

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

LCD Monitor

Model No.: W2261VV

Serial No.: 811NDBP6R773

FCC ID : BEJW2261VV

Prepared For : LG Electronics U.S.A., Inc.
1000 Sylvan Avenue, Englewood Cliffs,
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Report No. : ACI-F09005
Date of Test : Jan 05 – 08, 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. : W2261VV
(B) Serial No. : 811NDBP6R773
(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: W2261VV; S/N: 811NDBP6R773) which was tested in 3m anechoic chamber Jan 05 – 08, 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 : Jan 05 – 08, 2009 Date of Report : Jan 13, 2009

Producer : Kathy Wang
KATHY WANG / Assistant

Review : Dio Yang
DIO YANG / Supervisor

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

Signatory : Sammy Chen
Authorized Signature EMC SAMMY 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.	:	W2261VV
Serial No.	:	811NDBP6R773
Real Power	:	45.00W
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 : LG Display M/N : LM215WF1 (TL) (B1)
Max Resolution	:	1920*1080@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
DVI Cable #1	:	Shielded, Detachable, 1.85m, with two cores on cable
DVI Cable #2	:	Shielded, Detachable, 1.85m, with two cores in connector
HDMI Cable	:	Shielded, Detachable, 1.85m, without core
Power Cord	:	Unshielded, Detachable, 1.80m
Note	:	After evaluation, the D-Sub cable#1 and DVI cable#1 were 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 DVI Port : Connected with PC
- (3) One HDMI Port : Connected with PC
- (4) One Earphone Port : Connected with Earphone
- (5) 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

2.2.6 Earphone

Manufacturer : SONY
Model Number : MDR-E808
Serial Number : 1808030805305063
Data Cable : Unshielded, Undetachable, 2.0m

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on
(Semi-Anechoic Chamber) July 26, 2006 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

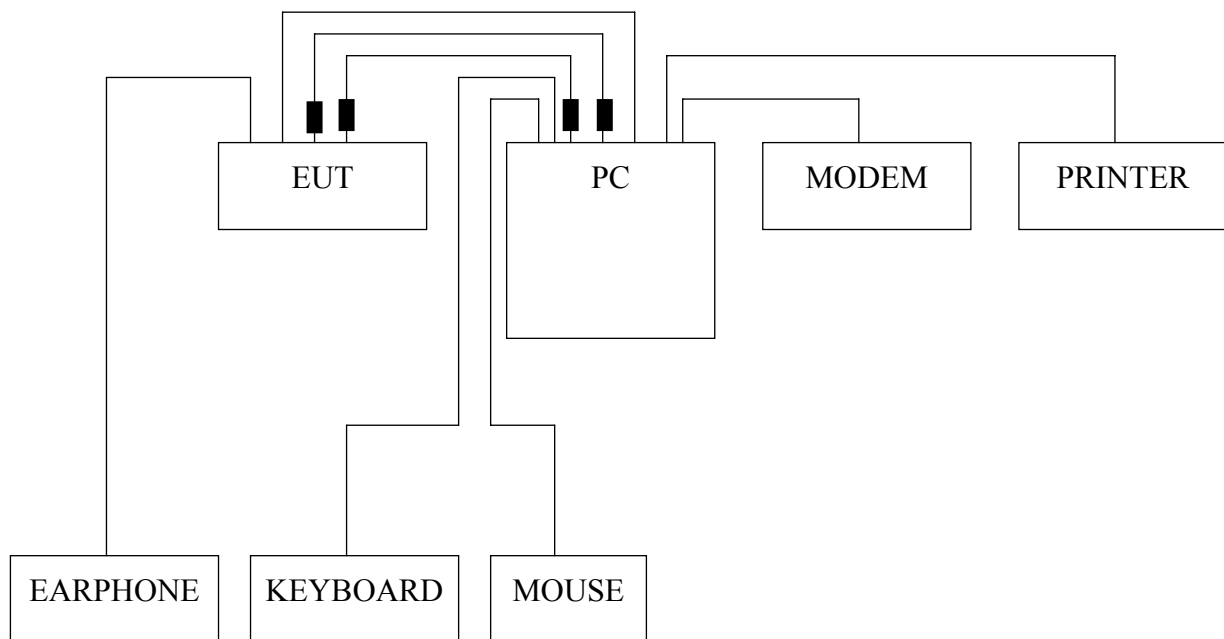
3.1.1 Test Equipment

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	ESHS10	830223/007	Apr 02, 2008	Apr 02, 2009
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 02, 2008	Apr 02, 2009
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 02, 2008	Apr 02, 2009
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 19, 2008	Mar 19, 2009
5.	50 Ω Terminator	Anritsu	BNC	001	Apr 02, 2008	Apr 02, 2009
6.	Software	Audix	E3	SET00200 9804M592	--	--

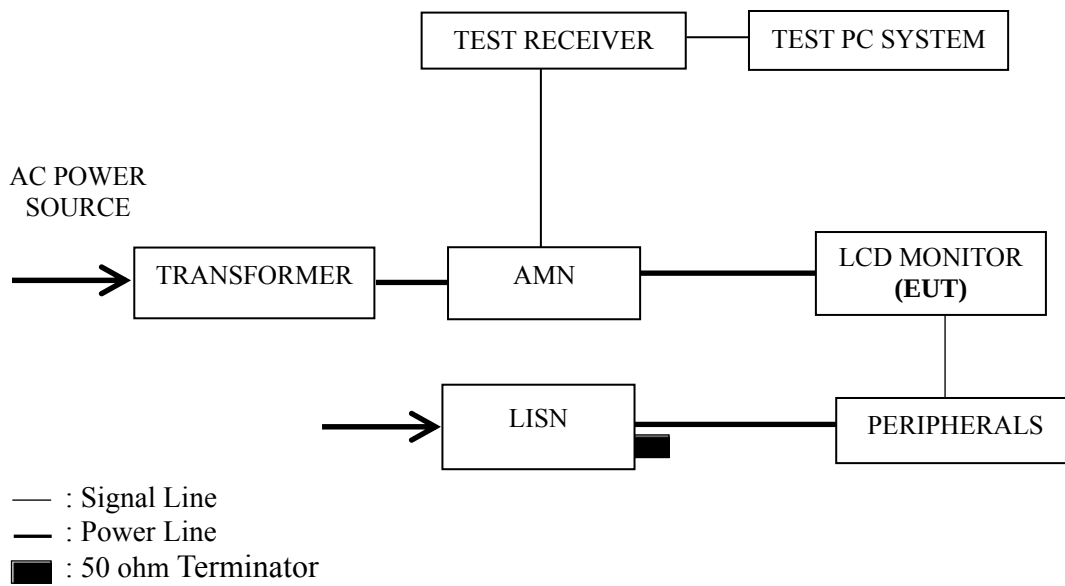
3.2 Block Diagram of Test Setup

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 (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, DVI & HDMI Input).

