

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

LCD Monitor

Model No.: E2750VV

Serial No.: E2010052602

FCC ID : BEJE2750VV

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

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Date of Test : May 31 – Jun 21, 2010
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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. : E2750VV
(B) Serial No. : E2010052602
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2009
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: E2750VV; S/N: E2010052602) which was tested in 3m anechoic chamber May 31 – Jun 21, 2010 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 31 – Jun 21, 2010 Date of Report : Jul 05, 2010

Producer : Kathy Wang
KATHY WANG / Assistant

Review : Dio Yang
DIO YANG / Deputy Assistant Manager

AUDIX[®] 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 2009 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2009 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.	: E2750VV
Serial No.	: E2010052602
Real Power	: 35.20W
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 : LM270WF2 (TL) (A1)
AC Adapter	: Manufacturer: LG M/N : PA-1650-68 Input : 100-240V ~ 50-60Hz, 2.0A Output : 19V $\overline{\text{---}}$ 3.42A
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, 1.00m, 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 Earphone Port | : Connected with Earphone |
| (4) One HDMI Port | : Connected with DVD |
| (5) One DC In Port | : Connected with Adapter |

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

2.2.6 DVD

Manufacturer : PHILIPS
Model Number : DVP3986K/93
Serial Number : KX1A0902120108
Data Cable : Unshielded, Detachable, 1.8m

2.2.7 Earphone

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

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

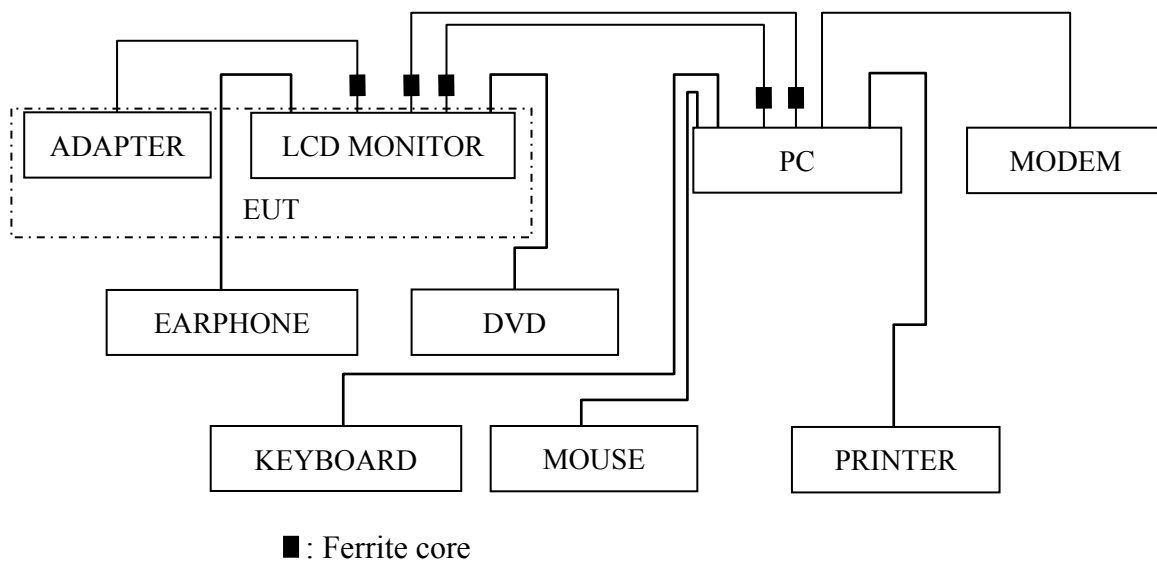
3.1 Test Equipment

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

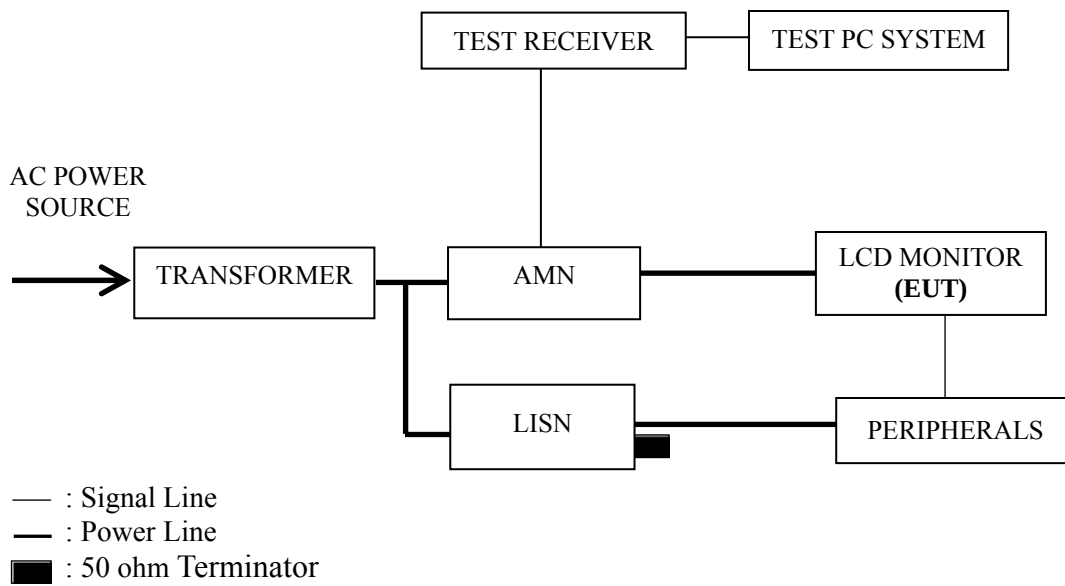
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	100841	Oct 15, 2009	Oct 15, 2010
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 02, 2010	Apr 02, 2011
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 02, 2010	Apr 02, 2011
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Mar 19, 2010	Sep 19, 2010
5.	50 Ω Terminator	Anritsu	BNC	001	Apr 02, 2010	Apr 02, 2011
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 & DVI Input).

