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

## LED LCD TV

| Model No. | Brand |
|---|---|
| 50CU6000 | Hisense |
| 50H6C | |

FCC ID : W9HLCDF0054

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-F15058A8
Date of Test : Sep 01-05, 2016
Date of Report : Sep 12, 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.

EUT Description : LED LCD TV

| Model No. | Brand | Power Supply |
|---|---|---|
| Refer to Sec2.1 | Hisense | 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 Sep 01-05, 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.F15059A8, a Verification report.***

Date of Test : Sep 01-05, 2016 Date of Report : Sep 12, 2016

Producer : Tina Liang
TINA LIANG / Assistant

Review : Byron Wu
For and on behalf of
BYRON WU / Deputy Assistant Manager
Audix Technology (Shanghai) Co., Ltd.

Signatory :
Authorized Signature EMC BYRON KWO / 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:

| 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 |

# 2 GENERAL INFORMATION

## 2.1 Description of Equipment Under Test

Description : LED LCD TV

Type of EUT : ☑ Production ☐ Pre-product ☐ Pro-type

Model No. : 50CU6000, 50H6C

Note #1 : The above models are all the same except for model name.
50CU6000 model is tested and recorded in the report.

Note #2 : The modified histories of report are as follows:

| Report No. | Model No. | Rev. Summary | Edition No. | Data of Rev. |
|---|---|---|---|---|
| ACI-F15058 | LTDN50K3201GUWUS, 50H7GB, 50H7GB* | Original Report | 0 | Jan 19, 2015 |
| ACI-F15058A1 | 50H7GB1 | 1. To add one new model name | Rev. A1 | Apr 03, 2015 |
| ACI-F15058A2 | 50H7GB2,50H7GB3 50H7GB4 | 1.To add three new model name 2.To change LCD Panel and Power Board | Rev. A2 | Jul 15, 2015 |
| ACI-F15058A3 | 50H7GB, 50H7GB1 | 1.To add Panel, Main board heat sink grounding | Rev. A3 | Sep 22, 2015 |
| ACI-F15058A4 | 50H7C, 50H7C+ | To add two new model name | Rev. A4 | Mar 18, 2016 |
| ACI-F15058A5 | 50H7GB, 50H7GB1 50H7C, 50H7C+ | To add Panel, Main board | Rev. A5 | May 13, 2016 |
| ACI-F15058A6 | 50H7GB, 50H7GB1 50H7C, 50H7C+ 50CU6000 | To add one model name, one base and one article decoration. | Rev. A6 | Jul 20, 2016 |
| ACI-F15058A7 | 50H7GB, 50H7GB1 50H7C, 50H7C+ 50CU6000, 50H6C | To add one new model name | Rev. A7 | Aug 15, 2016 |
| ACI-F15058A8 | 50CU6000, 50H6C | To add WiFi module | Rev. A8 | Sep 12, 2016 |

Note #3 : According to the modification, we select the worst test mode to retest and record in this report.

Brand Name : Hisense

| | | |
|---|---|---|
| Applicant | : | Hisense Electric Co., Ltd.<br>No.218 Qianwangang Road, Economy &<br>Technology Development Zone, Qingdao, China |
| Manufacturer | : | Hisense Electric Co., Ltd.<br>No.218 Qianwangang Road, Economy &<br>Technology Development Zone, Qingdao, China |
| Factory #1 | : | Hisense Electric Co., Ltd.<br>No.218 Qianwangang Road, Economy &<br>Technology Development Zone, Qingdao, China |
| Factory #2 | : | Tatung Mexico S.A. de C.V.<br>Miguel Catalán 420, Parque Industrial Rio Bravo,<br>Cd. Juarez, Chih., CP 32557 |
| LCD Panel | : | Manufacturer : Hisense<br>M/N : HD500DU-B01(010) |
| Tuner | : | Manufacturer : XuGuang Tech.Co., Ltd<br>M/N : HFT-96S3/W11FJ2H\ROH |
| Max Resolution | : | 3840*2160@60Hz |
| HDMI Cable*4<br>(Lab provide) | : | Shielded, Detachable, 1.50m with two cores |
| Power Cord | : | Unshielded, Detachable, 1.80m 2C |
| LAN Cable | : | Shielded, Detachable, 1.50m |
| USB Cable*3 | : | Shielded, Detachable, 1.00m |

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

Back Port:

