

Application for FCC Certificate  
On Behalf of  
LG Electronics U.S.A., Inc.

LCD Monitor

Model No.: W1941JT

Serial No.: E2009052203

FCC ID : BEJW1941ST

Prepared For : LG Electronics U.S.A., Inc.  
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Report No. : ACI-F09043  
Date of Test : May 26 – 31, 2009  
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## TEST REPORT FOR FCC CERTIFICATE

Applicant : LG Electronics U.S.A., Inc.  
Manufacturer : LG Electronics Nanjing Display Co., Ltd.  
EUT Description : LCD Monitor  
(A) Model No. : W1941JT  
(B) Serial No. : E2009052203  
(C) 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) and ICES-003, Issue 4 February 2004 (CISPR 22:2002) 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: W1941JT; S/N: E2009052203) which was tested in 3m anechoic chamber May 26 – 31, 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.

Date of Test : May 26 – 31, 2009 Date of Report : Jun 02, 2009

Producer : Zeno Gu  
ZENO GU / Assistant

Review : Byron Wu  
BYRON WU / Supervisor

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

Signatory : Dio Yang  
Authorized Signature EM DIO YANG / Supervisor

# 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
<b>EMISSION</b>			
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 Monitor
Type of EUT	:	<input checked="" type="checkbox"/> Production <input type="checkbox"/> Pre-product <input type="checkbox"/> Pro-type
Model No.	:	W1941JT
Serial No.	:	E2009052203
Real Power	:	23.00W
Note	:	The data of W1941JT at rotate 90 degree condition (only radiated emission) is also tested and recorded in this report. The mode tested was the worst case of W1941JT in normal condition.
Applicant	:	LG Electronics U.S.A., Inc. 1000 Sylvan Avenue, Englewood Cliffs, NJ 07632, United States
Manufacturer	:	LG Electronics Nanjing Display Co., Ltd. No.346, Yao Xin Road, Economic & Technical Development Zone, Nanjing, China
LCD Panel	:	Manufacturer : LG Display M/N : LM190WH1 (TL) (A1)
Max Resolution	:	1360*768@60Hz
D-Sub Cable #1	:	Shielded, Detachable, 1.85m, with two cores on cable
D-Sub Cable #2	:	Shielded, Detachable, 1.85m, with two cores in connector
Power Cord	:	Unshielded, Detachable, 1.80m
Note	:	After evaluation, the D-Sub cable#1 was used in the test for they will cause the maximum emission.

**Remark:**

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

- |                    |                        |
|--------------------|------------------------|
| (1) One D-Sub Port | : Connected with PC    |
| (3) One AC In Port | : Connected with Power |

## 2.2 Peripherals

### 2.2.1 PC

Manufacturer : HP  
Model Number : dx6120MT  
Serial Number : CNG53004J2  
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, 1.85m.  
Certificate : FCC DoC, VCCI, CE/EMC, MIC, GS

