

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

LCD Monitor

Model No.: L206WT*, L204WT*

Serial No.: E06102704, E06102705

FCC ID : BEJL206WTQ

Prepared For : LG Electronics U.S.A Inc.
2000 Millbrook Dr.Lincolnshire,
IL 60069 United States

Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F06052
Date of Test : Oct 30, 2006
Date of Report : Nov 09, 2006

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TEST REPORT FOR FCC CERTIFICATE

Applicant : LG Electronics U.S.A Inc.
Manufacturer : LG-Tontru Colour Display System Co., Ltd.
EUT Description : LCD Monitor
(A) Model No. : L206WT*, L204WT*
(B) Serial No. : E06102704, E06102705
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B AUGUST 2006
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: L206WT*, L204WT*; S/N: E06102704, E06102705) which was tested in 10m anechoic chamber on Oct 30, 2006 is technically compliance with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Oct 30, 2006

Prepared By: Kathy Wang 2006. 11. 16
KATHY WANG/ Assistant

Reviewer: Sammy Chen 2006. 11. 16
SAMMY CHEN / Deputy Assistant Manager

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

Approved Signatory: Byron Kwo 16 Nov. 2006
Authorized Signature(s) BYRON KWO / 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 / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Disturbance At main terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B AUGUST 2006 AND ANSI C63.4-2003	Pass	15.107(a) Class B
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B AUGUST 2006 AND ANSI C63.4-2003	Pass	15.109(g) Class B

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description	:	LCD Monitor
Type of EUT	:	☒ Production ☐ Pre-product ☐ Pro-type
Model No.	:	L206WT*, L204WT*
Serial No.	:	E06102704, E06102705
Note 1	:	The “*” in the model number has two means: When it is “M”, it means there hasn’t speaker while it is “Q”, it means there has speaker.
Note 2	:	The difference between above two models is only the appearance.
Note 3	:	The difference between L204WT* in this report and the same model in the original reports (Test Report No.: ACI-F06025 (FCC ID: BEJL204WTQ) & ACI-F06019 (FCC ID: BEJL204WTM)) is that L204WT* in this report has four CCFL lamps while the same models in the original reports has six CCFL lamps.
Note 4	:	The data of L206WTQ are recorded in this report.
Applicant	:	LG Electronics U.S.A Inc. 2000 Millbrook Dr.Lincolnshire, IL 60069 United States
Manufacturer	:	LG-Tontru Colour Display System Co., Ltd. No.346, Yaixin Road Economic&Technical Development Zone Nanjing China
VGA Cable	:	Shielded, Detachable, 1.8m, with two cores
DVI Cable	:	Shielded, Detachable, 1.8m, with two cores
Panel	:	Manufacturer: AU optronics M/N : M201EW02 S/N : MW6961400435-ZMAOB

Remark:

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

Back View:

One AC Port

One VGA Input Port

One DVI Input Port

Headphone Port on Speaker

2.2 Supported Simulators

2.2.1 PC

Manufacturer : HP
Model Number : dx7200MT
S/N : CNG6190H3G
Data Cable : Unshielded, detachable ,1.9m
Certificate : VCCI, FCC, CE, CCC, NOM, NYCE, CSA
MIC, C-Tick, PCT, Safety Mark

2.2.2 Keyboard

Manufacturer : Logitech
Model Number : KB-0316
Serial Number : 382925-AA1
Data Cable : Unshielded, Undetachable, 1.9m
Certification : FCC, VCCI, CE, GS, CUS, MIC, C-Tick

2.2.3 Mouse

Manufacturer : HP
Model Number : F93A90AN3T306A9
Serial Number : 390938-001
Data Cable : Unshielded ,Undetachable, 1.85m.
Certification : FCC, VCCI, CE, GS, UL, MIC, C-Tick

2.2.4 Printer

Manufacturer : HP
Model Number : C3990A
Serial Number : JPZX020487
Data Cable : Unshielded, Detachable, 1.5m
Power Cord : Unshielded, Detachable, 1.8m
Certification : GS, CE/EMC, C-Tick, FCC DoC

2.2.5 Modem

Manufacturer : Aceex
Model Number : 1414
Serial Number : 980013576
Data Cable : Unshielded, Detachable, 1.8m
FCC ID : IFAXDM1414

2.2.6 Headphone

Manufacturer : SOMIC
Model Number : SM-301
Serial Number : N/A

2.3 Description of Test Facility

Site Description
(10m Semi-Anechoic Chamber) : Sep 13, 2006 file on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Wujiang) Co., Ltd.