(1) One LAN Port
: Connected with PC

(2) One HDMI3 Port
: Connected with PC

(3) One HDMI4 Port
: Connected with DVD PLAYER#2

(4) One Digital Audio out Port
: Audio Converter to Earphone

(5) One component of Video/YPbPr Port
: Connected with DVD PLAYER#1

Side Port:

(1) One USB3 Port
: Connected with Hard-Disk#3

(2) One HDMI1/MHL Port
: Connected with Mobile Phone

(3) One HDMI2/ARC Port
: Connected with DVD PLAYER#1
(4) One Audio out Port
: Connected with Earphone
(5) One USB2 Port
: Connected with Hard-Disk #1
(6) One USB1 Port
: Connected with Hard-Disk #2
(7) One ANT/CABLE IN Port
: Connected with Antenna or ATSC SG / TV SG
(8) One Service Port
: Do not open to the costumers

## 2.2 Peripherals

### 2.2.1 PC

| | | |
|---|---|---|
| Manufacturer | : | HP |
| Model Number | : | Pro3340 |
| Serial Number | : | 6CR2512VFD |
| Power Cord | : | Unshielded, 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, undetachable, 1.8m |
| 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, Undetachable, 1.8m. |
| 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, 1.8m |
| Certificate | : | CCC |

### 2.2.5 Earphone*2

| | | |
|---|---|---|
| Manufacturer | : | Edifier |
| Model Number | : | H210 |

2.2.6 TV Signal Generator

Manufacturer : FLUKE
Model Number : 54200m01
Serial Number : 814008
Data Cable : Shielded, detachable, 2.0m
Power Cord : Unshielded, detachable, 2.0m

2.2.7 ATSC Signal Generator

Manufacturer : SENCORE
Model Number : ATSC997
Serial Number : 6790071

2.2.8 DVD PLAYER #1

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

2.2.9 DVD PLAYER #2

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

2.2.10 Hard Disk#1

Manufacturer : Tetasys
Model Number : F12
Serial Number : A010022-4860010X
Certificate : FCC Doc CE

2.2.11 Hard Disk #2

Manufacturer : Tetasys
Model Number : F12
Serial Number : A010022-4A60007
Certificate : FCC Doc CE

2.2.12 Hard Disk #3

Manufacturer : Tetasys
Model Number : F12
Serial Number : A010022-486006
Certificate : FCC Doc CE

2.2.13 Mobile Phone

Manufacturer : SAMSUNG
Model Number : GT-I9100G
Serial Number : 6935152011519
Certificate : CE/EMC

## 2.3 Description of Test Facility

| | | |
|---|---|---|
| Site Description (No.3 3m Chamber) | : | Sept. 17, 1998 file on<br>Jan 15, 2015 Renewed<br>Federal Communications Commission<br>FCC Engineering Laboratory<br>7435 Oakland Mills Road<br>Columbia, MD 21046, USA |
| Name of Firm | : | Audix Technology (Shanghai) Co., Ltd. |
| Site Location | : | 3F 34Bldg 680 Guiping Rd,<br>Caohejing Hi-Tech Park,<br>Shanghai 200233, China |
| NVLAP Lab Code | : | 200371-0 |

## 2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty : U = 2.8dB

Radiated Emission Expanded Uncertainty (30-200MHz):

U = 4.4dB (Horizontal)

U = 4.4dB (Vertical)

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

U = 4.4dB (Horizontal)

U = 5.5dB (Vertical)

