.43 | 46.00 | 10.57 |
| Попідопіаї | 297.224 | 22.52 | 13.60 | 1.75 | 37.87 | 46.00 | 8.13 |
| | 742.259 | 16.94 | 19.57 | 2.79 | 39.30 | 46.00 | 6.70 |
| | 903.309 | 15.16 | 21.25 | 3.09 | 39.50 | 46.00 | 6.50 |
| | 72.700 | 26.00 | 7.91 | 0.85 | 34.76 | 40.00 | 5.24 |
| | 145.600 | 24.00 | 12.54 | 1.26 | 37.80 | 43.50 | 5.70 |
| Vantical | 225.308 | 19.70 | 11.30 | 1.56 | 32.56 | 46.00 | 13.44 |
| Vertical | 425.028 | 18.50 | 16.35 | 2.10 | 36.95 | 46.00 | 9.05 |
| | 675.208 | 12.67 | 19.47 | 2.67 | 34.81 | 46.00 | 11.19 |
| | 903.309 | 14.66 | 21.25 | 3.09 | 39.00 | 46.00 | 7.00 |

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EUT : LED LCD TV Temperature : 22° C

Model No. : LC-55U Humidity : 60° RH

Test Mode : HDMI 1280*1024@60Hz Date of Test : Aug 08, 2016 & 1kHz Playing

| Polarization | Frequency (MHz) | Meter Reading dB (µV) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (µV/m) | Limits dB ($\mu V/m$) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------------|-----------------------|--------------------------------|-------------------------|-------------|
| | 75.446 | 25.52 | 8.38 | 0.87 | 34.77 | 40.00 | 5.23 |
| | 146.374 | 20.76 | 12.48 | 1.26 | 34.50 | 43.50 | 9.00 |
| Horizontal | 241.676 | 20.35 | 12.22 | 1.61 | 34.18 | 46.00 | 11.82 |
| Попідопіаї | 393.472 | 21.18 | 16.17 | 2.02 | 39.37 | 46.00 | 6.63 |
| | 432.546 | 20.88 | 16.44 | 2.12 | 39.44 | 46.00 | 6.56 |
| | 851.035 | 16.05 | 20.57 | 3.00 | 39.62 | 46.00 | 6.38 |
| | 73.359 | 26.16 | 8.02 | 0.86 | 35.04 | 40.00 | 4.96 |
| | 145.600 | 24.50 | 12.54 | 1.26 | 38.30 | 43.50 | 5.20 |
| Vertical | 220.617 | 20.67 | 11.05 | 1.55 | 33.27 | 46.00 | 12.73 |
| vertical | 278.067 | 17.78 | 13.35 | 1.71 | 32.84 | 46.00 | 13.16 |
| | 682.348 | 15.12 | 19.52 | 2.67 | 37.31 | 46.00 | 8.69 |
| | 848.056 | 13.35 | 20.50 | 2.98 | 36.83 | 46.00 | 9.17 |

Hisense Electric Co., Ltd. FCC ID: W9HLCDF0088 Page 29 of 35

EUT : LED LCD TV Temperature : 22° C

Model No. : LC-55U Humidity : 60° RH

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

| Polarization | Frequency (MHz) | Meter Reading dB (µV) | Antenna Factor (dB/m) | | Emission Level dB (µV/m) | Limits dB ($\mu V/m$) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------------|------|--------------------------------|-------------------------|-------------|
| | 76.512 | 24.84 | 8.49 | 0.87 | 34.20 | 40.00 | 5.80 |
| | 146.374 | 22.35 | 12.48 | 1.26 | 36.09 | 43.50 | 7.41 |
| Horizontal | 242.525 | 22.64 | 12.28 | 1.61 | 36.53 | 46.00 | 9.47 |
| Пописний | 580.703 | 15.37 | 18.25 | 2.46 | 36.08 | 46.00 | 9.92 |
| | 658.836 | 14.12 | 19.20 | 2.63 | 35.95 | 46.00 | 10.05 |
| | 848.056 | 13.78 | 20.50 | 2.98 | 37.26 | 46.00 | 8.74 |
| | 74.135 | 25.93 | 8.13 | 0.86 | 34.92 | 40.00 | 5.08 |
| | 145.200 | 24.80 | 12.60 | 1.26 | 38.66 | 43.50 | 4.84 |
| Vertical | 226.894 | 19.84 | 11.38 | 1.57 | 32.79 | 46.00 | 13.21 |
| | 277.094 | 18.06 | 13.27 | 1.70 | 33.03 | 46.00 | 12.97 |
| | 679.960 | 13.71 | 19.60 | 2.67 | 35.98 | 46.00 | 10.02 |
| | 851.035 | 13.90 | 20.57 | 3.00 | 37.47 | 46.00 | 8.53 |

