

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

LCD TV/DVD COMBO

Model No.: LCD19W57DCA

Serial No.: E2009092704

Brand: Hisense

FCC ID : W9HLCDX0001

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

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Report No. : ACI-F09064A1
Date of Test : Sep 29, 2009
Date of Report : Oct 09, 2009

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TEST REPORT FOR FCC CERTIFICATE

Applicant : Hisense Electric Co., Ltd.
 Manufacturer : Hisense Electric Co., Ltd.
 EUT Description : LCD TV/DVD COMBO
 (A) Model No. : LCD19W57DCA
 (B) Serial No. : E2009092704
 (C) Brand : Hisense
 (D) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2008
AND ANSI C63.4-2003*

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 Sec.2.1; S/N: Refer to Sec.2.1) which was tested in 3m anechoic chamber Sep 29, 2009 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 contains data that are not covered by the NVLAP accreditation.

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 function are contained in No.F09063A1, a Verification report.

Date of Test : Sep 29, 2009 Date of Report : Oct 09, 2009

Producer : Alan He
 ALAN HE / Assistant

Review : Byron Wu
 BYRON WU / Supervisor



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

Signatory : Dio Yang
 Authorized Signature EMC DIO YANG / Deputy Assistant 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 2008 AND ANSI C63.4-2003 | 15.107(a) Class B | Pass |
| Radiated Disturbance | FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 AND ANSI C63.4-2003 | 15.109(a) Class B | Pass |

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description : LCD TV/DVD COMBO

Type of EUT : Production Pre-product Pro-type

Model No. : LCD19W57DCA

Serial No. : E2009092704

Brand : Hisense

Note 1 : The difference list for all models are as follows:

| Report No. | Model No. | Rev. Summary | Edition No. | Data of Rev. |
|--------------|-------------|-------------------------------------------------------------------------------------------------------|-------------|--------------|
| ACI-F09064 | LCD19W57DCA | Original Report. | 0 | Jul 22, 2009 |
| ACI-F09064A1 | | (1) To change LCD panel. (2) To change AC adapter (3) To change label (4) To change EUT name | Rev. A1 | Oct 09, 2009 |

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

LCD Panel : Manufacturer : CHI MEI
M/N : V185B1 -L01

Tuner : Manufacturer : Wuxi Components 6th Factory
M/N : FTDC3Y13MH05/ROH

AC Adapter : Manufacturer : Huizhou Sanhua Industrial Co., Ltd.
M/N : SAWA-07-41612
Input : 100-240V AC, 50/60Hz, 1.5A.
Output : 12V ----- 4.16A

Max Resolution : 1360*768@60Hz

D-Sub Cable : Shielded, Detachable, 1.85m,
with two cores on cable

- HDMI Cable : Shielded, Detachable, 1.85m,
without core on cable
- Power Cord : Unshielded, Detachable, 1.80m

Remark:

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

Bottom View:

- | | | |
|------------|-----------------------------|--------------------------------|
| (1) | One DC Input Port | Connected with Adapter |
| (2) | One Service Port | Do not open to Customer |
| (3) | One HDMI Port | Connected with DVD |
| (4) | One VGA Audio Port | Connected with PC |
| (5) | One VGA Port | Connected with PC |
| (6) | One Component of AV Port | Connected with DVD |
| (7) | One Component of YPbPr Port | Connected with DVD |
| (8) | One S-Video Port | Connected with TV SG |
| (9) | One Earphone Port | Connected with Earphone |
| (10) | One ANT Port | Connected with TV SG / ATSC SG |
| (11) | One COAXIAL Port | Connected with DVD |
| Side Port: | | |
| (12) | One USB Slot | Insert with U-Disk |
| (13) | One SD/MS/MMC Card Slot | Insert with SD Card |

2.2 Peripherals

2.2.1 PC

Manufacturer : HP
Model Number : dx7200MT
Serial Number : CNG622017W
Power Cord : Unshielded, Detachable, 1.8m
Certificate : FCC DoC; CE/EMC; VCCI; C-Tick; UL
BSMI (R33001) 3C (A000111)
MIC (E-A011-04-2659(B))

2.2.2 Printer

Manufacturer : HP
Model Number : C3990A
Serial Number : JPZX020487
Data Cable : Shielded, detachable, 1.5m
Certificate : GS, CE/EMC, C-Tick, FCC DoC

2.2.3 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

2.2.4 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

2.2.5 Modem

Manufacturer : TP-LINK
Model Number : TM-EC5658V
Serial Number : 07123301053
Data Cable : Shielded, Detachable, 1.8m
Certificate : FCC DoC, CE/EMC, CCC

2.2.6 Earphone

Manufacturer : SONY
Model Number : MDR-E808
Serial Number : 1808030805305506

2.2.7 TV Signal Generator

Manufacturer : FLUKE
Model Number : 54200m01
Serial Number : 814008
Power Cord : Unshielded, detachable, 2.0m
Certificate : CE/EMC, FCC DoC, CCC

2.2.8 ATSC Signal Generator

Manufacturer : SENCORE
Model Number : ATSC997
Serial Number : 6790071

2.2.9 DVD

Manufacturer : PHILIPS
Model Number : DVP3986K/93
Serial Number : KX1A0902120108
Certificate : FCC DoC, CE/EMC, CCC

2.2.10 U-DISK

Manufacturer : LG
Model Number : 1GB
Serial Number : N/A

2.2.11 SD Card

Manufacturer : Transcend
Model Number : MM8GF01GWMCE-PA
Serial Number : BF35700653

2.3 Description of Test Facility

| | | |
|---------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site Description (Semi-Anechoic Chamber) | : | Sept. 17, 1998 file on Apr 29, 2009 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 |
| NVLAP Lab Code | : | 200371-0 |

2.4 Measurement Uncertainty

| | |
|------------------------------------------|-------------|
| Conducted Emission Expanded Uncertainty: | U = 1.26 dB |
| Radiated Emission Expanded Uncertainty : | U = 3.02 dB |

