

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

LCD Monitor

Model No.: W1943CMV

Serial No.: 812NDLS5A448

FCC ID : BEJW1943SV

Prepared For : LG Electronics U.S.A., Inc.
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Date of Test : Jan 15-16, 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. : W1943CMV
(B) Serial No. : 812NDLS5A448
(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: W1943CMV; S/N: 812NDLS5A448) which was tested in 3m anechoic chamber on Jan 15-16, 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 15-16, 2009 Date of Report : Jan 20, 2009

Producer : Alan He
ALAN HE / Assistant

Review : Dio Yang
DIO YANG / Supervisor

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 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. : W1943CMV

Serial No. : 812NDLS5A448

Real Power : 24.00W

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 : LM185WH1 (TL) (E1)

Adaptor : Manufacturer : LIEN CHANG
M/N : LCAP07F
Input : 100-240V, 50~60Hz, 1.0A max
Output : 12V 3.0A
Output Cable : Unshielded, Undetachable, 1.80m, with one
core

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

Audio Cable : Shielded, Detachable, 1.50m, without core

Power Cord : Unshielded, Detachable, 1.80m

Note : After evaluation, the D-Sub cable#1 was used in the final
test for it 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 Earphone Port | : Connected with Earphone |
| (3) One Audio in Port | : Connected with PC |
| (4) 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

2.2.6 Earphone

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

2.3 Description of Test Facility

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

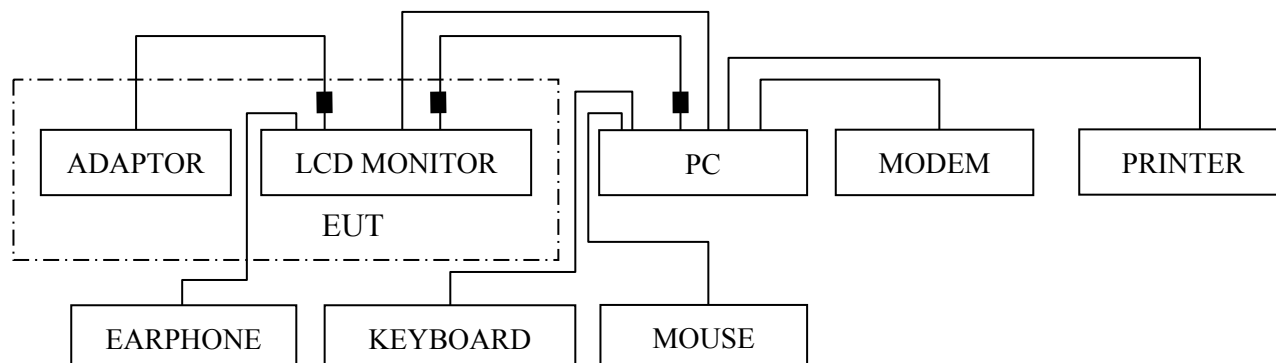
3.1 Test Equipment

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	--	--

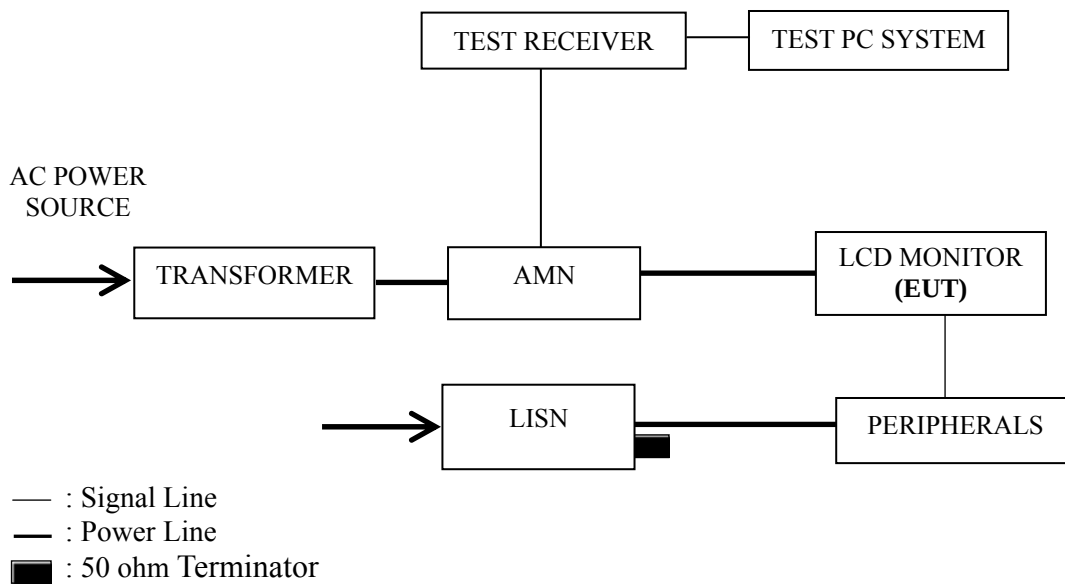
3.2 Block Diagram of Test Setup

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 Input).