3.5.5 In HDMI mode, the EUT connected to DVD through HDMI port.

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
D-Sub 1280*1024@75Hz
D-Sub 1680*1050@60Hz
D-Sub 1920*1080@60Hz
DVI 640*480@60Hz
DVI 1280*1024@75Hz
DVI 1680*1050@60Hz
DVI 1920*1080@60Hz
HDMI 480P
HDMI 720P
HDMI 1080P

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	Page
D-Sub 640*480@60Hz	P12
D-Sub 1280*1024@75Hz	P13
D-Sub 1680*1050@60Hz	P14
D-Sub 1920*1080@60Hz	P15
DVI 640*480@60Hz	P16
DVI 1280*1024@75Hz	P17
DVI 1680*1050@60Hz	P18
DVI 1920*1080@60Hz	P19
HDMI 480P	P20
HDMI 720P	P21
HDMI 1080P	P22

NOTE 1 – The **bold test mode** listed above means the worst test mode.

NOTE 2 – Factor = Cable Loss + AMN 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 HDMI 1080P test mode. The worst emission is detected at 0.161 MHz (Quasi-Peak Value) with corrected signal level of 63.14 dB (μV) (limit is 65.43 dB (μV)), when the Neutral of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

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	0.159	57.37	0.27	57.64	65.52	7.88	QP
	0.211	47.11	0.29	47.40	63.18	15.78	
	0.320	39.35	0.39	39.74	59.71	19.97	
	0.524	27.64	0.48	28.12	56.00	27.88	
	4.407	30.41	0.63	31.04	56.00	24.96	
	12.988	30.84	0.85	31.69	60.00	28.31	
	0.159	33.95	0.27	34.22	55.52	21.30	AV
	0.211	23.88	0.29	24.17	53.18	29.01	
	0.320	23.48	0.39	23.87	49.71	25.84	
	0.524	6.69	0.48	7.17	46.00	38.83	
	4.407	18.76	0.63	19.39	46.00	26.61	
	12.988	23.01	0.85	23.86	50.00	26.14	
Neutral	0.157	56.65	0.23	56.88	65.60	8.72	QP
	0.211	47.49	0.27	47.76	63.18	15.42	
	0.303	39.29	0.35	39.64	60.15	20.51	
	0.521	28.09	0.45	28.54	56.00	27.46	
	4.224	31.45	0.63	32.08	56.00	23.92	
	12.920	32.08	0.83	32.91	60.00	27.09	
	0.157	39.07	0.23	39.30	55.60	16.30	AV
	0.211	29.10	0.27	29.37	53.18	23.81	
	0.303	23.42	0.35	23.77	50.15	26.38	
	0.521	10.31	0.45	10.76	46.00	35.24	
	4.224	17.65	0.63	18.28	46.00	27.72	
	12.920	24.31	0.83	25.14	50.00	24.86	

TEST ENGINEER: TED ZHU

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

Test Mode : D-Sub 1280*1024@75Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.159	57.64	0.27	57.91	65.52	7.61	QP
	0.213	48.14	0.29	48.43	63.10	14.67	
	0.320	39.50	0.39	39.89	59.71	19.82	
	0.524	30.50	0.48	30.98	56.00	25.02	
	4.361	32.04	0.63	32.67	56.00	23.33	
	12.988	32.50	0.85	33.35	60.00	26.65	
	0.159	40.62	0.27	40.89	55.52	14.63	AV
	0.213	31.50	0.29	31.79	53.10	21.31	
	0.320	24.65	0.39	25.04	49.71	24.67	
	0.524	10.86	0.48	11.34	46.00	34.66	
	4.361	17.02	0.63	17.65	46.00	28.35	
	12.988	23.22	0.85	24.07	50.00	25.93	
Neutral	0.157	56.68	0.23	56.91	65.60	8.69	QP
	0.211	47.40	0.27	47.67	63.18	15.51	
	0.303	39.50	0.35	39.85	60.15	20.30	
	0.524	28.16	0.45	28.61	56.00	27.39	
	4.361	30.90	0.63	31.53	56.00	24.47	
	13.267	32.41	0.83	33.24	60.00	26.76	
	0.157	37.01	0.23	37.24	55.60	18.36	AV
	0.211	30.63	0.27	30.90	53.18	22.28	
	0.303	20.49	0.35	20.84	50.15	29.31	
	0.524	7.44	0.45	7.89	46.00	38.11	
	4.361	16.25	0.63	16.88	46.00	29.12	
	13.267	23.24	0.83	24.07	50.00	25.93	

TEST ENGINEER: TED ZHU

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

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	0.157	56.15	0.26	56.41	65.60	9.19	QP
	0.211	47.27	0.29	47.56	63.18	15.62	
	0.322	39.92	0.39	40.31	59.66	19.35	
	0.552	29.47	0.47	29.94	56.00	26.06	
	4.407	31.88	0.63	32.51	56.00	23.49	
	12.988	31.86	0.85	32.71	60.00	27.29	
	0.157	25.09	0.26	25.35	55.60	30.25	AV
	0.211	17.11	0.29	17.40	53.18	35.78	
	0.322	21.20	0.39	21.59	49.66	28.07	
	0.552	12.12	0.47	12.59	46.00	33.41	
	4.407	18.37	0.63	19.00	46.00	27.00	
	12.988	24.16	0.85	25.01	50.00	24.99	
Neutral	0.159	57.57	0.24	57.81	65.52	7.71	QP
	0.211	46.82	0.27	47.09	63.18	16.09	
	0.303	39.46	0.35	39.81	60.15	20.34	
	0.524	28.99	0.45	29.44	56.00	26.56	
	4.027	28.22	0.62	28.84	56.00	27.16	
	12.920	32.14	0.83	32.97	60.00	27.03	
	0.159	26.22	0.24	26.46	55.52	29.06	AV
	0.211	30.89	0.27	31.16	53.18	22.02	
	0.303	12.28	0.35	12.63	50.15	37.52	
	0.524	7.95	0.45	8.40	46.00	37.60	
	4.027	20.11	0.62	20.73	46.00	25.27	
	12.920	24.54	0.83	25.37	50.00	24.63	