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

U = 5.1 dB

# 3 CONDUCTED EMISSION TEST

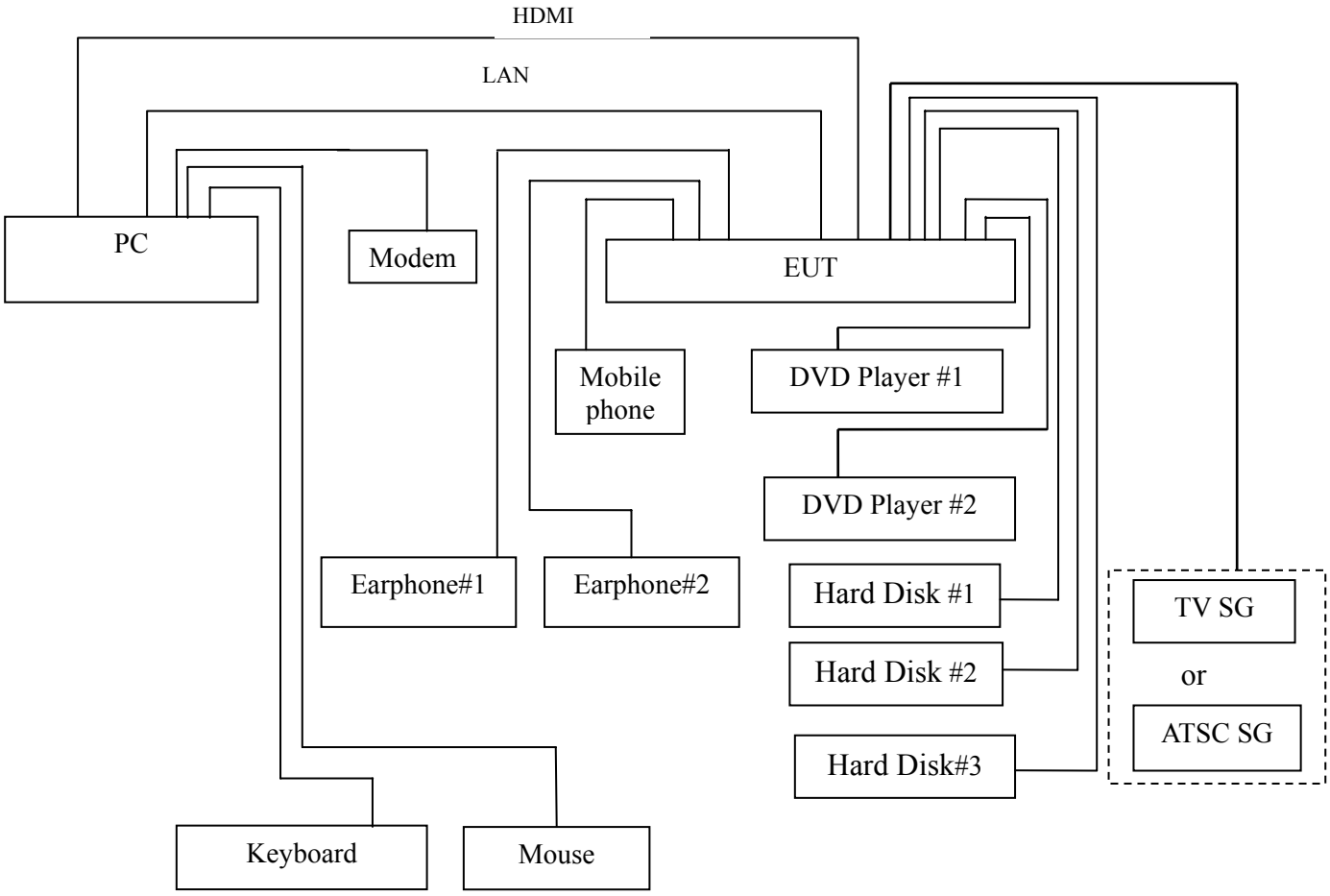
## 3.1 Test Equipment

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

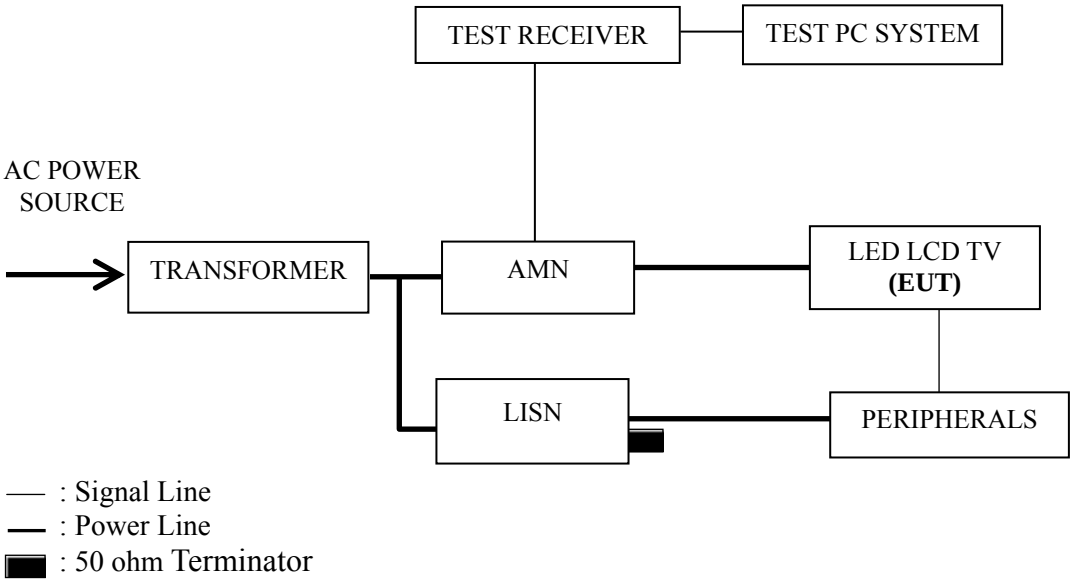
| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | R&S | ESCI | 101303 | May 07, 2016 | May 06, 2017 |
| 2. | Artificial Mains Network (AMN) | R&S | ENV4200 | 100125 | Jun 25, 2016 | Jun 24, 2017 |
| 3. | Line Impedance Stabilization Network (LISN) | Kyoritsu | KNW-407 | 8-1280-4 | Mar 20, 2016 | Mar 19, 2017 |
| 4. | 50Ω Coaxial Switch | Anritsu | MP59B | 6200426389 | Mar 18, 2016 | Sep 17, 2016 |
| 5. | 50Ω Terminator | Anritsu | BNC | 001 | Mar 20, 2016 | Mar 19, 2017 |
| 6. | Software | Audix | E3 | 6.111206 | -- | -- |

## 3.2 Block Diagram of Test Setup

### 3.2.1 EUT & Peripherals



### 3.2.2 Conducted Disturbance Test Setup




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

| Frequency Range (MHz) | Limits dB (μV) | |
|---|---|---|
| | 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 MHz~0.50 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 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 0.458 MHz (Average Value) with corrected signal level of 42.50 dB (μV) (limit is 56.12 dB (μV)), when the Neutral of the EUT is connected to AMN.

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LED LCD TV | Temperature : | 22℃ | |
| Model No. | : | 50CU6000 | Humidity : | 48%RH | |
| Test Mode | : | HDMI 3840*2160@60Hz & 1KHz playing | Date of Test : | Sep 01, 2016 | |