3.5.5 In HDMI mode, PC system played music and sent audio signal to EUT through the HDMI port of EUT.

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

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

3.5.8 The test modes are as follows:

Test Mode	
D-Sub 640*480@60Hz	DVI 1680*1050@60Hz
D-Sub 1024*768@60Hz	DVI 1920*1080@60Hz
D-Sub 1680*1050@60Hz	HDMI 640*480@60Hz
D-Sub 1920*1080@60Hz	HDMI 1024*768@60Hz
DVI 640*480@60Hz	HDMI 1680*1050@60Hz
DVI 1024*768@60Hz	HDMI 1920*1080@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 ESHS10 was set at 10 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 1680*1050@60Hz	P14
D-Sub 1920*1080@60Hz	P15
DVI 640*480@60Hz	P16
DVI 1024*768@60Hz	P17
DVI 1680*1050@60Hz	P18
DVI 1920*1080@60Hz	P19
HDMI 640*480@60Hz	P20
HDMI 1024*768@60Hz	P21
HDMI 1680*1050@60Hz	P22
HDMI 1920*1080@60Hz	P23

NOTE 1 – Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – “QP” means “Quasi-Peak” values, “AV” means “Average” values.

NOTE 4 –The worst case is for HDMI 640*480@60Hz test mode. The worst emission is detected at 0.206 MHz (Average Value) with corrected signal level of 36.68 dB (μV) (limit is 53.36 dB (μV)), when the Neutral of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

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	0.152	47.82	0.23	48.05	65.91	17.86	QP
	0.208	45.43	0.20	45.63	63.27	17.64	
	0.352	37.12	0.22	37.34	58.91	21.57	
	1.396	28.02	0.28	28.30	56.00	27.70	
	5.031	34.55	0.38	34.93	60.00	25.07	
	16.486	34.31	0.72	35.03	60.00	24.97	
	0.152	37.81	0.23	38.04	55.91	17.87	AV
	0.208	36.12	0.20	36.32	53.27	16.95	
	0.352	27.45	0.22	27.67	48.91	21.24	
	1.396	18.49	0.28	18.77	46.00	27.23	
	5.031	24.61	0.38	24.99	50.00	25.01	
	16.486	24.60	0.72	25.32	50.00	24.68	
Neutral	0.154	48.58	0.19	48.77	65.78	17.01	QP
	0.209	44.69	0.20	44.89	63.23	18.34	
	0.352	37.04	0.22	37.26	58.91	21.65	
	2.033	31.60	0.24	31.84	56.00	24.16	
	5.031	33.59	0.35	33.94	60.00	26.06	
	16.661	33.60	0.57	34.17	60.00	25.83	
	0.154	38.51	0.19	38.70	55.78	17.08	AV
	0.209	35.28	0.20	35.48	53.23	17.75	
	0.352	27.94	0.22	28.16	48.91	20.75	
	2.033	21.36	0.24	21.60	46.00	24.40	
	5.031	23.65	0.35	24.00	50.00	26.00	
	16.661	24.60	0.57	25.17	50.00	24.83	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

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	0.152	47.53	0.23	47.76	65.91	18.15	QP
	0.212	45.67	0.20	45.87	63.14	17.27	
	0.352	36.82	0.22	37.04	58.91	21.87	
	1.888	30.38	0.27	30.65	56.00	25.35	
	5.031	34.35	0.38	34.73	60.00	25.27	
	16.661	34.22	0.72	34.94	60.00	25.06	
	0.152	37.51	0.23	37.74	55.91	18.17	AV
	0.212	35.65	0.20	35.85	53.14	17.29	
	0.352	26.35	0.22	26.57	48.91	22.34	
	1.888	22.36	0.27	22.63	46.00	23.37	
	5.031	24.61	0.38	24.99	50.00	25.01	
	16.661	24.64	0.72	25.36	50.00	24.64	
Neutral	0.154	46.95	0.19	47.14	65.78	18.64	QP
	0.354	36.38	0.22	36.60	58.87	22.27	
	1.324	29.17	0.25	29.42	56.00	26.58	
	3.140	31.00	0.30	31.30	56.00	24.70	
	5.031	34.04	0.35	34.39	60.00	25.61	
	16.661	34.33	0.57	34.90	60.00	25.10	
	0.154	36.51	0.19	36.70	55.78	19.08	AV
	0.354	26.52	0.22	26.74	48.87	22.13	
	1.324	19.87	0.25	20.12	46.00	25.88	
	3.140	22.00	0.30	22.30	46.00	23.70	
	5.031	24.53	0.35	24.88	50.00	25.12	
	16.661	24.62	0.57	25.19	50.00	24.81	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

Test Mode : D-Sub 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	46.94	0.23	47.17	66.00	18.83	QP
	0.212	45.37	0.20	45.57	63.14	17.57	
	0.352	33.32	0.22	33.54	58.91	25.37	
	2.794	32.16	0.32	32.48	56.00	23.52	
	6.285	33.45	0.46	33.91	60.00	26.09	
	16.661	34.79	0.72	35.51	60.00	24.49	
	0.150	36.25	0.23	36.48	56.00	19.52	AV
	0.212	35.21	0.20	35.41	53.14	17.73	
	0.352	23.16	0.22	23.38	48.91	25.53	
	2.794	23.51	0.32	23.83	46.00	22.17	
	6.285	23.65	0.46	24.11	50.00	25.89	
	16.661	24.57	0.72	25.29	50.00	24.71	
Neutral	0.152	47.66	0.19	47.85	65.87	18.02	QP
	0.212	45.20	0.20	45.40	63.14	17.74	
	0.358	33.91	0.22	34.13	58.78	24.65	
	2.794	32.19	0.29	32.48	56.00	23.52	
	6.285	33.59	0.42	34.01	60.00	25.99	
	16.486	34.98	0.57	35.55	60.00	24.45	
	0.152	34.51	0.19	34.70	55.87	21.17	AV
	0.212	35.26	0.20	35.46	53.14	17.68	
	0.358	23.61	0.22	23.83	48.78	24.95	
	2.794	23.61	0.29	23.90	46.00	22.10	
	6.285	23.61	0.42	24.03	50.00	25.97	
	16.486	24.17	0.57	24.74	50.00	25.26	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