Site Location : No.1289, Jiangxing East Rd.,
The EasternPart of Wujiang
Economic Development
Zone, JiangSu, China 215200

FCC registration Number : 252588

Audix Technology(Shanghai)Co., Ltd

Accredited by NVLAP, Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 1.84dB
Radiated Emission Expanded Uncertainty : U = 2.96dB

3 CONDUCTED EMISSION TEST

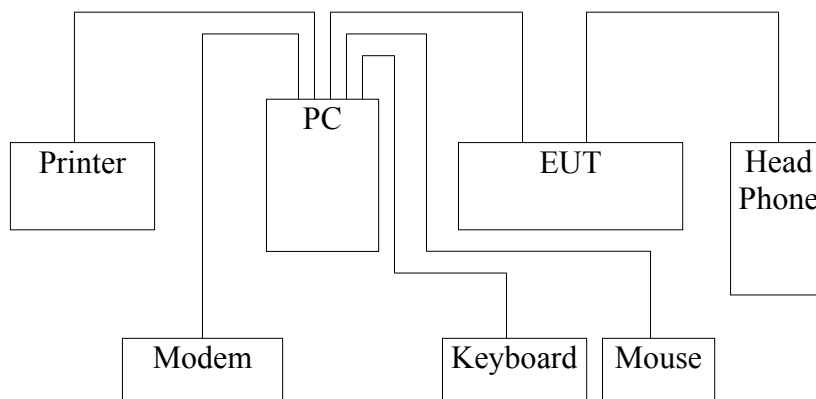
3.1 Test Equipment

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

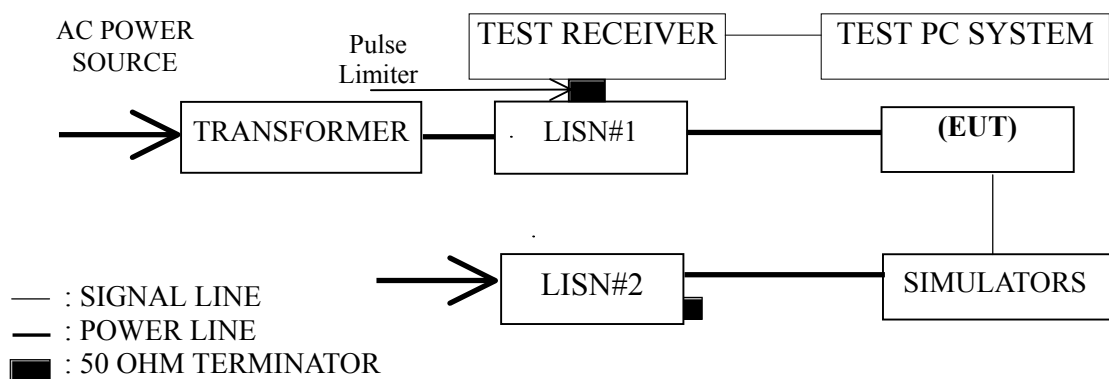
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ECSI	100352	Mar 29, 2006	Mar 29, 2007
2.	Line Impedance Stabilization Network (LISN#1)	Kyoritsu	KNW-407	8-1793-4	May 10, 2006	May 10, 2007
3.	Line Impedance Stabilization Network (LISN#2)	Kyoritsu	KNW-407	8-1793-3	May 10, 2006	May 10, 2007
4.	50Ω Coaxial Switch	ANRITSU	MP59B	6200547934	Aug 20, 2006	Feb 20, 2007
5.	Pulse Limiter	R&S	ESH3-Z2	100605	Aug 20, 2006	Feb 20, 2007
6.	Software	Audix	E3	RK-000323	--	--