3 CONDUCTED EMISSION TEST

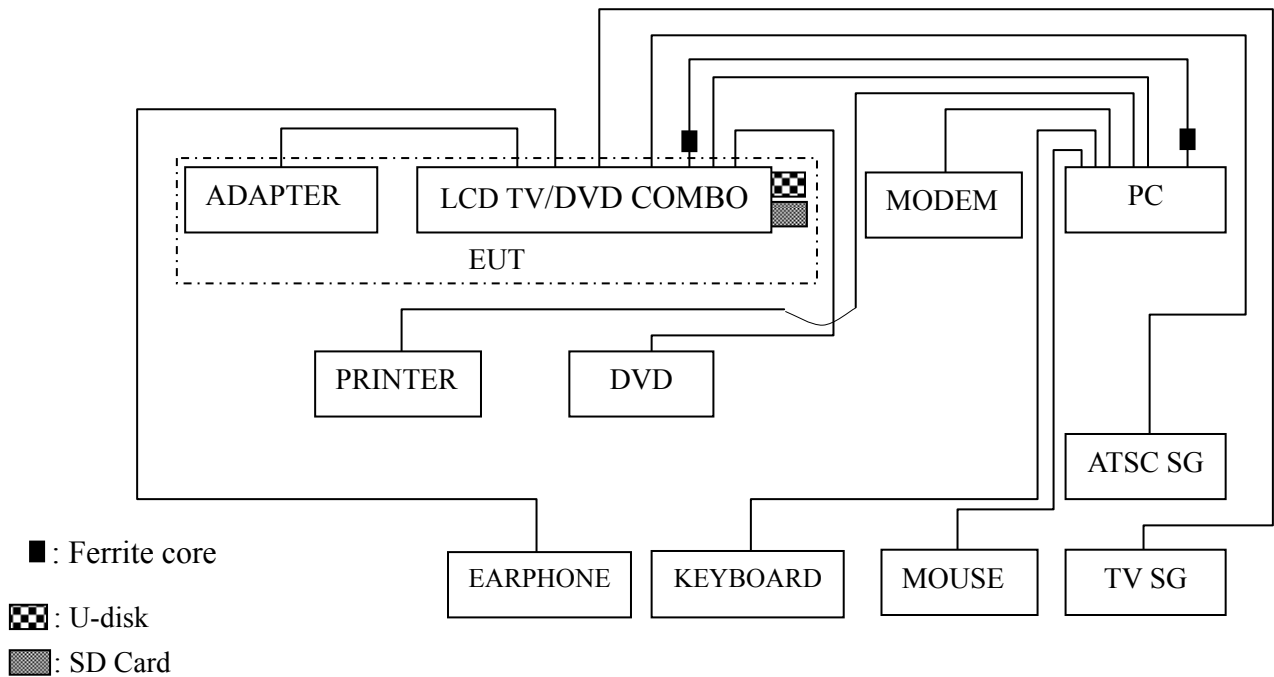
3.1.1 Test Equipment

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

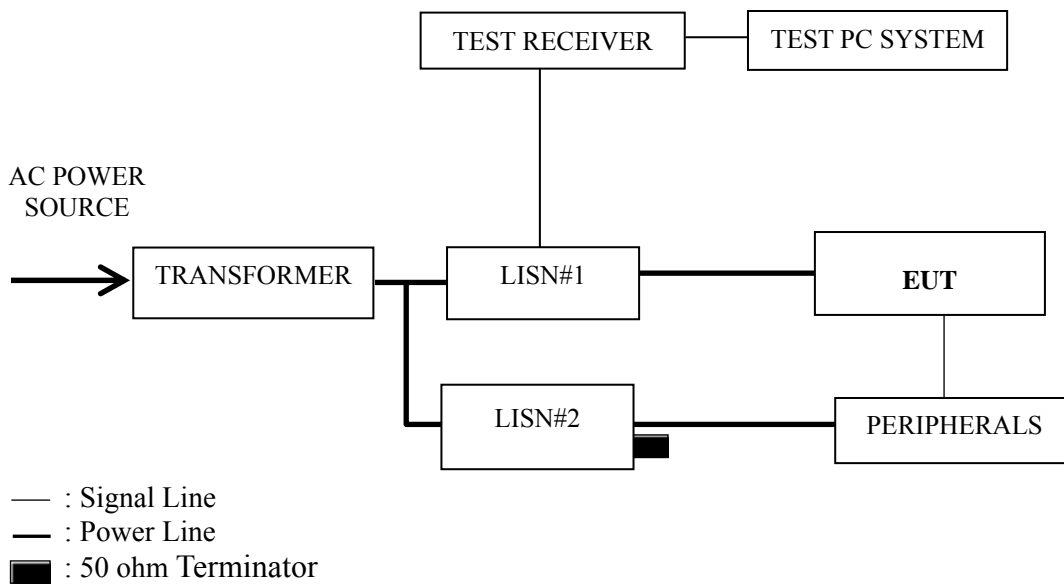
| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------|------------------------------------------------|--------------|-----------|----------------------|--------------|--------------|
| 1. | Test Receiver | R&S | ESCI | 100841 | Nov 21, 2008 | Nov 21, 2009 |
| 2. | Line Impedance Stabilization Network (LISN #1) | Schwarzbeck | NNLK8129 | 8129-164 | Apr 02, 2009 | Apr 02, 2010 |
| 3. | Line Impedance Stabilization Network (LISN#2) | Kyoritsu | KNW-407 | 8-1280-4 | Apr 02, 2009 | Apr 02, 2010 |
| 4. | 50 Ω Coaxial Switch | Anritsu | MP59B | 6200426389 | Sep 19, 2009 | Mar 19, 2010 |
| 5. | 50 Ω Terminator | Anritsu | BNC | 001 | Apr 02, 2009 | Apr 02, 2010 |
| 6. | Software | Audix | E3 | SET00200 9804M592 | -- | -- |

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 (μ V) | |
|-----------------------|----------------------|---------|
| | 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 D-Sub & HDMI Input).

3.5.5 Repeat above procedure from 3.5.3 to 3.5.4 for difference test mode.

3.5.6 The other peripherals devices were driven and operated during the test.

3.5.7 The test modes are as follows:

| |
|---------------------|
| Test Mode |
| D-Sub 640*480@60Hz |
| D-Sub 1024*768@60Hz |
| D-Sub 1360*768@60Hz |
| HDMI 640*480@60Hz |
| HDMI 1024*768@60Hz |
| HDMI 1360*768@60Hz |
| USB Play |
| SD Card Play |

3.6 Test Procedures

The EUT and peripherals were connected to the power mains through an LINE Impedance Stabilization Network (LISN). 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 C63.4:2003 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.

| Test Mode | Data Page |
|---------------------|-----------|
| D-Sub 640*480@60Hz | P14 |
| D-Sub 1024*768@60Hz | P15 |
| D-Sub 1360*768@60Hz | P16 |
| HDMI 640*480@60Hz | P17 |
| HDMI 1024*768@60Hz | P18 |
| HDMI 1360*768@60Hz | P19 |
| USB Play | P20 |
| SD Card Play | P21 |

NOTE 1 – Factor = Cable Loss + LISN 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 640*480@60Hz test mode. The worst emission is detected at 0.197 MHz (Average value) with corrected signal level of 47.25 dB (μV) (limit is 53.76 dB (μV)), when the Neutral of the EUT is connected to LISN.

