

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

Color Monitor

Model No.: C17LC-\*

Serial No.: 43TAE27590238

FCC ID : BEJC17LC

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

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# 1 GENERAL INFORMATION

## 1.1 Description of Equipment Under Test

Description : Color Monitor

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Model No. : C17LC-\*

Serial No. : 43TAE27590238

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, YaoXin Road, Nanjing China

## 1.2 Supported Simulators

### 1.2.1 PC

Manufacturer : HP

Model Number : DL481P

Serial Number : CNG3470BD9

CPU : 2.6GHz.

Power Cable : Unshielded, detachable ,1.8m..

Certificate : FCC DoC, MIC (E-A011-03-2204CB),  
VCCI, C-Tick, CE/EMC,

### 1.2.2 Keyboard (PS2)

Manufacturer : Logitech

Model Number : KB-0133

C/T : B69350MVBPFDI

Data Cable : Unshielded, undetachable, 1.9m

Certification : FCC DoC, VCCI, CE/EMC,  
MIC, C-Tick (N119)

### 1.2.3 Mouse (PS2)

Manufacturer : Logitech

Model Number : M-S69

C/T : F6AB70S5BPI1G6O

Data Cable : Unshielded ,undetachable, 1.85m

Certificate : FCC ID:JNZ21-1443, VCCI  
CE/EMC, MIC, C-Tick(N231).

#### 1.2.4 Printer

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

#### 1.2.5 Modem

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

### 1.3 Description of Test Facility

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

NVLAP Lab Code : 200371-0

### 1.4 Measurement Uncertainty

Conducted Emission Test Uncertainty :  $U=\pm 2.66\text{dB}$   
Radiated Emission Test Uncertainty :  $U=\pm 4.26\text{dB}$