TEST ENGINEER: TED ZHU

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

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	0.159	57.67	0.27	57.94	65.52	7.58	QP
	0.213	48.07	0.29	48.36	63.10	14.74	
	0.320	39.45	0.39	39.84	59.71	19.87	
	0.524	27.85	0.48	28.33	56.00	27.67	
	4.501	30.57	0.63	31.20	56.00	24.80	
	13.127	32.62	0.85	33.47	60.00	26.53	
	0.159	32.58	0.27	32.85	55.52	22.67	AV
	0.213	23.57	0.29	23.86	53.10	29.24	
	0.320	18.24	0.39	18.63	49.71	31.08	
	0.524	12.89	0.48	13.37	46.00	32.63	
	4.501	16.99	0.63	17.62	46.00	28.38	
	13.127	23.39	0.85	24.24	50.00	25.76	
Neutral	0.157	56.35	0.23	56.58	65.60	9.02	QP
	0.213	48.07	0.27	48.34	63.10	14.76	
	0.303	39.51	0.35	39.86	60.15	20.29	
	0.524	28.26	0.45	28.71	56.00	27.29	
	4.158	30.94	0.63	31.57	56.00	24.43	
	12.988	32.89	0.83	33.72	60.00	26.28	
	0.157	30.30	0.23	30.53	55.60	25.07	AV
	0.213	20.02	0.27	20.29	53.10	32.81	
	0.303	23.12	0.35	23.47	50.15	26.68	
	0.524	10.08	0.45	10.53	46.00	35.47	
	4.158	18.83	0.63	19.46	46.00	26.54	
	12.988	24.19	0.83	25.02	50.00	24.98	

TEST ENGINEER: TED ZHU

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

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	0.159	59.36	0.27	59.63	65.52	5.89	QP
	0.211	48.24	0.29	48.53	63.18	14.65	
	0.300	40.74	0.37	41.11	60.24	19.13	
	0.524	30.36	0.48	30.84	56.00	25.16	
	4.501	31.31	0.63	31.94	56.00	24.06	
	13.127	30.11	0.85	30.96	60.00	29.04	
	0.159	42.10	0.27	42.37	55.52	13.15	AV
	0.211	29.37	0.29	29.66	53.18	23.52	
	0.300	17.76	0.37	18.13	50.24	32.11	
	0.524	10.09	0.48	10.57	46.00	35.43	
	4.501	14.78	0.63	15.41	46.00	30.59	
	13.127	23.41	0.85	24.26	50.00	25.74	
Neutral	0.159	59.29	0.24	59.53	65.52	5.99	QP
	0.211	48.12	0.27	48.39	63.18	14.79	
	0.303	41.27	0.35	41.62	60.15	18.53	
	0.510	29.62	0.45	30.07	56.00	25.93	
	4.269	27.26	0.63	27.89	56.00	28.11	
	12.253	28.69	0.81	29.50	60.00	30.50	
	0.159	41.10	0.24	41.34	55.52	14.18	AV
	0.211	29.05	0.27	29.32	53.18	23.86	
	0.303	21.48	0.35	21.83	50.15	28.32	
	0.510	9.89	0.45	10.34	46.00	35.66	
	4.269	18.54	0.63	19.17	46.00	26.83	
	12.253	21.85	0.81	22.66	50.00	27.34	

TEST ENGINEER: TED ZHU

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

Test Mode : DVI 1280*1024@75Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.157	56.87	0.26	57.13	65.60	8.47	QP
	0.211	47.72	0.29	48.01	63.18	15.17	
	0.303	39.42	0.37	39.79	60.15	20.36	
	0.541	28.38	0.48	28.86	56.00	27.14	
	4.361	26.31	0.63	26.94	56.00	29.06	
	11.996	28.01	0.81	28.82	60.00	31.18	
	0.157	26.07	0.26	26.33	55.60	29.27	AV
	0.211	27.77	0.29	28.06	53.18	25.12	
	0.303	17.12	0.37	17.49	50.15	32.66	
	0.541	12.31	0.48	12.79	46.00	33.21	
	4.361	17.29	0.63	17.92	46.00	28.08	
	11.996	22.21	0.81	23.02	50.00	26.98	
Neutral	0.159	57.79	0.24	58.03	65.52	7.49	QP
	0.213	48.25	0.27	48.52	63.10	14.58	
	0.303	39.70	0.35	40.05	60.15	20.10	
	0.524	28.38	0.45	28.83	56.00	27.17	
	4.315	27.06	0.63	27.69	56.00	28.31	
	13.267	29.25	0.83	30.08	60.00	29.92	
	0.159	39.93	0.24	40.17	55.52	15.35	AV
	0.213	31.54	0.27	31.81	53.10	21.29	
	0.303	13.29	0.35	13.64	50.15	36.51	
	0.524	11.56	0.45	12.01	46.00	33.99	
	4.315	17.81	0.63	18.44	46.00	27.56	
	13.267	22.70	0.83	23.53	50.00	26.47	

TEST ENGINEER: TED ZHU

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

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	0.159	58.58	0.27	58.85	65.52	6.67	QP
	0.213	49.03	0.29	49.32	63.10	13.78	
	0.307	40.22	0.37	40.59	60.06	19.47	
	0.524	28.90	0.48	29.38	56.00	26.62	
	4.202	26.94	0.63	27.57	56.00	28.43	
	11.996	28.50	0.81	29.31	60.00	30.69	
	0.159	40.42	0.27	40.69	55.52	14.83	AV
	0.213	24.97	0.29	25.26	53.10	27.84	
	0.307	15.47	0.37	15.84	50.06	34.22	
	0.524	12.45	0.48	12.93	46.00	33.07	
	4.202	18.95	0.63	19.58	46.00	26.42	
	11.996	23.01	0.81	23.82	50.00	26.18	
Neutral	0.159	59.04	0.24	59.28	65.52	6.24	QP
	0.213	49.27	0.27	49.54	63.10	13.56	
	0.300	40.32	0.35	40.67	60.24	19.57	
	0.524	32.20	0.45	32.65	56.00	23.35	
	4.361	30.50	0.63	31.13	56.00	24.87	
	12.920	30.30	0.83	31.13	60.00	28.87	
	0.159	34.35	0.24	34.59	55.52	20.93	AV
	0.213	25.95	0.27	26.22	53.10	26.88	
	0.300	24.29	0.35	24.64	50.24	25.60	
	0.524	8.09	0.45	8.54	46.00	37.46	
	4.361	16.74	0.63	17.37	46.00	28.63	
	12.920	23.45	0.83	24.28	50.00	25.72	

