



## Exhibit 4

The RFI / EMI Test Report issued by the Tatum EMC Lab

**ELECTROMAGNETIC EMISSIONS  
TEST REPORT  
FCC CLASS B COMPLIANCE**

ON

**TATUNG CO.  
COLOR MONITOR  
MODEL C5W**

**REPORT PREPARED BY  
TATUNG CO.  
22 CHUNGSHAN NORTH RD., 3RD SEC.,  
TAIPEI, TAIWAN, R. O. C.  
TEL: (02)2592-5252**

**REPORT NUMBER : TTEMC - 99012  
DATE OF TEST : May. 5, 1999  
DATE OF REPORT : May. 10, 1999**

# TEST REPORT CERTIFICATION

APPLICANT : TATUNG CO.

MANUFACTURER : TATUNG CO.

EUT DESCRIPTION : Color Monitor

(A) MODEL NO. : C5W

(B) SERIAL NO. : — — —

(C) POWER SUPPLY : 120 V AC 60 Hz

MEASUREMENT PROCEDURE USED :

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS

B JUNE 1989 AND ANSI C63.4 / 1992

The device described above was tested by TATUNG CO. to determine the maximum emission levels emanating from the device.

The maximum emission levels were compared to the FCC PART 15B Class B limits both radiated and conducted emissions.

The measurement results are contained in this test report and TATUNG CO. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

Date of test : May. 5 , 1999

Prepared by : (Wu Wan Ling) Wu Wan Ling

Test engineer : (Chen Yow Chang) Chen Yow Chang

Approved & Authorized Signer : (Mr. Tonny Lin) Tonny Lin

# 1. GENERAL INFORMATION

## 1.1 Description of EUT

|              |                                                                               |
|--------------|-------------------------------------------------------------------------------|
| Description  | Color Monitor                                                                 |
| Model Number | C5W                                                                           |
| Manufacturer | Tatung Co.<br>22 Chungshan N. Rd., 3rd, Sec.,<br>Taipei, Taiwan 10451, R.O.C. |
| Applicant    | Tatung Co.                                                                    |
| FCC ID       | BJMC5W                                                                        |
| Date of Test | May.5, 1999                                                                   |
| Signal Cable | Shielded, undetachable                                                        |
| Power Cord   | Shielded, detachable                                                          |

Note : The EUT was tested under the following resolution & horizontal synchronization speed mode :

1024 × 768 mode (48KHz, 1024 × 768 Noninterlaced)

800 × 600 mode (54KHz)

640 × 480 mode (31.5KHz)

## 1.2 Description of Configuration

### 1.2.1 Host Personal Computer

|                   |                         |
|-------------------|-------------------------|
| Model Number      | HP SERIES 5MT VL5 / 166 |
| Serial Number     | SG72402090              |
| Manufacturer      | HP                      |
| Power Supply Type | Switching               |
| Power Cord        | Shielded, detachable    |

### 1.2.2 MOUSE

|               |                        |
|---------------|------------------------|
| Model Number  | DMS-400+               |
| Serial Number | N/A                    |
| FCC ID        | F4Z4K3FDM-201          |
| Manufacturer  | DFI                    |
| Data Cable    | Shielded, undetachable |

### 1.2.3 KEYBOARD

|               |                        |
|---------------|------------------------|
| Model Number  | E03633YLTW3-C          |
| Serial Number | N/A                    |
| FCC ID        | CIGE03633              |
| Manufacturer  | HP                     |
| Data Cable    | Shielded, undetachable |

### 1.2.4 PRINTER

|               |                          |
|---------------|--------------------------|
| Model Number  | EN3211                   |
| Serial Number | 508A0086962              |
| FCC ID        | BDB9F2EN3211             |
| Manufacturer  | OK IDATA                 |
| Power Supply  | Within Mother Board      |
| Power Cord    | Unshielded, undetachable |
| Data Cable    | Shielded, detachable     |

### 1.2.5 MODEM

|                   |                       |
|-------------------|-----------------------|
| Model Number      | 1200AT                |
| Serial Number     | AT122290              |
| FCC ID            | EF56A5 1200AT         |
| Manufacturer      | TEAM TECHNOLOGY, INC. |
| Power Supply Type | Linear                |
| Data Cable        | Shielded, detachable  |
| Power Cord        | Unshielded            |

## 1.2.6 VGA DISPLAY CARD

|                   |             |
|-------------------|-------------|
| Model Number      | DSV3365E    |
| Serial Number     | E601404314  |
| Power Supply Type | DC          |
| FCC ID            | LUT-DSV3365 |

## 1.3 Description of Test Site

|                  |                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Site description | May 8, 1990 On file with Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046 |
| Name of Firm     | TATUNG CO.                                                                                                                      |
| Site Location    | 393, SEC. 1, Chung Cheng Rd., San-Hsia County, Taipei, Taiwan R.O.C.                                                            |