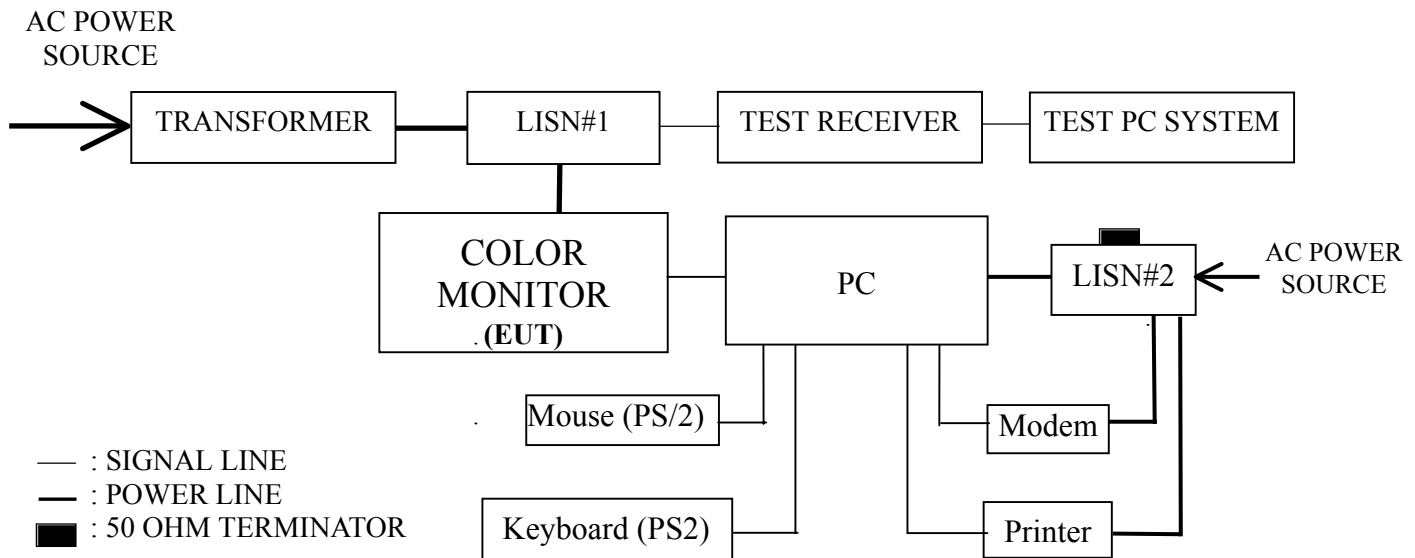
## 2 CONDUCTED EMISSION TEST

### 2.1 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.    | Cal. Interval |
|------|-----------------------------------------------|-----------------|-----------|----------------------|--------------|---------------|
| 1.   | Test Receiver                                 | Rohde & Schwarz | ESHS10    | 844077/020           | Apr 21, 2003 | 1 Year        |
| 2.   | Line Impedance Stabilization Network (LISN#1) | Kyoritsu        | KNW-407   | 8-1280-4             | Apr 23, 2003 | 1 Year        |
| 3.   | Line Impedance Stabilization Network (LISN#2) | Kyoritsu        | KNW-407   | 8-1280-5             | Apr 24, 2003 | 1 Year        |
| 4.   | 50Ω Coaxial Switch                            | Anritsu         | MP59B     | M73389               | Sep 24, 2003 | 1/2 Year      |
| 5.   | 50Ω Terminator                                | No.26 Factory   | BNC       | No.1                 | Oct 28, 2004 | 1/2 Year      |
| 6.   | Software                                      | Audix           | E3        | SET00200<br>9804M592 | -            | -             |

### 2.2 Block Diagram of Test Setup



## 2.3 Conducted Emission Limit

| Frequency Range<br>(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.<br>NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz<br>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. |               |         |

## 2.4 Test Configuration

The EUT (listed in Sec.1.1) and the simulators (listed in Sec1.2) were installed as shown on Sec.2.2 to meet FCC requirement and operating in a manner which tends to maximize its emission level in a normal application.

## 2.5 Operating Condition of EUT

- 2.5.1 Setup the EUT and simulators as shown in Sec. 2.2
- 2.5.2 Turn on the power of all equipment and the EUT.
- 2.5.3 Set the contrast control to maximum.
- 2.5.4 Set the brightness control to maximum or at raster extinction if raster extinction occurs at less than maximum brightness.
- 2.5.5 For color monitors, use white letters on a black background to represent all color.
- 2.5.6 Select the worse case of positive or negative video if both alternatives are available.
- 2.5.7 Set character size and number of characters per line so that typically the greatest number of characters per screen is displayed.
- 2.5.8 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 apply, use a typical display.
- 2.5.9 Set the EUT on the test mode, and then test.

## 2.6 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 FCC Part 15 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 mode (800\*600 75Hz, 1024\*768 85Hz, 1280\*1024 60Hz) was done on conducted disturbance test and all the test results are listed in Sec. 2.7.

## 2.7 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.

The worse case is for 1280\*1024 60Hz mode. The worst emission is detected at 0.192 MHz with corrected signal level of 53.81 dB( $\mu$ V) (limit is 63.97 dB( $\mu$ V)), when the VA of the EUT is connected to LISN.

EUT : Color Monitor Temperature : 23°C

Model No. : C17LC-\* Humidity : 56%

Serial No. : 43TAE27590238

Test Mode : 800\*600 75Hz Date of Test : Mar 16, 2004

| Test Line                                                                                                                                                                                               | Frequency (MHz) | Factor (dB) | Meter Reading dB( $\mu$ V) | Emission Level dB( $\mu$ V) | Limits dB( $\mu$ V) | Margin (dB)  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------------|-----------------------------|---------------------|--------------|
| VA                                                                                                                                                                                                      | <b>0.190</b>    | <b>0.22</b> | <b>52.12</b>               | <b>52.34</b>                | <b>64.05</b>        | <b>11.71</b> |
|                                                                                                                                                                                                         | 0.256           | 0.18        | 47.00                      | 47.18                       | 61.58               | 14.40        |
|                                                                                                                                                                                                         | 0.319           | 0.15        | 43.74                      | 43.89                       | 59.74               | 15.85        |
|                                                                                                                                                                                                         | 0.382           | 0.14        | 39.56                      | 39.70                       | 58.24               | 18.54        |
|                                                                                                                                                                                                         | 5.037           | 0.21        | 40.58                      | 40.79                       | 60.00               | 19.21        |
|                                                                                                                                                                                                         | 18.997          | 0.87        | 43.78                      | 44.65                       | 60.00               | 15.35        |
| VB                                                                                                                                                                                                      | 0.192           | 0.22        | 50.38                      | 50.60                       | 63.94               | 13.34        |
|                                                                                                                                                                                                         | 0.256           | 0.19        | 45.86                      | 46.05                       | 61.57               | 15.52        |
|                                                                                                                                                                                                         | 0.317           | 0.20        | 41.74                      | 41.94                       | 59.79               | 17.85        |
|                                                                                                                                                                                                         | 0.381           | 0.19        | 35.98                      | 36.17                       | 58.26               | 22.09        |
|                                                                                                                                                                                                         | 3.123           | 0.23        | 39.35                      | 39.58                       | 56.00               | 16.42        |
|                                                                                                                                                                                                         | 15.492          | 0.60        | 37.64                      | 38.24                       | 60.00               | 21.76        |
| NOTE 1 - Probe Factor means insertion loss of LISN.<br>NOTE 2 - Factor = Cable Loss + Probe Factor.<br>NOTE 3 - Emission Level = Meter Reading + Factor.<br>NOTE 4 - All reading are Quasi-Peak Values. |                 |             |                            |                             |                     |              |

