

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

LCD Monitor

Model No.: L204WTQ

Serial No.: E06062701

FCC ID : BEJL204WTQ

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-F06025
Date of Test : Jun 30-Jul 07, 2006
Date of Report : Jul 06, 2006

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TEST REPORT FOR FCC CERTIFICATE

Applicant : LG Electronics U.S.A Inc.
Manufacturer : Nanjing LG-Tontru Color Display System Co., Ltd.
EUT Description : LCD Monitor
(A) Model No. : L204WTQ
(B) Serial No. : E06062701
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B FEBRUARY 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: L204WTQ; S/N: E06062701) which was tested in 3m anechoic chamber on Jun 30-Jul 07, 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 : Jun 30-Jul 07, 2006

Prepared By:

Kathy Wang 2006.7.7
KATHY WANG/ Assistant

Reviewer:

 Chen 2006.7.07
For and on behalf of
SAOYU CHEN/ Deputy Assistant Manager
Audix Technology (Shanghai) Co., Ltd.

Approved Signatory:

Chen 2006.07.07
Authorized Signature(s)
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 / Test Item	Test Standard	Results	Meets Limit
EMISSION			
Conducted Disturbance At main terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B FEBRUARY 2006 AND ANSI C63.4-2003	Pass	15.107 Class B
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B FEBRUARY 2006 AND ANSI C63.4-2003	Pass	15.109 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.	:	L204WTQ
Serial No.	:	E06062701
Applicant	:	LG Electronics U.S.A Inc. 2000 Millbrook Dr.Lincolnshire, IL 60069 United States
Manufacturer	:	Nanjing LG-Tontru Color Display System Co., Ltd. No.346, Yao Xin Road, Nanjing, China
LCD Panel	:	Manufacturer: CHUNGHWA M/N : CLAA201WA03Q
D-Sub Cable	:	Shielded, Detachable, 1.8m, with two cores
DVI Cable	:	Shielded, Detachable, 1.8m with two cores
Power Cord	:	Unshielded, Detachable, 1.8m

Remark:

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

- (1) One Power Port
- (2) One D-Sub Input Port
- (3) One DVI Input Port

2.2 Supported Simulators

2.2.1 PC

Manufacturer	:	HP
Model Number	:	dx6120MT
CPU	:	CNG53004J2
Power Cable	:	Unshielded, detachable ,1.8m
Certificate	:	FCC DoC, VCCI, CE/EMC VCCI, C-Tick, CE/EMC MIC, C-Tick(N119)

2.2.2 Keyboard

Manufacturer	:	HP
Model Number	:	M-S69
Serial Number	:	334684-002
Data Cable	:	Unshielded ,undetachable, 1.85m
Certificate	:	FCC DoC, VCCI, CE/EMC, MIC, GS

2.2.3 Mouse

Manufacturer : HP
Model Number : KB-0316
Serial Number : 382641-AA1Sch
Data Cable : Unshielded ,undetachable, 1.85m
Certificate : FCC DoC, VCCI, CE/EMC, MIC, GS

2.2.4 Printer

Manufacturer : HP
Model Number : C4245-C
Serial Number : CNZQ085373
Data Cable : Unshielded, Detachable, 1.8m
Power Cord : Unshielded, Detachable, 1.8m
Certificate : FCC DoC

2.2.5 Modem

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

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on
August 15, 2003 Renewed
(Semi-Anechoic Chamber) 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, China 200233.
FCC registration Number : 91789
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