3.2 Block Diagram of Test Setup

3.2.1 EUT & Supported Simulators



3.2.2 Conducted Disturbance Test Setup



3.3 Conducted Emission Limit [FCC Part 15 Subpart B 15.107(a)]

Frequency Range (MHz)	Limits dB (μV)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50
NOTE 1 – The lower limit shall apply at the transition frequencies. NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz NOTE 3 – If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.		

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (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 simulators as shown in Sec. 3.2
- 3.5.2 Turn on the power of all equipment and the EUT.
- 3.5.3 Set the contrast control to maximum.
- 3.5.4 Set the brightness control to maximum or at raster extinction if raster extinction occurs at less than maximum brightness.
- 3.5.5 For color monitors, use white letters on a black background to represent all color.
- 3.5.6 Select the worse case of positive or negative video if both alternatives are available.
- 3.5.7 Set character size and number of characters per line so that typically the greatest number of characters per screen is displayed.
- 3.5.8 For monitors with graphics capabilities, a pattern consisting of all scrolling Hs should be displayed. For monitors with text only capability, a pattern consisting of random text shall be displayed. If neither of the above is applied, use a typical display.
- 3.5.9 Set the EUT on the test modes in turn, and then test it.
- 3.5.10 The test modes are as follows:

VGA 800*600/60Hz	VGA 1024*768/60Hz	VGA 1280*1024/60Hz	VGA 1680*1050/60Hz
DVI 800*600/60Hz	DVI 1024*768/60Hz	DVI 1280*1024/60Hz	DVI 1680*1050/60Hz

3.6 Test Procedures

The EUT was connected to the power mains through a Line Impedance Stabilization Network (LISN). This provided a 50 ohm coupling impedance for the measuring equipment.

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

The bandwidth of Test Receiver ECSI 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	Test Mode	Page
VGA 800*600/60Hz	P11	DVI 800*600/60Hz	P15
VGA 1024*768/60Hz	P12	DVI 1024*768/60Hz	P16
VGA 1280*1024/60Hz	P13	DVI 1280*1024/60Hz	P17
VGA 1680*1050/60Hz	P14	DVI 1680*1050/60Hz	P18

NOTE 1 - Factor = Cable Loss + LISN Factor.

Cable Loss includes pulse limiter attenuator.

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 VGA 1280*1204/60Hz mode. The worst emission is detected at 0.16 MHz with corrected signal level of 54.047 (μV) (limit is 65.384 dB (μV)), when the Neutral of the EUT is connected to LISN.

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 56%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : VGA 800*600/60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
LINE	0.16	39.618	10.016	49.634	65.516	15.882
	0.18	37.210	9.971	47.181	64.460	17.279
	0.20	37.754	9.931	47.685	63.580	15.895
	0.33	27.259	10.042	37.301	59.355	22.054
	0.61	26.742	10.073	36.815	56.000	19.185
	3.07	21.965	10.029	31.994	56.000	24.006
NEUTRAL	0.17	43.249	10.001	53.250	65.164	11.914
	0.21	39.897	9.938	49.835	63.272	13.437
	0.26	35.150	9.994	45.144	61.291	16.147
	0.47	25.412	10.088	35.500	56.583	21.083
	3.14	21.902	10.029	31.931	56.000	24.069
	3.99	21.429	10.020	31.449	56.000	24.551