TEST ENGINEER: Dream Cao  
(DREAM CAO)

EUT : Color Monitor Temperature : 23°C

Model No. : C17LC-\* Humidity : 56%

Serial No. : 43TAE27590238

Test Mode : 1024\*768 85Hz Date of Test : Mar 16, 2004

| Test Line                                                                                                                                                                                               | Frequency (MHz) | Factor (dB) | Meter Reading dB(μV) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB)  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------|-----------------------|---------------|--------------|
| VA                                                                                                                                                                                                      | <b>0.180</b>    | <b>0.22</b> | <b>53.08</b>         | <b>53.30</b>          | <b>64.49</b>  | <b>11.19</b> |
|                                                                                                                                                                                                         | 0.239           | 0.20        | 47.88                | 48.08                 | 62.12         | 14.04        |
|                                                                                                                                                                                                         | 0.300           | 0.15        | 44.44                | 44.59                 | 60.24         | 15.65        |
|                                                                                                                                                                                                         | 0.361           | 0.14        | 40.33                | 40.47                 | 58.70         | 18.23        |
|                                                                                                                                                                                                         | 3.780           | 0.18        | 39.88                | 40.06                 | 56.00         | 15.94        |
|                                                                                                                                                                                                         | 18.907          | 0.86        | 43.98                | 44.84                 | 60.00         | 15.16        |
| VB                                                                                                                                                                                                      | 0.180           | 0.23        | 52.28                | 52.51                 | 64.49         | 11.98        |
|                                                                                                                                                                                                         | 0.240           | 0.19        | 47.40                | 47.59                 | 62.10         | 14.51        |
|                                                                                                                                                                                                         | 0.301           | 0.21        | 43.66                | 43.87                 | 60.23         | 16.36        |
|                                                                                                                                                                                                         | 0.359           | 0.19        | 38.21                | 38.40                 | 58.75         | 20.35        |
|                                                                                                                                                                                                         | 3.720           | 0.25        | 38.66                | 38.91                 | 56.00         | 17.09        |
|                                                                                                                                                                                                         | 21.249          | 0.74        | 36.79                | 37.53                 | 60.00         | 22.47        |
| NOTE 1 - Probe Factor means insertion loss of LISN.<br>NOTE 2 - Factor = Cable Loss + Probe Factor.<br>NOTE 3 - Emission Level = Meter Reading + Factor.<br>NOTE 4 - All reading are Quasi-Peak Values. |                 |             |                      |                       |               |              |

TEST ENGINEER: Dream Cao  
(DREAM CAO)