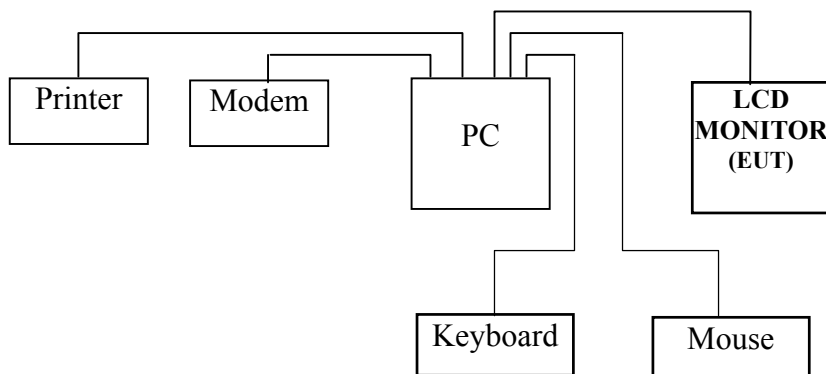
3.1 Test Equipment

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

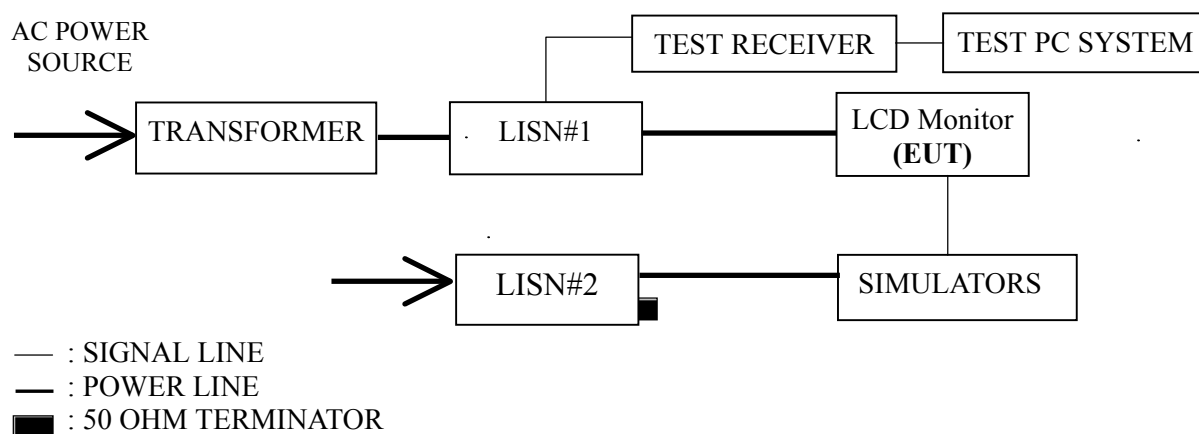
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESHS10	830223/007	Apr 08, 2006	Apr 08, 2007
2.	Line Impedance Stabilization Network (LISN#1)	Kyoritsu	KNW-407	8-1280-4	Apr 12, 2006	Apr 12, 2007
3.	Line Impedance Stabilization Network (LISN#2)	Kyoritsu	KNW-407	8-1280-5	Apr 13, 2006	Apr 13, 2007
4.	50Ω Coaxial Switch	ANRITSU	MP59B	6200426389	Mar 18, 2006	Sep 18, 2006
5.	50Ω Terminator	Anritsu	BNC	001	Apr 11, 2006	Apr 11, 2007
6.	Software	Audix	E3	SET00200 9804M592	--	--

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

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 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 720*480@60Hz	VGA 1280*720@60Hz	VGA 1440*900@60Hz	VGA 1680*1050@60Hz
DVI 720*480@60Hz	DVI 1280*720@60Hz	DVI 1440*900@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 (VA & VB) 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 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	Test Mode	Data Page
VGA 720*480@60Hz	P11	DVI 720*480@60Hz	P15
VGA 1280*720@60Hz	P12	DVI 1280*720@60Hz	P16
VGA 1440*900@60Hz	P13	DVI 1440*900@60Hz	P17
VGA 1680*1050@60Hz	P14	DVI 1680*1050@60Hz	P18

NOTE 1 - Factor = Cable Loss + LISN 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 VGA 720*480@60Hz mode. The worst emission is detected at 0.19 MHz with corrected signal level of 47.72 (μV) (limit is 63.84 dB (μV)), when the VA of the EUT is connected to LISN.

EUT : LCD Monitor Temperature : 28°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jul 07, 2006

Test Mode : VGA 720*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.19	46.95	0.77	47.72	63.84	16.12
	0.39	39.26	0.51	39.77	57.99	18.22
	0.59	35.34	0.45	35.79	56.00	20.21
	2.81	37.21	1.02	38.23	56.00	17.77
	9.50	39.96	0.39	40.35	60.00	19.65
	21.83	37.43	0.62	38.05	60.00	21.95
VB	0.19	45.98	0.76	46.74	63.84	17.10
	0.39	38.25	0.39	38.64	57.99	19.35
	0.88	34.67	0.28	34.95	56.00	21.05
	2.81	36.61	0.99	37.60	56.00	18.40
	5.71	38.45	0.33	38.78	60.00	21.22
	9.20	37.16	0.43	37.59	60.00	22.41