| Test Line | Frequency (MHz) | Meter Reading dB(μV) | Factor (dB) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| Line | 0.199 | 32.20 | 10.53 | 42.73 | 63.64 | 20.91 | QP |
| | 0.459 | 29.90 | 10.41 | 40.31 | 56.72 | 16.41 | |
| | **0.594** | **31.31** | **10.39** | **41.70** | **56.00** | **14.30** | |
| | 1.191 | 28.49 | 10.41 | 38.90 | 56.00 | 17.10 | |
| | 2.765 | 26.19 | 10.43 | 36.62 | 56.00 | 19.38 | |
| | 7.273 | 31.90 | 10.47 | 42.37 | 60.00 | 17.63 | |
| | 0.199 | 21.20 | 10.53 | 31.73 | 53.64 | 21.91 | AV |
| | 0.459 | 18.70 | 10.41 | 29.11 | 46.72 | 17.61 | |
| | 0.594 | 19.21 | 10.39 | 29.60 | 46.00 | 16.40 | |
| | 1.191 | 17.19 | 10.41 | 27.60 | 46.00 | 18.40 | |
| | 2.765 | 15.59 | 10.43 | 26.02 | 46.00 | 19.98 | |
| | 7.273 | 21.10 | 10.47 | 31.57 | 50.00 | 18.43 | |
| Neutral | 0.204 | 35.70 | 10.52 | 46.22 | 63.46 | 17.24 | QP |
| | **0.458** | **32.10** | **10.40** | **42.50** | **56.72** | **14.22** | |
| | 0.589 | 31.00 | 10.39 | 41.39 | 56.00 | 14.61 | |
| | 1.182 | 28.71 | 10.40 | 39.11 | 56.00 | 16.89 | |
| | 2.780 | 26.90 | 10.46 | 37.36 | 56.00 | 18.64 | |
| | 6.949 | 30.80 | 10.53 | 41.33 | 60.00 | 18.67 | |
| | 0.204 | 22.90 | 10.52 | 33.42 | 53.46 | 20.04 | AV |
| | 0.458 | 20.10 | 10.40 | 30.50 | 46.72 | 16.22 | |
| | 0.589 | 18.60 | 10.39 | 28.99 | 46.00 | 17.01 | |
| | 1.182 | 18.11 | 10.40 | 28.51 | 46.00 | 17.49 | |
| | 2.780 | 15.60 | 10.46 | 26.06 | 46.00 | 19.94 | |
| | 6.949 | 22.90 | 10.53 | 33.43 | 50.00 | 16.57 | |