Test Mode : D-Sub 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	48.45	0.23	48.68	65.91	17.23	QP
	0.212	44.71	0.20	44.91	63.14	18.23	
	2.794	31.37	0.32	31.69	56.00	24.31	
	6.285	33.80	0.46	34.26	60.00	25.74	
	16.486	34.66	0.72	35.38	60.00	24.62	
	18.622	30.54	0.72	31.26	60.00	28.74	
	0.152	38.45	0.23	38.68	55.91	17.23	AV
	0.212	34.26	0.20	34.46	53.14	18.68	
	2.794	21.30	0.32	21.62	46.00	24.38	
	6.285	24.17	0.46	24.63	50.00	25.37	
	16.486	24.35	0.72	25.07	50.00	24.93	
	18.622	21.52	0.72	22.24	50.00	27.76	
Neutral	0.152	48.12	0.19	48.31	65.91	17.60	QP
	0.212	43.69	0.20	43.89	63.14	19.25	
	0.282	36.88	0.22	37.10	60.76	23.66	
	2.721	31.65	0.29	31.94	56.00	24.06	
	6.285	33.65	0.42	34.07	60.00	25.93	
	16.486	34.66	0.57	35.23	60.00	24.77	
	0.152	38.57	0.19	38.76	55.91	17.15	AV
	0.212	33.16	0.20	33.36	53.14	19.78	
	0.282	26.98	0.22	27.20	50.76	23.56	
	2.721	21.65	0.29	21.94	46.00	24.06	
	6.285	23.61	0.42	24.03	50.00	25.97	
	16.486	24.64	0.57	25.21	50.00	24.79	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

Test Mode : DVI 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	47.74	0.23	47.97	66.00	18.03	QP
	0.209	44.63	0.20	44.83	63.23	18.40	
	0.421	32.90	0.22	33.12	57.42	24.30	
	2.033	32.17	0.27	32.44	56.00	23.56	
	5.031	34.17	0.38	34.55	60.00	25.45	
	16.486	33.06	0.72	33.78	60.00	26.22	
	0.150	37.45	0.23	37.68	56.00	18.32	AV
	0.209	34.52	0.20	34.72	53.23	18.51	
	0.421	23.10	0.22	23.32	47.42	24.10	
	2.033	23.61	0.27	23.88	46.00	22.12	
	5.031	24.65	0.38	25.03	50.00	24.97	
	16.486	24.60	0.72	25.32	50.00	24.68	
Neutral	0.152	38.65	0.19	38.84	55.91	17.07	QP
	0.152	48.49	0.19	48.68	65.91	17.23	
	0.212	44.43	0.20	44.63	63.14	18.51	
	0.630	31.12	0.22	31.34	56.00	24.66	
	2.237	31.04	0.26	31.30	56.00	24.70	
	5.031	34.54	0.35	34.89	60.00	25.11	
	16.486	34.58	0.57	35.15	60.00	24.85	AV
	0.212	34.52	0.20	34.72	53.14	18.42	
	0.630	21.36	0.22	21.58	46.00	24.42	
	2.237	21.63	0.26	21.89	46.00	24.11	
	5.031	25.60	0.35	25.95	50.00	24.05	
	16.486	25.35	0.57	25.92	50.00	24.08	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

Test Mode : DVI 1024*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	48.20	0.22	48.42	65.87	17.45	QP
	0.209	44.67	0.20	44.87	63.23	18.36	
	0.354	33.97	0.22	34.19	58.87	24.68	
	2.794	32.06	0.32	32.38	56.00	23.62	
	6.285	33.92	0.46	34.38	60.00	25.62	
	16.486	34.66	0.72	35.38	60.00	24.62	
	0.152	38.54	0.22	38.76	55.87	17.11	AV
	0.209	34.52	0.20	34.72	53.23	18.51	
	0.354	23.85	0.22	24.07	48.87	24.80	
	2.794	24.57	0.32	24.89	46.00	21.11	
	6.285	24.76	0.46	25.22	50.00	24.78	
	16.486	25.17	0.72	25.89	50.00	24.11	
Neutral	0.150	48.06	0.19	48.25	66.00	17.75	QP
	0.209	44.34	0.20	44.54	63.23	18.69	
	0.358	33.58	0.22	33.80	58.78	24.98	
	2.794	32.31	0.29	32.60	56.00	23.40	
	5.447	32.87	0.38	33.25	60.00	26.75	
	15.718	33.49	0.56	34.05	60.00	25.95	
	0.150	38.95	0.19	39.14	56.00	16.86	AV
	0.209	34.58	0.20	34.78	53.23	18.45	
	0.358	23.65	0.22	23.87	48.78	24.91	
	2.794	24.61	0.29	24.90	46.00	21.10	
	5.447	23.68	0.38	24.06	50.00	25.94	
	15.718	24.66	0.56	25.22	50.00	24.78	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

Test Mode : DVI 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	45.49	0.23	45.72	66.00	20.28	QP
	0.208	44.04	0.20	44.24	63.27	19.03	
	0.767	25.84	0.24	26.08	56.00	29.92	
	2.794	32.72	0.32	33.04	56.00	22.96	
	6.285	33.25	0.46	33.71	60.00	26.29	
	16.486	36.94	0.72	37.66	60.00	22.34	
	0.150	35.26	0.23	35.49	56.00	20.51	AV
	0.208	34.52	0.20	34.72	53.27	18.55	
	0.767	16.88	0.24	17.12	46.00	28.88	
	2.794	23.47	0.32	23.79	46.00	22.21	
	6.285	23.88	0.46	24.34	50.00	25.66	
	16.486	27.84	0.72	28.56	50.00	21.44	
Neutral	0.152	48.18	0.19	48.37	65.91	17.54	QP
	0.209	45.08	0.20	45.28	63.23	17.95	
	0.352	33.73	0.22	33.95	58.91	24.96	
	2.794	31.53	0.29	31.82	56.00	24.18	
	6.285	34.10	0.42	34.52	60.00	25.48	
	16.486	33.91	0.57	34.48	60.00	25.52	
	0.152	38.95	0.19	39.14	55.91	16.77	AV
	0.209	35.52	0.20	35.72	53.23	17.51	
	0.352	24.63	0.22	24.85	48.91	24.06	
	2.794	22.14	0.29	22.43	46.00	23.57	
	6.285	24.52	0.42	24.94	50.00	25.06	
	16.486	24.14	0.57	24.71	50.00	25.29	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

