

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

LCD Monitor

Model No.: L194WTM, L194WT

Serial No.: 604NTRL5F238

FCC ID : BEJL194WTM

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-F06018  
Date of Test : May 08-12, 2006  
Date of Report : May 14, 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. : L194WTM, L194WT  
(B) Serial No. : 604NTRL5F238  
(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: L194WTM, L194WT; S/N: 604NTRL5F238) which was tested in 3m anechoic chamber on May 08-12, 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 :

May 08-12, 2006

Prepared By:

Kathy Wang 2006.5.15  
KATHY WANG/ Assistant

Reviewer:

Chen 2006.5.15  
**AUDIX** Test and on behalf of  
Audix Technology (Shanghai) Co., Ltd.  
Supervisor

Approved Signatory:

Byron Kwo 15 May/06  
.....BYRON KWO.....Manager.....  
Authorized Signature(s)

# 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       |
|-------------------------------------------|-------------------------------------------------------------------------------------|---------|-------------------|
| <b>EMISSION</b>                           |                                                                                     |         |                   |
| Conducted Disturbance<br>At main terminal | FCC RULES AND REGULATIONS PART<br>15 SUBPART B FEBRUARY 2006<br>AND ANSI C63.4-2003 | Pass    | 15.107<br>Class B |
| Radiated Disturbance                      | FCC RULES AND REGULATIONS PART<br>15 SUBPART B FEBRUARY 2006<br>AND ANSI C63.4-2003 | Pass    | 15.109<br>Class B |

## 2 GENERAL INFORMATION

### 2.1 Description of Equipment Under Test

|              |   |                                                                                                                                                            |
|--------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description  | : | LCD Monitor                                                                                                                                                |
| Type of EUT  | : | <input checked="" type="checkbox"/> Production <input type="checkbox"/> Pre-product <input type="checkbox"/> Pro-type                                      |
| Model No.    | : | L194WTM, L194WT                                                                                                                                            |
| Serial No.   | : | 604NTRL5F238                                                                                                                                               |
| Note         | : | The above two models are one series, L194WTM has speaker while L194WT hasn't. The others are all the same. The data of L194WTM are recorded in the report. |
| Applicant    | : | LG Electronics U.S.A Inc.<br>2000 Millbrook Dr.Lincolnshire,<br>IL 60069 United States                                                                     |
| Manufacturer | : | Nanjing LG-Tontru Color Display System<br>Co., Ltd.<br>No.346, Yao Xin Road, Nanjing, China                                                                |
| LCD Panel    | : | Manufacturer: HannStar Display Corporation<br>M/N : HDS190MGN1                                                                                             |
| D-Sub Cable  | : | Shielded, Detachable, 1.8m, with two cores                                                                                                                 |
| DVI Cable    | : | Shielded, Detachable, 1.8m with two cores                                                                                                                  |

**Remark:**

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

Back View:

- (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<br>VCCI, C-Tick, CE/EMC<br>MIC, C-Tick(N119) |

### 2.2.2 Keyboard

Manufacturer : Logitech  
Model Number : KB-0133  
Serial Number : 323686-AA1  
Data Cable : Unshielded, Undetachable, 1.9m  
Certificate : FCC DoC, VCCI, CE/EMC  
MIC, C-Tick(N119)

### 2.2.3 Mouse

Manufacturer : Logitech  
Model Number : M-S69  
Serial Number : 323614-001  
Data Cable : Unshielded ,Undetachable, 1.85m.  
Certificate : FCC ID:JNZ21-1443, VCCI, CE-EMC,  
MIC, C-Tick(N231)

### 2.2.4 Printer

Manufacturer : HP  
Model Number : C3990A  
Serial Number : JPZX020487  
Data Cable : Unshielded, Detachable, 1.5m  
Power Cord : Unshielded, Detachable, 1.8m  
Certificate : 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 Earphone

## 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:  $U = 1.84\text{dB}$

Radiated Emission Expanded Uncertainty :  $U = 2.96\text{dB}$

### 3 CONDUCTED EMISSION TEST

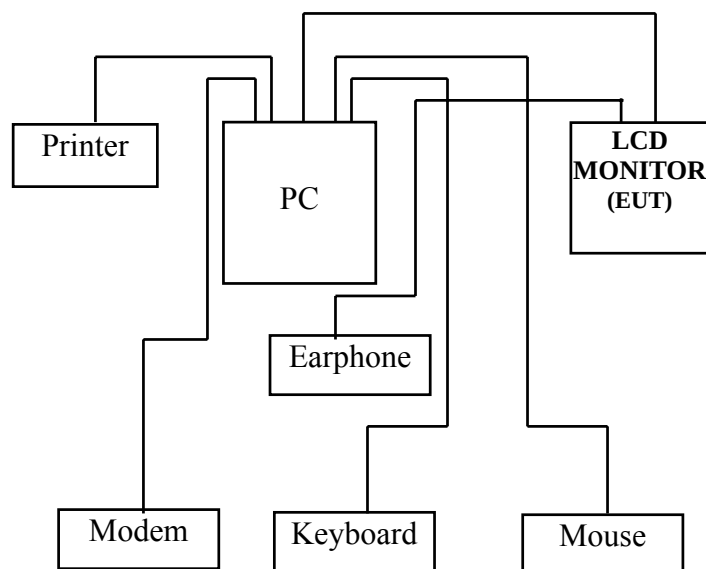
#### 3.1 Test Equipment

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    | 844077/020           | Feb 17, 2006 | Feb 17, 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                                | --           | BNC       | 001                  | Apr 11, 2006 | Apr 11, 2007 |
| 6.   | Software                                      | Audix        | E3        | SET00200<br>9804M592 | --           | --           |