TEST ENGINEER: WENCY YANG

# 4 RADIATED EMISSION TEST

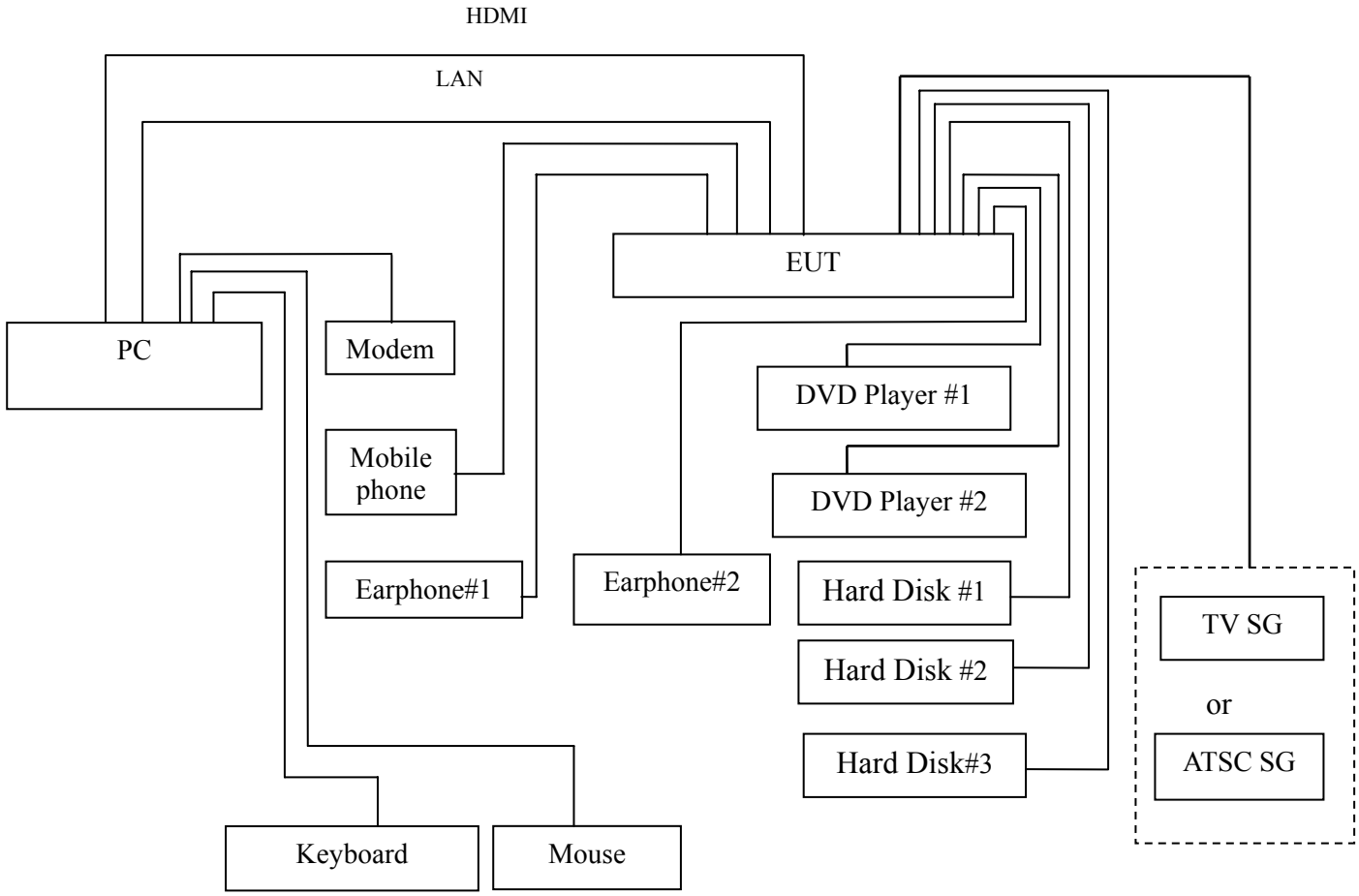
## 4.1 Test Equipment

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

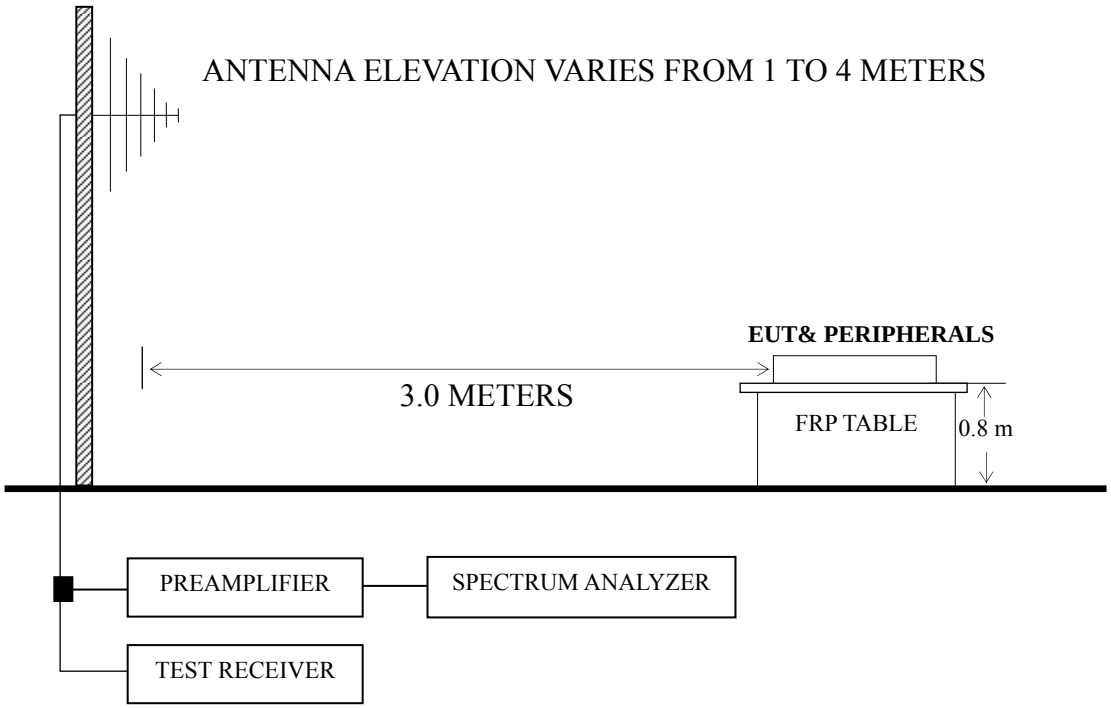
| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | R&S | ESCI | 101302 | Apr 27, 2016 | Apr 26, 2017 |
| 2. | Preamplifier | Agilent | 8447D | 2944A10548 | Mar 20, 2016 | Mar 19, 2017 |
| 3. | Preamplifier | HP | 8449B | 3008A00864 | May 03, 2016 | May 02, 2017 |
| 4. | Bi-log Antenna | TESEQ | CBL6112D | 23193 | May 11, 2016 | May 10, 2017 |
| 5. | Horn Antenna | EMCO | 3115 | 9607-4878 | Nov 11, 2016 | Nov 10, 2017 |
| 6. | Spectrum | Agilent | E7405A | MY45106600 | Mar 18, 2016 | Sep 17, 2016 |
| 7. | 50Ω Coaxial Switch | Anritsu | MP59B | 6200426390 | Mar 18, 2016 | Sep 17, 2016 |
| 8. | Software | Audix | E3 | 6.2007-9-10 | -- | -- |

## 4.2 Block Diagram of Test Setup

### 4.2.1 EUT & Peripherals



4.2.2 Radiated emission test setup




■ : 50 ohm Coaxial Switch

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

| Frequency (MHz) | Distance (m) | Field strength limits | |
|---|---|---|---|
| | | (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 (μV/m) = 20 log Emission Level (μV/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° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The worst emission at horizontal polarization was detected at 742.26 MHz with corrected signal level of 42.79dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 2.10 m height and the turntable was at 314°. The worst emission at vertical polarization was detected at 890.728 MHz with corrected signal level of 42.37dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.40 m height and the turntable was at 154°.

