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

LCD Monitor

Model No.: W1946SW

Serial No.: E2009102105

FCC ID : BEJW1946SW

Prepared For : LG Electronics U.S.A., Inc.
1000 Sylvan Avenue, Englewood Cliffs,
NJ 07632, United States

Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F09104
Date of Test : Oct 22, 2009
Date of Report : Nov 03, 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. : W1946SW
		(B) Serial No. : E2009102105
		(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: W1946SW; S/N: E2009102105) which was tested in 3m anechoic chamber Oct 22, 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 : Oct 22, 2009 Date of Report : Nov 03, 2009

Producer : Kathy Wang
KATHY WANG / Assistant

Review : Dio Yang
DIO YANG / Deputy Assistant Manager

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

Signatory : Sammy Chen
Authorized Signature EMSAMMY CHEN / 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 Monitor
Type of EUT	:	☑ Production ☐ Pre-product ☐ Pro-type
Model No.	:	W1946SW
Serial No.	:	E2009102105
Real Power	:	20.00W
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 : BOE M/N : HT185WX1-100
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 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

(2) One AC In Port
: Connected with Power

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, 1.85m.
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

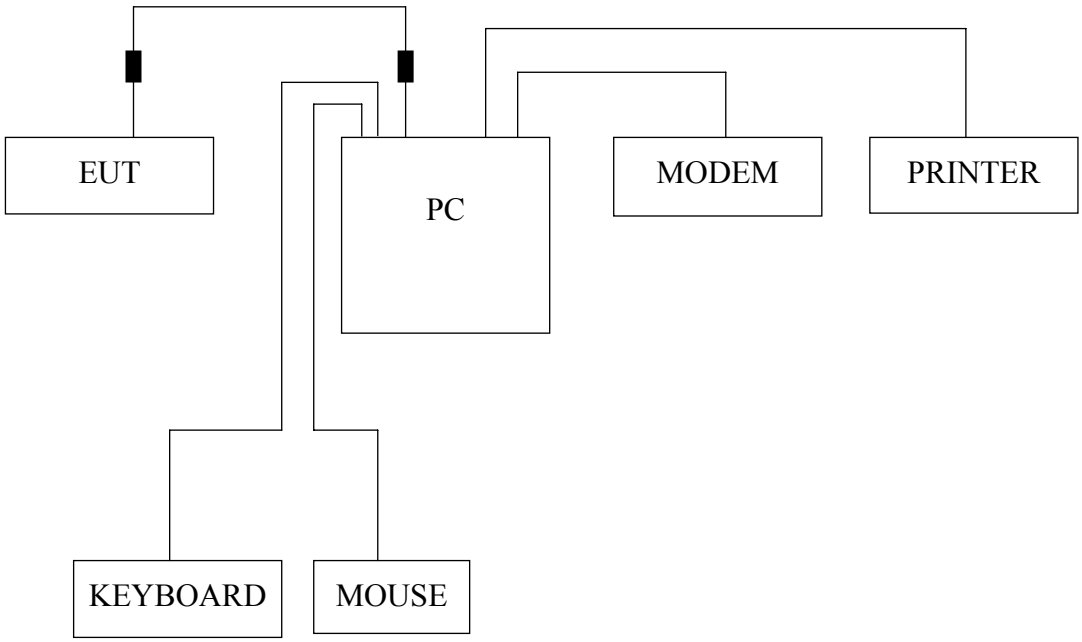
3.1.1 Test Equipment

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.	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.	50Ω Terminator	Anritsu	BNC	001	Apr 02, 2009	Apr 02, 2010
6.	Software	Audix	E3	SET00200 9804M592	--	--