TEST ENGINEER: TED ZHU

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

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	0.159	58.53	0.27	58.80	65.52	6.72	QP
	0.211	47.55	0.29	47.84	63.18	15.34	
	0.300	40.06	0.37	40.43	60.24	19.81	
	0.521	28.80	0.48	29.28	56.00	26.72	
	4.269	26.77	0.63	27.40	56.00	28.60	
	11.807	27.40	0.81	28.21	60.00	31.79	
	0.159	36.07	0.27	36.34	55.52	19.18	AV
	0.211	27.88	0.29	28.17	53.18	25.01	
	0.300	11.83	0.37	12.20	50.24	38.04	
	0.521	11.21	0.48	11.69	46.00	34.31	
	4.269	19.78	0.63	20.41	46.00	25.59	
	11.807	22.14	0.81	22.95	50.00	27.05	
Neutral	0.159	58.02	0.24	58.26	65.52	7.26	QP
	0.208	43.60	0.27	43.87	63.27	19.40	
	0.303	39.78	0.35	40.13	60.15	20.02	
	0.516	28.19	0.45	28.64	56.00	27.36	
	4.202	27.16	0.63	27.79	56.00	28.21	
	13.127	29.69	0.83	30.52	60.00	29.48	
	0.159	39.13	0.24	39.37	55.52	16.15	AV
	0.208	26.58	0.27	26.85	53.27	26.42	
	0.303	20.51	0.35	20.86	50.15	29.29	
	0.516	9.48	0.45	9.93	46.00	36.07	
	4.202	18.65	0.63	19.28	46.00	26.72	
	13.127	23.79	0.83	24.62	50.00	25.38	

TEST ENGINEER: TED ZHU

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

Test Mode : HDMI 480P

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.159	59.62	0.27	59.89	65.52	5.63	QP
	0.213	49.97	0.29	50.26	63.10	12.84	
	0.310	39.48	0.37	39.85	59.97	20.12	
	0.535	31.92	0.48	32.40	56.00	23.60	
	4.315	31.72	0.63	32.35	56.00	23.65	
	12.384	31.00	0.82	31.82	60.00	28.18	
	0.159	41.75	0.27	42.02	55.52	13.50	AV
	0.213	22.61	0.29	22.90	53.10	30.20	
	0.310	16.81	0.37	17.18	49.97	32.79	
	0.535	15.03	0.48	15.51	46.00	30.49	
	4.315	19.48	0.63	20.11	46.00	25.89	
	12.384	21.31	0.82	22.13	50.00	27.87	
Neutral	0.159	59.95	0.24	60.19	65.52	5.33	QP
	0.213	50.39	0.27	50.66	63.10	12.44	
	0.307	41.72	0.35	42.07	60.06	17.99	
	0.521	30.62	0.45	31.07	56.00	24.93	
	4.202	27.52	0.63	28.15	56.00	27.85	
	11.996	29.42	0.81	30.23	60.00	29.77	
	0.159	29.70	0.24	29.94	55.52	25.58	AV
	0.213	32.95	0.27	33.22	53.10	19.88	
	0.307	25.76	0.35	26.11	50.06	23.95	
	0.521	11.03	0.45	11.48	46.00	34.52	
	4.202	16.93	0.63	17.56	46.00	28.44	
	11.996	22.39	0.81	23.20	50.00	26.80	

TEST ENGINEER: TED ZHU

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

Test Mode : HDMI 720P

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.159	61.51	0.27	61.78	65.52	3.74	QP
	0.213	51.97	0.29	52.26	63.10	10.84	
	0.310	41.32	0.37	41.69	59.97	18.28	
	0.524	30.95	0.48	31.43	56.00	24.57	
	4.549	27.67	0.63	28.30	56.00	27.70	
	12.253	28.96	0.82	29.78	60.00	30.22	
	0.159	44.66	0.27	44.93	55.52	10.59	AV
	0.213	34.52	0.29	34.81	53.10	18.29	
	0.310	17.75	0.37	18.12	49.97	31.85	
	0.524	11.97	0.48	12.45	46.00	33.55	
	4.549	16.33	0.63	16.96	46.00	29.04	
	12.253	22.48	0.82	23.30	50.00	26.70	
Neutral	0.157	59.09	0.23	59.32	65.60	6.28	QP
	0.213	50.97	0.27	51.24	63.10	11.86	
	0.300	42.15	0.35	42.50	60.24	17.74	
	0.499	29.99	0.45	30.44	56.01	25.57	
	4.269	28.04	0.63	28.67	56.00	27.33	
	11.996	29.25	0.81	30.06	60.00	29.94	
	0.157	38.37	0.23	38.60	55.60	17.00	AV
	0.213	30.67	0.27	30.94	53.10	22.16	
	0.300	21.30	0.35	21.65	50.24	28.59	
	0.499	6.21	0.45	6.66	46.01	39.35	
	4.269	17.25	0.63	17.88	46.00	28.12	
	11.996	22.84	0.81	23.65	50.00	26.35	

TEST ENGINEER: TED ZHU

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 48%RH

Serial No. : E2010052602 Date of Test : May 31, 2010

Test Mode : HDMI 1080P

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.156	58.80	0.26	59.06	65.65	6.59	QP
	0.213	52.21	0.29	52.50	63.10	10.60	
	0.310	42.21	0.37	42.58	59.97	17.39	
	0.521	31.53	0.48	32.01	56.00	23.99	
	4.574	26.63	0.63	27.26	56.00	28.74	
	11.933	28.10	0.81	28.91	60.00	31.09	
	0.156	42.00	0.26	42.26	55.65	13.39	AV
	0.213	35.00	0.29	35.29	53.10	17.81	
	0.310	9.10	0.37	9.47	49.97	40.50	
	0.521	8.42	0.48	8.90	46.00	37.10	
	4.574	15.93	0.63	16.56	46.00	29.44	
	11.933	22.90	0.81	23.71	50.00	26.29	
Neutral	0.161	62.90	0.24	63.14	65.43	2.29	QP
	0.215	52.82	0.27	53.09	63.01	9.92	
	0.307	43.88	0.35	44.23	60.06	15.83	
	0.521	31.59	0.45	32.04	56.00	23.96	
	4.574	27.88	0.64	28.52	56.00	27.48	
	11.021	26.88	0.78	27.66	60.00	32.34	
	0.161	45.00	0.24	45.24	55.43	10.19	AV
	0.215	28.07	0.27	28.34	53.01	24.67	
	0.307	20.00	0.35	20.35	50.06	29.71	
	0.521	19.00	0.45	19.45	46.00	26.55	
	4.574	21.30	0.64	21.94	46.00	24.06	
	11.021	18.60	0.78	19.38	50.00	30.62	