3.5.5 PC system played music and sent audio signal to EUT through the audio in 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
D-Sub 1024*768@60Hz
D-Sub 1360*768@60Hz

3.6 Test Procedures

The EUT and peripherals were connected to the power mains through an Artificial Mains Network (AMN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of R&S Test Receiver 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	P13
D-Sub 1024*768@60Hz	P14
D-Sub 1360*768@60Hz	P15

NOTE 1 – Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

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

NOTE 4 –The worst case is for D-Sub 1024*768@60Hz test mode. The worst emission is detected at 0.182 MHz (Average Value) with corrected signal level of 50.05 dB (μV) (limit is 54.42 dB (μV)), when the Line of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 21°C

Model No. : W1943CMV Humidity : 50%RH

Serial No. : 812NDLS5A448 Date of Test : Jan 15, 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	0.183	58.14	0.21	58.35	64.33	5.98	QP
	0.244	49.72	0.21	49.93	61.95	12.02	
	0.665	35.79	0.22	36.01	56.00	19.99	
	5.112	31.24	0.39	31.63	60.00	28.37	
	18.328	38.47	0.72	39.19	60.00	20.81	
	21.260	38.33	0.77	39.10	60.00	20.90	
	0.183	48.96	0.21	49.17	54.33	5.16	AV
	0.244	40.12	0.21	40.33	51.95	11.62	
	0.665	26.61	0.22	26.83	46.00	19.17	
	5.112	21.65	0.39	22.04	50.00	27.96	
	18.328	28.64	0.72	29.36	50.00	20.64	
	21.260	28.64	0.77	29.41	50.00	20.59	
Neutral	0.183	58.89	0.20	59.09	64.33	5.24	QP
	0.242	51.38	0.21	51.59	62.04	10.45	
	0.665	36.62	0.22	36.84	56.00	19.16	
	1.716	28.43	0.25	28.68	56.00	27.32	
	5.362	31.28	0.37	31.65	60.00	28.35	
	20.594	39.25	0.57	39.82	60.00	20.18	
	0.183	48.91	0.20	49.11	54.33	5.22	AV
	0.242	42.61	0.21	42.82	52.04	9.22	
	0.665	26.51	0.22	26.73	46.00	19.27	
	1.716	18.45	0.25	18.70	46.00	27.30	
	5.362	21.64	0.37	22.01	50.00	27.99	
	5.362	21.64	0.37	22.01	50.00	27.99	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 21°C

Model No. : W1943CMV Humidity : 50%RH

Serial No. : 812NDLS5A448 Date of Test : Jan 15, 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	0.182	59.76	0.21	59.97	64.42	4.45	QP
	0.244	52.48	0.21	52.69	61.95	9.26	
	0.665	36.42	0.22	36.64	56.00	19.36	
	5.419	32.64	0.41	33.05	60.00	26.95	
	18.426	39.45	0.72	40.17	60.00	19.83	
	23.636	36.89	0.85	37.74	60.00	22.26	
	0.182	49.84	0.21	50.05	54.42	4.37	AV
	0.244	46.51	0.21	46.72	51.95	5.23	
	0.665	26.51	0.22	26.73	46.00	19.27	
	5.419	23.61	0.41	24.02	50.00	25.98	
	18.426	29.44	0.72	30.16	50.00	19.84	
	23.636	26.55	0.85	27.40	50.00	22.60	
Neutral	0.181	59.38	0.20	59.58	64.46	4.88	QP
	0.240	52.05	0.21	52.26	62.08	9.82	
	0.665	36.62	0.22	36.84	56.00	19.16	
	5.362	32.72	0.37	33.09	60.00	26.91	
	18.426	38.66	0.55	39.21	60.00	20.79	
	20.924	38.53	0.58	39.11	60.00	20.89	
	0.181	49.65	0.20	49.85	54.46	4.61	AV
	0.240	43.61	0.21	43.82	52.08	8.26	
	0.665	26.51	0.22	26.73	46.00	19.27	
	5.362	23.61	0.37	23.98	50.00	26.02	
	18.426	28.47	0.55	29.02	50.00	20.98	
	20.924	28.45	0.58	29.03	50.00	20.97	