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LED LCD TV | Temperature : | 22℃ |
| Model No. | : | 50CU6000 | Humidity : | 60%RH |
| Test Mode | : | HDMI 3840*2160@60Hz & 1KHz playing | Date of Test : | Sep 05, 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 |
|---|---|---|---|---|---|---|---|---|---|
| Horizontal | 68.151 | 26.90 | 0.92 | 6.99 | -- | 34.81 | 40.00 | 5.19 | QP |
| | 245.951 | 23.66 | 2.14 | 12.34 | -- | 38.14 | 46.00 | 7.86 | |
| | 446.414 | 20.97 | 2.82 | 16.83 | -- | 40.62 | 46.00 | 5.38 | |
| | 668.142 | 19.38 | 3.16 | 19.60 | -- | 42.14 | 46.00 | 3.86 | |
| | **742.259** | **19.22** | **3.60** | **19.97** | -- | **42.79** | **46.00** | **3.21** | |
| | 890.728 | 16.65 | 4.46 | 21.30 | -- | 42.41 | 46.00 | 3.59 | |
| | 2529.778 | 60.20 | 28.53 | 4.96 | 35.16 | 58.53 | 74.00 | 15.47 | PK |
| | 2951.232 | 58.96 | 30.30 | 5.69 | 35.20 | 59.75 | 74.00 | 14.25 | |
| | 3369.664 | 58.65 | 31.25 | 6.10 | 34.83 | 61.17 | 74.00 | 12.83 | |
| | 2529.778 | 42.21 | 28.53 | 4.96 | 35.16 | 40.54 | 54.00 | 13.46 | AV |
| | 2951.232 | 40.39 | 30.30 | 5.69 | 35.20 | 41.18 | 54.00 | 12.82 | |
| | 3369.664 | 39.30 | 31.25 | 6.10 | 34.83 | 41.82 | 54.00 | 12.18 | |

TEST ENGINEER: CAESAR WU

| | | | | | |
|---|---|---|---|---|---|
| EUT | : | LED LCD TV | Temperature : | 22℃ |
| Model No. | : | 50CU6000 | Humidity : | 60%RH |
| Test Mode | : | HDMI 3840*2160@60Hz & 1KHz playing | Date of Test : | Sep 05, 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 |
|---|---|---|---|---|---|---|---|---|---|
| Vertical | 53.882 | 26.37 | 0.84 | 6.74 | -- | 33.95 | 40.00 | 6.05 | QP |
| | 70.337 | 26.19 | 0.95 | 7.38 | -- | 34.52 | 40.00 | 5.48 | |
| | 133.151 | 22.20 | 1.54 | 12.67 | -- | 36.41 | 43.50 | 7.09 | |
| | 665.804 | 19.28 | 3.16 | 19.60 | -- | 42.04 | 46.00 | 3.96 | |
| | 742.259 | 18.30 | 3.60 | 19.97 | -- | 41.87 | 46.00 | 4.13 | |
| | **890.728** | **16.61** | **4.46** | **21.30** | -- | **42.37** | **46.00** | **3.63** | |
| | 2118.583 | 57.04 | 27.73 | 4.58 | 35.11 | 54.24 | 74.00 | 19.76 | PK |
| | 2538.859 | 63.66 | 28.57 | 4.96 | 35.16 | 62.03 | 74.00 | 11.97 | |
| | 2967.138 | 62.32 | 30.37 | 5.76 | 35.20 | 63.25 | 74.00 | 10.75 | |
| | 2118.583 | 37.48 | 27.73 | 4.58 | 35.11 | 34.68 | 54.00 | 19.32 | AV |
| | 2538.859 | 44.20 | 28.57 | 4.96 | 35.16 | 42.57 | 54.00 | 11.43 | |
| | 2967.138 | 45.29 | 30.37 | 5.76 | 35.20 | 46.22 | 54.00 | 7.78 | |

TEST ENGINEER: CAESAR WU

# 5 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

| Name | M/N | Manufacturer | Location |
|---|---|---|---|
| Al Tape | FFC-80-65-P | Foshan City Shunde District Hehui Electronic CO.,Ltd | See Internal Photos Figure 22 |
| Gasket | JCT-RF-5-0.12-50 | JOINSET | See Internal Photos Figure 23 |

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)**

# 6 DEVIATION TO TEST SPECIFICATIONS

None

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