EUT : Color Monitor Temperature : 23°C

Model No. : C17LC-\* Humidity : 56%

Serial No. : 43TAE27590238

Test Mode : 1280\*1024 60Hz Date of Test : Mar 16, 2004

| Test Line                                                                                                                                                                                               | Frequency (MHz) | Factor (dB) | Meter Reading dB(μV) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB)  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------|-----------------------|---------------|--------------|
| VA                                                                                                                                                                                                      | <b>0.192</b>    | <b>0.22</b> | <b>53.59</b>         | <b>53.81</b>          | <b>63.97</b>  | <b>10.16</b> |
|                                                                                                                                                                                                         | 0.254           | 0.19        | 48.06                | 48.25                 | 61.61         | 13.36        |
|                                                                                                                                                                                                         | 0.319           | 0.15        | 44.02                | 44.17                 | 59.73         | 15.56        |
|                                                                                                                                                                                                         | 0.384           | 0.14        | 39.84                | 39.98                 | 58.20         | 18.22        |
|                                                                                                                                                                                                         | 5.120           | 0.21        | 39.57                | 39.78                 | 60.00         | 20.22        |
|                                                                                                                                                                                                         | 20.154          | 0.92        | 41.22                | 42.14                 | 60.00         | 17.86        |
| VB                                                                                                                                                                                                      | 0.193           | 0.22        | 52.24                | 52.46                 | 63.91         | 11.45        |
|                                                                                                                                                                                                         | 0.256           | 0.19        | 47.22                | 47.41                 | 61.56         | 14.15        |
|                                                                                                                                                                                                         | 0.321           | 0.20        | 42.64                | 42.84                 | 59.69         | 16.85        |
|                                                                                                                                                                                                         | 0.383           | 0.19        | 37.16                | 37.35                 | 58.22         | 20.87        |
|                                                                                                                                                                                                         | 4.543           | 0.27        | 40.89                | 41.16                 | 56.00         | 14.84        |
|                                                                                                                                                                                                         | 21.241          | 0.74        | 38.66                | 39.40                 | 60.00         | 20.60        |
| NOTE 1 - Probe Factor means insertion loss of LISN.<br>NOTE 2 - Factor = Cable Loss + Probe Factor.<br>NOTE 3 - Emission Level = Meter Reading + Factor.<br>NOTE 4 - All reading are Quasi-Peak Values. |                 |             |                      |                       |               |              |

TEST ENGINEER: Dream Cao  
(DREAM CAO)

### 3 RADIATED EMISSION TEST

#### 3.1 Test Equipment

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

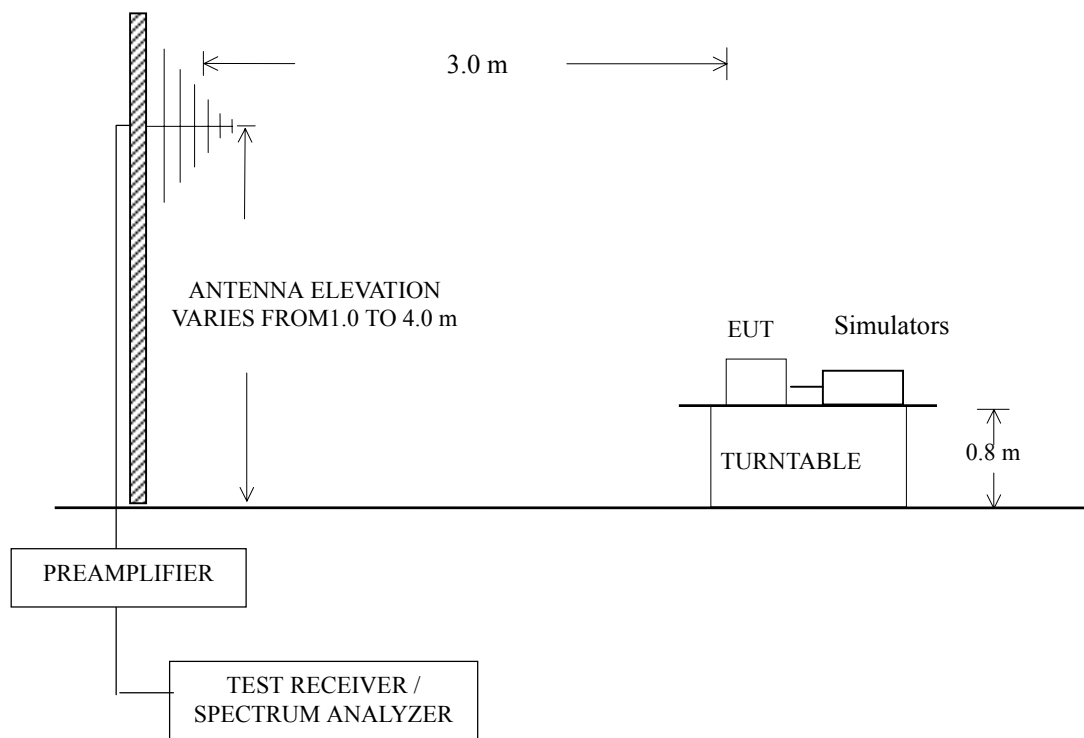
| Item | Type               | Manufacturer    | Model No. | Serial No.             | Last Cal.    | Cal. Interval |
|------|--------------------|-----------------|-----------|------------------------|--------------|---------------|
| 1.   | Spectrum Analyzer  | HP              | 8593EM    | 3628A00167             | Apr 26, 2003 | 1 Year        |
| 2.   | Bilog Antenna      | Chase           | CBL6111   | 1145                   | Mar 20, 2004 | 1/2 Year      |
| 3.   | Test Receiver      | Rohde & Schwarz | ESVS10    | 832699/001             | Apr 22, 2003 | 1 Year        |
| 4.   | Preamplifier       | HP              | 8447D     | 2944A06849             | Mar 22, 2004 | 1/2 Year      |
| 5.   | 50Ω Coaxial Switch | Anritsu         | MP59B     | M74689                 | Oct 28, 2004 | 1/2 Year      |
| 6.   | Software           | Audix           | E3        | SET00200<br>9912M295-2 | -            | -             |