### 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

## 2.3 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

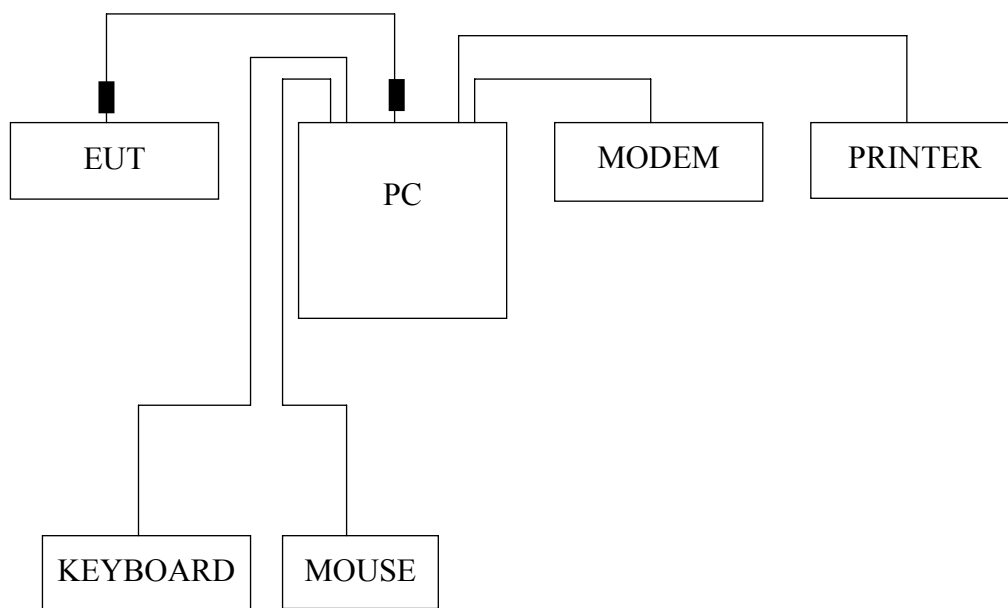
#### 3.1.1 Test Equipment

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.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 02, 2009	Apr 02, 2010
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 02, 2009	Apr 02, 2010
4.	50 $\Omega$ Coaxial Switch	Anritsu	MP59B	6200426389	Mar 19, 2009	Sep 19, 2009
5.	50 $\Omega$ Terminator	Anritsu	BNC	001	Apr 02, 2009	Apr 02, 2010
6.	Software	Audix	E3	SET00200 9804M592	--	--

#### 3.2 Block Diagram of Test Setup

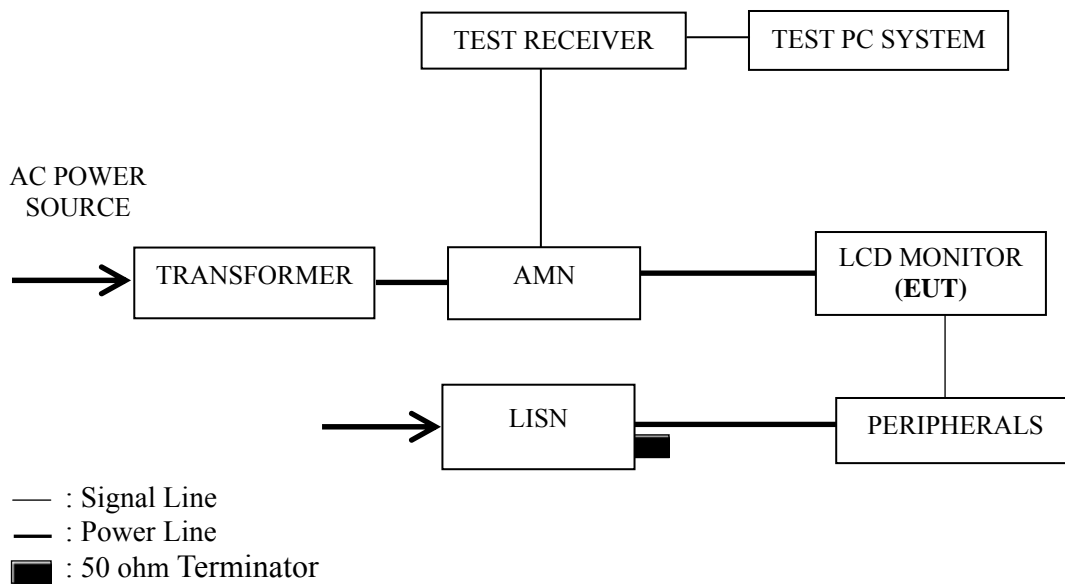
##### 3.2.1 EUT & Peripherals



■ : Ferrite core



### 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 D-Sub 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

### 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 C63.4:2003 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	P12
D-Sub 1024*768@60Hz	P13
D-Sub 1360*768@60Hz	P14

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 D-Sub 1360\*768@60Hz test mode. The worst emission is detected at 0.796 MHz (Quasi-Peak) with corrected signal level of 47.31 dB (μV) (limit is 56.00 dB (μV)), when the Line of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 19°C