Test Mode : DVI 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	48.57	0.23	48.80	66.00	17.20	QP
	0.206	44.51	0.20	44.71	63.36	18.65	
	0.354	34.72	0.22	34.94	58.87	23.93	
	2.794	33.24	0.32	33.56	56.00	22.44	
	6.285	33.82	0.46	34.28	60.00	25.72	
	15.718	34.17	0.71	34.88	60.00	25.12	
	0.150	38.47	0.23	38.70	56.00	17.30	AV
	0.206	34.58	0.20	34.78	53.36	18.58	
	0.354	24.69	0.22	24.91	48.87	23.96	
	2.794	24.25	0.32	24.57	46.00	21.43	
	6.285	23.18	0.46	23.64	50.00	26.36	
	15.718	24.53	0.71	25.24	50.00	24.76	
Neutral	0.150	45.93	0.19	46.12	66.00	19.88	QP
	0.208	44.30	0.20	44.50	63.27	18.77	
	0.282	38.05	0.22	38.27	60.76	22.49	
	2.167	30.71	0.25	30.96	56.00	25.04	
	6.698	31.14	0.45	31.59	60.00	28.41	
	16.486	35.18	0.57	35.75	60.00	24.25	
	0.150	35.26	0.19	35.45	56.00	20.55	AV
	0.208	34.16	0.20	34.36	53.27	18.91	
	0.282	28.47	0.22	28.69	50.76	22.07	
	2.167	21.36	0.25	21.61	46.00	24.39	
	6.698	22.36	0.45	22.81	50.00	27.19	
	16.486	25.35	0.57	25.92	50.00	24.08	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

Test Mode : HDMI 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	48.57	0.23	48.80	66.00	17.20	QP
	0.212	45.77	0.20	45.97	63.14	17.17	
	0.352	37.21	0.22	37.43	58.91	21.48	
	1.819	30.86	0.28	31.14	56.00	24.86	
	5.031	33.93	0.38	34.31	60.00	25.69	
	16.486	34.31	0.72	35.03	60.00	24.97	
	0.150	38.46	0.23	38.69	56.00	17.31	AV
	0.212	35.26	0.20	35.46	53.14	17.68	
	0.352	27.64	0.22	27.86	48.91	21.05	
	1.819	21.35	0.28	21.63	46.00	24.37	
	5.031	24.61	0.38	24.99	50.00	25.01	
	16.486	25.15	0.72	25.87	50.00	24.13	
Neutral	0.150	48.71	0.19	48.90	66.00	17.10	QP
	0.206	44.51	0.20	44.71	63.36	18.65	
	0.352	37.66	0.22	37.88	58.91	21.03	
	3.346	31.67	0.31	31.98	56.00	24.02	
	5.031	33.74	0.35	34.09	60.00	25.91	
	16.486	34.54	0.57	35.11	60.00	24.89	
	0.150	38.49	0.19	38.68	56.00	17.32	AV
	0.206	36.48	0.20	36.68	53.36	16.68	
	0.352	27.65	0.22	27.87	48.91	21.04	
	3.346	21.69	0.31	22.00	46.00	24.00	
	5.031	23.16	0.35	23.51	50.00	26.49	
	16.486	24.97	0.57	25.54	50.00	24.46	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

Test Mode : HDMI 1024*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.152	48.16	0.23	48.39	65.91	17.52	QP
	0.206	45.27	0.20	45.47	63.36	17.89	
	0.354	34.90	0.22	35.12	58.87	23.75	
	2.794	31.61	0.32	31.93	56.00	24.07	
	6.285	33.96	0.46	34.42	60.00	25.58	
	16.486	35.73	0.72	36.45	60.00	23.55	
	0.152	38.25	0.23	38.48	55.91	17.43	AV
	0.206	25.16	0.20	25.36	53.36	28.00	
	0.354	24.67	0.22	24.89	48.87	23.98	
	2.794	21.69	0.32	22.01	46.00	23.99	
	6.285	24.66	0.46	25.12	50.00	24.88	
	16.486	25.35	0.72	26.07	50.00	23.93	
Neutral	0.150	46.18	0.19	46.37	66.00	19.63	QP
	0.212	45.05	0.20	45.25	63.14	17.89	
	0.282	36.60	0.22	36.82	60.76	23.94	
	2.794	31.87	0.29	32.16	56.00	23.84	
	5.447	33.15	0.38	33.53	60.00	26.47	
	16.486	35.89	0.57	36.46	60.00	23.54	
	0.150	36.59	0.19	36.78	56.00	19.22	AV
	0.212	35.28	0.20	35.48	53.14	17.66	
	0.282	26.17	0.22	26.39	50.76	24.37	
	2.794	21.79	0.29	22.08	46.00	23.92	
	5.447	23.79	0.38	24.17	50.00	25.83	
	16.486	26.93	0.57	27.50	50.00	22.50	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

Test Mode : HDMI 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.155	48.04	0.22	48.26	65.74	17.48	QP
	0.212	46.05	0.20	46.25	63.14	16.89	
	0.352	37.22	0.22	37.44	58.91	21.47	
	1.117	28.67	0.27	28.94	56.00	27.06	
	5.031	34.01	0.38	34.39	60.00	25.61	
	16.486	34.48	0.72	35.20	60.00	24.80	
	0.155	38.64	0.22	38.86	55.74	16.88	AV
	0.212	36.25	0.20	36.45	53.14	16.69	
	0.352	27.36	0.22	27.58	48.91	21.33	
	1.117	18.64	0.27	18.91	46.00	27.09	
	5.031	24.61	0.38	24.99	50.00	25.01	
	16.486	24.97	0.72	25.69	50.00	24.31	
Neutral	0.152	48.04	0.19	48.23	65.91	17.68	QP
	0.208	45.19	0.20	45.39	63.27	17.88	
	0.348	35.07	0.22	35.29	59.00	23.71	
	2.033	32.93	0.24	33.17	56.00	22.83	
	5.031	34.48	0.35	34.83	60.00	25.17	
	16.486	34.80	0.57	35.37	60.00	24.63	
	0.152	38.46	0.19	38.65	55.91	17.26	AV
	0.208	35.26	0.20	35.46	53.27	17.81	
	0.348	25.16	0.22	25.38	49.00	23.62	
	2.033	23.64	0.24	23.88	46.00	22.12	
	5.031	24.65	0.35	25.00	50.00	25.00	
	16.486	24.64	0.57	25.21	50.00	24.79	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 18°C

Model No. : W2261VV Humidity : 48%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 08, 2008