EUT : LCD TV/DVD COMBO Temperature : 20°C

Model No. : LCD19W57DCA Humidity : 46%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : D-Sub 640*480@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μ V) | Factor (dB) | Emission Level dB(μ V) | Limits dB(μ V) | Margin (dB) | Remark | |
|-----------|-----------------|----------------------------|--------------|-----------------------------|---------------------|--------------|--------------|----|
| Line | 0.199 | 46.67 | 0.18 | 46.85 | 63.67 | 16.82 | QP | |
| | 0.329 | 37.63 | 0.18 | 37.81 | 59.49 | 21.68 | | |
| | 1.433 | 35.63 | 0.23 | 35.86 | 56.00 | 20.14 | | |
| | 1.762 | 35.94 | 0.25 | 36.19 | 56.00 | 19.81 | | |
| | 8.148 | 42.36 | 0.36 | 42.72 | 60.00 | 17.28 | | |
| | 11.021 | 43.92 | 0.39 | 44.31 | 60.00 | 15.69 | | |
| | | 0.199 | 40.68 | 0.18 | 40.86 | 53.67 | 12.81 | AV |
| | | 0.329 | 24.08 | 0.18 | 24.26 | 49.49 | 25.23 | |
| | | 1.433 | 25.11 | 0.23 | 25.34 | 46.00 | 20.66 | |
| | | 1.762 | 22.20 | 0.25 | 22.45 | 46.00 | 23.55 | |
| | | 8.148 | 32.21 | 0.36 | 32.57 | 50.00 | 17.43 | |
| | | 11.021 | 33.49 | 0.39 | 33.88 | 50.00 | 16.12 | |
| Neutral | 0.199 | 46.64 | 0.17 | 46.81 | 63.67 | 16.86 | QP | |
| | 0.325 | 37.79 | 0.18 | 37.97 | 59.57 | 21.60 | | |
| | 0.923 | 30.77 | 0.25 | 31.02 | 56.00 | 24.98 | | |
| | 4.952 | 32.97 | 0.35 | 33.32 | 56.00 | 22.68 | | |
| | 7.852 | 40.93 | 0.37 | 41.30 | 60.00 | 18.70 | | |
| | 11.021 | 41.98 | 0.40 | 42.38 | 60.00 | 17.62 | | |
| | | 0.199 | 37.29 | 0.17 | 37.46 | 53.67 | 16.21 | AV |
| | | 0.325 | 22.99 | 0.18 | 23.17 | 49.57 | 26.40 | |
| | | 0.923 | 21.17 | 0.25 | 21.42 | 46.00 | 24.58 | |
| | | 4.952 | 20.58 | 0.35 | 20.93 | 46.00 | 25.07 | |
| | | 7.852 | 30.18 | 0.37 | 30.55 | 50.00 | 19.45 | |
| | | 11.021 | 31.46 | 0.40 | 31.86 | 50.00 | 18.14 | |

TEST ENGINEER: HUGH HUANG

EUT : LCD TV/DVD COMBO Temperature : 20°C

Model No. : LCD19W57DCA Humidity : 46%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : D-Sub 1024*768@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μ V) | Factor (dB) | Emission Level dB(μ V) | Limits dB(μ V) | Margin (dB) | Remark | |
|-----------|-----------------|----------------------------|--------------|-----------------------------|---------------------|--------------|--------------|----|
| Line | 0.199 | 46.65 | 0.18 | 46.83 | 63.67 | 16.84 | QP | |
| | 0.329 | 37.64 | 0.18 | 37.82 | 59.49 | 21.67 | | |
| | 1.433 | 35.65 | 0.23 | 35.88 | 56.00 | 20.12 | | |
| | 1.762 | 35.94 | 0.25 | 36.19 | 56.00 | 19.81 | | |
| | 9.011 | 41.92 | 0.36 | 42.28 | 60.00 | 17.72 | | |
| | 10.125 | 38.45 | 0.37 | 38.82 | 60.00 | 21.18 | | |
| | | 0.199 | 38.48 | 0.18 | 38.66 | 53.67 | 15.01 | AV |
| | | 0.329 | 29.32 | 0.18 | 29.50 | 49.49 | 19.99 | |
| | | 1.433 | 19.87 | 0.23 | 20.10 | 46.00 | 25.90 | |
| | | 1.762 | 23.54 | 0.25 | 23.79 | 46.00 | 22.21 | |
| | | 9.011 | 30.55 | 0.36 | 30.91 | 50.00 | 19.09 | |
| | | 10.125 | 29.73 | 0.37 | 30.10 | 50.00 | 19.90 | |
| Neutral | 0.199 | 46.60 | 0.17 | 46.77 | 63.67 | 16.90 | QP | |
| | 0.325 | 37.82 | 0.18 | 38.00 | 59.57 | 21.57 | | |
| | 0.923 | 30.78 | 0.25 | 31.03 | 56.00 | 24.97 | | |
| | 4.952 | 32.80 | 0.35 | 33.15 | 56.00 | 22.85 | | |
| | 7.852 | 40.92 | 0.37 | 41.29 | 60.00 | 18.71 | | |
| | 10.125 | 36.32 | 0.38 | 36.70 | 60.00 | 23.30 | | |
| | | 0.199 | 35.64 | 0.17 | 35.81 | 53.67 | 17.86 | AV |
| | | 0.325 | 29.04 | 0.18 | 29.22 | 49.57 | 20.35 | |
| | | 0.923 | 21.98 | 0.25 | 22.23 | 46.00 | 23.77 | |
| | | 4.952 | 20.55 | 0.35 | 20.90 | 46.00 | 25.10 | |
| | | 7.852 | 30.67 | 0.37 | 31.04 | 50.00 | 18.96 | |
| | | 10.125 | 27.61 | 0.38 | 27.99 | 50.00 | 22.01 | |

TEST ENGINEER: HUGH HUANG

EUT : LCD TV/DVD COMBO Temperature : 20°C

Model No. : LCD19W57DCA Humidity : 46%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : D-Sub 1360*768@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μ V) | Factor (dB) | Emission Level dB(μ V) | Limits dB(μ V) | Margin (dB) | Remark |
|-----------|-----------------|----------------------------|-------------|-----------------------------|---------------------|--------------|--------|
| Line | 0.194 | 48.64 | 0.18 | 48.82 | 63.84 | 15.02 | QP |
| | 0.329 | 37.73 | 0.18 | 37.91 | 59.49 | 21.58 | |
| | 1.433 | 35.24 | 0.23 | 35.47 | 56.00 | 20.53 | |
| | 1.762 | 35.45 | 0.25 | 35.70 | 56.00 | 20.30 | |
| | 7.852 | 41.69 | 0.36 | 42.05 | 60.00 | 17.95 | |
| | 10.676 | 40.64 | 0.38 | 41.02 | 60.00 | 18.98 | |
| | 0.194 | 39.99 | 0.18 | 40.17 | 53.84 | 13.67 | AV |
| | 0.329 | 30.08 | 0.18 | 30.26 | 49.49 | 19.23 | |
| | 1.433 | 17.11 | 0.23 | 17.34 | 46.00 | 28.66 | |
| | 1.762 | 23.63 | 0.25 | 23.88 | 46.00 | 22.12 | |
| | 7.852 | 29.42 | 0.36 | 29.78 | 50.00 | 20.22 | |
| | 10.676 | 30.37 | 0.38 | 30.75 | 50.00 | 19.25 | |
| Neutral | 0.199 | 46.61 | 0.17 | 46.78 | 63.67 | 16.89 | QP |
| | 0.325 | 37.81 | 0.18 | 37.99 | 59.57 | 21.58 | |
| | 0.923 | 30.64 | 0.25 | 30.89 | 56.00 | 25.11 | |
| | 4.952 | 32.57 | 0.35 | 32.92 | 56.00 | 23.08 | |
| | 8.148 | 41.70 | 0.37 | 42.07 | 60.00 | 17.93 | |
| | 10.125 | 36.55 | 0.38 | 36.93 | 60.00 | 23.07 | |
| | 0.199 | 35.58 | 0.17 | 35.75 | 53.67 | 17.92 | AV |
| | 0.325 | 30.06 | 0.18 | 30.24 | 49.57 | 19.33 | |
| | 0.923 | 17.67 | 0.25 | 17.92 | 46.00 | 28.08 | |
| | 4.952 | 19.70 | 0.35 | 20.05 | 46.00 | 25.95 | |
| | 8.148 | 32.40 | 0.37 | 32.77 | 50.00 | 17.23 | |
| | 10.125 | 29.03 | 0.38 | 29.41 | 50.00 | 20.59 | |