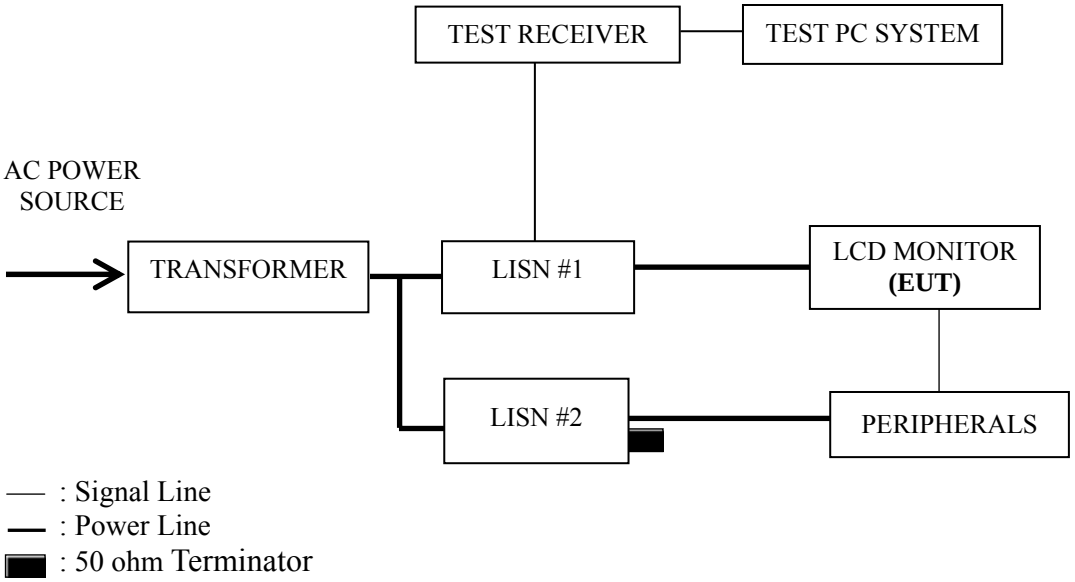
3.2 Block Diagram of Test Setup

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 a 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	P12
D-Sub 1024*768@60Hz	P13
D-Sub 1360*768@60Hz	**P14**

NOTE 1 – The **bold test mode** listed above means the worst test mode.
NOTE 2 – Factor = Cable Loss + LISN Factor.
NOTE 3 – Emission Level = Meter Reading + Factor.
NOTE 4 – "QP" means "Quasi-Peak" values, "AV" means "Average" values.
NOTE 5 – The worst case is for D-Sub 1360*768@60Hz test mode. The worst emission is detected at 2.794 MHz (Average Value) with corrected signal level of 33.12 dB (μV) (limit is 46.00 dB (μV)), when the Neutral of the EUT is connected to LISN.

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	W1946SW	Humidity	:	52%RH
Serial No.	:	E2009102105	Date of Test	:	Oct 22, 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	0.188	44.70	0.18	44.88	64.11	19.23	QP
	0.310	35.19	0.18	35.37	59.97	24.60	
	0.634	34.41	0.18	34.59	56.00	21.41	
	2.527	36.66	0.27	36.93	56.00	19.07	
	6.252	39.47	0.34	39.81	60.00	20.19	
	22.298	35.39	0.49	35.88	60.00	24.12	
	0.188	32.80	0.18	32.98	54.11	21.13	AV
	0.310	25.40	0.18	25.58	49.97	24.39	
	0.634	25.30	0.18	25.48	46.00	20.52	
	2.527	24.50	0.27	24.77	46.00	21.23	
	6.252	28.30	0.34	28.64	50.00	21.36	
	22.298	26.20	0.49	26.69	50.00	23.31	
Neutral	0.186	45.10	0.17	45.27	64.20	18.93	QP
	0.313	35.46	0.18	35.64	59.88	24.24	
	0.634	35.53	0.20	35.73	56.00	20.27	
	2.794	**39.44**	**0.32**	**39.76**	**56.00**	**16.24**	
	6.252	42.05	0.35	42.40	60.00	17.60	
	21.830	40.50	0.54	41.04	60.00	18.96	
	0.186	36.61	0.17	36.78	54.20	17.42	AV
	0.313	26.50	0.18	26.68	49.88	23.20	
	0.634	24.70	0.20	24.90	46.00	21.10	
	2.794	28.50	0.32	28.82	46.00	17.18	
	6.252	31.20	0.35	31.55	50.00	18.45	
	21.830	29.80	0.54	30.34	50.00	19.66	