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EUT : LED LCD TV Temperature : 22°C

Model No. : LC-55U Humidity : 60%RH

Test Mode : D-Sub 1920*1080@60Hz Date of Test : Aug 08, 2016

& 1kHz Playing

| Polarization | Frequency (MHz) | Meter Reading dB (µV) | Antenna Factor (dB/m) | | Emission Level dB (µV/m) | Limits dB ($\mu V/m$) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------------|------|--------------------------------|-------------------------|-------------|
| | 75.977 | 25.29 | 8.41 | 0.87 | 34.57 | 40.00 | 5.43 |
| | 148.441 | 23.62 | 12.23 | 1.27 | 37.12 | 43.50 | 6.38 |
| Horizontal | 245.090 | 23.85 | 12.40 | 1.62 | 37.87 | 46.00 | 8.13 |
| Попідопіаї | 297.224 | 25.03 | 13.60 | 1.75 | 40.38 | 46.00 | 5.62 |
| | 845.088 | 16.40 | 20.40 | 2.98 | 39.78 | 46.00 | 6.22 |
| | 890.960 | 15.30 | 21.10 | 3.07 | 39.47 | 46.00 | 6.53 |
| | 32.730 | 17.40 | 16.78 | 0.58 | 34.76 | 40.00 | 5.24 |
| | 46.666 | 23.52 | 9.51 | 0.68 | 33.71 | 40.00 | 6.29 |
| Vertical | 75.182 | 25.78 | 8.34 | 0.86 | 34.98 | 40.00 | 5.02 |
| | 150.011 | 24.68 | 12.10 | 1.28 | 38.06 | 43.50 | 5.44 |
| | 423.540 | 21.29 | 16.33 | 2.10 | 39.72 | 46.00 | 6.28 |
| | 658.836 | 16.39 | 19.20 | 2.63 | 38.22 | 46.00 | 7.78 |

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EUT : LED LCD TV Temperature : 22° C

Model No. : LC-55U Humidity : 60° RH

Test Mode : HDMI1080P Date of Test : Aug 08, 2016

| Polarization | Frequency (MHz) | Meter Reading dB (µV) | Antenna Factor (dB/m) | | Emission Level dB (µV/m) | Limits dB (µV/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------------|------|--------------------------------|------------------|-------------|
| | 75.446 | 25.11 | 8.38 | 0.87 | 34.36 | 40.00 | 5.64 |
| | 147.404 | 23.15 | 12.35 | 1.27 | 36.77 | 43.50 | 6.73 |
| Horizontal | 329.039 | 19.00 | 14.44 | 1.85 | 35.29 | 46.00 | 10.71 |
| Horizontal | 425.880 | 20.30 | 16.37 | 2.10 | 38.77 | 46.00 | 7.23 |
| | 684.745 | 20.56 | 19.45 | 2.69 | 42.70 | 46.00 | 3.30 |
| | 742.480 | 20.10 | 19.57 | 2.79 | 42.46 | 46.00 | 3.54 |
| | 30.962 | 16.25 | 17.71 | 0.57 | 34.53 | 40.00 | 5.47 |
| | 74.396 | 25.22 | 8.19 | 0.86 | 34.27 | 40.00 | 5.73 |
| Vertical | 144.842 | 24.04 | 12.60 | 1.26 | 37.90 | 43.50 | 5.60 |
| | 420.580 | 18.78 | 16.32 | 2.09 | 37.19 | 46.00 | 8.81 |
| | 658.836 | 17.09 | 19.20 | 2.63 | 38.92 | 46.00 | 7.08 |
| | 906.500 | 18.40 | 21.30 | 3.09 | 42.79 | 46.00 | 3.21 |