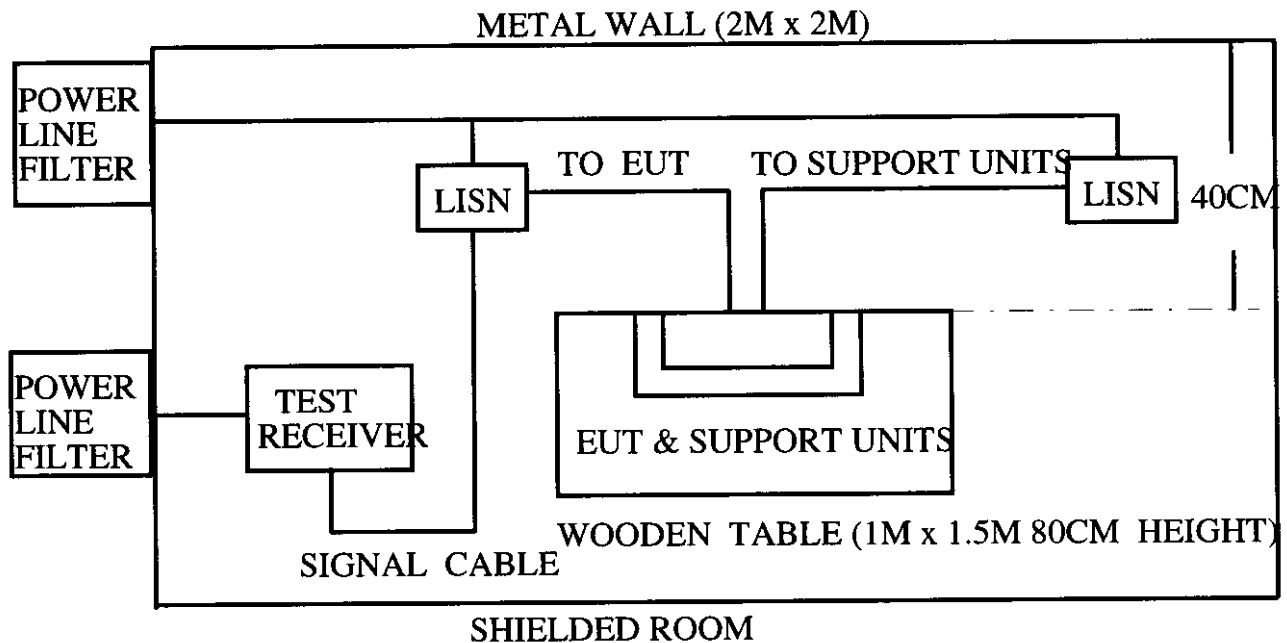
## 2. POWER LINE CONDUCTED TEST

### 2.1 Test Equipments

The following test equipments are used during the power line conducted tests :

| Equipments Type & Manufacturer         | Model No. | Date of Calibration |
|----------------------------------------|-----------|---------------------|
| Spectrum Analyzer (HP)                 | 8568B     | September, 1998     |
| Quasi-Peak Adapter (HP)                | 85650A    | September, 1998     |
| L.I.S.N. (EMCO)                        | 3825/2    | September, 1998     |
| Printer (HP)                           | 2227B     | N/A                 |
| Plotter (HP)                           | 7440A     | September, 1998     |
| Rohde & Schwarz Test Receiver          | ESH3      | September, 1998     |
| Shielded Room (7.2 m × 5.4 m × 2.45 m) | — — —     | N/A                 |

### 2.2 Block Diagram of Test Setup



### 2.3 CLASS B Conducted Powerline Emission Limit

| Frequency | Maximum RF Line Voltage |            |
|-----------|-------------------------|------------|
|           | $\mu V$                 | dB $\mu V$ |
| 0.45–30   | 250                     | 48         |

REMARKS : RF LINE VOLTAGE (db  $\mu V$ ) = 20 log RF LINE VOLTAGE ( $\mu V$ )

### 2.4 EUT Configuration on Measurement

The equipments in Item 1.2 are installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

### 2.5 Operating Condition of EUT

2.5.1 Setup the EUT and peripheral devices as shown on 2.2.

2.5.2 Turn on the power of all equipments.

2.5.3 Set the VGA display card on 1024×768 mode (48KHz).

2.5.4 PC reads test program from hard disk and run it.

2.5.5 PC sends "H" character to monitor and the screen will display and fill with "H" pattern.

2.5.6 PC sends "H" character to printer, the printer will print "H" pattern on paper.

2.5.7 PC sends "H" character to modem.

2.5.8 Repeat the above procedures from 2.5.4 to 2.5.7.

2.5.9 Change the mode of VGA display card to 800×600 mode (54KHz) and repeat steps 2.5.4 to 2.5.8.

2.5.10 Change the mode of VGA display card on Standard VGA mode (31.5KHz) and repeat steps 2.5.4 to 2.5.8.

## 2.6 Test Procedure

The test is performed in a shielded room. The EUT is placed on a wooden table which is 80cm height at a distance of 40cm in front of an earthed metal wall of the shielded room.