TEST ENGINEER: TED ZHU

4 RADIATED EMISSION TEST

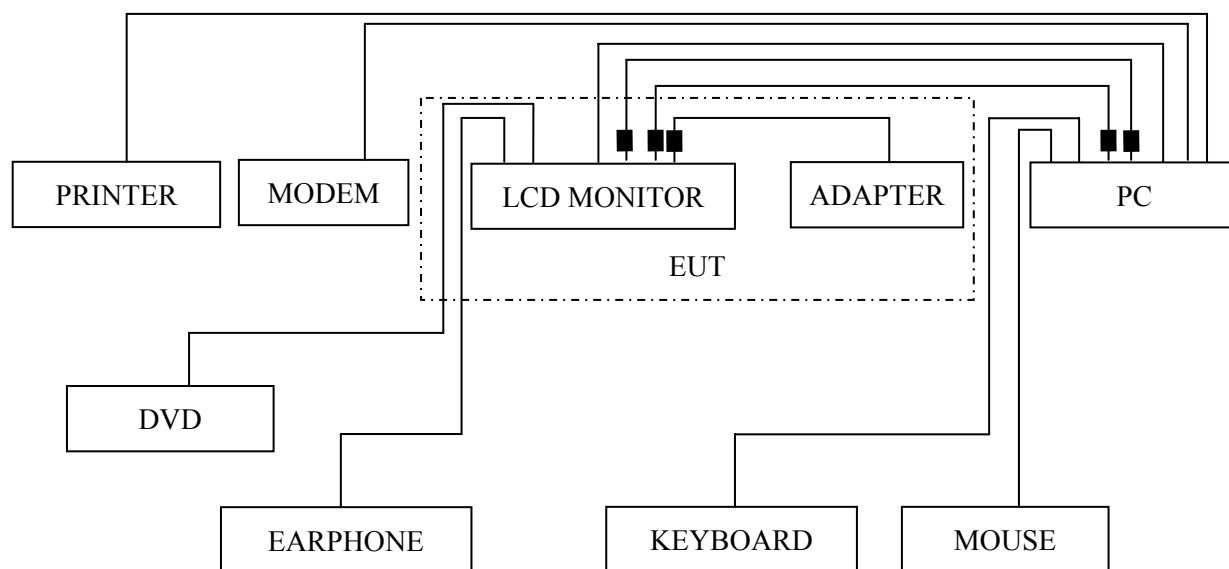
4.1 Test Equipment

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.	Preamplifier	HP	8449B	3008A00864	Apr 29, 2009	Apr 29, 2010
4.	Bi-log Antenna	TESEQ	CBL6112D	23192	Dec 01, 2009	Dec 01, 2010
5.	Spectrum	Agilent	E7405A	MY45106600	May 19, 2009	May 19, 2010
6.	Software	Audix	E3	SET00200 9912M295-2	--	--

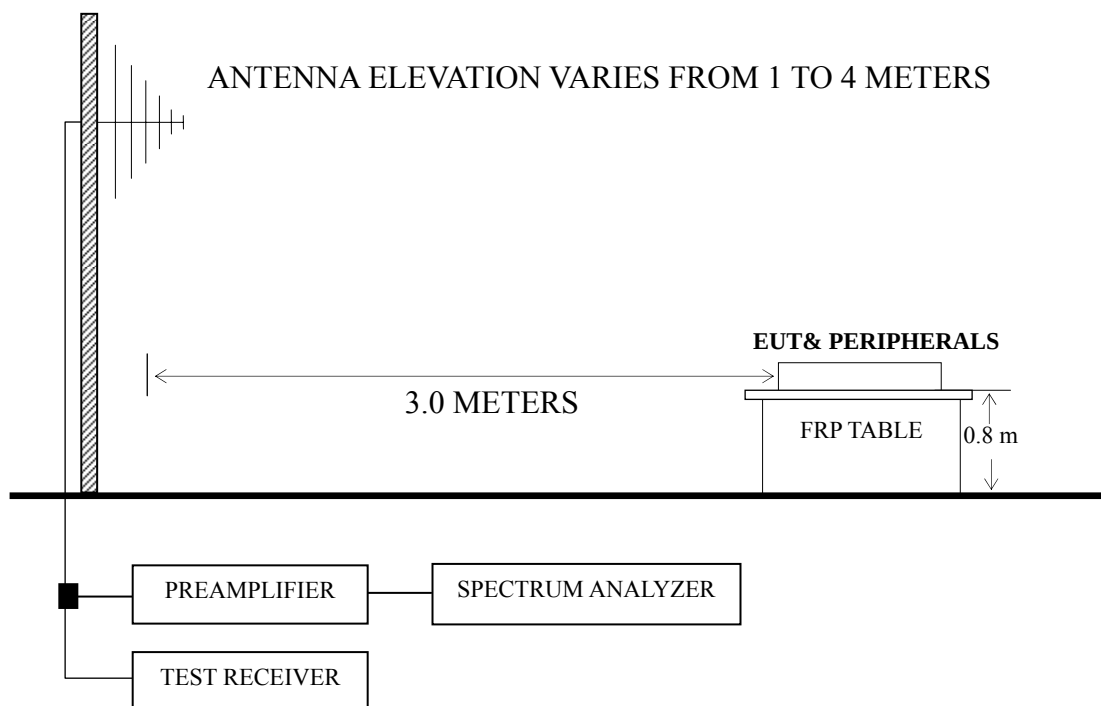
4.2 Block Diagram of Test Setup

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 I.F. 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 1280*1024@75Hz, 1680*1050@60Hz and 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	Page
D-Sub 640*480@60Hz	P27
D-Sub 1280*1024@75Hz	P28
D-Sub 1680*1050@60Hz	P29
D-Sub 1920*1080@60Hz	P30
DVI 640*480@60Hz	P31
DVI 1280*1024@75Hz	P32
DVI 1680*1050@60Hz	P33
DVI 1920*1080@60Hz	P34
HDMI 480P	P35
HDMI 720P	P36
HDMI 1080P	P37

NOTE 1 – **The bold test mode** listed above means the worst test mode.