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EUT : LED LCD TV Temperature : 22° C

Model No. : LC-55U Humidity : 60° RH

Test Mode : USB Play Date of Test : Aug 08, 2016

| Polarization | Frequency (MHz) | Meter Reading dB (μV) | Antenna Factor (dB/m) | | Emission Level dB (µV/m) | Limits dB ($\mu V/m$) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------------|------|--------------------------------|-------------------------|-------------|
| | 75.446 | 23.37 | 8.38 | 0.87 | 32.62 | 40.00 | 7.38 |
| | 145.861 | 18.00 | 12.48 | 1.26 | 31.74 | 43.50 | 11.76 |
| Horizontal | 327.887 | 23.96 | 14.39 | 1.85 | 40.20 | 46.00 | 5.80 |
| Попідопіаї | 683.800 | 18.01 | 19.52 | 2.69 | 40.22 | 46.00 | 5.78 |
| | 845.088 | 15.75 | 20.40 | 2.98 | 39.13 | 46.00 | 6.87 |
| | 890.728 | 14.92 | 21.10 | 3.07 | 39.09 | 46.00 | 6.91 |
| | 33.328 | 14.35 | 16.57 | 0.59 | 31.51 | 40.00 | 8.49 |
| | 67.202 | 25.74 | 7.12 | 0.82 | 33.68 | 40.00 | 6.32 |
| Vertical | 145.351 | 23.96 | 12.54 | 1.26 | 37.76 | 43.50 | 5.74 |
| | 329.039 | 21.30 | 14.44 | 1.85 | 37.59 | 46.00 | 8.41 |
| | 683.800 | 17.61 | 19.52 | 2.69 | 39.82 | 46.00 | 6.18 |
| | 884.503 | 15.77 | 21.05 | 3.05 | 39.87 | 46.00 | 6.13 |

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EUT : LED LCD TV Temperature : 22° C

Model No. : LC-55U Humidity : 60%RH

Test Mode : LAN Play Date of Test : Aug 08, 2016

| Polarization | Frequency (MHz) | Meter Reading dB (µV) | Antenna Factor (dB/m) | | Emission Level dB (µV/m) | Limits dB (µV/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------------|------|--------------------------------|------------------|-------------|
| | 73.876 | 24.19 | 8.13 | 0.86 | 33.18 | 40.00 | 6.82 |
| | 148.963 | 24.16 | 12.16 | 1.28 | 37.60 | 43.50 | 5.90 |
| Horizontal | 164.908 | 25.06 | 11.10 | 1.35 | 37.51 | 43.50 | 5.99 |
| Поптенца | 297.224 | 24.45 | 13.60 | 1.75 | 39.80 | 46.00 | 6.20 |
| | 683.800 | 17.51 | 19.52 | 2.69 | 39.72 | 46.00 | 6.28 |
| | 851.035 | 15.39 | 20.57 | 3.00 | 38.96 | 46.00 | 7.04 |
| | 57.796 | 25.38 | 7.14 | 0.76 | 33.28 | 40.00 | 6.72 |
| | 74.135 | 24.25 | 8.13 | 0.86 | 33.24 | 40.00 | 6.76 |
| Vertical | 145.861 | 23.33 | 12.48 | 1.26 | 37.07 | 43.50 | 6.43 |
| | 297.000 | 24.20 | 13.60 | 1.75 | 39.55 | 46.00 | 6.45 |
| | 679.960 | 17.50 | 19.60 | 2.67 | 39.77 | 46.00 | 6.23 |
| | 887.610 | 16.13 | 21.10 | 3.07 | 40.30 | 46.00 | 5.70 |

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5 DEVIATION TO TEST SPECIFICATIONS

None.

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6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

| Name | M/N | Manufacturer | Location |
|------------------|---------|---|------------------------|
| Conductive cloth | 1152498 | Qingdao Joinset Co., Ltd | See Appendix Figure 23 |
| Ferrite Core | 1029955 | Jiangsu Ruifeng Electronics Co., Ltd | See Appendix Figure 24 |
| SMcontact | 1146214 | Qingdao Joinset Co., Ltd | See Appendix Figure 25 |

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:

Audix Technology (Shanghai) Co., Ltd. Report No.: ACI-F16196