TEST ENGINEER:

Leo

(LEO XUE)

EUT : LCD Monitor Temperature : 28°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jul 04, 2006

Test Mode : VGA 1080*720@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.19	46.83	0.77	47.60	63.84	16.24
	0.39	39.26	0.51	39.77	57.99	18.22
	0.49	35.95	0.49	36.44	56.14	19.70
	3.60	37.53	0.72	38.25	56.00	17.75
	9.20	39.79	0.40	40.19	60.00	19.81
	27.86	38.85	0.69	39.54	60.00	20.46
VB	0.19	45.98	0.76	46.74	63.84	17.10
	0.39	38.00	0.39	38.39	57.99	19.60
	0.59	34.97	0.34	35.31	56.00	20.69
	2.81	36.34	0.99	37.33	56.00	18.67
	5.71	38.41	0.33	38.74	60.00	21.26
	9.20	36.73	0.43	37.16	60.00	22.84

TEST ENGINEER: Leo
(LEO XUE)

EUT : LCD Monitor Temperature : 28°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jul 04, 2006

Test Mode : VGA 1440*900@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.20	46.87	0.76	47.63	63.76	16.13
	0.39	39.18	0.51	39.69	57.99	18.30
	0.88	34.99	0.40	35.39	56.00	20.61
	3.40	37.10	0.79	37.89	56.00	18.11
	9.50	39.57	0.39	39.96	60.00	20.04
	27.86	38.77	0.69	39.46	60.00	20.54
VB	0.19	45.94	0.76	46.70	63.84	17.14
	0.39	38.16	0.39	38.55	57.99	19.44
	0.74	34.50	0.28	34.78	56.00	21.22
	2.81	36.56	0.99	37.55	56.00	18.45
	5.71	38.22	0.33	38.55	60.00	21.45
	10.29	36.74	0.44	37.18	60.00	22.82

TEST ENGINEER: Leo
(LEO XUE)

EUT : LCD Monitor Temperature : 28°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jul 04, 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)
VA	0.19	46.87	0.77	47.64	63.84	16.20
	0.39	39.32	0.51	39.83	57.99	18.16
	0.88	35.04	0.40	35.44	56.00	20.56
	3.60	36.96	0.72	37.68	56.00	18.32
	5.71	37.54	0.35	37.89	60.00	22.11
	25.19	36.29	0.63	36.92	60.00	23.08
VB	0.19	45.86	0.76	46.62	63.84	17.22
	0.39	38.00	0.39	38.39	57.99	19.60
	0.59	35.14	0.34	35.48	56.00	20.52
	2.81	36.38	0.99	37.37	56.00	18.63
	5.62	38.79	0.33	39.12	60.00	20.88
	9.20	36.04	0.43	36.47	60.00	23.53

TEST ENGINEER: Leo
(LEO XUE)

EUT : LCD Monitor Temperature : 28°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jul 04, 2006

Test Mode : DVI 720*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.19	46.59	0.77	47.36	63.84	16.48
	0.39	39.00	0.51	39.51	57.99	18.48
	0.88	34.77	0.40	35.17	56.00	20.83
	2.81	36.73	1.02	37.75	56.00	18.25
	10.56	40.37	0.40	40.77	60.00	19.23
	26.98	39.22	0.67	39.89	60.00	20.11
VB	0.20	45.79	0.76	46.55	63.76	17.21
	0.39	37.76	0.39	38.15	57.99	19.84
	0.88	34.49	0.28	34.77	56.00	21.23
	3.40	37.02	0.76	37.78	56.00	18.22
	5.71	39.99	0.33	40.32	60.00	19.68
	9.20	36.67	0.43	37.10	60.00	22.90

TEST ENGINEER: Leo
(LEO XUE)

EUT : LCD Monitor Temperature : 28°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jul 04, 2006

Test Mode : DVI 1280*720@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.20	46.71	0.76	47.47	63.76	16.29
	0.39	39.04	0.51	39.55	57.99	18.44
	0.59	35.36	0.45	35.81	56.00	20.19
	3.40	36.98	0.79	37.77	56.00	18.23
	9.50	39.78	0.39	40.17	60.00	19.83
	26.98	38.16	0.67	38.83	60.00	21.17
VB	0.19	45.92	0.76	46.68	63.84	17.16
	0.39	38.00	0.39	38.39	57.99	19.60
	0.88	34.65	0.28	34.93	56.00	21.07
	2.81	36.67	0.99	37.66	56.00	18.34
	5.71	39.08	0.33	39.41	60.00	20.59
	11.32	34.52	0.47	34.99	60.00	25.01