TEST ENGINEER: HUGH HUANG

EUT : LCD TV/DVD COMBO Temperature : 20°C

Model No. : LCD19W57DCA Humidity : 46%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : HDMI 640*480@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μ V) | Factor (dB) | Emission Level dB(μ V) | Limits dB(μ V) | Margin (dB) | Remark |
|-----------|-----------------|----------------------------|-------------|-----------------------------|---------------------|-------------|--------|
| Line | 0.197 | 53.24 | 0.18 | 53.42 | 63.76 | 10.34 | QP |
| | 0.329 | 41.10 | 0.18 | 41.28 | 59.49 | 18.21 | |
| | 1.464 | 34.56 | 0.23 | 34.79 | 56.00 | 21.21 | |
| | 1.568 | 37.83 | 0.24 | 38.07 | 56.00 | 17.93 | |
| | 8.501 | 40.49 | 0.36 | 40.85 | 60.00 | 19.15 | |
| | 11.438 | 40.24 | 0.40 | 40.64 | 60.00 | 19.36 | |
| | 0.197 | 45.11 | 0.18 | 45.29 | 53.76 | 8.47 | AV |
| | 0.329 | 31.41 | 0.18 | 31.59 | 49.49 | 17.90 | |
| | 1.464 | 20.86 | 0.23 | 21.09 | 46.00 | 24.91 | |
| | 1.568 | 30.48 | 0.24 | 30.72 | 46.00 | 15.28 | |
| | 8.501 | 33.31 | 0.36 | 33.67 | 50.00 | 16.33 | |
| | 11.438 | 30.44 | 0.40 | 30.84 | 50.00 | 19.16 | |
| Neutral | 0.197 | 53.68 | 0.17 | 53.85 | 63.76 | 9.91 | QP |
| | 0.325 | 41.12 | 0.18 | 41.30 | 59.57 | 18.27 | |
| | 1.374 | 35.55 | 0.28 | 35.83 | 56.00 | 20.17 | |
| | 1.568 | 34.46 | 0.29 | 34.75 | 56.00 | 21.25 | |
| | 8.501 | 43.65 | 0.37 | 44.02 | 60.00 | 15.98 | |
| | 12.124 | 39.34 | 0.44 | 39.78 | 60.00 | 20.22 | |
| | 0.197 | 47.08 | 0.17 | 47.25 | 53.76 | 6.51 | AV |
| | 0.325 | 33.70 | 0.18 | 33.88 | 49.57 | 15.69 | |
| | 1.374 | 27.53 | 0.28 | 27.81 | 46.00 | 18.19 | |
| | 1.568 | 25.91 | 0.29 | 26.20 | 46.00 | 19.80 | |
| | 8.501 | 32.80 | 0.37 | 33.17 | 50.00 | 16.83 | |
| | 12.124 | 29.92 | 0.44 | 30.36 | 50.00 | 19.64 | |

TEST ENGINEER: HUGH HUANG

EUT : LCD TV/DVD COMBO Temperature : 20°C

Model No. : LCD19W57DCA Humidity : 46%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : HDMI 1024*768@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μ V) | Factor (dB) | Emission Level dB(μ V) | Limits dB(μ V) | Margin (dB) | Remark | |
|-----------|-----------------|----------------------------|--------------|-----------------------------|---------------------|--------------|-------------|----|
| Line | 0.197 | 52.94 | 0.18 | 53.12 | 63.76 | 10.64 | QP | |
| | 0.329 | 40.85 | 0.18 | 41.03 | 59.49 | 18.46 | | |
| | 1.449 | 37.38 | 0.23 | 37.61 | 56.00 | 18.39 | | |
| | 1.568 | 37.91 | 0.24 | 38.15 | 56.00 | 17.85 | | |
| | 8.501 | 45.82 | 0.36 | 46.18 | 60.00 | 13.82 | | |
| | 12.124 | 40.06 | 0.42 | 40.48 | 60.00 | 19.52 | | |
| | | 0.197 | 45.59 | 0.18 | 45.77 | 53.76 | 7.99 | AV |
| | | 0.329 | 35.43 | 0.18 | 35.61 | 49.49 | 13.88 | |
| | | 1.449 | 24.19 | 0.23 | 24.42 | 46.00 | 21.58 | |
| | | 1.568 | 22.19 | 0.24 | 22.43 | 46.00 | 23.57 | |
| | | 8.501 | 32.03 | 0.36 | 32.39 | 50.00 | 17.61 | |
| | | 12.124 | 30.52 | 0.42 | 30.94 | 50.00 | 19.06 | |
| Neutral | 0.197 | 52.76 | 0.17 | 52.93 | 63.76 | 10.83 | QP | |
| | 0.325 | 40.40 | 0.18 | 40.58 | 59.57 | 18.99 | | |
| | 1.374 | 36.00 | 0.28 | 36.28 | 56.00 | 19.72 | | |
| | 1.568 | 34.27 | 0.29 | 34.56 | 56.00 | 21.44 | | |
| | 8.501 | 46.78 | 0.37 | 47.15 | 60.00 | 12.85 | | |
| | 12.124 | 39.42 | 0.44 | 39.86 | 60.00 | 20.14 | | |
| | | 0.197 | 44.52 | 0.17 | 44.69 | 53.76 | 9.07 | AV |
| | | 0.325 | 27.38 | 0.18 | 27.56 | 49.57 | 22.01 | |
| | | 1.374 | 27.39 | 0.28 | 27.67 | 46.00 | 18.33 | |
| | | 1.568 | 25.72 | 0.29 | 26.01 | 46.00 | 19.99 | |
| | | 8.501 | 34.54 | 0.37 | 34.91 | 50.00 | 15.09 | |
| | | 12.124 | 31.32 | 0.44 | 31.76 | 50.00 | 18.24 | |

TEST ENGINEER: HUGH HUANG

EUT : LCD TV/DVD COMBO Temperature : 20°C

Model No. : LCD19W57DCA Humidity : 46%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : HDMI 1360*768@60Hz