TEST ENGINEER: HUGH HUANG

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	W1946SW	Humidity	:	52%RH
Serial No.	:	E2009102105	Date of Test	:	Oct 22, 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	0.188	44.33	0.18	44.51	64.11	19.60	QP
	0.313	35.41	0.18	35.59	59.88	24.29	
	0.634	34.48	0.18	34.66	56.00	21.34	
	2.736	36.69	0.28	36.97	56.00	19.03	
	6.252	39.01	0.34	39.35	60.00	20.65	
	21.830	35.73	0.49	36.22	60.00	23.78	
	0.188	35.40	0.18	35.58	54.11	18.53	AV
	0.313	23.30	0.18	23.48	49.88	26.40	
	0.634	24.80	0.18	24.98	46.00	21.02	
	2.736	25.40	0.28	25.68	46.00	20.32	
	6.252	28.50	0.34	28.84	50.00	21.16	
	21.830	24.40	0.49	24.89	50.00	25.11	
Neutral	0.186	44.79	0.17	44.96	64.20	19.24	QP
	0.313	35.75	0.18	35.93	59.88	23.95	
	0.634	36.35	0.20	36.55	56.00	19.45	
	2.794	**40.23**	**0.32**	**40.55**	**56.00**	**15.45**	
	6.252	41.53	0.35	41.88	60.00	18.12	
	21.830	39.72	0.54	40.26	60.00	19.74	
	0.186	34.51	0.17	34.68	54.20	19.52	AV
	0.313	24.30	0.18	24.48	49.88	25.40	
	0.634	25.40	0.20	25.60	46.00	20.40	
	2.794	29.40	0.32	29.72	46.00	16.28	
	6.252	30.50	0.35	30.85	50.00	19.15	
	21.830	28.60	0.54	29.14	50.00	20.86	

TEST ENGINEER: HUGH HUANG

EUT	:	LCD Monitor	Temperature :	22℃	
Model No.	:	W1946SW	Humidity	:	52%RH
Serial No.	:	E2009102105	Date of Test	:	Oct 22, 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	0.188	44.48	0.18	44.66	64.11	19.45	QP
	0.320	35.55	0.18	35.73	59.71	23.98	
	0.634	34.41	0.18	34.59	56.00	21.41	
	2.765	38.20	0.28	38.48	56.00	17.52	
	4.454	33.45	0.34	33.79	56.00	22.21	
	6.252	39.43	0.34	39.77	60.00	20.23	
	0.188	32.40	0.18	32.58	54.11	21.53	AV
	0.320	24.30	0.18	24.48	49.71	25.23	
	0.634	22.60	0.18	22.78	46.00	23.22	
	2.765	26.80	0.28	27.08	46.00	18.92	
	4.454	22.79	0.34	23.13	46.00	22.87	
	6.252	29.60	0.34	29.94	50.00	20.06	
Neutral	0.186	44.86	0.17	45.03	64.20	19.17	QP
	0.310	35.58	0.18	35.76	59.97	24.21	
	0.634	36.29	0.20	36.49	56.00	19.51	
	2.794	41.79	0.32	42.11	56.00	13.89	
	6.252	41.72	0.35	42.07	60.00	17.93	
	22.063	39.50	0.54	40.04	60.00	19.96	
	0.186	33.61	0.17	33.78	54.20	20.42	AV
	0.310	25.60	0.18	25.78	49.97	24.19	
	0.634	25.40	0.20	25.60	46.00	20.40	
	2.794	**32.80**	**0.32**	**33.12**	**46.00**	**12.88**	
	6.252	30.50	0.35	30.85	50.00	19.15	
	22.063	28.80	0.54	29.34	50.00	20.66	