Test Mode : HDMI 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.150	48.65	0.23	48.88	66.00	17.12	QP
	0.208	44.89	0.20	45.09	63.27	18.18	
	0.279	37.50	0.22	37.72	60.85	23.13	
	2.794	31.29	0.32	31.61	56.00	24.39	
	6.285	34.24	0.46	34.70	60.00	25.30	
	16.486	35.24	0.72	35.96	60.00	24.04	
	0.150	38.12	0.23	38.35	56.00	17.65	AV
	0.208	34.65	0.20	34.85	53.27	18.42	
	0.279	27.49	0.22	27.71	50.85	23.14	
	2.794	21.36	0.32	21.68	46.00	24.32	
	6.285	24.17	0.46	24.63	50.00	25.37	
	16.486	25.35	0.72	26.07	50.00	23.93	
Neutral	0.152	48.10	0.19	48.29	65.87	17.58	QP
	0.212	45.70	0.20	45.90	63.14	17.24	
	0.274	37.81	0.22	38.03	60.98	22.95	
	2.721	31.32	0.29	31.61	56.00	24.39	
	6.285	33.76	0.42	34.18	60.00	25.82	
	16.486	35.97	0.57	36.54	60.00	23.46	
	0.152	38.46	0.19	38.65	55.87	17.22	AV
	0.212	35.26	0.20	35.46	53.14	17.68	
	0.274	27.46	0.22	27.68	50.98	23.30	
	2.721	21.36	0.29	21.65	46.00	24.35	
	6.285	24.58	0.42	25.00	50.00	25.00	
	16.486	25.48	0.57	26.05	50.00	23.95	

TEST ENGINEER: WENCY YANG

4 RADIATED EMISSION TEST

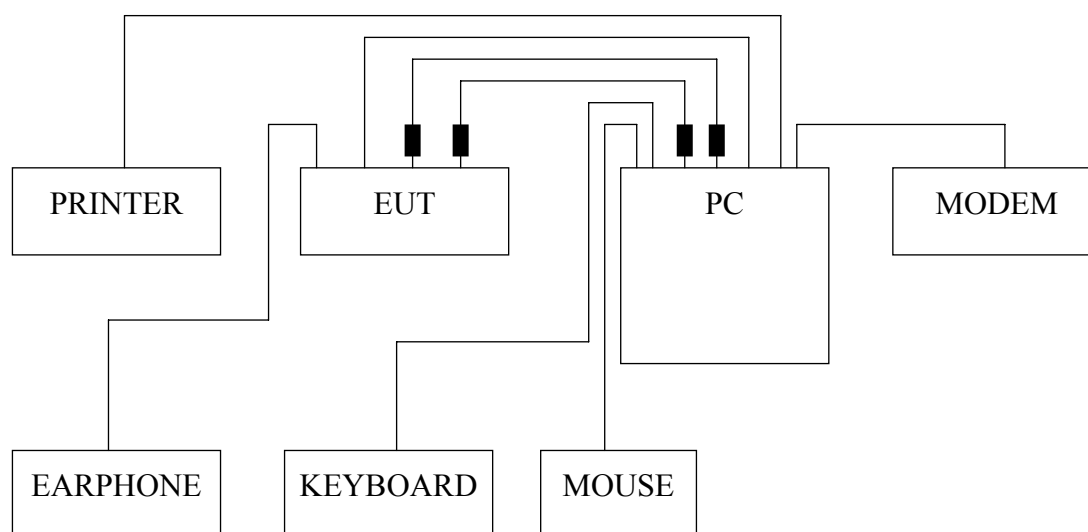
4.1 Test Equipment

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	ESVS10	844594/001	Mar 07, 2008	Mar 07, 2009
2.	Preamplifier	Agilent	8447D	2944A10548	Sep 19, 2008	Mar 19, 2009
3.	Preamplifier	HP	8449B	3008A00864	May 19, 2008	May 19, 2009
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 14, 2008	May 14, 2009
5.	Spectrum	Agilent	E7405A	MY45106600	May 19, 2008	May 19, 2009
6.	Software	Audix	E3	SET00200 9912M295-2	--	--

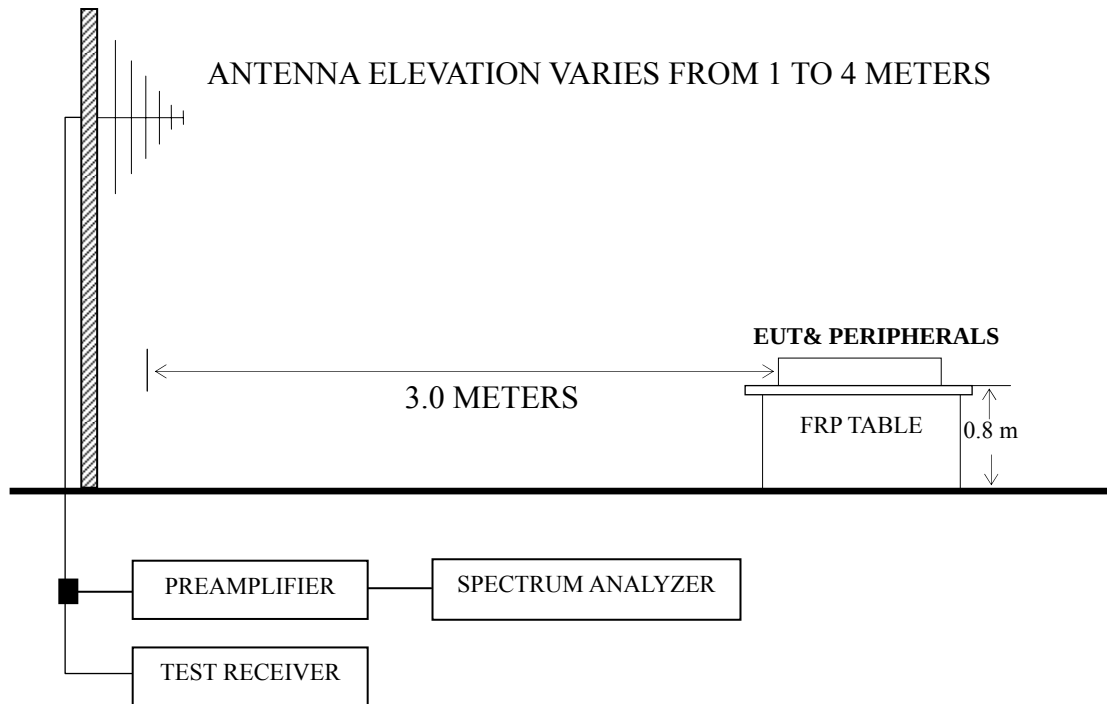
4.2 Block Diagram of Test Setup

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 below or equal to 1GHz and Average value detector above 1GHz.

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 C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz below 1GHz and The Spectrum Agilent E7405A was set at 1MHz above 1GHz.