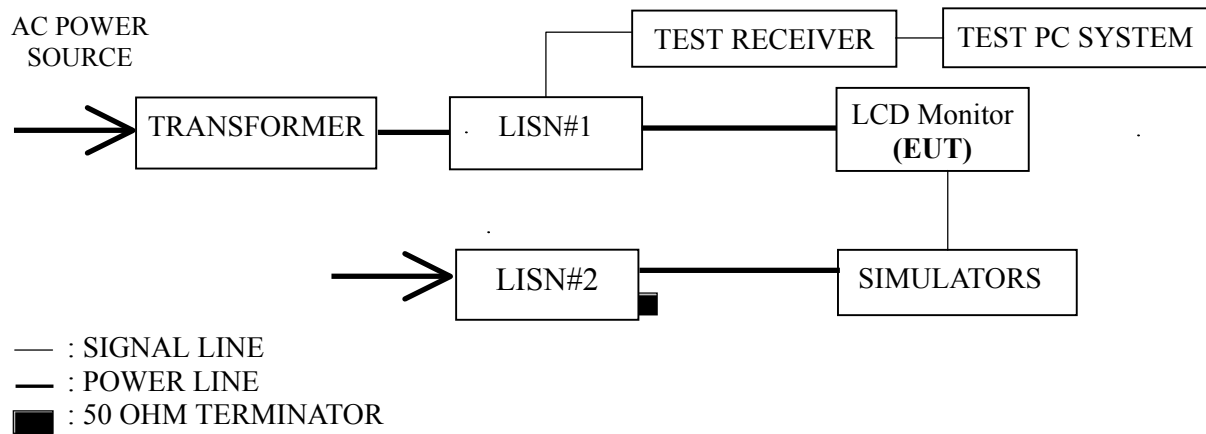
#### 3.2 Block Diagram of Test Setup

##### 3.2.1 EUT & Supported Simulators





### 3.2.2 Conducted Disturbance Test Setup



### 3.3 Conducted Emission Limit

| Frequency Range<br>(MHz) | Limits dB ( $\mu$ 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 800*600@60Hz | VGA 1024*768@75Hz | VGA 1280*1024@75Hz |
| DVI 800*600@60Hz | DVI 1024*768@75Hz | DVI 1280*1024@75Hz |

### 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.

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 800\*600@60Hz mode. The worst emission is detected at 3.55 MHz with corrected signal level of 43.55 (μV) (limit is 56.00 dB (μV)), when the VB of the EUT is connected to LISN.

EUT : LCD Monitor Temperature : 22°C

Model No. : L194WTM Humidity : 50%

Serial No. : 604NTRL5F238 Date of Test : May 10, 2006

Test Mode : VGA 800\*600@60Hz

| Test Line | Frequency<br>(MHz) | Meter Reading<br>dB(μV) | Factor<br>(dB) | Emission Level<br>dB(μV) | Limits<br>dB(μV) | Margin<br>(dB) |
|-----------|--------------------|-------------------------|----------------|--------------------------|------------------|----------------|
| VA        | 0.15               | 42.91                   | 0.77           | 43.68                    | 65.96            | 22.28          |
|           | 0.21               | 40.93                   | 0.56           | 41.49                    | 63.05            | 21.56          |
|           | 0.57               | 35.37                   | 0.45           | 35.82                    | 56.00            | 20.18          |
|           | 1.42               | 41.96                   | 0.37           | 42.33                    | 56.00            | 13.67          |
|           | 2.20               | 39.78                   | 0.34           | 40.12                    | 56.00            | 15.88          |
|           | 3.55               | 41.43                   | 0.36           | 41.79                    | 56.00            | 14.21          |
| VB        | 0.15               | 43.52                   | 0.74           | 44.26                    | 66.00            | 21.74          |
|           | 0.21               | 40.27                   | 0.55           | 40.82                    | 63.10            | 22.28          |
|           | 0.36               | 37.82                   | 0.38           | 38.20                    | 58.78            | 20.58          |
|           | 0.57               | 40.45                   | 0.34           | 40.79                    | 56.00            | 15.21          |
|           | 1.42               | 41.25                   | 0.29           | 41.54                    | 56.00            | 14.46          |
|           | <b>3.55</b>        | <b>43.22</b>            | <b>0.33</b>    | <b>43.55</b>             | <b>56.00</b>     | <b>12.45</b>   |

TEST ENGINEER: Sky Shi  
(SKY SHI)