TEST ENGINEER: WENCY YANG

EUT : LCD Monitor Temperature : 21°C

Model No. : W1943CMV Humidity : 50%RH

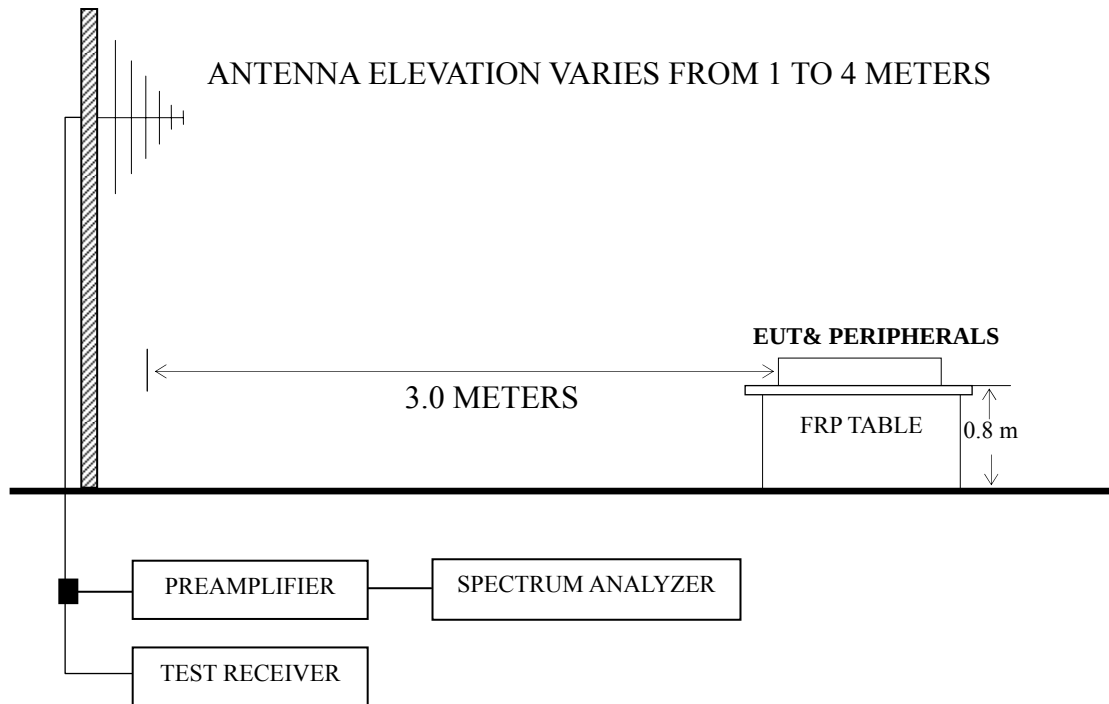
Serial No. : 812NDLS5A448 Date of Test : Jan 15, 2009

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	0.181	59.37	0.21	59.58	64.46	4.88	QP
	0.242	53.69	0.21	53.90	62.04	8.14	
	0.305	45.23	0.22	45.45	60.10	14.65	
	0.665	36.68	0.22	36.90	56.00	19.10	
	5.249	33.23	0.40	33.63	60.00	26.37	
	18.920	41.48	0.72	42.20	60.00	17.80	
	0.181	44.09	0.21	44.30	54.46	10.16	AV
	0.242	43.62	0.21	43.83	52.04	8.21	
	0.305	35.61	0.22	35.83	50.10	14.27	
	0.665	26.51	0.22	26.73	46.00	19.27	
	5.249	23.61	0.40	24.01	50.00	25.99	
	18.920	31.26	0.72	31.98	50.00	18.02	
Neutral	0.181	59.70	0.20	59.90	64.46	4.56	QP
	0.246	52.39	0.21	52.60	61.89	9.29	
	0.665	36.32	0.22	36.54	56.00	19.46	
	1.560	28.25	0.26	28.51	56.00	27.49	
	5.277	31.79	0.37	32.16	60.00	27.84	
	21.260	41.11	0.59	41.70	60.00	18.30	
	0.181	47.94	0.20	48.14	54.46	6.32	AV
	0.246	43.16	0.21	43.37	51.89	8.52	
	0.665	26.51	0.22	26.73	46.00	19.27	
	1.560	18.94	0.26	19.20	46.00	26.80	
	5.277	21.64	0.37	22.01	50.00	27.99	
	21.260	31.62	0.59	32.21	50.00	17.79	

TEST ENGINEER: WENCY YANG

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.