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

The frequency range from 1 GHz to 2 GHz was checked for D-Sub/DVI /HDMI 1680*1050@60Hz & D-Sub/DVI/HDMI 1920*1080@60Hz 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	P28
D-Sub 1024*768@60Hz	P29
D-Sub 1680*1050@60Hz	P30
D-Sub 1920*1080@60Hz	P31
DVI 640*480@60Hz	P32
DVI 1024*768@60Hz	P33
DVI 1680*1050@60Hz	P34
DVI 1920*1080@60Hz	P35
HDMI 640*480@60Hz	P36
HDMI 1024*768@60Hz	P37
HDMI 1680*1050@60Hz	P38
HDMI 1920*1080@60Hz	P39

NOTE 1 – Emission Level = Antenna Factor + Cable Loss + Meter Reading.($< 1\text{GHz}$)

NOTE 2 – Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading.($> 1\text{GHz}$)

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 below or equal to 1GHz and Peak values above 1GHz. For measurements above 1 GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

NOTE 6 – The worst case is for HDMI 1024*768@60Hz test mode. The worst emission at horizontal polarization was detected at 811.820 MHz with corrected signal level of 34.39 dB ($\mu\text{V/m}$) (limit is 46.00dB ($\mu\text{V/m}$)), when the antenna was 1.10 m height and the turntable was at 250° . The worst emission at vertical polarization was detected at 30.970 MHz with corrected signal level of 36.15 dB ($\mu\text{V/m}$) (limit is 40.00 dB ($\mu\text{V/m}$)), when the antenna was 1.20 m height and the turntable was at 65° .

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

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	30.970	2.97	19.03	0.57	22.57	40.00	17.43
	140.580	12.60	12.05	0.91	25.56	43.50	17.94
	151.250	13.55	11.19	0.93	25.67	43.50	17.83
	220.120	12.33	11.66	1.16	25.15	46.00	20.85
	301.600	15.05	13.97	1.56	30.58	46.00	15.42
	451.950	9.73	17.26	2.22	29.21	46.00	16.79
Vertical	30.970	16.17	19.03	0.57	35.77	40.00	4.23
	54.250	12.75	7.92	0.79	21.46	40.00	18.54
	151.250	14.79	11.19	0.93	26.91	43.50	16.59
	281.230	17.18	13.57	1.44	32.19	46.00	13.81
	451.950	11.29	17.26	2.22	30.77	46.00	15.23
	515.970	10.14	18.09	2.42	30.65	46.00	15.35

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

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	30.000	2.34	19.60	0.56	22.50	40.00	17.50
	151.250	15.70	11.19	0.93	27.82	43.50	15.68
	301.600	15.59	13.97	1.56	31.12	46.00	14.88
	451.950	11.23	17.26	2.22	30.71	46.00	15.29
	752.650	5.00	20.23	3.22	28.45	46.00	17.55
	958.290	5.72	22.13	3.72	31.57	46.00	14.43
Vertical	30.970	16.52	19.03	0.57	36.12	40.00	3.88
	81.410	12.16	8.02	0.86	21.04	40.00	18.96
	151.250	14.40	11.19	0.93	26.52	43.50	16.98
	281.230	18.22	13.57	1.44	33.23	46.00	12.77
	517.910	8.07	18.12	2.42	28.61	46.00	17.39
	859.350	6.90	21.31	3.44	31.65	46.00	14.35

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

Test Mode : D-Sub 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.000	1.68	19.60	0.56	--	21.84	40.00	18.16	QP
	140.580	14.81	12.05	0.91	--	27.77	43.50	15.73	
	301.600	14.82	13.97	1.56	--	30.35	46.00	15.65	
	451.950	11.81	17.26	2.22	--	31.29	46.00	14.71	
	808.910	6.43	20.77	3.34	--	30.54	46.00	15.46	
	962.170	5.35	22.16	3.72	--	31.23	54.00	22.77	
	1024.000	50.35	22.57	6.73	37.63	42.02	74.00	31.98	PK
	1123.000	46.38	23.27	6.95	37.36	39.24	74.00	34.76	
	1268.000	51.31	24.23	7.41	37.02	45.93	74.00	28.07	
	1329.000	54.29	24.74	7.66	36.88	49.81	74.00	24.19	
	1497.000	51.71	25.80	8.43	36.53	49.41	74.00	24.59	
	1686.000	53.27	26.61	8.99	36.19	52.68	74.00	21.32	
Vertical	30.000	14.30	19.60	0.56	--	34.46	40.00	5.54	QP
	151.250	16.83	11.19	0.93	--	28.95	43.50	14.55	
	281.230	15.66	13.57	1.44	--	30.67	46.00	15.33	
	451.950	13.02	17.26	2.22	--	32.50	46.00	13.50	
	517.910	12.57	18.12	2.42	--	33.11	46.00	12.89	
	859.350	3.66	21.31	3.44	--	28.41	46.00	17.59	
	1014.000	58.45	22.49	6.73	37.66	50.01	74.00	23.99	PK
	1290.000	49.46	24.45	7.50	36.96	44.45	74.00	29.55	
	1401.000	48.23	25.20	8.01	36.72	44.72	74.00	29.28	
	1623.000	48.10	26.45	8.78	36.30	47.03	74.00	26.97	
	1811.000	47.91	26.94	9.40	35.99	48.26	74.00	25.74	
	1890.000	47.38	27.45	9.65	35.86	48.62	74.00	25.38	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

Test Mode : D-Sub 1920*1080@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.970	1.89	19.03	0.57	--	21.49	40.00	18.51	QP
	151.250	15.60	11.19	0.93	--	27.72	43.50	15.78	
	301.600	14.76	13.97	1.56	--	30.29	46.00	15.71	
	451.950	10.52	17.26	2.22	--	30.00	46.00	16.00	
	752.650	5.66	20.23	3.22	--	29.11	46.00	16.89	
	959.260	5.29	22.13	3.72	--	31.14	46.00	14.86	PK
	1014.000	55.92	22.49	6.73	37.66	47.48	74.00	26.52	
	1099.000	48.79	23.08	6.89	37.42	41.34	74.00	32.66	
	1165.000	49.87	23.51	7.01	37.26	43.13	74.00	30.87	
	1334.000	48.94	24.78	7.75	36.87	44.60	74.00	29.40	
	1506.000	45.02	25.84	8.43	36.51	42.78	74.00	31.22	
	1678.000	44.04	26.59	8.92	36.20	43.35	74.00	30.65	
Vertical	30.970	15.26	19.03	0.57	--	34.86	40.00	5.14	QP
	80.440	12.22	7.85	0.86	--	20.93	40.00	19.07	
	151.250	13.80	11.19	0.93	--	25.92	43.50	17.58	
	281.230	15.47	13.57	1.44	--	30.48	46.00	15.52	
	451.950	17.28	17.26	2.22	--	36.76	46.00	9.24	
	665.350	4.89	19.54	2.91	--	27.34	46.00	18.66	
	1005.000	54.73	22.43	6.70	37.68	46.18	74.00	27.82	PK
	1182.000	53.63	23.62	7.04	37.22	47.07	74.00	26.93	
	1260.000	52.99	24.19	7.41	37.03	47.56	74.00	26.44	
	1512.000	52.08	25.88	8.43	36.51	49.88	74.00	24.12	
	1707.000	49.15	26.67	9.07	36.16	48.73	74.00	25.27	
	1891.000	50.96	27.45	9.65	35.86	52.20	74.00	21.80	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