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

NOTE 3 – Emission Level = Antenna Factor + Cable Loss – Preamp Factor + Meter Reading.($> 1\text{GHz}$)

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 HDMI 480P test mode. The worst emission at horizontal polarization was detected at 444.190 MHz with corrected signal level of 41.47 dB ($\mu\text{V/m}$) (limit is 46.00dB ($\mu\text{V/m}$)), when the antenna was 1.00 m height and the turntable was at 250° . The worst emission at vertical polarization was detected at 890.390MHz with corrected signal level of 44.45 dB ($\mu\text{V/m}$) (limit is 46.00 dB ($\mu\text{V/m}$)), when the antenna was 1.00 m height and the turntable was at 100° .

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

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	48.430	18.84	9.62	0.77	29.23	40.00	10.77
	148.340	21.70	11.41	1.23	34.34	43.50	9.16
	255.040	21.04	13.01	1.62	35.67	46.00	10.33
	376.290	14.71	15.99	1.99	32.69	46.00	13.31
	667.290	20.23	19.55	2.61	42.39	46.00	3.61
	805.030	9.86	20.73	2.90	33.49	46.00	12.51
Vertical	31.940	18.13	18.49	0.65	37.27	40.00	2.73
	36.790	19.66	15.80	0.69	36.15	40.00	3.85
	65.890	28.63	6.54	0.87	36.04	40.00	3.96
	82.380	27.40	8.19	0.96	36.55	40.00	3.45
	196.840	27.64	10.57	1.44	39.65	43.50	3.85
	509.180	18.72	18.01	2.27	39.00	46.00	7.00

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

Test Mode : D-Sub 1280*1024@75Hz

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	48.430	18.72	9.62	0.77	--	29.11	40.00	10.89	QP
	148.340	21.22	11.41	1.23	--	33.86	43.50	9.64	
	255.040	21.55	13.01	1.62	--	36.18	46.00	9.82	
	509.180	12.66	18.01	2.27	--	32.94	46.00	13.06	
	667.290	20.93	19.55	2.61	--	43.09	46.00	2.91	
	800.180	12.06	20.70	2.89	--	35.65	46.00	10.35	
	1057.000	51.99	22.79	3.84	34.10	44.52	74.00	29.48	PK
	1145.000	51.30	23.39	4.08	34.11	44.66	74.00	29.34	
	1324.000	48.77	24.70	4.46	34.13	43.80	74.00	30.20	
	1500.000	44.38	25.80	4.80	34.15	40.83	74.00	33.17	
	1655.000	42.28	26.54	5.10	34.17	39.75	74.00	34.25	
	1683.000	46.40	26.61	5.16	34.17	44.00	74.00	30.00	
Vertical	31.940	18.33	18.49	0.65	--	37.47	40.00	2.53	QP
	65.890	28.96	6.54	0.87	--	36.37	40.00	3.63	
	82.380	28.04	8.19	0.96	--	37.19	40.00	2.81	
	99.840	22.29	11.42	1.04	--	34.75	43.50	8.75	
	148.340	28.65	11.41	1.23	--	41.29	43.50	2.21	
	196.840	27.51	10.57	1.44	--	39.52	43.50	3.98	
	1157.000	47.89	23.48	4.10	34.11	41.36	74.00	32.64	PK
	1253.000	49.92	24.14	4.31	34.12	44.25	74.00	29.75	
	1392.000	48.26	25.16	4.59	34.14	43.87	74.00	30.13	
	1461.000	48.18	25.56	4.73	34.14	44.33	74.00	29.67	
	1662.000	44.76	26.56	5.12	34.17	42.27	74.00	31.73	
	1742.000	45.69	26.76	5.28	34.18	43.55	74.00	30.45	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

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	48.430	18.71	9.62	0.77	--	29.10	40.00	10.90	QP
	138.640	17.03	12.17	1.21	--	30.41	43.50	13.09	
	255.040	21.59	13.01	1.62	--	36.22	46.00	9.78	
	509.180	10.47	18.01	2.27	--	30.75	46.00	15.25	
	667.290	21.02	19.55	2.61	--	43.18	46.00	2.82	
	800.180	10.91	20.70	2.89	--	34.50	46.00	11.50	
	1157.000	53.37	23.48	4.10	34.11	46.84	74.00	27.16	PK
	1275.000	50.91	24.32	4.35	34.13	45.45	74.00	28.55	
	1425.000	43.35	25.34	4.66	34.14	39.21	74.00	34.79	
	1572.000	47.61	26.26	4.95	34.16	44.66	74.00	29.34	
	1683.000	47.40	26.61	5.16	34.17	45.00	74.00	29.00	
	1948.000	45.86	27.81	5.55	34.20	45.02	74.00	28.98	
Vertical	31.940	17.62	18.49	0.65	--	36.76	40.00	3.24	QP
	65.890	28.39	6.54	0.87	--	35.80	40.00	4.20	
	82.380	27.20	8.19	0.96	--	36.35	40.00	3.65	
	148.340	26.66	11.41	1.23	--	39.30	43.50	4.20	
	196.840	27.90	10.57	1.44	--	39.91	43.50	3.59	
	516.940	18.91	18.12	2.29	--	39.32	46.00	6.68	
	1157.000	47.89	23.48	4.10	34.11	41.36	74.00	32.64	PK
	1253.000	49.92	24.14	4.31	34.12	44.25	74.00	29.75	
	1392.000	48.26	25.16	4.59	34.14	43.87	74.00	30.13	
	1461.000	48.18	25.56	4.73	34.14	44.33	74.00	29.67	
	1662.000	44.76	26.56	5.12	34.17	42.27	74.00	31.73	
	1742.000	45.69	26.76	5.28	34.18	43.55	74.00	30.45	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