| Test Line | Frequency (MHz) | Meter Reading dB(μ V) | Factor (dB) | Emission Level dB(μ V) | Limits dB(μ V) | Margin (dB) | Remark | |
|-----------|-----------------|----------------------------|--------------|-----------------------------|---------------------|--------------|-------------|----|
| Line | 0.197 | 52.19 | 0.18 | 52.37 | 63.76 | 11.39 | QP | |
| | 0.329 | 40.16 | 0.18 | 40.34 | 59.49 | 19.15 | | |
| | 1.433 | 38.22 | 0.23 | 38.45 | 56.00 | 17.55 | | |
| | 1.568 | 37.55 | 0.24 | 37.79 | 56.00 | 18.21 | | |
| | 8.501 | 46.23 | 0.36 | 46.59 | 60.00 | 13.41 | | |
| | 11.198 | 37.65 | 0.40 | 38.05 | 60.00 | 21.95 | | |
| | | 0.197 | 46.29 | 0.18 | 46.47 | 53.76 | 7.29 | AV |
| | | 0.329 | 34.62 | 0.18 | 34.80 | 49.49 | 14.69 | |
| | | 1.433 | 30.47 | 0.23 | 30.70 | 46.00 | 15.30 | |
| | | 1.568 | 25.68 | 0.24 | 25.92 | 46.00 | 20.08 | |
| | | 8.501 | 32.83 | 0.36 | 33.19 | 50.00 | 16.81 | |
| | | 11.198 | 32.09 | 0.40 | 32.49 | 50.00 | 17.51 | |
| Neutral | 0.194 | 52.39 | 0.17 | 52.56 | 63.84 | 11.28 | QP | |
| | 0.325 | 40.21 | 0.18 | 40.39 | 59.57 | 19.18 | | |
| | 1.374 | 36.14 | 0.28 | 36.42 | 56.00 | 19.58 | | |
| | 1.568 | 34.18 | 0.29 | 34.47 | 56.00 | 21.53 | | |
| | 8.501 | 45.24 | 0.37 | 45.61 | 60.00 | 14.39 | | |
| | 11.438 | 38.36 | 0.41 | 38.77 | 60.00 | 21.23 | | |
| | | 0.194 | 46.31 | 0.17 | 46.48 | 53.84 | 7.36 | AV |
| | | 0.325 | 32.46 | 0.18 | 32.64 | 49.57 | 16.93 | |
| | | 1.374 | 28.97 | 0.28 | 29.25 | 46.00 | 16.75 | |
| | | 1.568 | 26.16 | 0.29 | 26.45 | 46.00 | 19.55 | |
| | | 8.501 | 33.04 | 0.37 | 33.41 | 50.00 | 16.59 | |
| | | 11.438 | 27.90 | 0.41 | 28.31 | 50.00 | 21.69 | |

TEST ENGINEER: HUGH HUANG

EUT : LCD TV/DVD COMBO Temperature : 20°C

Model No. : LCD19W57DCA Humidity : 46%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : USB Play

| Test Line | Frequency (MHz) | Meter Reading dB(μ V) | Factor (dB) | Emission Level dB(μ V) | Limits dB(μ V) | Margin (dB) | Remark |
|-----------|-----------------|----------------------------|-------------|-----------------------------|---------------------|-------------|--------|
| Line | 0.197 | 51.88 | 0.18 | 52.06 | 63.76 | 11.70 | QP |
| | 0.329 | 39.91 | 0.18 | 40.09 | 59.49 | 19.40 | |
| | 1.449 | 37.59 | 0.23 | 37.82 | 56.00 | 18.18 | |
| | 1.568 | 37.56 | 0.24 | 37.80 | 56.00 | 18.20 | |
| | 8.501 | 45.72 | 0.36 | 46.08 | 60.00 | 13.92 | |
| | 11.080 | 40.97 | 0.39 | 41.36 | 60.00 | 18.64 | |
| | 0.197 | 43.73 | 0.18 | 43.91 | 53.76 | 9.85 | AV |
| | 0.329 | 32.44 | 0.18 | 32.62 | 49.49 | 16.87 | |
| | 1.449 | 29.17 | 0.23 | 29.40 | 46.00 | 16.60 | |
| | 1.568 | 26.23 | 0.24 | 26.47 | 46.00 | 19.53 | |
| | 8.501 | 32.71 | 0.36 | 33.07 | 50.00 | 16.93 | |
| | 11.080 | 31.90 | 0.39 | 32.29 | 50.00 | 17.71 | |
| Neutral | 0.194 | 51.76 | 0.17 | 51.93 | 63.84 | 11.91 | QP |
| | 0.325 | 39.66 | 0.18 | 39.84 | 59.57 | 19.73 | |
| | 1.374 | 36.35 | 0.28 | 36.63 | 56.00 | 19.37 | |
| | 1.568 | 34.12 | 0.29 | 34.41 | 56.00 | 21.59 | |
| | 8.501 | 44.50 | 0.37 | 44.87 | 60.00 | 15.13 | |
| | 11.996 | 38.23 | 0.43 | 38.66 | 60.00 | 21.34 | |
| | 0.194 | 43.88 | 0.17 | 44.05 | 53.84 | 9.79 | AV |
| | 0.325 | 31.85 | 0.18 | 32.03 | 49.57 | 17.54 | |
| | 1.374 | 27.86 | 0.28 | 28.14 | 46.00 | 17.86 | |
| | 1.568 | 23.42 | 0.29 | 23.71 | 46.00 | 22.29 | |
| | 8.501 | 33.28 | 0.37 | 33.65 | 50.00 | 16.35 | |
| | 11.996 | 30.08 | 0.43 | 30.51 | 50.00 | 19.49 | |

TEST ENGINEER: HUGH HUANG

EUT : LCD TV/DVD COMBO Temperature : 20°C

Model No. : LCD19W57DCA Humidity : 46%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : SD Card Play

| Test Line | Frequency (MHz) | Meter Reading dB(μ V) | Factor (dB) | Emission Level dB(μ V) | Limits dB(μ V) | Margin (dB) | Remark | |
|-----------|-----------------|----------------------------|--------------|-----------------------------|---------------------|--------------|--------------|----|
| Line | 0.194 | 48.72 | 0.18 | 48.90 | 63.84 | 14.94 | QP | |
| | 0.329 | 37.66 | 0.18 | 37.84 | 59.49 | 21.65 | | |
| | 1.503 | 34.76 | 0.23 | 34.99 | 56.00 | 21.01 | | |
| | 1.878 | 36.29 | 0.25 | 36.54 | 56.00 | 19.46 | | |
| | 7.852 | 42.27 | 0.36 | 42.63 | 60.00 | 17.37 | | |
| | 12.384 | 41.28 | 0.42 | 41.70 | 60.00 | 18.30 | | |
| | | 0.194 | 41.42 | 0.18 | 41.60 | 53.84 | 12.24 | AV |
| | | 0.329 | 29.37 | 0.18 | 29.55 | 49.49 | 19.94 | |
| | | 1.503 | 23.10 | 0.23 | 23.33 | 46.00 | 22.67 | |
| | | 1.878 | 25.72 | 0.25 | 25.97 | 46.00 | 20.03 | |
| | | 7.852 | 32.07 | 0.36 | 32.43 | 50.00 | 17.57 | |
| | | 12.384 | 31.59 | 0.42 | 32.01 | 50.00 | 17.99 | |
| Neutral | 0.199 | 46.67 | 0.17 | 46.84 | 63.67 | 16.83 | QP | |
| | 0.325 | 37.84 | 0.18 | 38.02 | 59.57 | 21.55 | | |
| | 1.433 | 34.89 | 0.28 | 35.17 | 56.00 | 20.83 | | |
| | 1.552 | 33.36 | 0.29 | 33.65 | 56.00 | 22.35 | | |
| | 7.852 | 42.01 | 0.37 | 42.38 | 60.00 | 17.62 | | |
| | 11.021 | 41.50 | 0.40 | 41.90 | 60.00 | 18.10 | | |
| | | 0.199 | 37.16 | 0.17 | 37.33 | 53.67 | 16.34 | AV |
| | | 0.325 | 29.76 | 0.18 | 29.94 | 49.57 | 19.63 | |
| | | 1.433 | 25.09 | 0.28 | 25.37 | 46.00 | 20.63 | |
| | | 1.552 | 18.03 | 0.29 | 18.32 | 46.00 | 27.68 | |
| | | 7.852 | 31.14 | 0.37 | 31.51 | 50.00 | 18.49 | |
| | | 11.021 | 31.37 | 0.40 | 31.77 | 50.00 | 18.23 | |