#### 3.2 Block Diagram of Test Setup

EUT and simulators

Same as Sec.2.2.

Radiated emission test setup



### 3.3 Radiated Emission Limit

| Frequency<br>(MHz)                                                                                                                                                                                                                                                                | Distance<br>(m) | Field strength limits (μV/m) |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------|----------|
|                                                                                                                                                                                                                                                                                   |                 | (μV/m)                       | dB(μV/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(μV/m) = 20 log Emission Level (μV/m)<br>NOTE 2 - The tighter limit applies at the band edges.<br>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. |                 |                              |          |

### 3.4 Test Configuration

The configuration of the EUT and simulators are same as those used in conducted emission test.

Please refer to Sec.2.4.

### 3.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.2.5, except the test setup replaced by Sec.3.2.

### 3.6 Test Procedures

The EUT and simulators were placed on a turntable which 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 polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to FCC Part 15 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.

The test mode (800\*600 75Hz, 1024\*768 85Hz, 1280\*1024 60Hz) was done on radiated 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 radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

The worse case is for 1024\*768 85Hz mode. The worst emission at horizontal polarization was detected at 305.480 MHz with corrected signal level of 39.58 dB( $\mu$ V/m) (limit is 46.00 dB( $\mu$ V/m)), when the antenna was 1.20m height and the turn table was at 165°. The worst emission at vertical polarization was detected at 36.790 MHz with corrected signal level of 35.20 dB( $\mu$ V/m) (limit is 40.00 dB( $\mu$ V/m)), when the antenna was 1.00m height and the turn table was at 255°.

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

EUT : Color Monitor Temperature : 20.7°C

Model No. : C17LC-\* Humidity : 53%

Serial No. : 43TAE27590238

Test Mode : 800\*600 75Hz Date of Test : Mar 23, 2004

| Polarization | Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Meter Reading dB( $\mu$ V) | Emission Level dB( $\mu$ V/m) | Limits dB( $\mu$ V/m) | Margin (dB) |
|--------------|-----------------|-----------------------|-----------------|--------------------|----------------------------|-------------------------------|-----------------------|-------------|
| Horizontal   | 62.980          | 6.36                  | 1.14            | 28.41              | 49.18                      | 28.27                         | 40.00                 | 11.73       |
|              | 145.430         | 12.89                 | 1.66            | 28.07              | 42.30                      | 28.78                         | 43.50                 | 14.72       |
|              | 193.930         | 10.47                 | 2.04            | 27.85              | 48.86                      | 33.52                         | 43.50                 | 9.98        |
|              | <b>305.480</b>  | <b>14.73</b>          | <b>2.55</b>     | <b>27.53</b>       | <b>49.83</b>               | <b>39.58</b>                  | <b>46.00</b>          | <b>6.42</b> |
|              | 339.430         | 15.79                 | 2.72            | 27.77              | 47.17                      | 37.91                         | 46.00                 | 8.09        |
|              | 575.140         | 21.76                 | 3.58            | 28.71              | 35.92                      | 32.55                         | 46.00                 | 13.45       |
| Vertical     | 36.790          | 11.56                 | 0.80            | 28.44              | 48.18                      | 32.10                         | 40.00                 | 7.90        |
|              | <b>70.740</b>   | <b>6.45</b>           | <b>1.18</b>     | <b>28.38</b>       | <b>53.15</b>               | <b>32.40</b>                  | <b>40.00</b>          | <b>7.60</b> |
|              | 121.180         | 13.76                 | 1.58            | 28.18              | 42.03                      | 29.19                         | 43.50                 | 14.31       |
|              | 187.140         | 10.68                 | 1.97            | 27.88              | 44.37                      | 29.14                         | 43.50                 | 14.36       |
|              | 279.290         | 14.14                 | 2.44            | 27.57              | 45.46                      | 34.47                         | 46.00                 | 11.53       |
|              | 502.390         | 19.65                 | 3.31            | 28.52              | 39.12                      | 33.56                         | 46.00                 | 12.44       |

NOTE 1 - Probe Factor means antenna factor.