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.

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	P20
D-Sub 1024*768@60Hz	P21
D-Sub 1360*768@60Hz	P22

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

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

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

NOTE 5 – All reading are Quasi-Peak values.

NOTE 6 – The worst case is for D-Sub 640*480@60Hz test mode. The worst emission at horizontal polarization was detected at 128.940 MHz with corrected signal level of 38.06 dB (μV/m) (limit is 43.50 dB (μV/m)), when the antenna was 1.20 m height and the turntable was at 55°. The worst emission at vertical polarization was detected at 127.970 MHz with corrected signal level of 40.34 dB (μV/m) (limit is 43.50 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 225°.

EUT : LCD Monitor Temperature : 22°C

Model No. : W1943CMV Humidity : 60%RH

Serial No. : 812NDLS5A448 Date of Test : Jan 16, 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	56.190	22.37	7.46	0.80	30.63	40.00	9.37
	128.940	24.58	12.58	0.90	38.06	43.50	5.44
	163.860	22.52	10.40	0.97	33.89	43.50	9.61
	347.190	17.94	15.24	1.80	34.98	46.00	11.02
	445.160	15.95	17.14	2.20	35.29	46.00	10.71
	702.210	13.22	19.73	3.07	36.02	46.00	9.98
Vertical	37.760	18.94	15.20	0.66	34.80	40.00	5.20
	79.470	24.99	7.72	0.86	33.57	40.00	6.43
	127.970	26.82	12.63	0.89	40.34	43.50	3.16
	171.620	18.19	10.15	0.99	29.33	43.50	14.17
	348.160	7.05	15.29	1.80	24.14	46.00	21.86
	520.820	10.85	18.18	2.43	31.46	46.00	14.54

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1943CMV Humidity : 60%RH

Serial No. : 812NDLS5A448 Date of Test : Jan 16, 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	55.220	24.95	7.69	0.80	33.44	40.00	6.56
	109.540	18.46	12.25	0.87	31.58	43.50	11.92
	128.940	23.88	12.58	0.90	37.36	43.50	6.14
	189.080	22.09	10.24	1.05	33.38	43.50	10.12
	347.190	16.75	15.24	1.80	33.79	46.00	12.21
	445.160	15.67	17.14	2.20	35.01	46.00	10.99
Vertical	55.220	24.09	7.69	0.80	32.58	40.00	7.42
	108.570	20.32	12.17	0.86	33.35	43.50	10.15
	127.970	26.63	12.63	0.89	40.15	43.50	3.35
	158.040	20.80	10.64	0.95	32.39	43.50	11.11
	189.080	19.55	10.24	1.05	30.84	43.50	12.66
	520.820	13.54	18.18	2.43	34.15	46.00	11.85

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22°C

Model No. : W1943CMV Humidity : 60%RH

Serial No. : 812NDLS5A448 Date of Test : Jan 16, 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	52.310	22.96	8.41	0.78	32.15	40.00	7.85
	95.960	21.65	10.70	0.85	33.20	43.50	10.30
	127.970	25.49	12.63	0.89	39.01	43.50	4.49
	146.400	25.13	11.61	0.92	37.66	43.50	5.84
	288.020	16.69	13.71	1.48	31.88	46.00	14.12
	632.370	11.32	19.37	2.75	33.44	46.00	12.56
Vertical	52.310	21.78	8.41	0.78	30.97	40.00	9.03
	110.510	19.56	12.32	0.87	32.75	43.50	10.75
	127.970	25.63	12.63	0.89	39.15	43.50	4.35
	279.290	13.11	13.52	1.42	28.05	46.00	17.95
	448.070	6.98	17.20	2.22	26.40	46.00	19.60
	702.210	8.28	19.73	3.07	31.08	46.00	14.92

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
EMI Tape	80PND029	50*60	EXPAN	See Internal Photos 20
Sponge	MCQ57884401	40*9*1	EXPAN	See Internal Photos 21
Sponge	MCQ57884401	250*9*1	EXPAN	See Internal Photos 22