TEST ENGINEER: HUGH HUANG

4 RADIATED EMISSION TEST

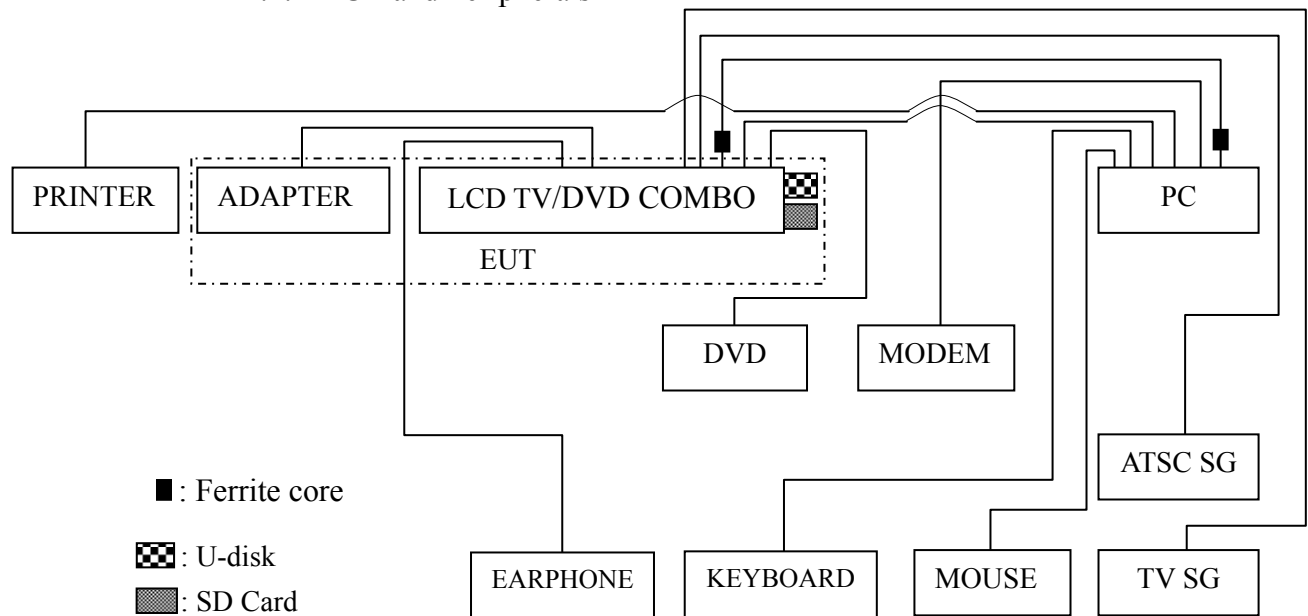
4.1 Test Equipment

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

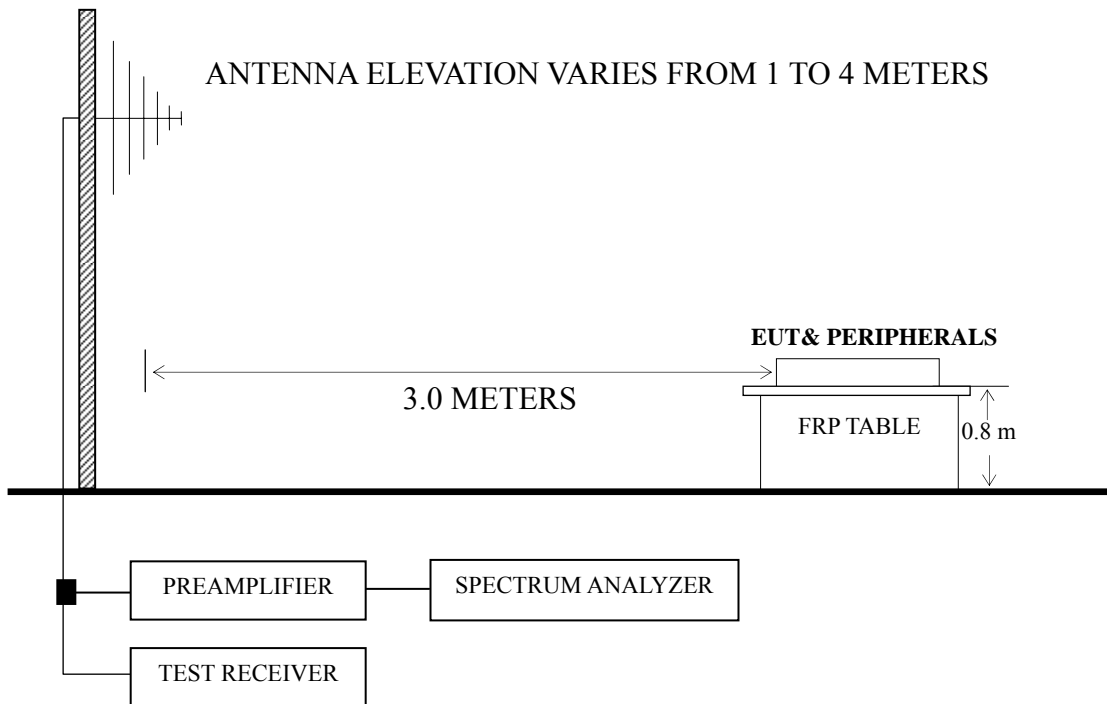
| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------|----------------|--------------|-----------|------------------------|--------------|--------------|
| 1. | Test Receiver | R&S | ESVS10 | 844594/001 | Mar 07, 2009 | Mar 07, 2010 |
| 2. | Preamplifier | Agilent | 8447D | 2944A10548 | Sep 19, 2009 | Sep 19, 2010 |
| 3. | Bi-log Antenna | TESEQ | CBL6112D | 23193 | May 14, 2008 | May 14, 2010 |
| 4. | Spectrum | Agilent | E7405A | MY45106600 | May 19, 2009 | May 19, 2010 |
| 5. | Software | Audix | E3 | SET00200 9912M295-2 | -- | -- |

4.2 Block Diagram of Test Setup

4.2.1 EUT and 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 | |
|-----------------|--------------|-----------------------|------------------------|
| | | ($\mu\text{V/m}$) | dB ($\mu\text{V/m}$) |
| 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 ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$)
 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 below or equal to 1GHz.

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 C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz.

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

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.

| Test Mode | Data Page |
|---------------------|-----------|
| D-Sub 640*480@60Hz | P26 |
| D-Sub 1024*768@60Hz | P27 |
| D-Sub 1360*768@60Hz | P28 |
| HDMI 640*480@60Hz | P29 |
| HDMI 1024*768@60Hz | P30 |
| HDMI 1360*768@60Hz | P31 |
| USB Play | P32 |
| SD Card Play | P33 |

NOTE 1 – Emission Level = Antenna Factor + Cable Loss + Meter Reading.

NOTE 2 – The emission levels that are 20dB below the official limit are not reported.

NOTE 3 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 4 – The worst case is for D-Sub 1360*768@60Hz test mode. The worst emission at horizontal polarization was detected at 429.690 MHz with corrected signal level of 43.59 dB ($\mu\text{V}/\text{m}$) (limit is 46.00dB ($\mu\text{V}/\text{m}$)), when the antenna was 1.40 m height and the turntable was at 30°. The worst emission at vertical polarization was detected at 544.000 MHz with corrected signal level of 42.57 dB ($\mu\text{V}/\text{m}$) (limit is 46.00 dB ($\mu\text{V}/\text{m}$)), when the antenna was 1.00 m height and the turntable was at 205°.