NOTE 2 - Emission Level = Meter Reading + Antenna Factor + Cable Loss – Preamp Factor.

NOTE 3 - Factor = Probe Factor + Cable Loss - Preamp Factor.

NOTE 4 - All reading are Quasi-Peak values.

TEST ENGINEER: Dream Cao  
(DREAM CAO)

EUT : Color Monitor Temperature : 20.7°C

Model No. : C17LC-\* Humidity : 53%

Serial No. : 43TAE27590238

Test Mode : 1024\*768 85Hz Date of Test : Mar 23, 2004

| Polarization                                                                                                                                                                                                                                         | Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Meter Reading dB(μV) | Emission Level dB(μV/m) | Limits dB(μV/m) | Margin (dB) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|-----------------|--------------------|----------------------|-------------------------|-----------------|-------------|
| Horizontal                                                                                                                                                                                                                                           | <b>72.680</b>   | <b>6.92</b>           | <b>1.18</b>     | <b>28.38</b>       | <b>53.44</b>         | <b>33.16</b>            | <b>40.00</b>    | <b>6.84</b> |
|                                                                                                                                                                                                                                                      | 119.240         | 13.69                 | 1.54            | 28.19              | 40.71                | 27.75                   | 43.50           | 15.75       |
|                                                                                                                                                                                                                                                      | 174.530         | 10.65                 | 1.86            | 27.95              | 45.88                | 30.44                   | 43.50           | 13.06       |
|                                                                                                                                                                                                                                                      | 300.630         | 14.55                 | 2.53            | 27.53              | 46.40                | 35.95                   | 46.00           | 10.05       |
|                                                                                                                                                                                                                                                      | 339.430         | 15.79                 | 2.72            | 27.77              | 44.84                | 35.58                   | 46.00           | 10.42       |
|                                                                                                                                                                                                                                                      | 402.480         | 17.48                 | 2.89            | 28.19              | 39.14                | 31.32                   | 46.00           | 14.68       |
| Vertical                                                                                                                                                                                                                                             | <b>36.790</b>   | <b>11.56</b>          | <b>0.80</b>     | <b>28.44</b>       | <b>51.39</b>         | <b>35.31</b>            | <b>40.00</b>    | <b>4.69</b> |
|                                                                                                                                                                                                                                                      | 119.240         | 13.69                 | 1.54            | 28.19              | 44.79                | 31.83                   | 43.50           | 11.67       |
|                                                                                                                                                                                                                                                      | 174.530         | 10.65                 | 1.86            | 27.95              | 47.19                | 31.75                   | 43.50           | 11.75       |
|                                                                                                                                                                                                                                                      | 300.630         | 14.55                 | 2.53            | 27.53              | 37.91                | 27.46                   | 46.00           | 18.54       |
|                                                                                                                                                                                                                                                      | 402.480         | 17.48                 | 2.89            | 28.19              | 39.36                | 31.54                   | 46.00           | 14.46       |
|                                                                                                                                                                                                                                                      | 678.930         | 22.82                 | 3.94            | 28.64              | 35.83                | 33.95                   | 46.00           | 12.05       |
| NOTE 1 - Probe Factor means antenna factor.<br>NOTE 2 - Emission Level = Meter Reading + Antenna Factor + Cable Loss – Preamp Factor.<br>NOTE 3 - Factor = Probe Factor + Cable Loss - Preamp Factor.<br>NOTE 4 - All reading are Quasi-Peak values. |                 |                       |                 |                    |                      |                         |                 |             |

TEST ENGINEER: Dream Cao  
(DREAM CAO)