EUT : LCD Monitor Temperature : 22°C

Model No. : L194WTM Humidity : 50%

Serial No. : 604NTRL5F238 Date of Test : May 08, 2006

Test Mode : VGA 1024\*768@75Hz

| Test Line | Frequency<br>(MHz) | Meter Reading<br>dB(μV) | Factor<br>(dB) | Emission Level<br>dB(μV) | Limits<br>dB(μV) | Margin<br>(dB) |
|-----------|--------------------|-------------------------|----------------|--------------------------|------------------|----------------|
| VA        | 0.15               | 43.04                   | 0.77           | 43.81                    | 66.00            | 22.19          |
|           | 0.21               | 40.64                   | 0.56           | 41.20                    | 63.18            | 21.98          |
|           | 0.57               | 35.03                   | 0.45           | 35.48                    | 56.00            | 20.52          |
|           | 1.42               | 42.29                   | 0.37           | 42.66                    | 56.00            | 13.34          |
|           | 3.55               | 41.65                   | 0.36           | 42.01                    | 56.00            | 13.99          |
|           | 6.02               | 40.16                   | 0.39           | 40.55                    | 60.00            | 19.45          |
| VB        | 0.15               | 43.40                   | 0.74           | 44.14                    | 65.96            | 21.82          |
|           | 0.21               | 40.37                   | 0.55           | 40.92                    | 63.05            | 22.13          |
|           | 0.35               | 37.17                   | 0.38           | 37.55                    | 58.87            | 21.32          |
|           | 0.57               | 40.41                   | 0.34           | 40.75                    | 56.00            | 15.25          |
|           | 1.42               | 42.54                   | 0.29           | 42.83                    | 56.00            | 13.17          |
|           | <b>3.68</b>        | <b>42.58</b>            | <b>0.33</b>    | <b>42.91</b>             | <b>56.00</b>     | <b>13.09</b>   |

TEST ENGINEER: Sky Shi  
(SKY SHI)

EUT : LCD Monitor Temperature : 22°C

Model No. : L194WTM Humidity : 50%

Serial No. : 604NTRL5F238 Date of Test : May 08, 2006

Test Mode : VGA 1280\*1024@75Hz

| Test Line | Frequency<br>(MHz) | Meter Reading<br>dB(μV) | Factor<br>(dB) | Emission Level<br>dB(μV) | Limits<br>dB(μV) | Margin<br>(dB) |
|-----------|--------------------|-------------------------|----------------|--------------------------|------------------|----------------|
| VA        | 0.15               | 42.01                   | 0.77           | 42.78                    | 65.96            | 23.18          |
|           | 0.21               | 41.19                   | 0.56           | 41.75                    | 63.05            | 21.30          |
|           | 0.29               | 30.74                   | 0.50           | 31.24                    | 60.63            | 29.39          |
|           | 1.42               | 42.43                   | 0.37           | 42.80                    | 56.00            | 13.20          |
|           | 3.55               | 41.87                   | 0.36           | 42.23                    | 56.00            | 13.77          |
|           | 5.65               | 34.30                   | 0.39           | 34.69                    | 60.00            | 25.31          |
| VB        | 0.15               | 43.66                   | 0.76           | 44.42                    | 65.87            | 21.45          |
|           | 0.21               | 40.39                   | 0.56           | 40.95                    | 63.05            | 22.10          |
|           | 0.57               | 40.39                   | 0.45           | 40.84                    | 56.00            | 15.16          |
|           | <b>1.42</b>        | <b>42.56</b>            | <b>0.37</b>    | <b>42.93</b>             | <b>56.00</b>     | <b>13.07</b>   |
|           | 3.68               | 41.25                   | 0.36           | 41.61                    | 56.00            | 14.39          |
|           | 5.65               | 36.71                   | 0.39           | 37.10                    | 60.00            | 22.90          |

TEST ENGINEER: Sky Shi  
(SKY SHI)

EUT : LCD Monitor Temperature : 22°C

Model No. : L194WTM Humidity : 50%

Serial No. : 604NTRL5F238 Date of Test : May 08, 2006

Test Mode : DVI 800\*600@60Hz

| Test Line | Frequency<br>(MHz) | Meter Reading<br>dB(μV) | Factor<br>(dB) | Emission Level<br>dB(μV) | Limits<br>dB(μV) | Margin<br>(dB) |
|-----------|--------------------|-------------------------|----------------|--------------------------|------------------|----------------|
| VA        | 0.15               | 42.41                   | 0.76           | 43.17                    | 65.87            | 22.70          |
|           | 0.21               | 40.17                   | 0.56           | 40.73                    | 63.10            | 22.37          |
|           | 0.57               | 35.71                   | 0.45           | 36.16                    | 56.00            | 19.84          |
|           | 1.42               | 41.10                   | 0.37           | 41.47                    | 56.00            | 14.53          |
|           | 3.55               | 41.03                   | 0.36           | 41.39                    | 56.00            | 14.61          |
|           | 15.55              | 35.48                   | 0.49           | 35.97                    | 60.00            | 24.03          |
| VB        | 0.15               | 42.72                   | 0.74           | 43.46                    | 65.96            | 22.50          |
|           | 0.21               | 39.74                   | 0.55           | 40.29                    | 63.10            | 22.81          |
|           | 0.35               | 37.25                   | 0.38           | 37.63                    | 58.87            | 21.24          |
|           | 0.57               | 40.06                   | 0.34           | 40.40                    | 56.00            | 15.60          |
|           | 1.42               | 42.15                   | 0.29           | 42.44                    | 56.00            | 13.56          |
|           | <b>3.55</b>        | <b>42.86</b>            | <b>0.33</b>    | <b>43.19</b>             | <b>56.00</b>     | <b>12.81</b>   |

TEST ENGINEER: Sky Shi  
(SKY SHI)