EUT : LCD TV/DVD COMBO Temperature : 22°C

Model No. : LCD19W57DCA Humidity : 60%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : D-Sub 640*480@60Hz

| Polarization | Frequency (MHz) | Meter Reading dB (μ V) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μ V/m) | Limits dB (μ V/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------|-----------------|--------------------------------|------------------------|-------------|
| Horizontal | 198.780 | 27.75 | 10.64 | 1.54 | 39.93 | 43.50 | 3.57 |
| | 255.040 | 20.54 | 13.01 | 1.71 | 35.26 | 46.00 | 10.74 |
| | 429.640 | 23.15 | 16.92 | 2.27 | 42.34 | 46.00 | 3.66 |
| | 548.000 | 22.10 | 18.55 | 2.60 | 43.25 | 46.00 | 2.75 |
| | 722.580 | 15.58 | 19.94 | 2.99 | 38.51 | 46.00 | 7.49 |
| | 866.140 | 18.29 | 21.39 | 3.37 | 43.05 | 46.00 | 2.95 |
| Vertical | 92.080 | 21.27 | 9.82 | 1.03 | 32.12 | 43.50 | 11.38 |
| | 140.580 | 21.15 | 12.05 | 1.20 | 34.40 | 43.50 | 9.10 |
| | 198.780 | 20.54 | 10.64 | 1.54 | 32.72 | 43.50 | 10.78 |
| | 429.640 | 18.87 | 16.92 | 2.27 | 38.06 | 46.00 | 7.94 |
| | 509.180 | 18.25 | 18.01 | 2.46 | 38.72 | 46.00 | 7.28 |
| | 547.000 | 21.80 | 18.52 | 2.58 | 42.90 | 46.00 | 3.10 |

TEST ENGINEER: RAVEN JIN

EUT : LCD TV/DVD COMBO Temperature : 22°C

Model No. : LCD19W57DCA Humidity : 60%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : D-Sub 1024*768@60Hz

| Polarization | Frequency (MHz) | Meter Reading dB (μ V) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μ V/m) | Limits dB (μ V/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------|-----------------|--------------------------------|------------------------|-------------|
| Horizontal | 94.990 | 17.75 | 10.45 | 1.05 | 29.25 | 43.50 | 14.25 |
| | 213.330 | 21.60 | 11.30 | 1.58 | 34.48 | 43.50 | 9.02 |
| | 390.840 | 17.46 | 16.30 | 2.18 | 35.94 | 46.00 | 10.06 |
| | 429.640 | 23.01 | 16.92 | 2.27 | 42.20 | 46.00 | 3.80 |
| | 546.040 | 18.25 | 18.52 | 2.58 | 39.35 | 46.00 | 6.65 |
| | 841.890 | 15.53 | 21.12 | 3.29 | 39.94 | 46.00 | 6.06 |
| Vertical | 92.080 | 21.39 | 9.82 | 1.03 | 32.24 | 43.50 | 11.26 |
| | 128.940 | 20.08 | 12.58 | 1.17 | 33.83 | 43.50 | 9.67 |
| | 182.290 | 18.38 | 9.99 | 1.44 | 29.81 | 43.50 | 13.69 |
| | 429.640 | 18.80 | 16.92 | 2.27 | 37.99 | 46.00 | 8.01 |
| | 545.070 | 22.00 | 18.49 | 2.58 | 43.07 | 46.00 | 2.93 |
| | 788.540 | 12.37 | 20.58 | 3.17 | 36.12 | 46.00 | 9.88 |

TEST ENGINEER: RAVEN JIN

EUT : LCD TV/DVD COMBO Temperature : 22°C

Model No. : LCD19W57DCA Humidity : 60%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : D-Sub 1360*768@60Hz

| Polarization | Frequency (MHz) | Meter Reading dB (μ V) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μ V/m) | Limits dB (μ V/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------|-----------------|--------------------------------|------------------------|-------------|
| Horizontal | 85.290 | 20.90 | 8.66 | 0.99 | 30.55 | 40.00 | 9.45 |
| | 201.690 | 21.72 | 10.78 | 1.55 | 34.05 | 43.50 | 9.45 |
| | 300.630 | 17.43 | 13.93 | 1.88 | 33.24 | 46.00 | 12.76 |
| | 429.690 | 24.40 | 16.92 | 2.27 | 43.59 | 46.00 | 2.41 |
| | 546.040 | 19.94 | 18.52 | 2.58 | 41.04 | 46.00 | 4.96 |
| | 848.680 | 15.80 | 21.20 | 3.32 | 40.32 | 46.00 | 5.68 |
| Vertical | 92.080 | 22.88 | 9.82 | 1.03 | 33.73 | 43.50 | 9.77 |
| | 143.490 | 23.73 | 11.81 | 1.21 | 36.75 | 43.50 | 6.75 |
| | 429.640 | 20.49 | 16.92 | 2.27 | 39.68 | 46.00 | 6.32 |
| | 544.000 | 21.50 | 18.49 | 2.58 | 42.57 | 46.00 | 3.43 |
| | 601.330 | 20.07 | 19.21 | 2.74 | 42.02 | 46.00 | 3.98 |
| | 788.540 | 15.09 | 20.58 | 3.17 | 38.84 | 46.00 | 7.16 |

TEST ENGINEER: RAVEN JIN

EUT : LCD TV/DVD COMBO Temperature : 22°C

Model No. : LCD19W57DCA Humidity : 60%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : HDMI 640*480@60Hz

| Polarization | Frequency (MHz) | Meter Reading dB (μ V) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μ V/m) | Limits dB (μ V/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------|-----------------|--------------------------------|------------------------|-------------|
| Horizontal | 198.780 | 26.75 | 10.64 | 1.54 | 38.93 | 43.50 | 4.57 |
| | 376.290 | 20.55 | 15.99 | 2.13 | 38.67 | 46.00 | 7.33 |
| | 392.780 | 20.56 | 16.34 | 2.18 | 39.08 | 46.00 | 6.92 |
| | 429.640 | 23.15 | 16.92 | 2.27 | 42.34 | 46.00 | 3.66 |
| | 565.440 | 21.54 | 18.78 | 2.64 | 42.96 | 46.00 | 3.04 |
| | 866.140 | 16.29 | 21.39 | 3.37 | 41.05 | 46.00 | 4.95 |
| Vertical | 139.610 | 20.53 | 12.12 | 1.20 | 33.85 | 43.50 | 9.65 |
| | 198.780 | 21.54 | 10.64 | 1.54 | 33.72 | 43.50 | 9.78 |
| | 429.640 | 18.87 | 16.92 | 2.27 | 38.06 | 46.00 | 7.94 |
| | 562.530 | 19.82 | 18.75 | 2.64 | 41.21 | 46.00 | 4.79 |
| | 788.540 | 12.93 | 20.58 | 3.17 | 36.68 | 46.00 | 9.32 |
| | 866.140 | 12.37 | 21.39 | 3.37 | 37.13 | 46.00 | 8.87 |