TEST ENGINEER: HUGH HUANG

4 RADIATED EMISSION TEST

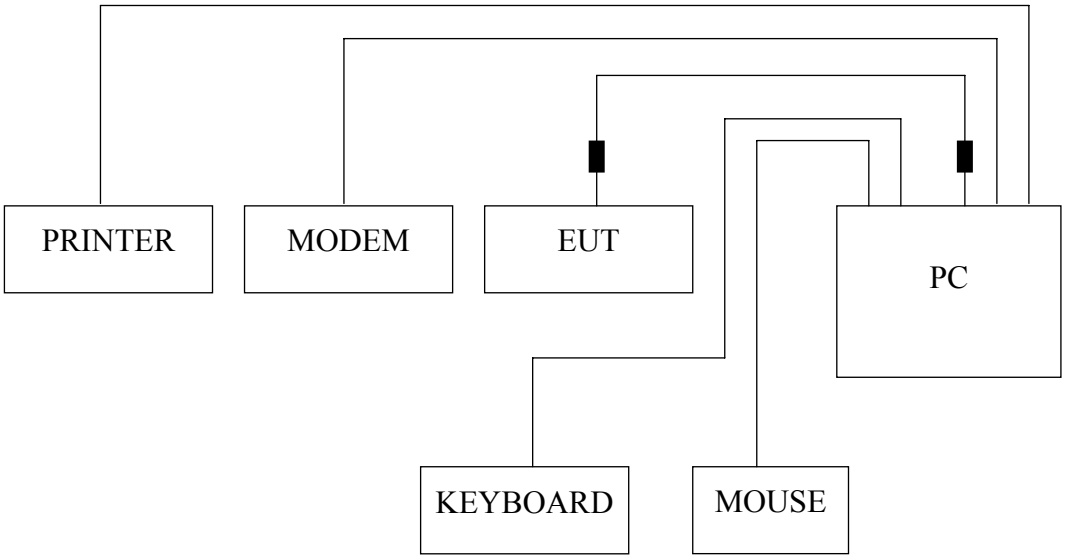
4.1 Test Equipment

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	Mar 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	--	--

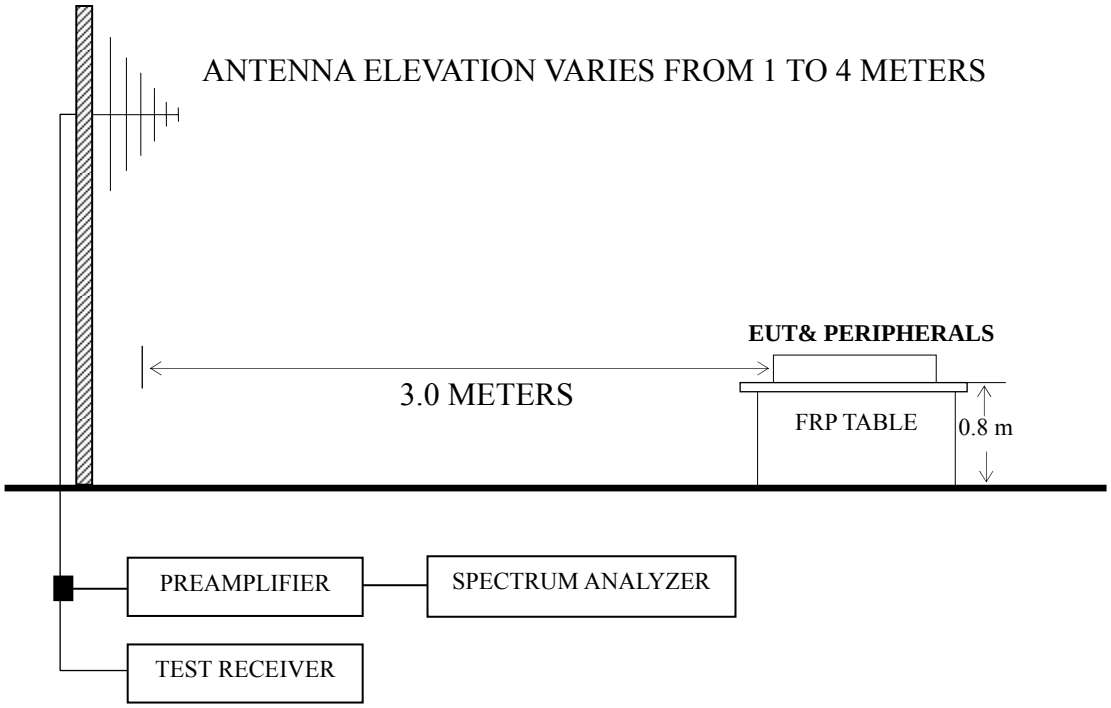
4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals



▮ : 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	
		(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.