The EUT is connected to the power mains through a line impedance stabilization network(L.I.S.N.). This provides a 50 ohm coupling impedance for the measuring equipment. Both sides of A. C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables must be changed according to ANSI C 63.4 / 1992 on conducted measurement.

The bandwidth of the Quasi-Peak Adapter (HP 85650A) is set at 10 kHz.

The frequency range from 450 kHz to 30 MHz is checked.

### 2.7.1 Line Conducted RF Voltage Measurement Results

The frequency spectrum from 0.45 MHz to 30 MHz is investigated.  
All emissions not reported below are too low against the FCC Class B limit.

Date of Test : May. 5, 1999

Temperature : 28 °C

EUT : Color Monitor : C5W

Humidity : 70 %

Working Frequency : 31.5KHz

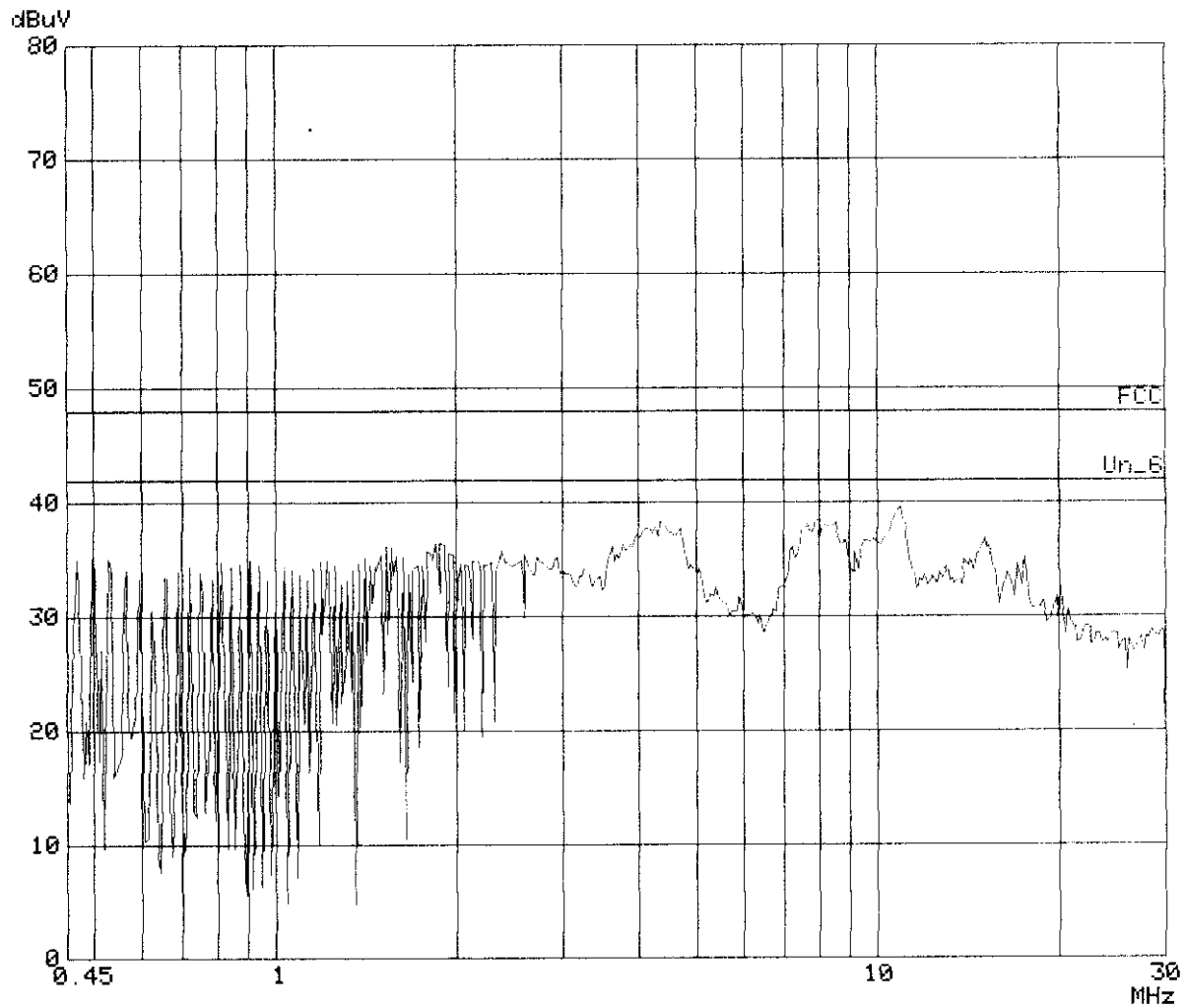
Display Pattern: 640×480

| Frequency<br>(MHz) | Reading (dB $\mu$ V) |                     | Limits<br>(dB $\mu$ V) |
|--------------------|----------------------|---------------------|------------------------|