TEST ENGINEER: Leo
(LEO XUE)

EUT : LCD Monitor Temperature : 28°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jul 04, 2006

Test Mode : DVI 1440*900@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.19	45.87	0.77	46.64	63.84	17.20
	0.39	37.92	0.51	38.43	57.99	19.56
	0.88	34.57	0.40	34.97	56.00	21.03
	2.81	36.47	1.02	37.49	56.00	18.51
	5.71	39.81	0.35	40.16	60.00	19.84
	8.92	36.65	0.40	37.05	60.00	22.95
VB	0.19	45.84	0.76	46.60	63.84	17.24
	0.39	37.88	0.39	38.27	57.99	19.72
	0.88	34.77	0.28	35.05	56.00	20.95
	2.81	36.67	0.99	37.66	56.00	18.34
	5.62	38.45	0.33	38.78	60.00	21.22
	10.29	36.39	0.44	36.83	60.00	23.17

TEST ENGINEER: Leo
(LEO XUE)

EUT : LCD Monitor Temperature : 28°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jul 04, 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)
VA	0.19	46.77	0.77	47.54	63.84	16.30
	0.39	39.20	0.51	39.71	57.99	18.28
	0.88	34.83	0.40	35.23	56.00	20.77
	2.81	36.67	1.02	37.69	56.00	18.31
	5.62	38.55	0.35	38.90	60.00	21.10
	9.50	39.43	0.39	39.82	60.00	20.18
VB	0.20	45.93	0.76	46.69	63.76	17.07
	0.39	37.94	0.39	38.33	57.99	19.66
	0.59	34.95	0.34	35.29	56.00	20.71
	2.81	36.38	0.99	37.37	56.00	18.63
	5.62	39.18	0.33	39.51	60.00	20.49
	10.29	36.96	0.44	37.40	60.00	22.60

TEST ENGINEER: Leo
(LEO XUE)