TEST ENGINEER: RAVEN JIN

EUT : LCD TV/DVD COMBO Temperature : 22°C

Model No. : LCD19W57DCA Humidity : 60%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : HDMI 1024*768@60Hz

| Polarization | Frequency (MHz) | Meter Reading dB (μ V) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μ V/m) | Limits dB (μ V/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------|-----------------|--------------------------------|------------------------|-------------|
| Horizontal | 85.290 | 25.59 | 8.66 | 0.99 | 35.24 | 40.00 | 4.76 |
| | 213.330 | 24.60 | 11.30 | 1.58 | 37.48 | 43.50 | 6.02 |
| | 429.640 | 23.01 | 16.92 | 2.27 | 42.20 | 46.00 | 3.80 |
| | 601.330 | 17.40 | 19.21 | 2.74 | 39.35 | 46.00 | 6.65 |
| | 841.890 | 16.53 | 21.12 | 3.29 | 40.94 | 46.00 | 5.06 |
| | 897.180 | 15.45 | 21.67 | 3.42 | 40.54 | 46.00 | 5.46 |
| Vertical | 30.970 | 14.85 | 19.03 | 0.63 | 34.51 | 40.00 | 5.49 |
| | 128.940 | 21.08 | 12.58 | 1.17 | 34.83 | 43.50 | 8.67 |
| | 429.640 | 16.80 | 16.92 | 2.27 | 35.99 | 46.00 | 10.01 |
| | 545.070 | 21.00 | 18.49 | 2.58 | 42.07 | 46.00 | 3.93 |
| | 601.330 | 15.27 | 19.21 | 2.74 | 37.22 | 46.00 | 8.78 |
| | 788.540 | 12.37 | 20.58 | 3.17 | 36.12 | 46.00 | 9.88 |

TEST ENGINEER: RAVEN JIN

EUT : LCD TV/DVD COMBO Temperature : 22°C

Model No. : LCD19W57DCA Humidity : 60%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : HDMI 1360*768@60Hz

| 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) |
|--------------|-----------------|-----------------------|-----------------------|-----------------|--------------------------|------------------|-------------|
| Horizontal | 31.940 | 12.86 | 18.49 | 0.64 | 31.99 | 40.00 | 8.01 |
| | 201.690 | 20.72 | 10.78 | 1.55 | 33.05 | 43.50 | 10.45 |
| | 429.640 | 22.12 | 16.92 | 2.27 | 41.31 | 46.00 | 4.69 |
| | 546.040 | 18.94 | 18.52 | 2.58 | 40.04 | 46.00 | 5.96 |
| | 604.240 | 16.59 | 19.22 | 2.74 | 38.55 | 46.00 | 7.45 |
| | 848.680 | 15.80 | 21.20 | 3.32 | 40.32 | 46.00 | 5.68 |
| Vertical | 33.880 | 17.22 | 17.44 | 0.64 | 35.30 | 40.00 | 4.70 |
| | 96.930 | 21.92 | 10.87 | 1.06 | 33.85 | 43.50 | 9.65 |
| | 143.490 | 22.73 | 11.81 | 1.21 | 35.75 | 43.50 | 7.75 |
| | 542.160 | 21.18 | 18.45 | 2.58 | 42.21 | 46.00 | 3.79 |
| | 601.330 | 19.07 | 19.21 | 2.74 | 41.02 | 46.00 | 4.98 |
| | 788.540 | 16.09 | 20.58 | 3.17 | 39.84 | 46.00 | 6.16 |

TEST ENGINEER: RAVEN JIN

EUT : LCD TV/DVD COMBO Temperature : 22°C

Model No. : LCD19W57DCA Humidity : 60%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : USB Play

| Polarization | Frequency (MHz) | Meter Reading dB (μ V) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μ V/m) | Limits dB (μ V/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------|-----------------|--------------------------------|------------------------|-------------|
| Horizontal | 94.990 | 13.36 | 10.45 | 1.05 | 24.86 | 40.00 | 15.14 |
| | 217.210 | 17.09 | 11.48 | 1.60 | 30.17 | 40.00 | 9.83 |
| | 307.420 | 15.17 | 14.10 | 1.90 | 31.17 | 47.00 | 15.83 |
| | 429.640 | 21.63 | 16.92 | 2.27 | 40.82 | 47.00 | 6.18 |
| | 600.360 | 17.48 | 19.20 | 2.74 | 39.42 | 47.00 | 7.58 |
| | 774.960 | 14.34 | 20.46 | 3.14 | 37.94 | 47.00 | 9.06 |
| Vertical | 38.730 | 13.13 | 14.62 | 0.67 | 28.42 | 40.00 | 11.58 |
| | 124.090 | 18.82 | 12.81 | 1.16 | 32.79 | 40.00 | 7.21 |
| | 398.600 | 10.51 | 16.47 | 2.20 | 29.18 | 47.00 | 17.82 |
| | 429.640 | 18.64 | 16.92 | 2.27 | 37.83 | 47.00 | 9.17 |
| | 541.190 | 17.39 | 18.45 | 2.58 | 38.42 | 47.00 | 8.58 |
| | 825.400 | 12.85 | 20.94 | 3.26 | 37.05 | 47.00 | 9.95 |

TEST ENGINEER: RAVEN JIN

EUT : LCD TV/DVD COMBO Temperature : 22°C

Model No. : LCD19W57DCA Humidity : 60%RH

Serial No. : E2009092704 Date of Test : Sep 29, 2009

Test Mode : SD Card Play

| Polarization | Frequency (MHz) | Meter Reading dB (μ V) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level dB (μ V/m) | Limits dB (μ V/m) | Margin (dB) |
|--------------|-----------------|-----------------------------|-----------------------|-----------------|--------------------------------|------------------------|-------------|
| Horizontal | 31.940 | 10.45 | 18.49 | 0.64 | 29.58 | 40.00 | 10.42 |
| | 56.190 | 23.99 | 7.46 | 0.75 | 32.20 | 40.00 | 7.80 |
| | 167.740 | 19.71 | 10.27 | 1.34 | 31.32 | 43.50 | 12.18 |
| | 279.290 | 13.36 | 13.52 | 1.80 | 28.68 | 46.00 | 17.32 |
| | 395.690 | 18.72 | 16.40 | 2.19 | 37.31 | 46.00 | 8.69 |
| | 853.530 | 11.42 | 21.24 | 3.34 | 36.00 | 46.00 | 10.00 |
| Vertical | 75.590 | 10.85 | 7.24 | 0.91 | 19.00 | 40.00 | 21.00 |
| | 119.240 | 12.54 | 12.97 | 1.14 | 26.65 | 43.50 | 16.85 |
| | 167.740 | 20.75 | 10.27 | 1.34 | 32.36 | 43.50 | 11.14 |
| | 221.090 | 26.66 | 11.71 | 1.61 | 39.98 | 46.00 | 6.02 |
| | 387.930 | 15.32 | 16.24 | 2.16 | 33.72 | 46.00 | 12.28 |
| | 599.390 | 9.17 | 19.20 | 2.74 | 31.11 | 46.00 | 14.89 |

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.


6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

| Name | M/N | Specifications (mm) | Manufacturer | Location |
|--------------|----------------------|---------------------|--------------|------------------------------|
| Ferrite Core | BNF-12\ZCAT1519-0830 | 15*19*8 | Bilusi | See Internal Photo Figure 23 |
| Ferrite Core | ZCAT2132-1130 | 21*32*11 | Bilusi | See Internal Photo 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:



(RAVEN JIN)