EUT : LCD Monitor Temperature : 22°C

Model No. : L194WTM Humidity : 50%

Serial No. : 604NTRL5F238 Date of Test : May 08, 2006

Test Mode : DVI 1024\*768@75Hz

| Test Line | Frequency<br>(MHz) | Meter Reading<br>dB(μV) | Factor<br>(dB) | Emission Level<br>dB(μV) | Limits<br>dB(μV) | Margin<br>(dB) |
|-----------|--------------------|-------------------------|----------------|--------------------------|------------------|----------------|
| VA        | 0.15               | 42.79                   | 0.77           | 43.56                    | 65.96            | 22.40          |
|           | 0.21               | 40.97                   | 0.56           | 41.53                    | 63.05            | 21.52          |
|           | 0.29               | 31.74                   | 0.50           | 32.24                    | 60.63            | 28.39          |
|           | 0.57               | 35.55                   | 0.45           | 36.00                    | 56.00            | 20.00          |
|           | 1.42               | 41.10                   | 0.37           | 41.47                    | 56.00            | 14.53          |
|           | 3.55               | 41.23                   | 0.36           | 41.59                    | 56.00            | 14.41          |
| VB        | 0.15               | 42.90                   | 0.74           | 43.64                    | 66.00            | 22.36          |
|           | 0.21               | 39.33                   | 0.55           | 39.88                    | 63.10            | 23.22          |
|           | 0.35               | 38.45                   | 0.38           | 38.83                    | 58.87            | 20.04          |
|           | 0.57               | 40.20                   | 0.34           | 40.54                    | 56.00            | 15.46          |
|           | 1.42               | 42.56                   | 0.29           | 42.85                    | 56.00            | 13.15          |
|           | <b>2.20</b>        | <b>42.58</b>            | <b>0.31</b>    | <b>42.89</b>             | <b>56.00</b>     | <b>13.11</b>   |

TEST ENGINEER: Sky Shi  
(SKY SHI)

EUT : LCD Monitor Temperature : 22°C

Model No. : L194WTM Humidity : 50%

Serial No. : 604NTRL5F238 Date of Test : May 08, 2006

Test Mode : DVI 1280\*1024@75Hz

| Test Line | Frequency<br>(MHz) | Meter Reading<br>dB(μV) | Factor<br>(dB) | Emission Level<br>dB(μV) | Limits<br>dB(μV) | Margin<br>(dB) |
|-----------|--------------------|-------------------------|----------------|--------------------------|------------------|----------------|
| VA        | 0.15               | 42.41                   | 0.77           | 43.18                    | 66.00            | 22.82          |
|           | 0.21               | 41.04                   | 0.56           | 41.60                    | 63.10            | 21.50          |
|           | 0.57               | 35.37                   | 0.45           | 35.82                    | 56.00            | 20.18          |
|           | 1.14               | 37.94                   | 0.40           | 38.34                    | 56.00            | 17.66          |
|           | 1.42               | 41.30                   | 0.37           | 41.67                    | 56.00            | 14.33          |
|           | 3.55               | 41.13                   | 0.36           | 41.49                    | 56.00            | 14.51          |
| VB        | 0.15               | 42.05                   | 0.74           | 42.79                    | 65.96            | 23.17          |
|           | 0.21               | 39.52                   | 0.55           | 40.07                    | 63.18            | 23.11          |
|           | 0.57               | 40.39                   | 0.34           | 40.73                    | 56.00            | 15.27          |
|           | 1.42               | 42.35                   | 0.29           | 42.64                    | 56.00            | 13.36          |
|           | 2.20               | 42.48                   | 0.31           | 42.79                    | 56.00            | 13.21          |
|           | <b>3.68</b>        | <b>43.15</b>            | <b>0.33</b>    | <b>43.48</b>             | <b>56.00</b>     | <b>12.52</b>   |

TEST ENGINEER: Sky Shi  
(SKY SHI)