4 RADIATED EMISSION TEST

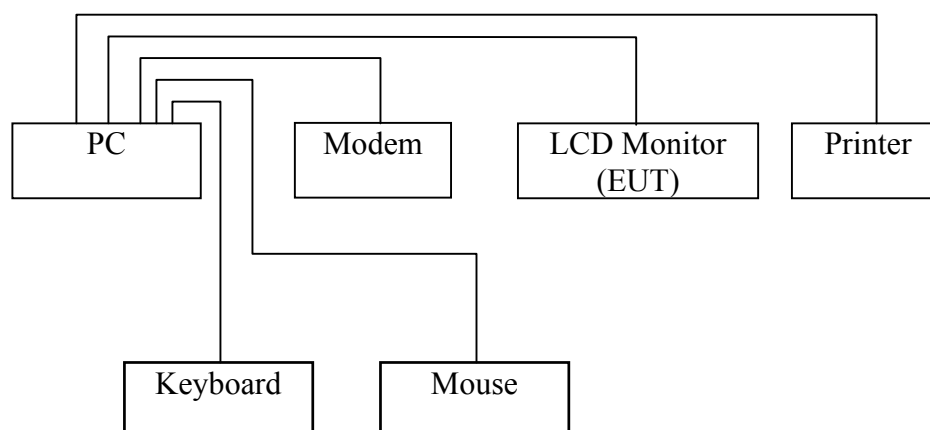
4.1 Test Equipment

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

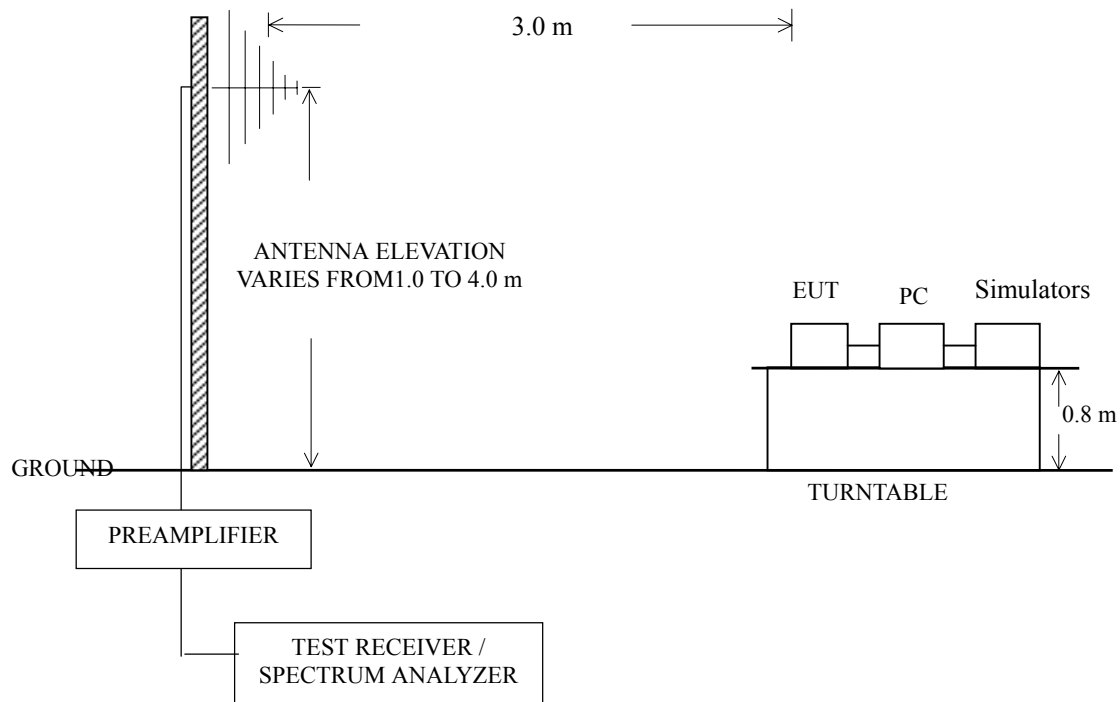
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3628A00167	Apr 18, 2006	Apr 18, 2007
2.	Bilog Antenna	Chase	CBL6111	1145	Mar 18, 2006	Sep 18, 2006
3.	Test Receiver	R&S	ESVS10	832699/004	Apr 08, 2006	Apr 08, 2007
4.	Preamplifier	HP	8447D	2944A10548	Mar 19, 2006	Sep 19, 2006
5.	Preamplifier	HP	8449B	3008A00864	Apr 18, 2006	Apr 18, 2007
6.	Horn Antenna	EMCO	3115	9607-4878	Apr 18, 2006	Apr 18, 2007
7.	50Ω Coaxial Switch	Anritsu	MP59B	6200426390	Mar 18, 2006	Sep 18, 2006
8.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT and simulators



4.2.2 Radiated emission test setup



4.3 Radiated Emission Limit

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 - On any frequencies above 1000MHz, there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated.

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 3 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 ESVS10 was set at 120 kHz.

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

The frequency range from 1 GHz to 2 GHz was checked for VGA 1440*900@60Hz, VGA 1680*1050@60Hz, DVI 1440*900@60Hz and DVI 1680*1050@60Hz modes.

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 720*480@60Hz	VGA 1280*720@60Hz	VGA 1440*900@60Hz	VGA 1680*1050@60Hz
DVI 720*480@60Hz	DVI 1280*720@60Hz	DVI 1440*900@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	Data Page	Test Mode	Data Page
VGA 720*480@60Hz	P23	DVI 720*480@60Hz	P29
VGA 1280*720@60Hz	P24	DVI 1280*720@60Hz	P30
VGA 1440*900@60Hz	P25 – P26	DVI 1440*900@60Hz	P31 – P32
VGA 1680*1050@60Hz	P27 – P28	DVI 1680*1050@60Hz	P33 – P34

NOTE 1 - Emission Level = Meter Reading + Factor.

NOTE 2 - Factor = Antenna Factor + Cable Loss - Preamp Factor.

NOTE 3 - The readings that below 1000 MHz are Quasi-Peak values, above 1000 MHz are average values.

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

NOTE 5 - The worst case is for DVI 720*480@60Hz mode. The worst emission at horizontal polarization was detected at 701.24 MHz with corrected signal level of 42.60 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.13 m height and the turntable was at 143°. The worst emission at vertical polarization was detected at 322.94 MHz with corrected signal level of 41.54 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.30 m height and the turntable was at 320°.