EUT : Color Monitor Temperature : 20.7°C

Model No. : C17LC-\* Humidity : 53%

Serial No. : 43TAE27590238

Test Mode : 1280\*1024 60Hz Date of Test : Mar 23, 2004

| Polarization                                                                                                                                                                                                                                         | Frequency (MHz) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Meter Reading dB(μV) | Emission Level dB(μV/m) | Limits dB(μV/m) | Margin (dB) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|-----------------|--------------------|----------------------|-------------------------|-----------------|-------------|
| Horizontal                                                                                                                                                                                                                                           | 72.680          | 6.92                  | 1.18            | 28.38              | 52.82                | 32.54                   | 40.00           | 7.46        |
|                                                                                                                                                                                                                                                      | 126.030         | 13.31                 | 1.60            | 28.16              | 44.02                | 30.77                   | 43.50           | 12.73       |
|                                                                                                                                                                                                                                                      | 198.780         | 10.32                 | 1.99            | 27.83              | 49.56                | 34.04                   | 43.50           | 9.46        |
|                                                                                                                                                                                                                                                      | 245.340         | 13.22                 | 2.22            | 27.60              | 48.93                | 36.77                   | 46.00           | 9.23        |
|                                                                                                                                                                                                                                                      | <b>308.390</b>  | <b>14.84</b>          | <b>2.56</b>     | <b>27.54</b>       | <b>50.74</b>         | <b>40.60</b>            | <b>46.00</b>    | <b>5.40</b> |
|                                                                                                                                                                                                                                                      | 387.930         | 17.13                 | 2.85            | 28.13              | 46.58                | 38.43                   | 46.00           | 7.57        |
| Vertical                                                                                                                                                                                                                                             | <b>36.790</b>   | <b>11.56</b>          | <b>0.80</b>     | <b>28.44</b>       | <b>51.28</b>         | <b>35.20</b>            | <b>40.00</b>    | <b>4.80</b> |
|                                                                                                                                                                                                                                                      | 72.680          | 6.92                  | 1.18            | 28.38              | 54.34                | 34.06                   | 40.00           | 5.94        |
|                                                                                                                                                                                                                                                      | 126.030         | 13.31                 | 1.60            | 28.16              | 47.83                | 34.58                   | 43.50           | 8.92        |
|                                                                                                                                                                                                                                                      | 189.080         | 10.62                 | 1.95            | 27.88              | 46.71                | 31.40                   | 43.50           | 12.10       |
|                                                                                                                                                                                                                                                      | 281.230         | 14.18                 | 2.39            | 27.58              | 43.69                | 32.68                   | 46.00           | 13.32       |
|                                                                                                                                                                                                                                                      | 541.190         | 20.81                 | 3.46            | 28.67              | 43.89                | 39.49                   | 46.00           | 6.51        |
| NOTE 1 - Probe Factor means antenna factor.<br>NOTE 2 - Emission Level = Meter Reading + Antenna Factor + Cable Loss – Preamp Factor.<br>NOTE 3 - Factor = Probe Factor + Cable Loss - Preamp Factor.<br>NOTE 4 - All reading are Quasi-Peak values. |                 |                       |                 |                    |                      |                         |                 |             |

TEST ENGINEER: Dream Cao  
(DREAM CAO)

## 4 DEVIATION TO TEST SPECIFICATIONS

The following components are used during the countermeasure procedures:

| Name                                                                                                                                     | Model Number  | Specifications<br>(mm) |                      |                      | Manufacturer                           | Location                       |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|----------------------|----------------------|----------------------------------------|--------------------------------|
|                                                                                                                                          |               | Length                 | Internal<br>diameter | External<br>diameter |                                        |                                |
| Magnetic<br>core                                                                                                                         | 125-074E      | 12.0±0.7               | 9.6±0.3              | 18.4±0.4             | BOAM Co., Ltd.                         | See Appendix II<br>Figure 4, 6 |
| Magnetic<br>core                                                                                                                         | 70-1601708001 | 17.0±0.5               | 8.0±0.3              | 16.0±0.5             | URITE&EQ Co., Ltd.                     | See Appendix II<br>Figure 4    |
| Magnetic<br>core                                                                                                                         | 125-074K      | 15.0±0.5               | 6.9±0.3              | 13.9±0.3             | BOAM Co., Ltd.<br>HAENG SUNG Co., Ltd. | See Appendix II<br>Figure 4    |
| Note: The Manufacturer had to add the magnetic cores to the cables in the production of this EUT in order that complies with the limits. |               |                        |                      |                      |                                        |                                |