Model No. : W1941JT Humidity : 50%RH

Serial No. : E2009052203 Date of Test : May 26, 2009

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

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.194	51.49	0.63	52.12	63.84	11.72	QP
	0.389	42.40	0.59	42.99	58.08	15.09	
	0.654	43.32	0.51	43.83	56.00	12.17	
	0.796	46.09	0.50	46.59	56.00	9.41	
	6.214	47.51	0.57	48.08	60.00	11.92	
	19.740	36.35	0.82	37.17	60.00	22.83	
	0.194	41.17	0.63	41.80	53.84	12.04	AV
	0.389	32.16	0.59	32.75	48.08	15.33	
	0.654	33.83	0.51	34.34	46.00	11.66	
	<b>0.796</b>	<b>36.49</b>	<b>0.50</b>	<b>36.99</b>	<b>46.00</b>	<b>9.01</b>	
	6.214	39.11	0.57	39.68	50.00	10.32	
	19.740	26.58	0.82	27.40	50.00	22.60	
Neutral	0.194	50.43	0.56	50.99	63.84	12.85	QP
	0.476	42.29	0.56	42.85	56.41	13.56	
	0.727	43.54	0.50	44.04	56.00	11.96	
	2.869	41.78	0.45	42.23	56.00	13.77	
	6.252	40.98	0.61	41.59	60.00	18.41	
	15.388	39.78	0.79	40.57	60.00	19.43	
	0.194	40.13	0.56	40.69	53.84	13.15	AV
	0.476	32.14	0.56	32.70	46.41	13.71	
	0.727	33.58	0.50	34.08	46.00	11.92	
	2.869	31.16	0.45	31.61	46.00	14.39	
	6.252	30.52	0.61	31.13	50.00	18.87	
	15.388	29.82	0.79	30.61	50.00	19.39	

TEST ENGINEER: HUGH HUANG

EUT : LCD Monitor Temperature : 19°C

Model No. : W1941JT Humidity : 50%RH

Serial No. : E2009052203 Date of Test : May 26, 2009

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

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.194	50.60	0.63	51.23	63.84	12.61	QP
	0.393	44.51	0.59	45.10	57.99	12.89	
	0.661	45.54	0.51	46.05	56.00	9.95	
	<b>0.796</b>	<b>46.66</b>	<b>0.50</b>	<b>47.16</b>	<b>56.00</b>	<b>8.84</b>	
	6.186	49.92	0.57	50.49	60.00	9.51	
	19.224	37.50	0.83	38.33	60.00	21.67	
	0.194	40.65	0.63	41.28	53.84	12.56	AV
	0.393	34.10	0.59	34.69	47.99	13.30	
	0.661	35.83	0.51	36.34	46.00	9.66	
	0.796	35.92	0.50	36.42	46.00	9.58	
	6.186	39.47	0.57	40.04	50.00	9.96	
	19.224	27.41	0.83	28.24	50.00	21.76	
Neutral	0.194	50.54	0.56	51.10	63.84	12.74	QP
	0.476	42.27	0.56	42.83	56.41	13.58	
	0.735	43.64	0.50	44.14	56.00	11.86	
	2.594	41.68	0.44	42.12	56.00	13.88	
	5.993	38.61	0.58	39.19	60.00	20.81	
	15.552	40.26	0.79	41.05	60.00	18.95	
	0.194	40.16	0.56	40.72	53.84	13.12	AV
	0.476	32.82	0.56	33.38	46.41	13.03	
	0.735	33.88	0.50	34.38	46.00	11.62	
	2.594	31.99	0.44	32.43	46.00	13.57	
	5.993	28.97	0.58	29.55	50.00	20.45	
	0.194	50.54	0.56	51.10	63.84	12.74	