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : VGA 720*480@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	67.83	42.94	7.60	1.49	28.03	24.00	40.00	16.00
	135.73	43.70	11.21	2.03	27.84	29.10	43.50	14.40
	286.08	37.36	14.46	3.09	27.27	27.64	46.00	18.36
	405.39	41.98	17.82	3.75	28.09	35.46	46.00	10.54
	473.29	43.51	19.47	4.02	28.54	38.46	46.00	7.54
	803.09	37.34	23.20	5.44	28.37	37.61	46.00	8.39
Vertical	30.97	43.60	16.30	0.98	28.14	32.74	40.00	7.26
	94.99	46.00	8.45	1.69	28.00	28.14	43.50	15.36
	281.23	42.77	14.32	3.07	27.27	32.89	46.00	13.11
	334.58	41.43	15.91	3.38	27.56	33.16	46.00	12.84
	402.48	42.49	17.71	3.73	28.06	35.87	46.00	10.13
	468.44	47.15	19.36	4.00	28.51	42.00	46.00	4.00

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : VGA 1280*720@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	67.83	43.90	7.60	1.49	28.03	24.96	40.00	15.04
	135.73	45.49	11.21	2.03	27.84	30.89	43.50	12.61
	240.49	41.16	13.24	2.79	27.31	29.88	46.00	16.12
	329.73	40.16	15.77	3.36	27.53	31.76	46.00	14.24
	405.39	41.75	17.82	3.75	28.09	35.23	46.00	10.77
	473.29	41.74	19.47	4.02	28.54	36.69	46.00	9.31
Vertical	31.94	44.70	15.72	0.99	28.13	33.28	40.00	6.72
	65.89	51.83	7.44	1.46	28.04	32.69	40.00	7.31
	94.99	50.09	8.45	1.69	28.00	32.23	43.50	11.27
	169.68	44.08	11.37	2.28	27.67	30.06	43.50	13.44
	329.73	45.20	15.77	3.36	27.53	36.80	46.00	9.20
	475.23	46.43	19.51	4.04	28.55	41.43	46.00	4.57

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : VGA 1440*900@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	67.83	43.18	7.60	1.49	28.03	24.24	40.00	15.76
	145.43	44.84	10.88	2.10	27.79	30.03	43.50	13.47
	187.14	45.98	11.94	2.40	27.58	32.74	43.50	10.76
	288.99	44.44	14.54	3.11	27.27	34.82	46.00	11.18
	405.39	42.19	17.82	3.75	28.09	35.67	46.00	10.33
	473.29	43.09	19.47	4.02	28.54	38.04	46.00	7.96
Vertical	31.94	44.98	15.72	0.99	28.13	33.56	40.00	6.44
	51.34	51.30	8.08	1.18	28.08	32.48	40.00	7.52
	94.99	47.17	8.45	1.69	28.00	29.31	43.50	14.19
	187.14	46.77	11.94	2.40	27.58	33.53	43.50	9.97
	332.64	46.49	15.84	3.38	27.55	38.16	46.00	7.84
	470.38	44.73	19.39	4.02	28.52	39.62	46.00	6.38

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : VGA 1440*900@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	1052.00	45.63	24.36	6.79	37.55	39.23	54.00	14.77	AV
	1154.00	45.21	24.83	7.01	37.28	39.77	54.00	14.23	
	1369.00	44.41	25.69	7.84	36.79	41.15	54.00	12.85	
	1482.00	46.33	26.08	8.35	36.57	44.19	54.00	9.81	
	1754.00	44.00	26.93	9.24	36.07	44.10	54.00	9.90	
	1852.00	43.60	27.21	9.48	35.92	44.37	54.00	9.63	
Vertical	1067.00	48.96	24.42	6.82	37.51	42.69	54.00	11.31	AV
	1079.00	48.24	24.48	6.85	37.48	42.09	54.00	11.91	
	1444.00	46.56	25.95	8.18	36.64	44.05	54.00	9.95	
	1524.00	50.22	26.23	8.5	36.48	48.47	54.00	5.53	
	1592.00	49.95	26.45	8.71	36.36	48.75	54.00	5.25	
	1992.00	46.03	27.57	9.90	35.71	47.79	54.00	6.21	