|                    | One End & GRD        | The Other End & GRD |                        |
|                    | (dB $\mu$ V)         | (dB $\mu$ V)        |                        |
| 0.50               | 36.4                 | 34.4                | 48                     |
| 0.59               |                      | 35.2                | 48                     |
| 0.97               |                      | 34.9                | 48                     |
| 1.87               | 35.9                 |                     | 48                     |
| 4.35               | 37.5                 | 37.9                | 48                     |
| 7.64               |                      | 35.3                | 48                     |
| 8.21               | 37.1                 |                     | 48                     |
| 10.90              | 38.1                 |                     | 48                     |
| 15.22              | 34.9                 | 30.3                | 48                     |

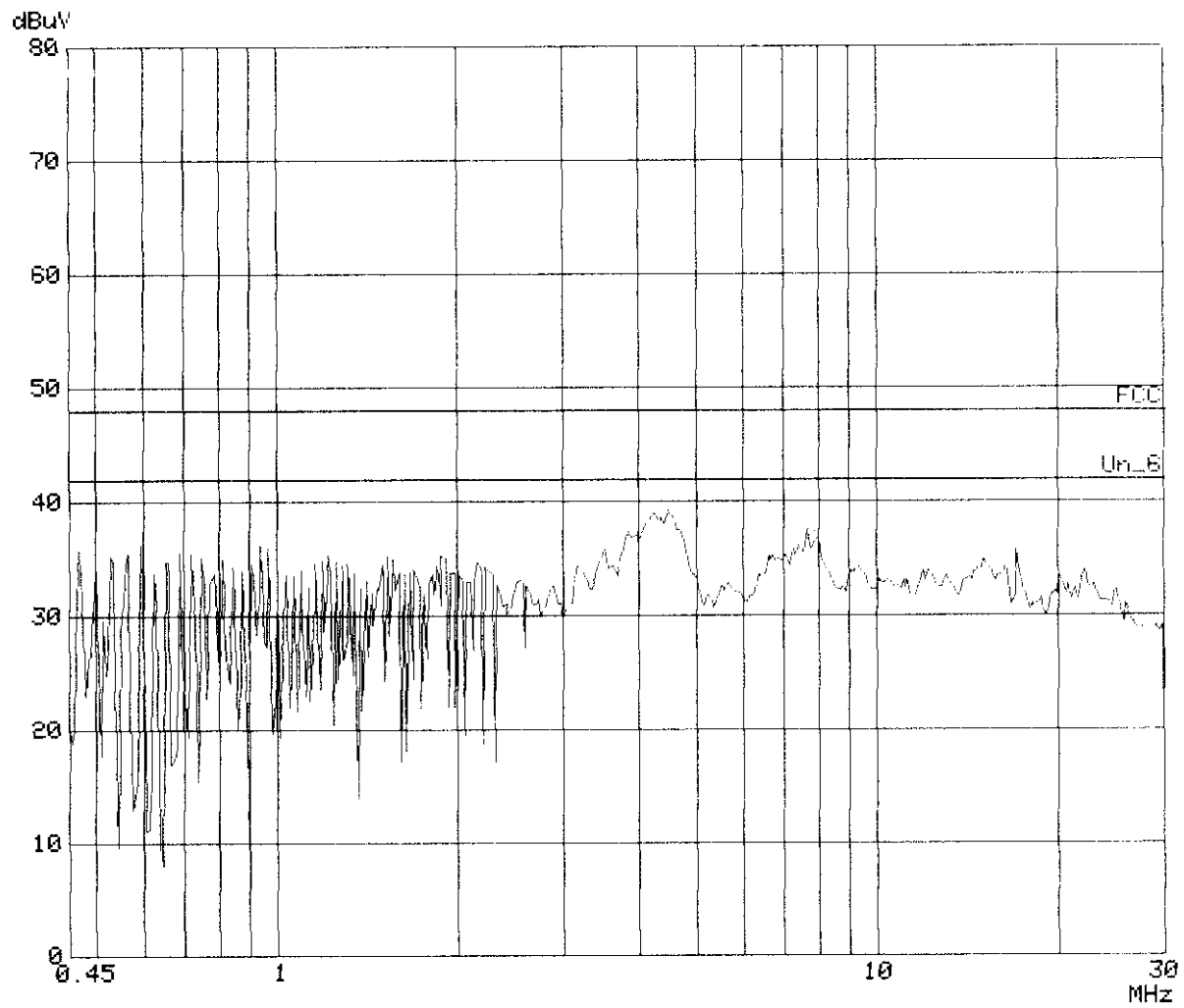
REMARKS : 1.All readings are Quasi-peak values.