TEST ENGINEER: HUGH HUANG

EUT : LCD Monitor Temperature : 19°C

Model No. : W2343TEV Humidity : 50%RH

Serial No. : E2009052203 Date of Test : May 26, 2009

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

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.194	50.33	0.63	50.96	63.84	12.88	QP
	0.339	45.61	0.60	46.21	59.22	13.01	
	<b>0.796</b>	<b>46.81</b>	<b>0.50</b>	<b>47.31</b>	<b>56.00</b>	<b>8.69</b>	
	2.650	46.13	0.46	46.59	56.00	9.41	
	6.186	49.76	0.57	50.33	60.00	9.67	
	18.820	34.30	0.83	35.13	60.00	24.87	
	0.194	40.17	0.63	40.80	53.84	13.04	AV
	0.339	35.94	0.60	36.54	49.22	12.68	
	0.796	36.56	0.50	37.06	46.00	8.94	
	2.650	35.93	0.46	36.39	46.00	9.61	
	6.186	38.50	0.57	39.07	50.00	10.93	
	18.820	25.41	0.83	26.24	50.00	23.76	
Neutral	0.194	49.76	0.56	50.32	63.84	13.52	QP
	0.264	45.80	0.57	46.37	61.29	14.92	
	0.634	42.63	0.51	43.14	56.00	12.86	
	0.720	43.67	0.50	44.17	56.00	11.83	
	9.011	36.81	0.70	37.51	60.00	22.49	
	15.146	38.78	0.78	39.56	60.00	20.44	
	0.194	39.58	0.56	40.14	53.84	13.70	AV
	0.264	35.46	0.57	36.03	51.29	15.26	
	0.634	32.16	0.51	32.67	46.00	13.33	
	0.720	33.45	0.50	33.95	46.00	12.05	
	9.011	26.48	0.70	27.18	50.00	22.82	
	15.146	28.49	0.78	29.27	50.00	20.73	

TEST ENGINEER: HUGH HUANG

## 4 RADIATED EMISSION TEST

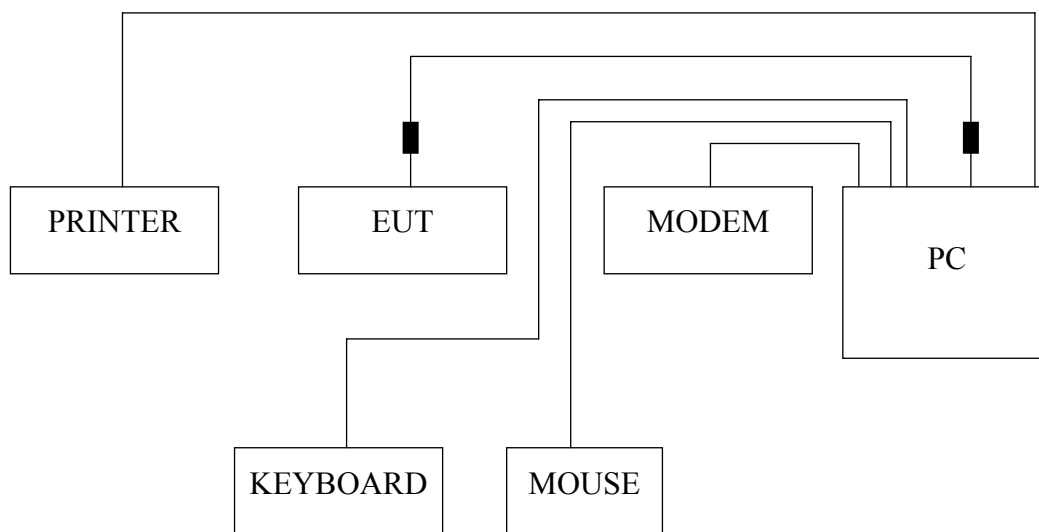
### 4.1 Test Equipment

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	Mar 19, 2009	Sep 19, 2009
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	--	--