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : VGA 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	111.48	50.31	10.79	1.83	27.94	34.99	43.50	8.51
	143.49	47.48	10.94	2.08	27.80	32.70	43.50	10.80
	184.23	47.88	11.85	2.39	27.59	34.53	43.50	8.97
	284.14	45.69	14.41	3.09	27.27	35.92	46.00	10.08
	465.53	42.52	19.28	4.00	28.49	37.31	46.00	8.69
	943.74	35.65	23.82	5.94	28.00	37.41	46.00	8.59
Vertical	30.97	44.27	16.30	0.98	28.14	33.41	40.00	6.59
	65.89	50.94	7.44	1.46	28.04	31.80	40.00	8.20
	111.48	52.35	10.79	1.83	27.94	37.03	43.50	6.47
	184.23	48.43	11.85	2.39	27.59	35.08	43.50	8.42
	329.73	48.73	15.77	3.36	27.53	40.33	46.00	5.67
	473.29	42.41	19.47	4.02	28.54	37.36	46.00	8.64

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : VGA 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	1047.00	46.13	24.33	6.79	37.57	39.68	54.00	14.32	AV
	1142.00	45.07	24.77	6.98	37.32	39.50	54.00	14.50	
	1329.00	44.15	25.53	7.66	36.88	40.46	54.00	13.54	
	1479.00	46.75	26.07	8.35	36.57	44.60	54.00	9.40	
	1727.00	44.09	26.86	9.07	36.12	43.90	54.00	10.10	
	1957.00	42.79	27.48	9.81	35.76	44.32	54.00	9.68	
Vertical	1089.00	47.17	24.52	6.89	37.46	41.12	54.00	12.88	AV
	1274.00	44.78	25.33	7.41	37.00	40.52	54.00	13.48	
	1459.00	47.84	26.01	8.26	36.61	45.50	54.00	8.50	
	1479.00	48.70	26.07	8.35	36.57	46.55	54.00	7.45	
	1792.00	44.62	27.05	9.32	36.01	44.98	54.00	9.02	
	1995.00	47.00	27.59	9.90	35.70	48.79	54.00	5.21	

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : DVI 720*480@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)
Horizontal	143.49	47.97	10.94	2.08	27.80	33.19	43.50	10.31
	247.28	48.85	13.38	2.83	27.28	37.78	46.00	8.22
	284.14	50.93	14.41	3.09	27.27	41.16	46.00	4.84
	387.93	47.45	17.36	3.65	27.96	40.50	46.00	5.50
	478.14	43.53	19.58	4.04	28.57	38.58	46.00	7.42
	701.24	44.50	21.74	4.98	28.62	42.60	46.00	3.40
Vertical	30.97	45.46	16.30	0.98	28.14	34.60	40.00	5.40
	65.89	49.83	7.44	1.46	28.04	30.69	40.00	9.31
	143.49	44.53	10.94	2.08	27.80	29.75	43.50	13.75
	286.08	49.27	14.46	3.09	27.27	39.55	46.00	6.45
	322.94	50.12	15.56	3.33	27.47	41.54	46.00	4.46
	475.23	44.86	19.51	4.04	28.55	39.86	46.00	6.14

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : DVI 1280*720@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	114.39	43.30	10.98	1.85	27.92	28.21	43.50	15.29
	143.49	49.41	10.94	2.08	27.80	34.63	43.50	8.87
	218.18	47.29	12.77	2.63	27.42	35.27	46.00	10.73
	284.14	50.24	14.41	3.09	27.27	40.47	46.00	5.53
	465.53	42.68	19.28	4.00	28.49	37.47	46.00	8.53
	701.24	42.15	21.74	4.98	28.62	40.25	46.00	5.75
Vertical	30.97	45.82	16.30	0.98	28.14	34.96	40.00	5.04
	65.89	49.85	7.44	1.46	28.04	30.71	40.00	9.29
	143.49	47.62	10.94	2.08	27.80	32.84	43.50	10.66
	286.08	50.16	14.46	3.09	27.27	40.44	46.00	5.56
	320.03	47.15	15.46	3.31	27.44	38.48	46.00	7.52
	465.53	44.04	19.28	4.00	28.49	38.83	46.00	7.17

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : DVI 1440*900@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	143.49	49.22	10.94	2.08	27.80	34.44	43.50	9.06
	208.48	46.61	12.55	2.55	27.47	34.24	43.50	9.26
	247.28	46.37	13.38	2.83	27.28	35.30	46.00	10.70
	286.08	50.51	14.46	3.09	27.27	40.79	46.00	5.21
	473.29	44.61	19.47	4.02	28.54	39.56	46.00	6.44
	701.24	43.00	21.74	4.98	28.62	41.10	46.00	4.90
Vertical	30.97	46.06	16.30	0.98	28.14	35.20	40.00	4.80
	65.89	52.68	7.44	1.46	28.04	33.54	40.00	6.46
	143.49	46.87	10.94	2.08	27.80	32.09	43.50	11.41
	286.08	50.16	14.46	3.09	27.27	40.44	46.00	5.56
	322.94	48.36	15.56	3.33	27.47	39.78	46.00	6.22
	468.44	44.48	19.36	4.00	28.51	39.33	46.00	6.67