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 56%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : VGA 1024*768/60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
LINE	0.16	42.639	10.018	52.657	65.560	12.903
	0.17	43.061	10.003	53.064	65.208	12.144
	0.24	34.924	9.967	44.891	62.215	17.324
	0.33	27.379	10.042	37.421	59.335	21.934
	0.62	27.010	10.072	37.082	56.000	18.918
	3.07	21.857	10.029	31.886	56.000	24.114
NEUTRAL	0.16	43.350	10.011	53.361	65.384	12.023
	0.18	42.444	9.973	52.417	64.504	12.087
	0.22	36.881	9.947	46.828	62.920	16.092
	0.29	30.372	10.019	40.391	60.543	20.152
	0.62	25.572	10.072	35.644	56.000	20.356
	3.21	23.096	10.028	33.124	56.000	22.876

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 56%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : VGA 1280*1024/60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
LINE	0.16	42.960	10.009	52.969	65.340	12.371
	0.19	38.356	9.946	48.302	63.392	15.630
	0.22	36.797	9.953	46.750	62.699	15.949
	0.61	26.820	10.073	36.893	56.000	19.107
	2.33	20.637	9.957	30.594	56.000	25.406
	3.07	22.477	10.029	32.506	56.000	23.494
NEUTRAL	0.16	44.036	10.011	54.047	65.384	11.337
	0.18	42.783	9.973	52.756	64.504	11.748
	0.20	38.602	9.931	48.533	63.580	15.047
	0.61	23.264	10.073	33.337	56.000	22.663
	3.21	22.606	10.028	32.634	56.000	23.366
	3.99	22.789	10.020	32.809	56.000	23.191

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 56%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : VGA 1680*1050/60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
LINE	0.16	38.217	10.018	48.235	65.560	17.325
	0.17	39.170	9.996	49.166	65.032	15.866
	0.20	33.184	9.935	43.119	63.712	20.593
	0.26	29.955	9.993	39.948	61.335	21.387
	0.61	26.647	10.073	36.720	56.000	19.280
	3.07	21.873	10.029	31.902	56.000	24.098
NEUTRAL	0.16	39.292	10.009	49.301	65.340	16.039
	0.18	41.995	9.973	51.968	64.504	12.536
	0.20	37.856	9.931	47.787	63.580	15.793
	0.24	35.996	9.967	45.963	62.215	16.252
	0.62	23.256	10.072	33.328	56.000	22.672
	3.14	22.746	10.029	32.775	56.000	23.225

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 56%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : DVI 800*600/60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
LINE	0.15	43.496	10.025	53.521	65.736	12.215
	0.17	42.181	10.003	52.184	65.208	13.024
	0.22	34.191	9.953	44.144	62.699	18.555
	0.34	21.079	10.044	31.123	59.223	28.100
	0.62	28.049	10.072	38.121	56.000	17.879
	3.21	22.236	10.028	32.264	56.000	23.736
NEUTRAL	0.16	39.126	10.023	49.149	65.692	16.543
	0.19	35.162	9.954	45.116	64.108	18.992
	0.20	35.102	9.933	45.035	63.668	18.663
	0.35	30.903	10.049	40.952	58.871	17.919
	3.21	22.124	10.028	32.152	56.000	23.848
	3.88	22.520	10.021	32.541	56.000	23.459

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 56%

Serial No. : E06102704 Date of Test : Oct 30, 2006

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)
LINE	0.18	39.533	9.978	49.511	64.636	15.125
	0.20	31.649	9.937	41.586	63.756	22.170
	0.24	32.614	9.968	42.582	62.171	19.589
	0.33	27.350	10.041	37.391	59.443	22.052
	0.62	28.020	10.072	38.092	56.000	17.908
	3.21	21.732	10.028	31.760	56.000	24.240
NEUTRAL	0.16	43.864	10.013	53.877	65.428	11.551
	0.17	42.981	9.987	52.968	64.812	11.844
	0.22	38.020	9.947	47.967	62.920	14.953
	0.24	34.602	9.972	44.574	62.039	17.465
	0.61	25.183	10.073	35.256	56.000	20.744
	3.01	22.138	10.030	32.168	56.000	23.832