EUT: C5W  
Manuf: TATUNG  
Op Cond: L1  
Operator: Y C. CHEN  
Test Spec: 640x480 31KHz  
Date: 11. May 99 13:42

FCC ID:BJMC5W



Manuf: TATUNG  
Op Cond: L2  
Operator: Y C. CHEN  
Test Spec: 640x480 31KHz  
Date: 11. May 99 13:11



## 2.7.2 Line Conducted RF Voltage Measurement Results

The frequency spectrum from 0.45 MHz to 30 MHz is investigated.  
All emissions not reported below are too low against the FCC Class B limit.

Date of Test : May. 5, 1999

Temperature : 28 °C

EUT : Color Monitor : C5W

Humidity : 70 %

Working Frequency : 54KHz

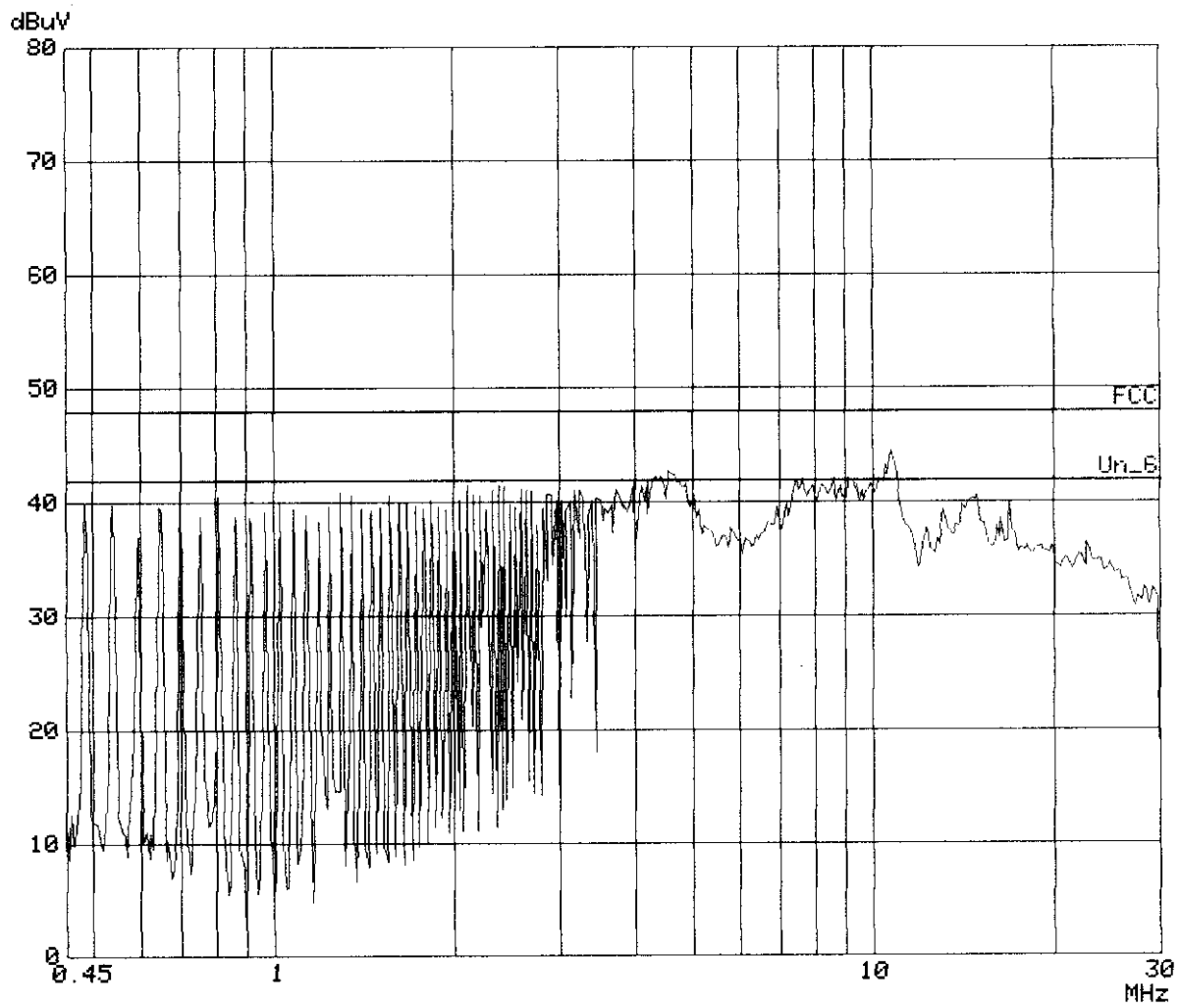
Display Pattern : 800 × 600

| Frequency<br>(MHz) | Reading (dB $\mu$ V) |                     | Limits<br>(dB $\mu$ V) |
|--------------------|----------------------|---------------------|------------------------|
|                    | One End & GRD        | The Other End & GRD |                        |
|                    | (dB $\mu$ V)         | (dB $\mu$ V)        |                        |
| 0.48               | 39.9                 |                     | 48                     |
| 0.54               | 39.8                 |                     | 48                     |
| 1.02               | 39.7                 |                     | 48                     |
| 2.37               |                      | 41.0                | 48                     |
| 2.59               |                      | 39.8                | 48                     |
| 4.69               | 41.3                 | 42.0                | 48                     |
| 7.50               | 40.3                 | 40.6                | 48                     |
| 10.68              |                      | 39.7                | 48                     |
| 14.95              | 36.8                 | 35.5                | 48                     |

REMARKS : 1.All readings are Quasi-peak values.