## 4 RADIATED EMISSION TEST

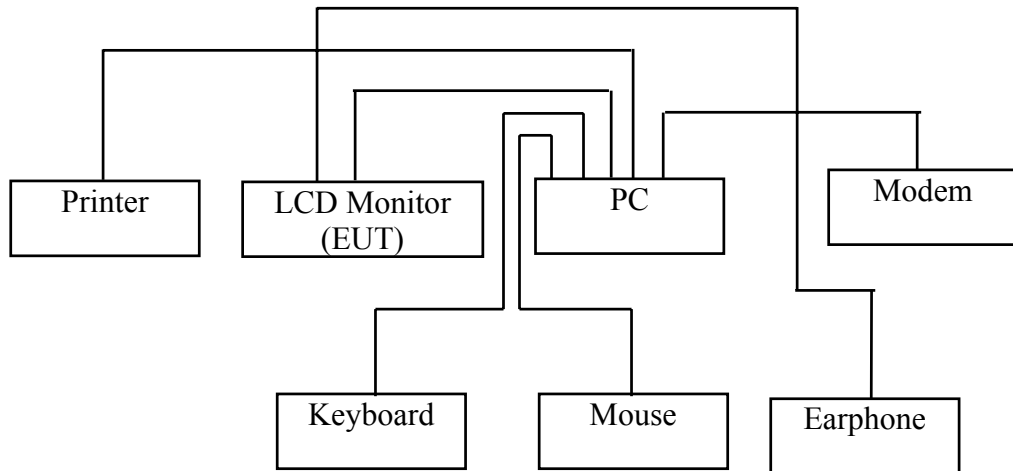
### 4.1 Test Equipment

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

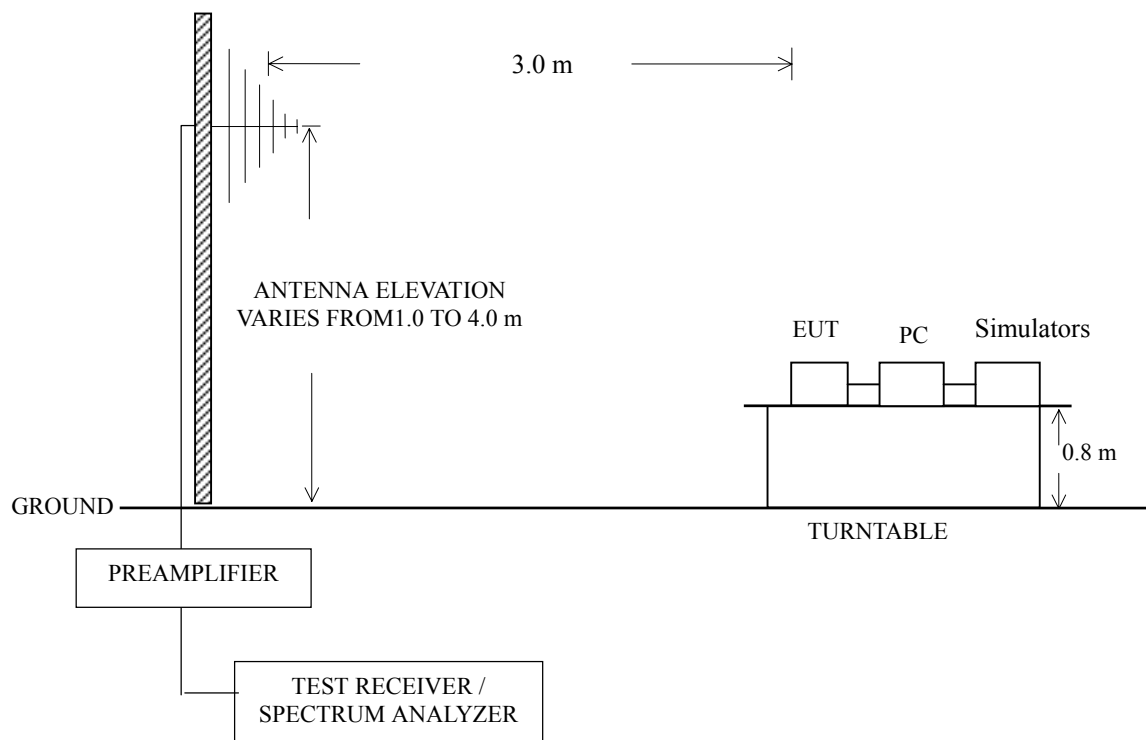
| Item | Type               | Manufacturer | Model No. | Serial No.             | Last Cal.    | Next Cal.    |
|------|--------------------|--------------|-----------|------------------------|--------------|--------------|
| 1.   | Spectrum Analyzer  | HP           | 8593EM    | 3628A00167             | Apr 18, 2006 | Apr 18, 2007 |
| 2.   | Bilog Antenna      | Chase        | CBL6111   | 1146                   | Mar 18, 2006 | Sep 18, 2006 |
| 3.   | Test Receiver      | R&S          | ESVS10    | 844594/001             | Apr 18, 2006 | Apr 18, 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<br>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 1280\*1024@75Hz and DVI 1280\*1024@75Hz 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 800*600@60Hz | VGA 1024*768@75Hz | VGA 1280*1024@75Hz |
| DVI 800*600@60Hz | DVI 1024*768@75Hz | DVI 1280*1024@75Hz |

#### 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.

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 peak 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 1280\*1024@75Hz mode. The worst emission at horizontal polarization was detected at 674.08 MHz with corrected signal level of 39.12 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.42 m height and the turntable was at 210°. The worst emission at vertical polarization was detected at 674.08 MHz with corrected signal level of 40.07 dB (μV/m) (limit is 46.00 dB (μV/m)), when the antenna was 1.40 m height and the turntable was at 38°.

EUT : LCD Monitor Temperature : 23°C

Model No. : L194WTM Humidity : 60%

Serial No. : 604NTRL5F238 Date of Test : May 11, 2006

Test Mode : VGA 800\*600@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   | 92.08           | 43.42                 | 8.16                  | 1.58            | 28.48              | 24.68                    | 43.50            | 18.82        |
|              | 138.64          | 40.79                 | 11.43                 | 1.98            | 28.20              | 26.00                    | 43.50            | 17.50        |
|              | 250.19          | 36.78                 | 15.06                 | 2.70            | 27.70              | 26.84                    | 46.00            | 19.16        |
|              | 315.18          | 37.80                 | 14.71                 | 3.10            | 27.72              | 27.89                    | 46.00            | 18.11        |
|              | <b>599.39</b>   | <b>36.73</b>          | <b>20.86</b>          | <b>4.55</b>     | <b>28.80</b>       | <b>33.34</b>             | <b>46.00</b>     | <b>12.66</b> |
|              | 851.59          | 31.72                 | 22.97                 | 5.41            | 28.54              | 31.56                    | 46.00            | 14.44        |
| Vertical     | <b>38.73</b>    | <b>45.31</b>          | <b>12.35</b>          | <b>1.00</b>     | <b>28.62</b>       | <b>30.04</b>             | <b>40.00</b>     | <b>9.96</b>  |
|              | 46.49           | 44.01                 | 9.60                  | 1.11            | 28.70              | 26.02                    | 40.00            | 13.98        |
|              | 126.03          | 42.15                 | 11.65                 | 1.86            | 28.27              | 27.39                    | 43.50            | 16.11        |
|              | 237.58          | 36.70                 | 14.00                 | 2.64            | 27.75              | 25.59                    | 46.00            | 20.41        |
|              | 371.44          | 35.68                 | 16.50                 | 3.39            | 28.12              | 27.45                    | 46.00            | 18.55        |
|              | 851.59          | 32.72                 | 22.97                 | 5.41            | 28.54              | 32.56                    | 46.00            | 13.44        |