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 56%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : DVI 1280*1024/60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
LINE	0.16	43.631	10.016	53.647	65.516	11.869
	0.18	39.258	9.978	49.236	64.636	15.400
	0.20	34.825	9.931	44.756	63.580	18.824
	0.23	34.212	9.963	44.175	62.347	18.172
	0.61	27.497	10.073	37.570	56.000	18.430
	3.01	22.324	10.030	32.354	56.000	23.646
NEUTRAL	0.15	38.715	10.025	48.740	65.736	16.996
	0.16	39.546	10.011	49.557	65.384	15.827
	0.20	39.080	9.931	49.011	63.580	14.569
	0.22	37.212	9.947	47.159	62.920	15.761
	0.61	25.216	10.073	35.289	56.000	20.711
	3.01	21.590	10.030	31.620	56.000	24.380

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 56%

Serial No. : E06102704 Date of Test : Oct 30, 2006

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)
LINE	0.16	36.866	10.009	46.875	65.340	18.465
	0.17	39.832	9.996	49.828	65.032	15.204
	0.18	37.018	9.973	46.991	64.504	17.513
	0.22	36.041	9.952	45.993	62.743	16.750
	0.62	26.923	10.072	36.995	56.000	19.005
	3.07	21.646	10.029	31.675	56.000	24.325
NEUTRAL	0.16	41.711	10.023	51.734	65.692	13.958
	0.17	41.164	10.003	51.167	65.208	14.041
	0.20	40.194	9.931	50.125	63.580	13.455
	0.42	27.733	10.073	37.806	57.419	19.613
	0.61	23.436	10.073	33.509	56.000	22.491
	3.07	22.492	10.029	32.521	56.000	23.479

TEST ENGINEER: Dio Yang
(DIO YANG)

4 RADIATED EMISSION TEST

4.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

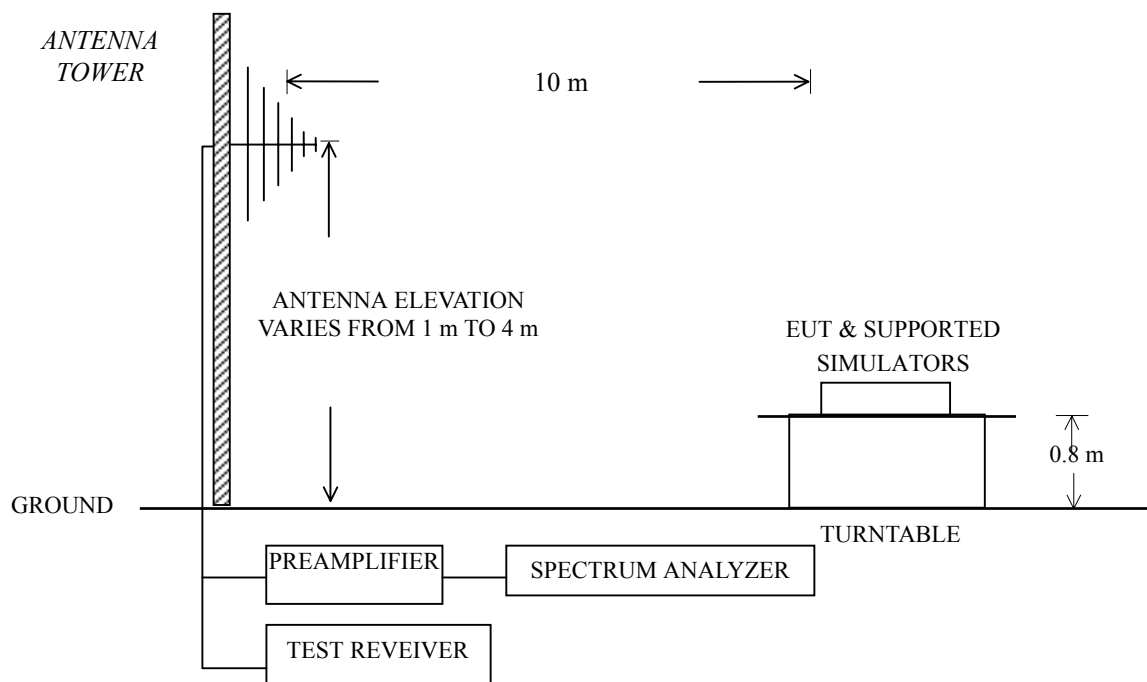
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8447D-CFG001	2944A10922	Apr 11, 2006	Apr 11, 2007
2.	Preamplifier	Agilent	8447D-CFG001	2944A10918	Apr 11, 2006	Apr 11, 2007
3.	Preamplifier	Agilent	8449B	3008A02234	Apr 18, 2006	Apr 18, 2007
4.	Bilog Antenna	Schaffner	CBL6112D	22252	Apr 09, 2006	Apr 09, 2007
5.	Bilog Antenna	Schaffner	CBL6112D	22251	Apr 09, 2006	Apr 09, 2007
6.	Bilog Antenna	EMCO	3115	62959	May 08, 2006	May 08, 2007
7.	EMC Analyzer	Agilent	E7405A	MY45107030	Apr 27, 2006	Apr 27, 2007
8.	EMC Analyzer	Agilent	E7405A	MY45106600	Apr 27, 2006	Apr 27, 2007
9.	Test Receiver	R&S	ECSI	100351	Mar 29, 2006	Mar 29, 2007
10.	Software	Audix	E3	RK-000325	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT and simulators