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	P18
D-Sub 1024*768@60Hz	P19
D-Sub 1360*768@60Hz	**P20**

NOTE 1 – The **bold test mode** listed above means the worst test mode.
NOTE 2 – Emission Level = Antenna Factor + Cable Loss + Meter Reading.
NOTE 4 – The emission levels that are 20dB below the official limit are not reported.
NOTE 5 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.
NOTE 6 – The worst case is for D-Sub 1360*768@60Hz test mode. The worst emission at horizontal polarization was detected at 259.890 MHz with corrected signal level of 42.59 dB (μV/m) (limit is 46.00dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 280°. The worst emission at vertical polarization was detected at 116.330 MHz with corrected signal level of 39.33 dB (μV/m) (limit is 43.50 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 100°.

EUT	:	LCD Monitor	Temperature :	22℃
Model No.	:	W1946SW	Humidity :	60%RH
Serial No.	:	E2009102105	Date of Test :	Oct 22, 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	101.780	15.27	11.63	1.08	27.98	43.50	15.52
	145.430	**25.97**	**11.66**	**1.21**	**38.84**	**43.50**	**4.66**
	259.890	26.37	13.10	1.74	41.21	46.00	4.79
	397.630	22.03	16.44	2.19	40.66	46.00	5.34
	546.040	19.73	18.52	2.58	40.83	46.00	5.17
	793.390	15.87	20.64	3.19	39.70	46.00	6.30
Vertical	116.330	24.21	12.78	1.13	38.12	43.50	5.38
	140.580	26.35	12.05	1.20	39.60	43.50	3.90
	373.380	24.12	15.92	2.12	42.16	46.00	3.84
	465.530	22.07	17.46	2.36	41.89	46.00	4.11
	546.040	**21.22**	**18.52**	**2.58**	**42.32**	**46.00**	**3.68**
	833.160	**18.02**	**21.01**	**3.29**	**42.32**	**46.00**	**3.68**

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃
Model No.	:	W1946SW	Humidity :	60%RH
Serial No.	:	E2009102105	Date of Test :	Oct 22, 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	109.540	15.86	12.25	1.11	29.22	43.50	14.28
	147.370	25.50	11.51	1.22	38.23	43.50	5.27
	261.830	**26.65**	**13.15**	**1.74**	**41.54**	**46.00**	**4.46**
	373.380	20.82	15.92	2.12	38.86	46.00	7.14
	536.340	16.01	18.39	2.56	36.96	46.00	9.04
	703.180	10.45	19.73	2.94	33.12	46.00	12.88
Vertical	119.240	24.46	12.97	1.14	38.57	43.50	4.93
	145.430	**26.97**	**11.66**	**1.21**	**39.84**	**43.50**	**3.66**
	259.890	21.99	13.10	1.74	36.83	46.00	9.17
	373.380	22.19	15.92	2.12	40.23	46.00	5.77
	458.740	21.74	17.35	2.35	41.44	46.00	4.56
	533.430	18.55	18.33	2.56	39.44	46.00	6.56

TEST ENGINEER: RAVEN JIN

EUT	:	LCD Monitor	Temperature :	22℃
Model No.	:	W1946SW	Humidity :	60%RH
Serial No.	:	E2009102105	Date of Test :	Oct 22, 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	116.330	14.33	12.78	1.13	28.24	43.50	15.26
	143.490	25.04	11.81	1.21	38.06	43.50	5.44
	259.890	**27.75**	**13.10**	**1.74**	**42.59**	**46.00**	**3.41**
	373.380	20.41	15.92	2.12	38.45	46.00	7.55
	546.040	16.59	18.52	2.58	37.69	46.00	8.31
	785.630	12.05	20.58	3.17	35.80	46.00	10.20
Vertical	41.640	15.60	13.02	0.67	29.29	40.00	10.71
	116.330	**25.42**	**12.78**	**1.13**	**39.33**	**43.50**	**4.17**
	143.490	25.78	11.81	1.21	38.80	43.50	4.70
	259.890	25.09	13.10	1.74	39.93	46.00	6.07
	373.380	23.64	15.92	2.12	41.68	46.00	4.32
	431.580	22.35	16.95	2.28	41.58	46.00	4.42

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.