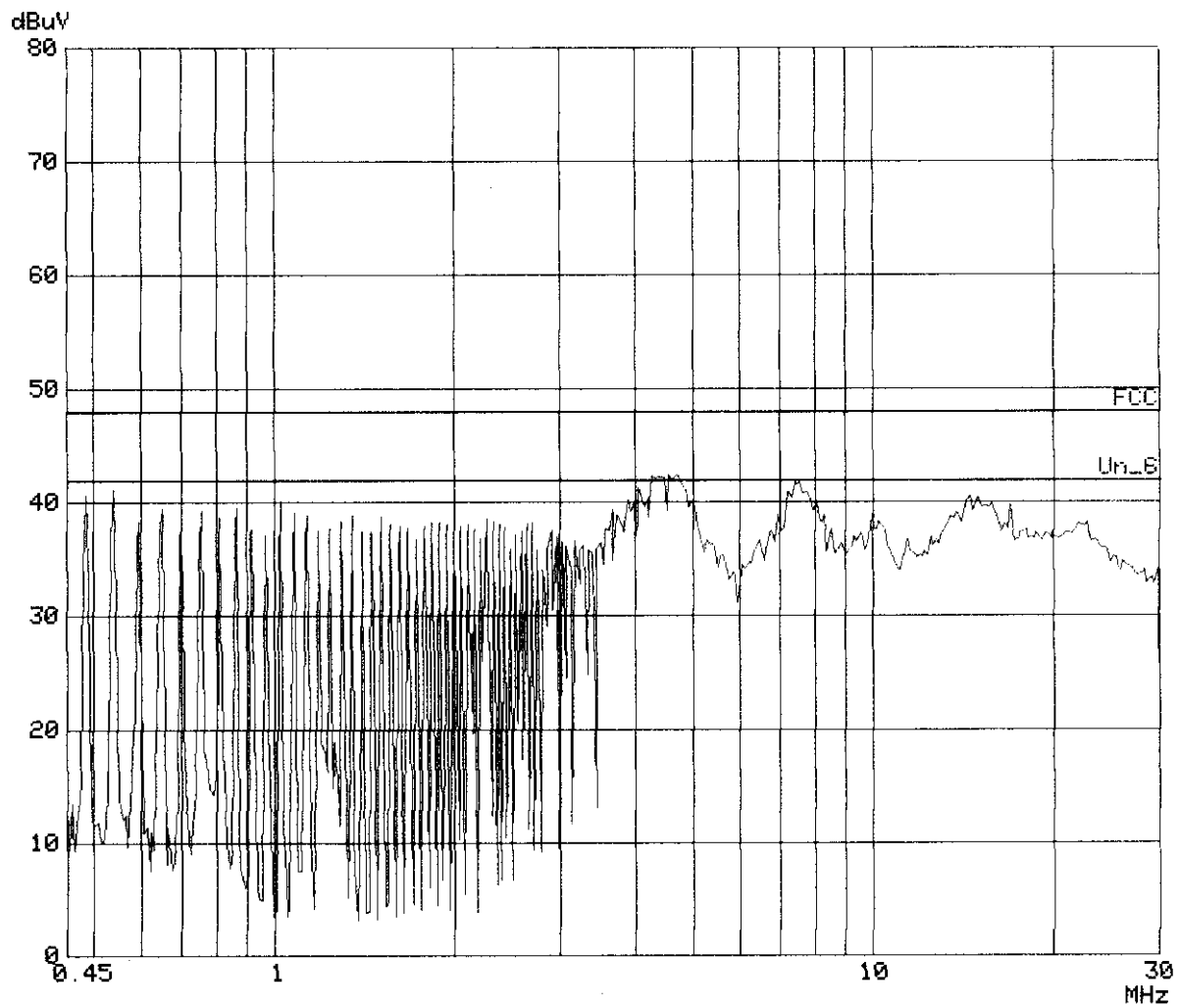
Manuf: TATUNG  
Op Cond: L1  
Operator: Y C. CHEN  
Test Spec: 800x600 54KHz  
Date: 11. May 99 09:13

FCC ID: B3MCSW



LOT: CSW  
Manuf: TATUNG  
Op Cond: L2  
Operator: Y C. CHEN  
Test Spec: 800x600 54KHz  
Date: 11. May 99 08:59

FCC ID:BJMCSW



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### 2.7.3 Line Conducted RF Voltage Measurement Results

The frequency spectrum from 0.45 MHz to 30 MHz is investigated.  
All emissions not reported below are too low against the FCC Class B limit.