Same as Sec.3.2.1

4.2.2 Radiated emission test setup



4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(g)]

Frequency (MHz)	Distance (m)	Field Strength Limits dB (μ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37
Above 1000	10	43.5
NOTE 1 - The tighter limit applies at the edge between two frequency bands. NOTE 2 - 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 simulators 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 the test setup replaced by Sec.4.2.

4.6 Test Procedures

The EUT and simulators were placed on a turntable that is 0.8 meter above ground. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 10 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) was used as receiving antenna. 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 ECSI was set at 120 kHz below 1GHz and The Spectrum E7405A was set at 1MHz above 1GHz

The frequency range from 30 MHz to 2000 MHz was checked.

The test modes were done on radiated disturbance test and all the test results are listed in Sec.4.7.

The test modes are as follows:

VGA 800*600/60Hz	VGA 1024*768/60Hz	VGA 1280*1024/60Hz	VGA 1680*1050/60Hz
DVI 800*600/60Hz	DVI 1024*768/60Hz	DVI 1280*1024/60Hz	DVI 1680*1050/60Hz

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	Test Mode	Page
VGA 800*600/60Hz	P22	DVI 800*600/60Hz	P26
VGA 1024*768/60Hz	P23	DVI 1024*768/60Hz	P27
VGA 1280*1024/60Hz	P24	DVI 1280*1024/60Hz	P28
VGA 1680*1050/60Hz	P25	DVI 1680*1050/60Hz	P29

NOTE 1 - Emission Level = Meter Reading + Factor.

NOTE 2 - Factor = Antenna Factor + Cable Loss.

NOTE 3 - All reading are Quasi-Peak values below 1GHz.

NOTE 4 - All the emissions (>1GHz) not reported are too low to be measured. Please refer to section Appendix I – 2 for the photos of testing setup.

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 VGA 1024*768/60Hz mode. The worst emission at horizontal polarization was detected at 509.33 MHz with corrected signal level of 31.337 dB (μV/m) (limit is 37.000 dB (μV/m)), when the antenna was 1.47 m height and the turntable was at 235°. The worst emission at vertical polarization was detected at 657.49 MHz with corrected signal level of 32.921 dB (μV/m) (limit is 37.000 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 210°.