TEST ENGINEER: Season Yang  
(SEASON YANG)

EUT : LCD Monitor Temperature : 23°C

Model No. : L194WTM Humidity : 60%

Serial No. : 604NTRL5F238 Date of Test : May 11, 2006

Test Mode : VGA 1024\*768@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)  |
|--------------|-----------------|-----------------------|-----------------------|-----------------|--------------------------|--------------------------|------------------|--------------|
| Horizontal   | 58.13           | 39.78                 | 7.08                  | 1.24            | 28.70                    | 19.40                    | 40.00            | 20.60        |
|              | <b>114.39</b>   | <b>47.32</b>          | <b>11.05</b>          | <b>1.77</b>     | <b>28.32</b>             | <b>31.82</b>             | <b>43.50</b>     | <b>11.68</b> |
|              | 256.98          | 40.89                 | 14.92                 | 2.76            | 27.68                    | 30.89                    | 46.00            | 15.11        |
|              | 395.69          | 37.54                 | 17.19                 | 3.55            | 28.27                    | 30.01                    | 46.00            | 15.99        |
|              | 596.48          | 35.51                 | 20.81                 | 4.43            | 28.80                    | 31.95                    | 46.00            | 14.05        |
|              | 853.53          | 32.95                 | 22.98                 | 5.41            | 28.53                    | 32.81                    | 46.00            | 13.19        |
| Vertical     | <b>36.79</b>    | <b>45.76</b>          | <b>13.46</b>          | <b>1.00</b>     | <b>28.66</b>             | <b>31.56</b>             | <b>40.00</b>     | <b>8.44</b>  |
|              | 114.39          | 43.72                 | 11.05                 | 1.77            | 28.32                    | 28.22                    | 43.50            | 15.28        |
|              | 281.23          | 36.53                 | 14.50                 | 2.92            | 27.64                    | 26.31                    | 46.00            | 19.69        |
|              | 392.78          | 40.79                 | 17.07                 | 3.52            | 28.25                    | 33.13                    | 46.00            | 12.87        |
|              | 504.33          | 36.15                 | 18.26                 | 4.06            | 28.80                    | 29.67                    | 46.00            | 16.33        |
|              | 853.53          | 32.32                 | 22.98                 | 5.41            | 28.53                    | 32.18                    | 46.00            | 13.82        |

TEST ENGINEER: Season Yang  
(SEASON YANG)

EUT : LCD Monitor Temperature : 23°C

Model No. : L194WTM Humidity : 60%

Serial No. : 604NTRL5F238 Date of Test : May 10, 2006

Test Mode : VGA 1280\*1024@75Hz

| 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   | 77.53           | 43.35                 | 6.74                  | 1.49            | 28.58              | 23.00                    | 40.00            | 17.00        |
|              | 114.39          | 44.21                 | 11.05                 | 1.77            | 28.32              | 28.71                    | 43.50            | 14.79        |
|              | 230.79          | 43.86                 | 13.44                 | 2.61            | 27.77              | 32.14                    | 46.00            | 13.86        |
|              | <b>332.64</b>   | <b>42.94</b>          | <b>15.28</b>          | <b>3.21</b>     | <b>27.85</b>       | <b>33.58</b>             | <b>46.00</b>     | <b>12.42</b> |
|              | 599.39          | 33.73                 | 20.86                 | 4.55            | 28.80              | 30.34                    | 46.00            | 15.66        |
|              | 853.53          | 32.62                 | 22.98                 | 5.41            | 28.53              | 32.48                    | 46.00            | 13.52        |
| Vertical     | <b>31.94</b>    | <b>43.34</b>          | <b>14.80</b>          | <b>0.92</b>     | <b>28.70</b>       | <b>30.36</b>             | <b>40.00</b>     | <b>9.64</b>  |
|              | 77.53           | 45.67                 | 6.74                  | 1.49            | 28.58              | 25.32                    | 40.00            | 14.68        |
|              | 128.94          | 44.09                 | 11.60                 | 1.90            | 28.25              | 29.34                    | 43.50            | 14.16        |
|              | 250.19          | 36.14                 | 15.06                 | 2.70            | 27.70              | 26.20                    | 46.00            | 19.80        |
|              | 395.69          | 37.18                 | 17.19                 | 3.55            | 28.27              | 29.65                    | 46.00            | 16.35        |
|              | 761.38          | 33.25                 | 22.85                 | 5.22            | 28.77              | 32.55                    | 46.00            | 13.45        |

TEST ENGINEER: Season Yang  
(SEASON YANG)