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	48.430	20.27	9.62	0.77	--	30.66	40.00	9.34	QP
	148.340	21.19	11.41	1.23	--	33.83	43.50	9.67	
	196.840	23.54	10.57	1.44	--	35.55	43.50	7.95	
	255.040	22.42	13.01	1.62	--	37.05	46.00	8.95	
	288.990	18.44	13.71	1.73	--	33.88	46.00	12.12	
	652.740	20.09	19.47	2.57	--	42.13	46.00	3.87	PK
	1145.000	43.30	23.39	4.08	34.11	36.66	74.00	37.34	
	1255.000	47.47	24.14	4.31	34.12	41.80	74.00	32.20	
	1425.000	42.35	25.34	4.66	34.14	38.21	74.00	35.79	
	1572.000	47.61	26.26	4.95	34.16	44.66	74.00	29.34	
	1699.000	44.03	26.65	5.19	34.17	41.70	74.00	32.30	
	1856.000	44.43	27.21	5.46	34.19	42.91	74.00	31.09	
Vertical	31.940	18.27	18.49	0.65	--	37.41	40.00	2.59	QP
	65.890	29.21	6.54	0.87	--	36.62	40.00	3.38	
	82.380	28.18	8.19	0.96	--	37.33	40.00	2.67	
	148.340	26.77	11.41	1.23	--	39.41	43.50	4.09	
	196.840	27.33	10.57	1.44	--	39.34	43.50	4.16	
	218.180	20.54	11.52	1.51	--	33.57	46.00	12.43	
	1150.000	43.21	23.42	4.09	34.11	36.61	74.00	37.39	PK
	1253.000	45.92	24.14	4.31	34.12	40.25	74.00	33.75	
	1461.000	47.18	25.56	4.73	34.14	43.33	74.00	30.67	
	1494.000	45.65	25.80	4.79	34.15	42.09	74.00	31.91	
	1857.000	46.48	27.21	5.46	34.19	44.96	74.00	29.04	
	1963.000	44.12	27.91	5.56	34.20	43.39	74.00	30.61	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

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	221.090	21.31	11.71	1.52	34.54	46.00	11.46
	255.040	20.52	13.01	1.62	35.15	46.00	10.85
	419.940	16.01	16.77	2.10	34.88	46.00	11.12
	667.290	16.92	19.55	2.61	39.08	46.00	6.92
	698.330	15.62	19.69	2.67	37.98	46.00	8.02
	977.690	15.43	22.27	4.01	41.71	54.00	12.29
Vertical	38.730	19.34	14.62	0.71	34.67	40.00	5.33
	148.340	24.62	11.41	1.23	37.26	43.50	6.24
	159.980	21.45	10.50	1.28	33.23	43.50	10.27
	218.180	17.36	11.52	1.51	30.39	46.00	15.61
	376.290	13.41	15.99	1.99	31.39	46.00	14.61
	698.330	18.16	19.69	2.67	40.52	46.00	5.48

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

Test Mode : DVI 1280*1024@75Hz

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	221.090	21.04	11.71	1.52	--	34.27	46.00	11.73	QP
	255.040	20.99	13.01	1.62	--	35.62	46.00	10.38	
	419.940	14.46	16.77	2.10	--	33.33	46.00	12.67	
	557.680	13.60	18.68	2.38	--	34.66	46.00	11.34	
	664.380	16.52	19.54	2.61	--	38.67	46.00	7.33	
	698.330	17.31	19.69	2.67	--	39.67	46.00	6.33	
	1324.000	46.77	24.70	4.46	34.13	41.80	74.00	32.20	PK
	1425.000	47.35	25.34	4.66	34.14	43.21	74.00	30.79	
	1561.000	50.54	26.19	4.92	34.16	47.49	74.00	26.51	
	1683.000	49.40	26.61	5.16	34.17	47.00	74.00	27.00	
	1846.000	46.40	27.17	5.45	34.19	44.83	74.00	29.17	
	1948.000	48.86	27.81	5.55	34.20	48.02	74.00	25.98	
Vertical	38.730	18.36	14.62	0.71	--	33.69	40.00	6.31	QP
	148.340	23.72	11.41	1.23	--	36.36	43.50	7.14	
	159.980	20.86	10.50	1.28	--	32.64	43.50	10.86	
	376.290	13.64	15.99	1.99	--	31.62	46.00	14.38	
	698.330	18.74	19.69	2.67	--	41.10	46.00	4.90	
	977.690	13.66	22.27	4.01	--	39.94	54.00	14.06	PK
	1313.000	50.18	24.62	4.43	34.13	45.10	74.00	28.90	
	1461.000	50.18	25.56	4.73	34.14	46.33	74.00	27.67	
	1564.000	46.43	26.19	4.93	34.16	43.39	74.00	30.61	
	1742.000	44.69	26.76	5.28	34.18	42.55	74.00	31.45	
	1857.000	47.48	27.21	5.46	34.19	45.96	74.00	28.04	
	1963.000	47.12	27.91	5.56	34.20	46.39	74.00	27.61	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

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	172.590	19.93	10.11	1.35	--	31.39	43.50	12.11	QP
	221.090	21.67	11.71	1.52	--	34.90	46.00	11.10	
	255.040	22.02	13.01	1.62	--	36.65	46.00	9.35	
	376.290	14.15	15.99	1.99	--	32.13	46.00	13.87	
	654.680	14.01	19.48	2.59	--	36.08	46.00	9.92	
	698.330	19.10	19.69	2.67	--	41.46	46.00	4.54	PK
	1157.000	53.37	23.48	4.10	34.11	46.84	74.00	27.16	
	1275.000	50.91	24.32	4.35	34.13	45.45	74.00	28.55	
	1425.000	43.35	25.34	4.66	34.14	39.21	74.00	34.79	
	1572.000	47.61	26.26	4.95	34.16	44.66	74.00	29.34	
	1683.000	47.40	26.61	5.16	34.17	45.00	74.00	29.00	
	1948.000	45.86	27.81	5.55	34.20	45.02	74.00	28.98	
Vertical	38.730	17.74	14.62	0.71	--	33.07	40.00	6.93	QP
	148.340	24.45	11.41	1.23	--	37.09	43.50	6.41	
	221.090	21.93	11.71	1.52	--	35.16	46.00	10.84	
	419.940	25.25	16.77	2.10	--	44.12	46.00	1.88	
	557.680	20.94	18.68	2.38	--	42.00	46.00	4.00	
	698.330	18.06	19.69	2.67	--	40.42	46.00	5.58	PK
	1157.000	47.89	23.48	4.10	34.11	41.36	74.00	32.64	
	1253.000	49.92	24.14	4.31	34.12	44.25	74.00	29.75	
	1392.000	48.26	25.16	4.59	34.14	43.87	74.00	30.13	
	1461.000	48.18	25.56	4.73	34.14	44.33	74.00	29.67	
	1662.000	44.76	26.56	5.12	34.17	42.27	74.00	31.73	
	1742.000	45.69	26.76	5.28	34.18	43.55	74.00	30.45	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