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 55%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : VGA 800*600/60Hz

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	147.37	7.910	10.274	1.673	19.857	30.000	10.143
	287.05	6.117	12.788	2.476	21.381	37.000	15.619
	412.18	2.418	16.517	2.925	21.860	37.000	15.140
	640.13	0.550	19.079	3.701	23.330	37.000	13.670
	695.42	0.695	19.207	3.912	23.814	37.000	13.186
Vertical	870.99	-0.209	20.088	4.408	24.287	37.000	12.713
	35.97	10.100	14.618	0.632	25.350	30.000	4.650
	150.91	7.700	10.225	1.390	19.315	30.000	10.685
	286.08	9.173	13.030	1.948	24.151	37.000	12.849
	414.12	4.574	16.842	2.442	23.858	37.000	13.142
	589.69	4.999	18.952	2.773	26.724	37.000	10.276
	665.35	4.132	19.425	2.998	26.555	37.000	10.445

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 55%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : VGA 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	145.43	9.001	10.442	1.660	21.103	30.000	8.897
	366.59	8.341	14.909	2.768	26.018	37.000	10.982
	509.33	10.500	17.570	3.267	31.337	37.000	5.663
	705.13	7.600	19.280	3.944	30.824	37.000	6.176
	885.54	3.862	20.170	4.449	28.481	37.000	8.519
	923.37	1.662	20.256	4.565	26.483	37.000	10.517
Vertical	35.98	9.940	14.609	0.632	25.181	30.000	4.819
	146.58	12.900	10.552	1.373	24.825	30.000	5.175
	436.43	7.280	16.685	2.490	26.455	37.000	10.545
	509.33	5.000	17.880	2.644	25.524	37.000	11.476
	586.78	5.662	18.966	2.768	27.396	37.000	9.604
	657.49	10.501	19.447	2.973	32.921	37.000	4.079

TEST ENGINEER: Dio Tang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 55%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : VGA 1280*1024/60Hz

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	94.99	4.183	9.900	1.320	16.033	30.000	13.967
	143.49	5.499	10.644	1.647	17.790	30.000	12.210
	249.22	5.074	12.030	2.285	19.389	37.000	17.611
	571.26	1.680	18.460	3.460	23.600	37.000	13.400
	843.83	5.285	20.219	4.332	29.836	37.000	7.164
	912.70	2.349	20.240	4.530	27.119	37.000	9.881
Vertical	83.35	10.258	7.647	0.988	18.893	30.000	11.107
	142.52	9.998	10.950	1.360	22.308	30.000	7.692
	427.70	3.993	16.807	2.471	23.271	37.000	13.729
	640.13	5.015	19.510	2.917	27.442	37.000	9.558
	666.32	4.621	19.424	3.001	27.046	37.000	9.954
	911.73	3.486	20.579	3.554	27.619	37.000	9.381

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 55%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : VGA 1680*1050/60Hz

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	30.00	0.516	18.050	0.740	19.306	30.000	10.694
	124.09	3.978	11.987	1.540	17.505	30.000	12.495
	415.09	1.034	16.567	2.935	20.536	37.000	16.464
	484.93	2.039	17.350	3.185	22.574	37.000	14.426
	600.36	1.616	18.708	3.550	23.874	37.000	13.126
	767.20	1.606	19.772	4.118	25.496	37.000	11.504
Vertical	96.93	9.763	10.440	1.065	21.268	30.000	8.732
	148.34	8.092	10.411	1.380	20.693	30.000	9.307
	250.19	8.209	12.417	1.810	22.436	37.000	14.564
	402.48	7.584	16.408	2.416	26.408	37.000	10.592
	547.98	1.662	19.044	2.706	23.412	37.000	13.588
	914.64	3.115	20.544	3.561	27.220	37.000	9.780

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 55%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : DVI 800*600/60Hz

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	30.00	-0.875	18.050	0.740	17.915	30.000	12.085
	136.70	5.713	11.358	1.605	18.676	30.000	11.324
	155.13	6.996	9.777	1.727	18.500	30.000	11.500
	254.07	8.906	12.426	2.310	23.642	30.000	13.358
	382.11	5.686	15.323	2.821	23.830	37.000	13.170
Vertical	515.00	3.708	17.605	3.285	24.598	37.000	12.402
	53.28	10.977	7.022	0.788	18.787	30.000	11.213
	81.41	10.108	7.304	0.976	18.388	30.000	11.612
	137.67	10.822	11.438	1.336	23.596	30.000	6.404
	415.09	4.003	16.868	2.444	23.315	37.000	13.685
	472.32	2.530	17.443	2.569	22.542	37.000	14.458
	696.39	1.806	19.653	3.098	24.557	37.000	12.443