EUT : LCD Monitor Temperature : 23°C

Model No. : L194WTM Humidity : 60%

Serial No. : 604NTRL5F238 Date of Test : May 12, 2006

Test Mode : VGA 1280\*1024@75Hz

| 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   | 1112.00         | 46.29                 | 24.64                 | 6.31            | 37.40              | 39.84                    | 74.00            | 34.16        | PK     |
|              | 1274.00         | 45.40                 | 25.33                 | 6.90            | 37.00              | 40.63                    | 74.00            | 33.37        |        |
|              | 1362.00         | 44.92                 | 25.66                 | 7.15            | 36.81              | 40.92                    | 74.00            | 33.08        |        |
|              | <b>1592.00</b>  | <b>50.61</b>          | <b>26.45</b>          | <b>8.07</b>     | <b>36.36</b>       | <b>48.77</b>             | <b>74.00</b>     | <b>25.23</b> |        |
|              | 1724.00         | 43.98                 | 26.84                 | 9.53            | 36.12              | 44.23                    | 74.00            | 29.77        |        |
|              | 1847.00         | 43.80                 | 27.19                 | 9.24            | 35.93              | 44.30                    | 74.00            | 29.70        |        |
| Vertical     | 1097.00         | 48.59                 | 24.57                 | 6.47            | 37.43              | 42.20                    | 74.00            | 31.80        | PK     |
|              | 1199.00         | 45.94                 | 25.02                 | 6.63            | 37.17              | 40.42                    | 74.00            | 33.58        |        |
|              | <b>1394.00</b>  | <b>52.30</b>          | <b>25.78</b>          | <b>7.38</b>     | <b>36.74</b>       | <b>48.72</b>             | <b>74.00</b>     | <b>25.28</b> |        |
|              | 1592.00         | 47.76                 | 26.45                 | 8.07            | 36.36              | 45.92                    | 74.00            | 28.08        |        |
|              | 1774.00         | 42.51                 | 26.99                 | 9.90            | 36.05              | 43.35                    | 74.00            | 30.65        |        |
|              | 1994.00         | 42.12                 | 27.59                 | 9.09            | 35.71              | 43.09                    | 74.00            | 30.91        |        |

TEST ENGINEER: Season Yang  
(SEASON YANG)



EUT : LCD Monitor Temperature : 23°C

Model No. : L194WTM Humidity : 60%

Serial No. : 604NTRL5F238 Date of Test : May 11, 2006

Test Mode : DVI 800\*600@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   | 92.08           | 43.33                 | 8.16                  | 1.58            | 28.48                    | 24.59                    | 43.50            | 18.91        |
|              | 135.73          | 42.88                 | 11.49                 | 1.92            | 28.22                    | 28.07                    | 43.50            | 15.43        |
|              | 182.29          | 42.71                 | 10.35                 | 2.27            | 28.07                    | 27.26                    | 43.50            | 16.24        |
|              | 318.09          | 38.01                 | 14.79                 | 3.13            | 27.74                    | 28.19                    | 46.00            | 17.81        |
|              | <b>599.39</b>   | <b>36.92</b>          | <b>20.86</b>          | <b>4.55</b>     | <b>28.80</b>             | <b>33.53</b>             | <b>46.00</b>     | <b>12.47</b> |
|              | 851.59          | 33.23                 | 22.97                 | 5.41            | 28.54                    | 33.07                    | 46.00            | 12.93        |
| Vertical     | <b>31.94</b>    | <b>42.81</b>          | <b>14.80</b>          | <b>0.92</b>     | <b>28.70</b>             | <b>29.83</b>             | <b>40.00</b>     | <b>10.17</b> |
|              | 92.08           | 48.75                 | 8.16                  | 1.58            | 28.48                    | 30.01                    | 43.50            | 13.49        |
|              | 121.18          | 40.77                 | 11.45                 | 1.84            | 28.29                    | 25.77                    | 43.50            | 17.73        |
|              | 245.34          | 38.98                 | 14.64                 | 2.69            | 27.72                    | 28.59                    | 46.00            | 17.41        |
|              | 431.58          | 36.82                 | 17.57                 | 3.67            | 28.47                    | 29.59                    | 46.00            | 16.41        |
|              | 596.48          | 34.99                 | 20.81                 | 4.43            | 28.80                    | 31.43                    | 46.00            | 14.57        |

TEST ENGINEER: Season Yang  
(SEASON YANG)

EUT : LCD Monitor Temperature : 23°C

Model No. : L194WTM Humidity : 60%

Serial No. : 604NTRL5F238 Date of Test : May 11, 2006

Test Mode : DVI 1024\*768@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)  |
|--------------|-----------------|-----------------------|-----------------------|-----------------|--------------------------|--------------------------|------------------|--------------|
| Horizontal   | 58.13           | 43.03                 | 7.08                  | 1.24            | 28.70                    | 22.65                    | 40.00            | 17.35        |
|              | <b>114.39</b>   | <b>49.00</b>          | <b>11.05</b>          | <b>1.77</b>     | <b>28.32</b>             | <b>33.50</b>             | <b>43.50</b>     | <b>10.00</b> |
|              | 167.74          | 44.61                 | 10.53                 | 2.24            | 28.16                    | 29.22                    | 43.50            | 14.28        |
|              | 349.13          | 44.22                 | 15.82                 | 3.27            | 27.97                    | 35.34                    | 46.00            | 10.66        |
|              | 392.78          | 41.96                 | 17.07                 | 3.52            | 28.25                    | 34.30                    | 46.00            | 11.70        |
|              | 764.29          | 32.15                 | 22.85                 | 5.23            | 28.77                    | 31.46                    | 46.00            | 14.54        |
| Vertical     | 38.73           | 45.90                 | 12.35                 | 1.00            | 28.62                    | 30.63                    | 40.00            | 9.37         |
|              | <b>114.39</b>   | <b>50.01</b>          | <b>11.05</b>          | <b>1.77</b>     | <b>28.32</b>             | <b>34.51</b>             | <b>43.50</b>     | <b>8.99</b>  |
|              | 242.43          | 39.77                 | 14.42                 | 2.66            | 27.73                    | 29.12                    | 46.00            | 16.88        |
|              | 395.69          | 43.24                 | 17.19                 | 3.55            | 28.27                    | 35.71                    | 46.00            | 10.29        |
|              | 473.29          | 41.18                 | 17.91                 | 3.91            | 28.68                    | 34.32                    | 46.00            | 11.68        |
|              | 785.63          | 33.56                 | 22.84                 | 5.23            | 28.73                    | 32.90                    | 46.00            | 13.10        |