Test Mode : DVI 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	30.970	7.97	19.03	0.57	27.57	40.00	12.43
	140.580	16.60	12.05	0.91	29.56	43.50	13.94
	196.840	13.72	10.57	1.07	25.36	43.50	18.14
	220.120	16.33	11.66	1.16	29.15	46.00	16.85
	301.600	17.05	13.97	1.56	32.58	46.00	13.42
	451.950	12.73	17.26	2.22	32.21	46.00	13.79
Vertical	30.970	15.17	19.03	0.57	34.77	40.00	5.23
	54.250	12.75	7.92	0.79	21.46	40.00	18.54
	151.250	13.79	11.19	0.93	25.91	43.50	17.59
	166.770	16.53	10.31	0.98	27.82	43.50	15.68
	281.230	17.18	13.57	1.44	32.19	46.00	13.81
	451.950	10.29	17.26	2.22	29.77	46.00	16.23

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

Test Mode : DVI 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	30.000	7.34	19.60	0.56	27.50	40.00	12.50
	138.640	15.06	12.17	0.91	28.14	43.50	15.36
	151.250	18.70	11.19	0.93	30.82	43.50	12.68
	301.600	18.59	13.97	1.56	34.12	46.00	11.88
	451.950	14.23	17.26	2.22	33.71	46.00	12.29
	729.370	7.60	20.00	3.14	30.74	46.00	15.26
Vertical	30.970	14.55	19.03	0.57	34.15	40.00	5.85
	124.090	10.93	12.81	0.89	24.63	43.50	18.87
	281.230	18.22	13.57	1.44	33.23	46.00	12.77
	517.910	8.07	18.12	2.42	28.61	46.00	17.39
	666.320	4.79	19.54	2.91	27.24	46.00	18.76
	859.350	4.90	21.31	3.44	29.65	46.00	16.35

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

Test Mode : DVI 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.000	3.68	19.60	0.56	--	23.84	40.00	16.16	QP
	151.250	16.70	11.19	0.93	--	28.82	43.50	14.68	
	301.600	16.82	13.97	1.56	--	32.35	46.00	13.65	
	451.950	14.81	17.26	2.22	--	34.29	46.00	11.71	
	516.940	8.63	18.12	2.42	--	29.17	46.00	16.83	
	808.910	8.43	20.77	3.34	--	32.54	46.00	13.46	
	1014.000	52.09	22.49	6.73	37.66	43.65	74.00	30.35	PK
	1183.000	53.05	23.62	7.04	37.22	46.49	74.00	27.51	
	1263.000	49.97	24.23	7.41	37.02	44.59	74.00	29.41	
	1334.000	44.33	24.78	7.75	36.87	39.99	74.00	34.01	
	1499.000	50.32	25.80	8.43	36.53	48.02	74.00	25.98	
	1969.000	49.64	27.91	9.81	35.74	51.62	74.00	22.38	
Vertical	30.000	13.30	19.60	0.56	--	33.46	40.00	6.54	QP
	151.250	18.83	11.19	0.93	--	30.95	43.50	12.55	
	281.230	18.66	13.57	1.44	--	33.67	46.00	12.33	
	451.950	16.02	17.26	2.22	--	35.50	46.00	10.50	
	517.910	13.57	18.12	2.42	--	34.11	46.00	11.89	
	752.650	3.58	20.23	3.22	--	27.03	46.00	18.97	
	1005.000	59.76	22.43	6.70	37.68	51.21	74.00	22.79	PK
	1179.000	57.57	23.59	7.04	37.22	50.98	74.00	23.02	
	1342.000	56.47	24.82	7.75	36.85	52.19	74.00	21.81	
	1497.000	54.19	25.80	8.43	36.53	51.89	74.00	22.11	
	1600.000	47.08	26.40	8.71	36.34	45.85	74.00	28.15	
	1827.000	47.87	27.03	9.40	35.96	48.34	74.00	25.66	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

Test Mode : DVI 1920*1080@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.970	3.89	19.03	0.57	--	23.49	40.00	16.51	QP
	139.610	19.50	12.12	0.91	--	32.53	43.50	10.97	
	213.330	16.56	11.30	1.13	--	28.99	43.50	14.51	
	301.600	19.76	13.97	1.56	--	35.29	46.00	10.71	
	451.950	14.52	17.26	2.22	--	34.00	46.00	12.00	
	599.260	8.29	22.13	3.72	--	34.14	46.00	11.86	
	1170.000	50.35	23.54	7.04	37.25	43.68	74.00	30.32	PK
	1499.000	51.14	25.80	8.43	36.53	48.84	74.00	25.16	
	1733.000	42.99	26.74	9.15	36.11	42.77	74.00	31.23	
	1811.000	49.45	26.94	9.40	35.99	49.80	74.00	24.20	
	1891.000	48.47	27.45	9.65	35.86	49.71	74.00	24.29	
	1969.000	49.45	27.91	9.81	35.74	51.43	74.00	22.57	
Vertical	30.970	14.26	19.03	0.57	--	33.86	40.00	6.14	QP
	103.720	10.68	11.77	0.85	--	23.30	43.50	20.20	
	151.250	16.80	11.19	0.93	--	28.92	43.50	14.58	
	281.230	17.47	13.57	1.44	--	32.48	46.00	13.52	
	451.950	21.28	17.26	2.22	--	40.76	46.00	5.24	
	516.940	17.36	18.12	2.42	--	37.90	46.00	8.10	
	1001.000	52.38	22.40	6.70	37.70	43.78	74.00	30.22	PK
	1181.000	47.23	23.62	7.04	37.22	40.67	74.00	33.33	
	1276.000	50.18	24.32	7.50	37.00	45.00	74.00	29.00	
	1522.000	45.24	25.96	8.50	36.49	43.21	74.00	30.79	
	1733.000	44.39	26.74	9.15	36.11	44.17	74.00	29.83	
	1811.000	47.87	26.94	9.40	35.99	48.22	74.00	25.78	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