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : DVI 1440*900@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)	Remark
Horizontal	1054.00	44.46	24.36	6.79	37.54	38.07	54.00	15.93	AV
	1163.00	44.00	24.86	7.01	37.27	38.60	54.00	15.40	
	1300.00	43.12	25.43	7.58	36.94	39.19	54.00	14.81	
	1456.00	43.90	26.00	8.26	36.62	41.54	54.00	12.46	
	1607.00	43.17	26.49	8.71	36.33	42.04	54.00	11.96	
	1782.00	42.84	27.02	9.32	36.03	43.15	54.00	10.85	
Vertical	1020.00	44.91	24.20	6.73	37.64	38.20	54.00	15.80	AV
	1107.00	44.12	24.61	6.92	37.41	38.24	54.00	15.76	
	1235.00	43.66	25.16	7.24	37.09	38.97	54.00	15.03	
	1437.00	43.42	25.92	8.18	36.65	40.87	54.00	13.13	
	1697.00	43.43	26.77	8.99	36.17	43.02	54.00	10.98	
	1832.00	42.53	27.15	9.48	35.95	43.21	54.00	10.79	

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

Test Mode : DVI 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	143.49	47.66	10.94	2.08	27.80	32.88	43.50	10.62
	196.84	46.89	12.24	2.47	27.53	34.07	43.50	9.43
	284.14	45.13	14.41	3.09	27.27	35.36	46.00	10.64
	468.44	44.11	19.36	4.00	28.51	38.96	46.00	7.04
	504.33	43.90	20.03	4.16	28.70	39.39	46.00	6.61
	701.24	43.21	21.74	4.98	28.62	41.31	46.00	4.69
Vertical	30.97	46.03	16.30	0.98	28.14	35.17	40.00	4.83
	96.93	46.27	9.02	1.7	28.00	28.99	43.50	14.51
	286.08	46.28	14.46	3.09	27.27	36.56	46.00	9.44
	332.64	48.73	15.84	3.38	27.55	40.40	46.00	5.60
	475.23	44.47	19.51	4.04	28.55	39.47	46.00	6.53

TEST ENGINEER: Season Yang
(SEASON YANG)

EUT : LCD Monitor Temperature : 22°C

Model No. : L204WTQ Humidity : 60%

Serial No. : E06062701 Date of Test : Jun 30, 2006

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	1024.00	45.30	24.22	6.73	37.63	38.62	54.00	15.38	AV
	1104.00	44.49	24.60	6.92	37.41	38.60	54.00	15.40	
	1235.00	43.69	25.16	7.24	37.09	39.00	54.00	15.00	
	1337.00	43.39	25.56	7.75	36.86	39.84	54.00	14.16	
	1593.00	43.40	26.45	8.71	36.36	42.20	54.00	11.80	
	1885.00	41.79	27.29	9.57	35.86	42.79	54.00	11.21	
Vertical	1040.00	44.53	24.30	6.76	37.59	38.00	54.00	16.00	AV
	1177.00	44.00	24.92	7.04	37.23	38.73	54.00	15.27	
	1266.00	43.25	25.30	7.41	37.02	38.94	54.00	15.06	
	1414.00	43.46	25.85	8.09	36.70	40.70	54.00	13.30	
	1550.00	43.31	26.32	8.57	36.44	41.76	54.00	12.24	
	1692.00	41.99	26.75	8.99	36.18	41.55	54.00	12.45	

TEST ENGINEER: Season Yang
(SEASON YANG)

5 DEVIATION TO TEST SPECIFICATIONS

None

6 DEBUG DESCRIPTION

Name	M/N:	Specifications (mm)	Manufacturer	Location
AL-tape	T-308	30*50	Fuzhou Huibang ELECTRONIC Corp.	See Appendix II Figure 7, 8, 9, 10
Conductive Gasket	3940TKK122	80*10*3	EXPAN	See Appendix II Figure 10