Date of Test : May. 5, 1999

Temperature : 28 °C

EUT : Color Monitor : C5W

Humidity : 70 %

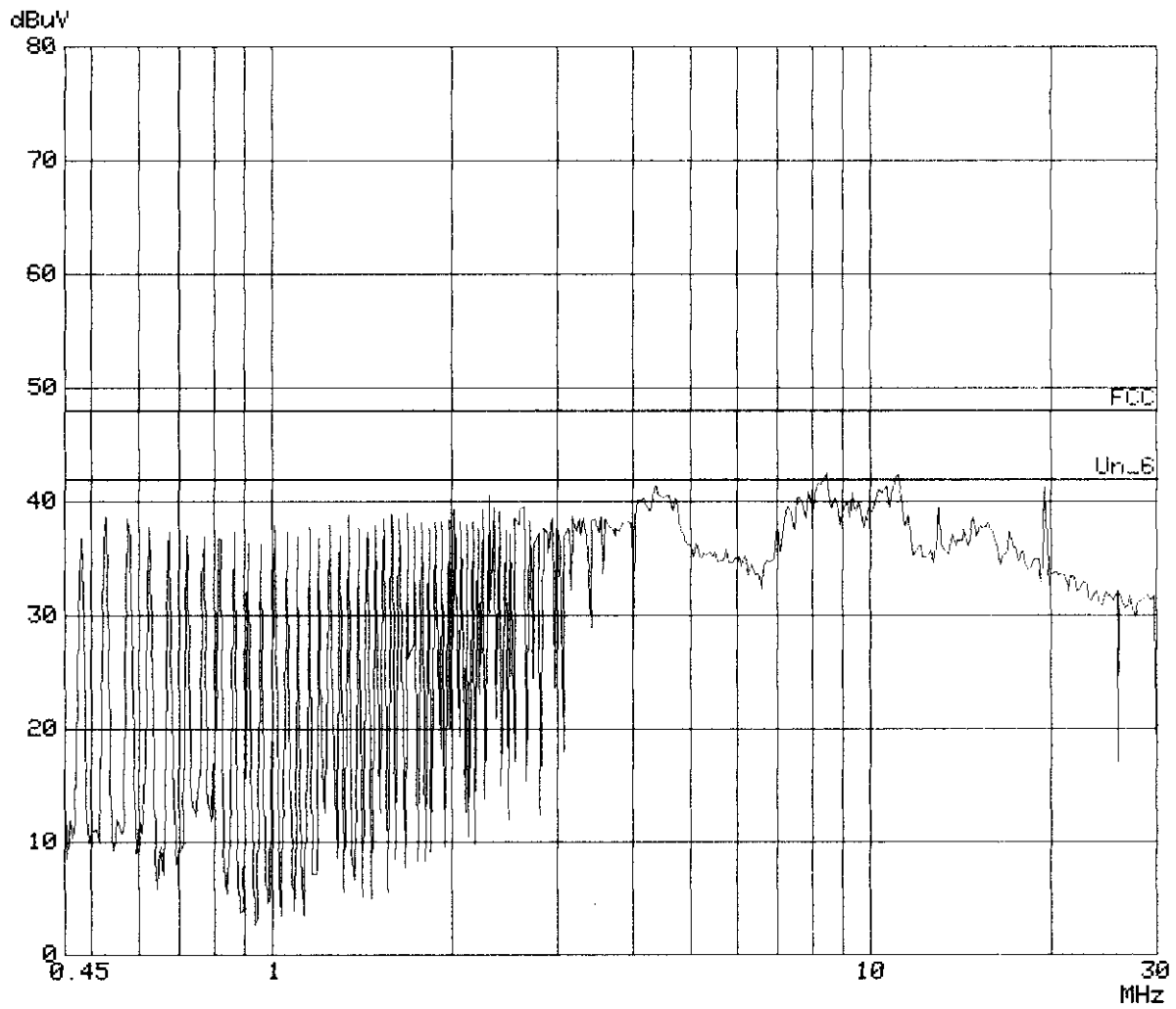
Working Frequency : 48KHz

Display Pattern : 1024×768  
(Noninterlaced)

| Frequency<br>(MHz) | Reading (dB $\mu$ V) |                     | Limits<br>(dB $\mu$ V) |
|--------------------|----------------------|---------------------|------------------------|
|                    | One End & GRD        | The Other End & GRD |                        |
|                    | (dB $\mu$ V)         | (dB $\mu$ V)        |                        |
| 0.52               | 38.5                 |                     | 48                     |
| 0.57               | 38.8                 | 39.9                | 48                     |
| 0.62               |                      | 39.4                | 48                     |
| 0.76               |                      | 38.2                | 48                     |
| 2.37               | 39.6                 |                     | 48                     |
| 4.37               | 40.0                 | 40.5                | 48                     |
| 7.69               |                      | 39.6                |                        |
| 8.42               | 40.4                 |                     | 48                     |
| 11.11              | 40.6                 | 35.9                | 48                     |