Test Mode : HDMI 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	30.970	5.97	19.03	0.57	25.57	40.00	14.43
	125.060	11.13	12.76	0.89	24.78	43.50	18.72
	151.250	15.55	11.19	0.93	27.67	43.50	15.83
	301.600	18.05	13.97	1.56	33.58	46.00	12.42
	451.950	13.73	17.26	2.22	33.21	46.00	12.79
	752.650	8.21	20.23	3.22	31.66	46.00	14.34
Vertical	30.970	14.17	19.03	0.57	33.77	40.00	6.23
	151.250	13.79	11.19	0.93	25.91	43.50	17.59
	166.770	14.53	10.31	0.98	25.82	43.50	17.68
	281.230	19.18	13.57	1.44	34.19	46.00	11.81
	451.950	11.29	17.26	2.22	30.77	46.00	15.23
	515.970	10.14	18.09	2.42	30.65	46.00	15.35

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

Test Mode : HDMI 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	30.000	4.34	19.60	0.56	24.50	40.00	15.50
	151.250	18.70	11.19	0.93	30.82	43.50	12.68
	301.600	18.59	13.97	1.56	34.12	46.00	11.88
	451.950	13.23	17.26	2.22	32.71	46.00	13.29
	752.650	8.00	20.23	3.22	31.45	46.00	14.55
	811.820	10.23	20.80	3.36	34.39	46.00	11.61
Vertical	30.970	16.55	19.03	0.57	36.15	40.00	3.85
	151.250	16.40	11.19	0.93	28.52	43.50	14.98
	281.230	20.22	13.57	1.44	35.23	46.00	10.77
	438.370	8.94	17.06	2.18	28.18	46.00	17.82
	517.910	12.07	18.12	2.42	32.61	46.00	13.39
	859.350	10.90	21.31	3.44	35.65	46.00	10.35

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

Test Mode : HDMI 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.970	4.11	19.03	0.57	--	23.71	40.00	16.29	QP
	140.580	18.81	12.05	0.91	--	31.77	43.50	11.73	
	151.250	19.70	11.19	0.93	--	31.82	43.50	11.68	
	301.600	17.82	13.97	1.56	--	33.35	46.00	12.65	
	451.950	14.81	17.26	2.22	--	34.29	46.00	11.71	
	752.650	8.69	20.23	3.22	--	32.14	46.00	13.86	
	1007.000	56.81	22.46	6.70	37.68	48.29	74.00	25.71	PK
	1171.000	50.29	23.56	7.04	37.24	43.65	74.00	30.35	
	1277.000	49.79	24.32	7.50	36.99	44.62	74.00	29.38	
	1331.000	51.45	24.74	7.66	36.88	46.97	74.00	27.03	
	1515.000	49.38	25.92	8.43	36.50	47.23	74.00	26.77	
	1754.000	49.47	26.80	9.24	36.07	49.44	74.00	24.56	
Vertical	30.970	14.69	19.03	0.57	--	34.29	40.00	5.71	QP
	80.440	11.71	7.85	0.86	--	20.42	40.00	19.58	
	151.250	16.83	11.19	0.93	--	28.95	43.50	14.55	
	281.230	14.66	13.57	1.44	--	29.67	46.00	16.33	
	451.950	12.02	17.26	2.22	--	31.50	46.00	14.50	
	517.910	12.57	18.12	2.42	--	33.11	46.00	12.89	
	1004.000	55.68	22.43	6.70	37.69	47.12	74.00	26.88	PK
	1181.000	55.02	23.62	7.04	37.22	48.46	74.00	25.54	
	1339.000	50.48	24.78	7.75	36.86	46.15	74.00	27.85	
	1500.000	54.60	25.80	8.43	36.53	52.30	74.00	21.70	
	1606.000	48.30	26.42	8.71	36.33	47.10	74.00	26.90	
	1890.000	52.50	27.45	9.65	35.86	53.74	74.00	20.26	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W2261VV Humidity : 60%RH

Serial No. : 811NDBP6R773 Date of Test : Jan 05, 2008

Test Mode : HDMI 1920*1080@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	30.970	5.89	19.03	0.57	--	25.49	40.00	14.51	QP
	139.610	17.50	12.12	0.91	--	30.53	43.50	12.97	
	151.250	18.60	11.19	0.93	--	30.72	43.50	12.78	
	301.600	18.76	13.97	1.56	--	34.29	46.00	11.71	
	451.950	12.52	17.26	2.22	--	32.00	46.00	14.00	
	811.820	9.56	20.80	3.36	--	33.72	46.00	12.28	
	1089.000	49.79	23.02	6.89	37.46	42.24	74.00	31.76	PK
	1175.000	51.76	23.56	7.04	37.23	45.13	74.00	28.87	
	1268.000	44.47	24.23	7.41	37.02	39.09	74.00	34.91	
	1418.000	45.22	25.31	8.09	36.69	41.93	74.00	32.07	
	1621.000	42.69	26.45	8.78	36.31	41.61	74.00	32.39	
	1732.000	46.26	26.74	9.15	36.12	46.03	74.00	27.97	
Vertical	30.000	13.34	19.60	0.56	--	33.50	40.00	6.50	QP
	151.250	17.80	11.19	0.93	--	29.92	43.50	13.58	
	281.230	19.47	13.57	1.44	--	34.48	46.00	11.52	
	451.950	21.28	17.26	2.22	--	40.76	46.00	5.24	
	516.940	16.36	18.12	2.42	--	36.90	46.00	9.10	
	813.760	7.38	20.84	3.36	--	31.58	46.00	14.42	
	1012.000	53.29	22.49	6.73	37.67	44.84	74.00	29.16	PK
	1183.000	48.76	23.62	7.04	37.22	42.20	74.00	31.80	
	1255.000	48.68	24.14	7.33	37.04	43.11	74.00	30.89	
	1335.000	47.29	24.78	7.75	36.87	42.95	74.00	31.05	
	1521.000	45.18	25.96	8.50	36.49	43.15	74.00	30.85	
	1655.000	41.45	26.54	8.92	36.25	40.66	74.00	33.34	

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	T-308	50*30	EXPAN	See Internal Photos Figure 19, 20
Sponge	--	50*20*1T	EXPAN	See Internal Photos Figure 21
Sponge	--	--	EXPAN	See Internal Photos Figure 6,7
Sponge	--	13*9*3T	EXPAN	See Internal Photos Figure 9
Sponge	--	55*9*2T	EXPAN	See Internal Photos Figure 22