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 55%

Serial No. : E06102704 Date of Test : Oct 30, 2006

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	77.53	3.835	6.368	1.194	11.397	30.000	18.603
	133.79	5.149	11.618	1.590	18.357	30.000	11.643
	249.22	7.520	12.030	2.285	21.835	37.000	15.165
	449.04	-1.783	16.516	3.057	17.790	37.000	19.210
	537.31	0.350	18.153	3.354	21.857	37.000	15.143
	671.17	-2.492	18.983	3.819	20.810	37.000	15.690
Vertical	30.97	3.573	17.574	0.596	21.743	30.000	8.257
	83.35	9.099	7.647	0.988	17.734	30.000	12.266
	130.88	9.922	12.025	1.287	23.234	30.000	6.766
	293.84	6.393	13.222	1.978	21.593	37.000	15.407
	410.24	4.016	16.737	2.433	23.186	37.000	13.814
	684.75	3.209	19.461	3.060	25.730	37.000	11.270

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 55%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : DVI 1280*1024/60Hz

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	111.48	6.809	11.765	1.447	20.021	30.000	9.979
	227.88	6.419	9.497	2.184	18.100	30.000	11.900
	293.84	5.890	12.939	2.511	21.340	37.000	15.660
	366.59	4.412	14.909	2.768	22.089	37.000	14.911
	549.92	0.898	18.498	3.393	22.789	37.000	14.211
	823.46	0.047	20.393	4.275	24.715	37.000	12.285
Vertical	30.00	2.224	18.180	0.590	20.994	30.000	9.006
	53.28	11.302	7.022	0.788	19.112	30.000	10.888
	78.50	10.687	6.850	0.959	18.496	30.000	11.504
	137.67	11.782	11.438	1.336	24.556	30.000	5.444
	294.81	6.974	13.271	1.981	22.226	37.000	14.774
	397.63	6.694	16.183	2.402	25.279	37.000	11.721

TEST ENGINEER: Dio Yang
(DIO YANG)

EUT : LCD Monitor Temperature : 25°C

Model No. : L206WTQ Humidity : 55%

Serial No. : E06102704 Date of Test : Oct 30, 2006

Test Mode : DVI 1680*1050/60Hz

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	30.97	-1.659	17.434	0.748	16.523	30.000	13.477
	120.21	7.182	11.933	1.520	20.635	30.000	9.365
	173.56	3.522	9.014	1.867	14.403	30.000	15.597
	259.89	5.854	12.940	2.339	21.133	37.000	15.867
	352.04	-0.572	14.571	2.718	16.717	37.000	20.283
Vertical	659.53	-0.096	19.076	3.775	22.755	37.000	14.245
	30.97	4.389	17.574	0.596	22.559	30.000	7.441
	81.41	10.657	7.304	0.976	18.937	30.000	11.063
	136.70	12.306	11.525	1.329	25.160	30.000	4.840
	204.60	10.958	9.262	1.665	21.885	30.000	8.115
	258.92	9.451	13.188	1.844	24.483	37.000	12.517
	403.45	4.154	16.450	2.418	23.022	37.000	13.978

TEST ENGINEER: Dio Yang
(DIO YANG)

5 DEVIATION TO TEST SPECIFICATIONS

None

6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

Name	Specifications (mm)	Manufacturer	Location
Conductive Clothe	8mm*12mm*9mm	Suzhou Yisipan Electronic Co.,Ltd	See Internal photos Figure 1, 7, 17
Conductive Clothe	40mm*23mm*1mm	Suzhou Yisipan Electronic Co.,Ltd	See Internal photos Figure 19
SILVER	70UM*30MM*50MM	Fuzhou Huibang Electronic Co.,Ltd	See Internal photos Figure 18