TEST ENGINEER: Season Yang  
(SEASON YANG)

EUT : LCD Monitor Temperature : 23°C

Model No. : L194WTM Humidity : 60%

Serial No. : 604NTRL5F238 Date of Test : May 11, 2006

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) |
|--------------|-----------------|-----------------------|-----------------------|-----------------|--------------------------|--------------------------|------------------|-------------|
| Horizontal   | 56.19           | 41.18                 | 7.34                  | 1.20            | 28.70                    | 21.02                    | 40.00            | 18.98       |
|              | 111.48          | 47.13                 | 10.85                 | 1.74            | 28.34                    | 31.38                    | 43.50            | 12.12       |
|              | 167.74          | 41.67                 | 10.53                 | 2.24            | 28.16                    | 26.28                    | 43.50            | 17.22       |
|              | 358.83          | 39.92                 | 16.12                 | 3.32            | 28.04                    | 31.32                    | 46.00            | 14.68       |
|              | 387.93          | 39.76                 | 16.96                 | 3.49            | 28.22                    | 31.99                    | 46.00            | 14.01       |
|              | <b>674.08</b>   | <b>40.83</b>          | <b>22.43</b>          | <b>4.74</b>     | <b>28.88</b>             | <b>39.12</b>             | <b>46.00</b>     | <b>6.88</b> |
| Vertical     | 38.73           | 46.42                 | 12.35                 | 1.00            | 28.62                    | 31.15                    | 40.00            | 8.85        |
|              | 114.39          | 48.42                 | 11.05                 | 1.77            | 28.32                    | 32.92                    | 43.50            | 10.58       |
|              | 242.43          | 37.82                 | 14.42                 | 2.66            | 27.73                    | 27.17                    | 46.00            | 18.83       |
|              | 395.69          | 40.83                 | 17.19                 | 3.55            | 28.27                    | 33.30                    | 46.00            | 12.70       |
|              | <b>674.08</b>   | <b>41.78</b>          | <b>22.43</b>          | <b>4.74</b>     | <b>28.88</b>             | <b>40.07</b>             | <b>46.00</b>     | <b>5.93</b> |
|              | 807.94          | 38.31                 | 22.85                 | 5.32            | 28.67                    | 37.81                    | 46.00            | 8.19        |

TEST ENGINEER: Season Yang  
(SEASON YANG)

EUT : LCD Monitor Temperature : 23°C

Model No. : L194WTM Humidity : 60%

Serial No. : 604NTRL5F238 Date of Test : May 12, 2006

Test Mode : DVI 1280\*1024@75Hz

| 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   | 1194.00         | 46.38                 | 24.99                 | 6.63            | 37.19              | 40.81                    | 74.00            | 33.19        | PK     |
|              | 1237.00         | 49.57                 | 25.18                 | 6.79            | 37.09              | 44.45                    | 74.00            | 29.55        |        |
|              | 1394.00         | 46.36                 | 25.78                 | 7.38            | 36.74              | 42.78                    | 74.00            | 31.22        |        |
|              | 1484.00         | 45.84                 | 26.10                 | 7.82            | 36.56              | 43.20                    | 74.00            | 30.80        |        |
|              | 1594.00         | 49.36                 | 26.45                 | 8.07            | 36.35              | 47.53                    | 74.00            | 26.47        |        |
|              | <b>1782.00</b>  | <b>43.99</b>          | <b>27.02</b>          | <b>9.79</b>     | <b>36.03</b>       | <b>44.77</b>             | <b>74.00</b>     | <b>29.23</b> |        |
| Vertical     | 1189.00         | 46.81                 | 24.98                 | 6.62            | 37.20              | 41.21                    | 74.00            | 32.79        | PK     |
|              | 1237.00         | 49.57                 | 25.18                 | 6.79            | 37.09              | 44.45                    | 74.00            | 29.55        |        |
|              | 1394.00         | 46.36                 | 25.78                 | 7.38            | 36.74              | 42.78                    | 74.00            | 31.22        |        |
|              | 1484.00         | 46.44                 | 26.10                 | 7.82            | 36.56              | 43.80                    | 74.00            | 30.20        |        |
|              | 1594.00         | 49.36                 | 26.45                 | 8.07            | 36.35              | 47.53                    | 74.00            | 26.47        |        |
|              | <b>1782.00</b>  | <b>43.99</b>          | <b>27.02</b>          | <b>9.79</b>     | <b>36.03</b>       | <b>44.77</b>             | <b>74.00</b>     | <b>29.23</b> |        |

TEST ENGINEER: Season Yang  
(SEASON YANG)

## **5 DEVIATION TO TEST SPECIFICATIONS**

None

## 6 DEBUG DESCRIPTION

| Name              | M/N:       | Specifications<br>(mm) | Manufacturer                       | Location                        |
|-------------------|------------|------------------------|------------------------------------|---------------------------------|
| AL-tape           | T-308      | 30*50                  | Fuzhou Huibang<br>ELECTRONIC Corp. | See Appendix II<br>Figure 9, 11 |
| Conductive Gasket | 3940TKK122 | 80*10*3                | EXPAN                              | See Appendix II<br>Figure 19    |