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	221.090	21.47	11.71	1.52	--	34.70	46.00	11.30	QP
	255.040	23.64	13.01	1.62	--	38.27	46.00	7.73	
	557.680	17.11	18.68	2.38	--	38.17	46.00	7.83	
	654.680	16.80	19.48	2.59	--	38.87	46.00	7.13	
	698.330	18.58	19.69	2.67	--	40.94	46.00	5.06	
	959.260	10.29	22.13	3.76	--	36.18	46.00	9.82	
	1104.000	49.45	23.15	3.97	34.11	42.46	74.00	31.54	PK
	1157.000	49.37	23.48	4.10	34.11	42.84	74.00	31.16	
	1425.000	45.35	25.34	4.66	34.14	41.21	74.00	32.79	
	1572.000	48.61	26.26	4.95	34.16	45.66	74.00	28.34	
	1699.000	45.03	26.65	5.19	34.17	42.70	74.00	31.30	
	1846.000	46.40	27.17	5.45	34.19	44.83	74.00	29.17	
Vertical	38.730	17.61	14.62	0.71	--	32.94	40.00	7.06	QP
	145.430	24.94	11.66	1.23	--	37.83	43.50	5.67	
	419.940	23.52	16.77	2.10	--	42.39	46.00	3.61	
	557.680	21.02	18.68	2.38	--	42.08	46.00	3.92	
	698.330	17.54	19.69	2.67	--	39.90	46.00	6.10	
	977.690	16.76	22.27	4.01	--	43.04	54.00	10.96	
	1058.000	52.80	22.79	3.85	34.10	45.34	74.00	28.66	PK
	1157.000	53.89	23.48	4.10	34.11	47.36	74.00	26.64	
	1313.000	49.18	24.62	4.43	34.13	44.10	74.00	29.90	
	1564.000	47.43	26.19	4.93	34.16	44.39	74.00	29.61	
	1664.000	46.74	26.56	5.12	34.17	44.25	74.00	29.75	
	1742.000	45.69	26.76	5.28	34.18	43.55	74.00	30.45	

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

Test Mode : HDMI 480P

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	148.340	19.62	11.41	1.23	32.26	43.50	11.24
	159.980	21.04	10.50	1.28	32.82	43.50	10.68
	196.840	19.67	10.57	1.44	31.68	43.50	11.82
	295.780	22.46	13.84	1.76	38.06	46.00	7.94
	395.690	17.43	16.40	2.05	35.88	46.00	10.12
	444.190	22.17	17.14	2.16	41.47	46.00	4.53
Vertical	41.640	21.52	13.02	0.73	35.27	40.00	4.73
	148.340	25.42	11.41	1.23	38.06	43.50	5.44
	216.240	28.84	11.43	1.50	41.77	46.00	4.23
	431.580	21.42	16.95	2.13	40.50	46.00	5.50
	790.480	17.06	20.61	2.89	40.56	46.00	5.44
	890.390	19.83	21.60	3.02	44.45	46.00	1.55

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

Test Mode : HDMI 720P

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	148.340	27.29	11.41	1.23	39.93	43.50	3.57
	198.780	24.35	10.64	1.44	36.43	43.50	7.07
	395.690	19.74	16.40	2.05	38.19	46.00	7.81
	444.190	23.70	17.14	2.16	43.00	46.00	3.00
	575.140	20.89	18.91	2.41	42.21	46.00	3.79
	594.540	21.24	19.14	2.44	42.82	46.00	3.18
Vertical	38.730	21.02	14.62	0.71	36.35	40.00	3.65
	216.240	27.56	11.43	1.50	40.49	46.00	5.51
	295.780	23.20	13.84	1.76	38.80	46.00	7.20
	444.190	19.73	17.14	2.16	39.03	46.00	6.97
	594.540	19.16	19.14	2.44	40.74	46.00	5.26
	935.980	15.19	21.96	3.40	40.55	46.00	5.45

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : E2750VV Humidity : 60%RH

Serial No. : E2010052602 Date of Test : Jun 21, 2010

Test Mode : HDMI 1080P

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	124.090	16.90	12.81	1.15	30.86	43.50	12.64
	159.980	23.26	10.50	1.28	35.04	43.50	8.46
	216.240	28.52	11.43	1.50	41.45	46.00	4.55
	295.780	28.32	13.84	1.76	43.92	46.00	2.08
	575.140	20.20	18.91	2.41	41.52	46.00	4.48
	790.480	19.16	20.61	2.89	42.66	46.00	3.34
Vertical	38.730	19.67	14.62	0.71	35.00	40.00	5.00
	159.980	24.53	10.50	1.28	36.31	43.50	7.19
	216.240	28.82	11.43	1.50	41.75	46.00	4.25
	504.330	19.98	17.95	2.27	40.20	46.00	5.80
	647.890	18.20	19.45	2.57	40.22	46.00	5.78
	790.480	15.87	20.61	2.89	39.37	46.00	6.63

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
Adhesive Tape	7250CP0005J	50*60	DAEHUNG SUBSIDIARY MATERIALS.	See Internal Photo Figure 11
Gasket	MCQ57884403 2EA	102*9*1T	DAEHUNG SUBSIDIARY MATERIALS.	See Internal Photo Figure 10
Gasket	MCQ57884402 2EA	170*9*1T	DAEHUNG SUBSIDIARY MATERIALS.	See Internal Photo Figure 10

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)