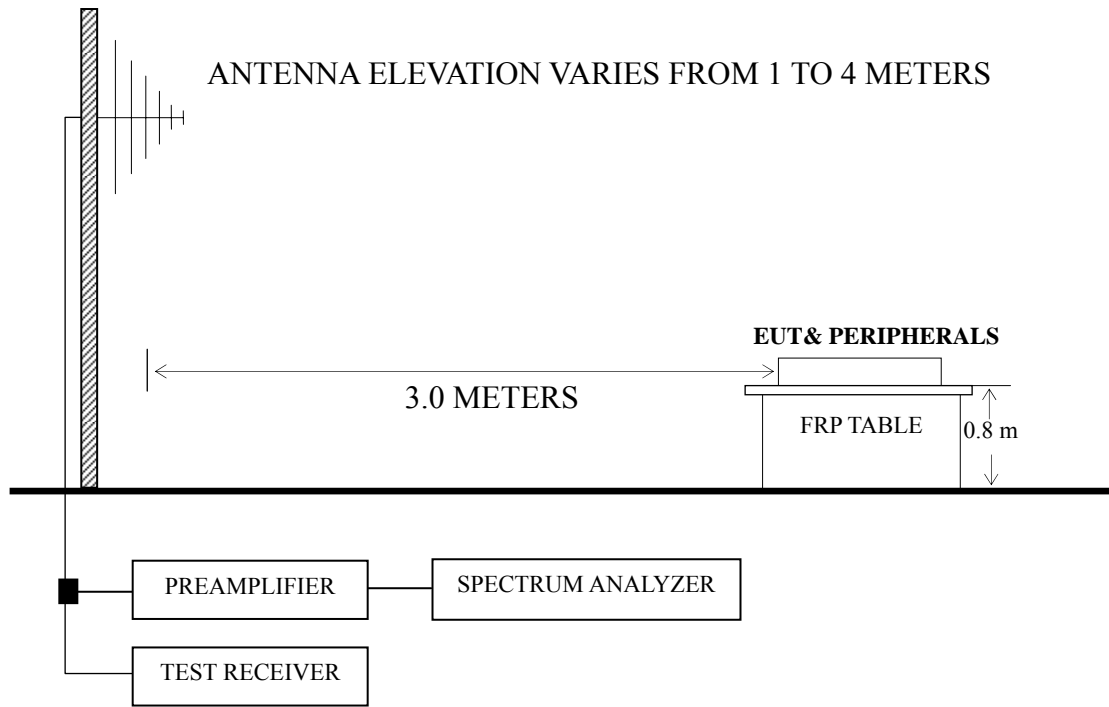
### 4.2 Block Diagram of Test Setup

#### 4.2.1 EUT and Peripherals



■ : Ferrite core

#### 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.

#### 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	P19
D-Sub 1024*768@60Hz	P20
D-Sub 1680*1050@60Hz	P21
D-Sub 640*480@60Hz (Rotate 90 degree)	P22

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

NOTE 3 – The emission levels that are 20dB below the official limit are not reported.

NOTE 4 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 5 – All reading are Quasi-Peak values.

NOTE 6 – The worst case is for D-Sub 640\*480@60Hz test mode. The worst emission at horizontal polarization was detected at 148.340 MHz with corrected signal level of 39.89 dB (μV/m) (limit is 43.50dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 240°. The worst emission at vertical polarization was detected at 207.510 MHz with corrected signal level of 40.01 dB (μV/m) (limit is 43.50 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 150°.

EUT : LCD Monitor Temperature : 22°C

Model No. : W1941JT Humidity : 60%RH

Serial No. : E2009052203 Date of Test : May 31, 2009

Test Mode : D-Sub 640\*480@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	36.790	9.97	15.80	0.66	26.43	40.00	13.57
	75.590	21.79	7.24	0.91	29.94	40.00	10.06
	<b>148.340</b>	<b>27.26</b>	<b>11.41</b>	<b>1.22</b>	<b>39.89</b>	<b>43.50</b>	<b>3.61</b>
	225.940	28.22	11.94	1.63	41.79	46.00	4.21
	292.870	26.51	13.79	1.85	42.15	46.00	3.85
	321.000	23.70	14.46	1.94	40.10	46.00	5.90
Vertical	32.910	16.28	17.95	0.64	34.87	40.00	5.13
	51.340	26.70	8.61	0.71	36.02	40.00	3.98
	145.430	26.16	11.66	1.21	39.03	43.50	4.47
	<b>207.510</b>	<b>27.39</b>	<b>11.05</b>	<b>1.57</b>	<b>40.01</b>	<b>43.50</b>	<b>3.49</b>
	257.950	26.40	13.06	1.72	41.18	46.00	4.82
	316.150	25.70	14.35	1.93	41.98	46.00	4.02

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1941JT Humidity : 60%RH

Serial No. : E2009052203 Date of Test : May 31, 2009

Test Mode : D-Sub 1024\*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	34.850	7.58	16.97	0.65	25.20	40.00	14.80
	50.370	8.82	8.85	0.70	18.37	40.00	21.63
	129.910	16.99	12.52	1.17	30.68	43.50	12.82
	194.900	20.79	10.51	1.51	32.81	43.50	10.69
	<b>223.030</b>	<b>25.78</b>	<b>11.80</b>	<b>1.62</b>	<b>39.20</b>	<b>46.00</b>	<b>6.80</b>
	304.510	13.27	14.03	1.89	29.19	46.00	16.81
Vertical	33.880	16.93	17.44	0.64	35.01	40.00	4.99
	51.340	25.25	8.61	0.71	34.57	40.00	5.43
	83.350	24.10	8.30	0.97	33.37	40.00	6.63
	156.100	24.72	10.79	1.27	36.78	43.50	6.72
	<b>224.000</b>	<b>28.63</b>	<b>11.85</b>	<b>1.62</b>	<b>42.10</b>	<b>46.00</b>	<b>3.90</b>
	316.150	22.48	14.35	1.93	38.76	46.00	7.24

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1941JT Humidity : 60%RH

Serial No. : E2009052203 Date of Test : May 31, 2009

Test Mode : D-Sub 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	32.910	10.43	17.95	0.64	29.02	40.00	10.98
	127.970	16.76	12.63	1.17	30.56	43.50	12.94
	140.580	20.89	12.05	1.20	34.14	43.50	9.36
	190.050	21.33	10.30	1.48	33.11	43.50	10.39
	<b>223.030</b>	<b>27.42</b>	<b>11.80</b>	<b>1.62</b>	<b>40.84</b>	<b>46.00</b>	<b>5.16</b>
	372.410	11.96	15.92	2.12	30.00	46.00	16.00
Vertical	34.850	14.92	16.97	0.65	32.54	40.00	7.46
	50.370	25.14	8.85	0.70	34.69	40.00	5.31
	124.090	21.27	12.81	1.16	35.24	43.50	8.26
	<b>224.000</b>	<b>27.74</b>	<b>11.85</b>	<b>1.62</b>	<b>41.21</b>	<b>46.00</b>	<b>4.79</b>
	246.310	25.48	12.75	1.69	39.92	46.00	6.08
	496.570	14.33	17.85	2.42	34.60	46.00	11.40

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1941JT Humidity : 60%RH

Serial No. : E2009052203 Date of Test : May 31, 2009

Test Mode : D-Sub 640\*480@60Hz  
(Rotate 90 degree)

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	34.850	18.10	16.97	0.65	35.72	40.00	4.28
	61.040	26.19	6.59	0.80	33.58	40.00	6.42
	124.090	25.53	12.81	1.16	39.50	43.50	4.00
	<b>214.300</b>	<b>26.88</b>	<b>11.35</b>	<b>1.59</b>	<b>39.82</b>	<b>43.50</b>	<b>3.68</b>
	292.870	24.99	13.79	1.85	40.63	46.00	5.37
	851.590	9.40	21.24	3.32	33.96	46.00	12.04
Vertical	33.880	4.96	17.44	0.64	23.04	40.00	16.96
	92.080	17.96	9.82	1.03	28.81	43.50	14.69
	<b>186.170</b>	<b>27.65</b>	<b>10.14</b>	<b>1.47</b>	<b>39.26</b>	<b>43.50</b>	<b>4.24</b>
	215.270	26.22	11.39	1.59	39.20	43.50	4.30
	244.370	24.51	12.68	1.68	38.87	46.00	7.13
	300.630	20.90	13.93	1.88	36.71	46.00	9.29

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
Aluminum foil	T308	50*30	DAEHUNG SUBSIDIARY MATERIALS.	See Internal Photo Figure 15
Tape	3940TKK043H	88*10*6	EXPAN	See Internal Photo Figure 16
Tape	4850V00030V	30*60*0.4	EXPAN	See Internal Photo Figure 16
Tape	3940TKK041D	240*9*3	EXPAN	See Internal Photo Figure 16
Tape	3940TKK043E	55*9*2	EXPAN	See Internal Photo Figure 16
Tape	3940TKK043H	88*10*6	EXPAN	See Internal Photo Figure 16