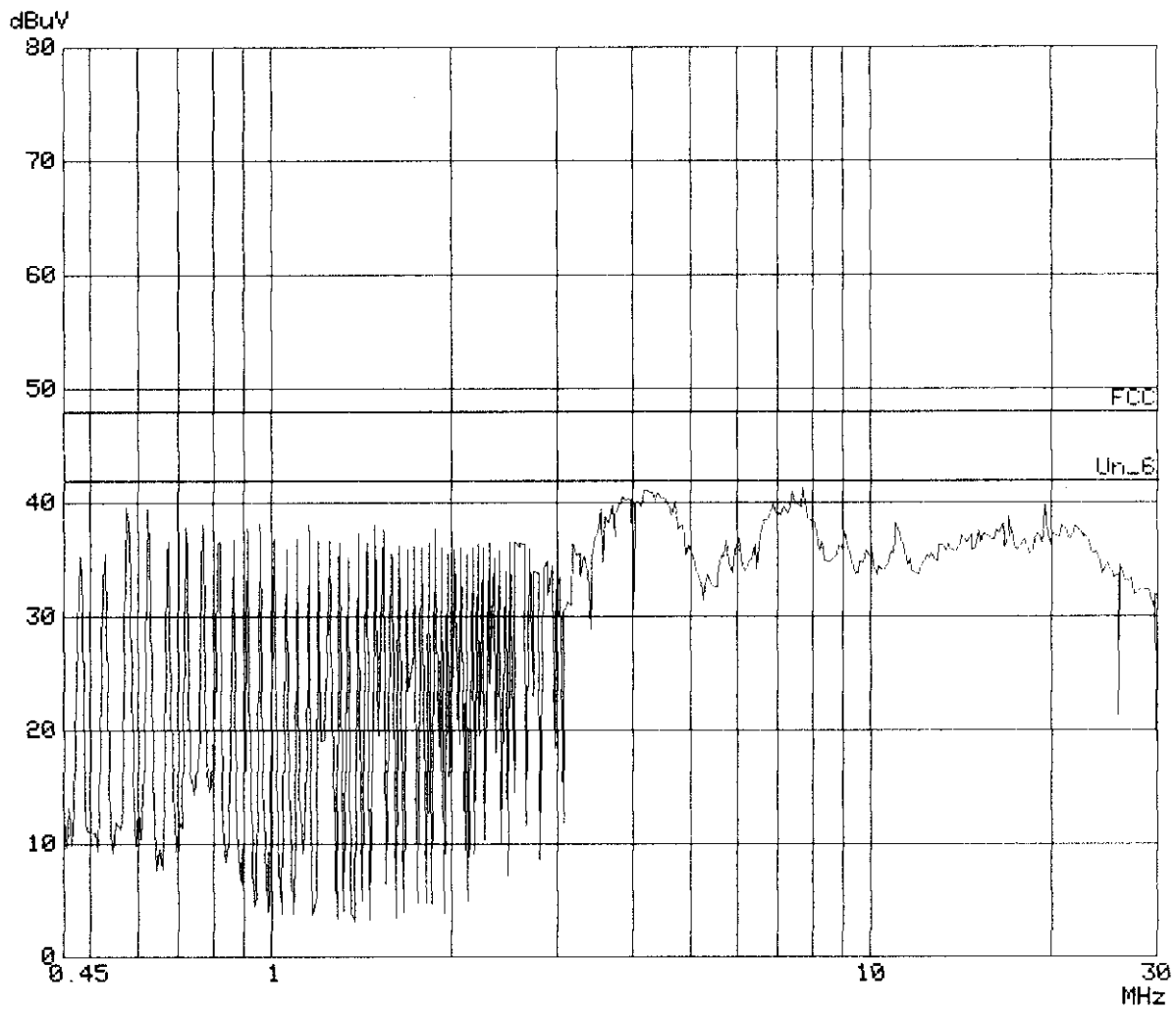
REMARKS: 1.ALL readings are Quasi-peak values.

Manuf: TATUNG  
Op Cond: L1  
Operator: Y C. CHEN  
Test Spec: 1024x768 48KHz  
Date: 11. May 99 14:09



LOT:  
Manuf: TATUNG  
Op Cond: L2  
Operator: Y C. CHEN  
Test Spec: 1024x768 48KHz  
Date: 11. May 99 13:56

FCC ID: B5MCSW



### 3. RADIATED EMISSION TEST

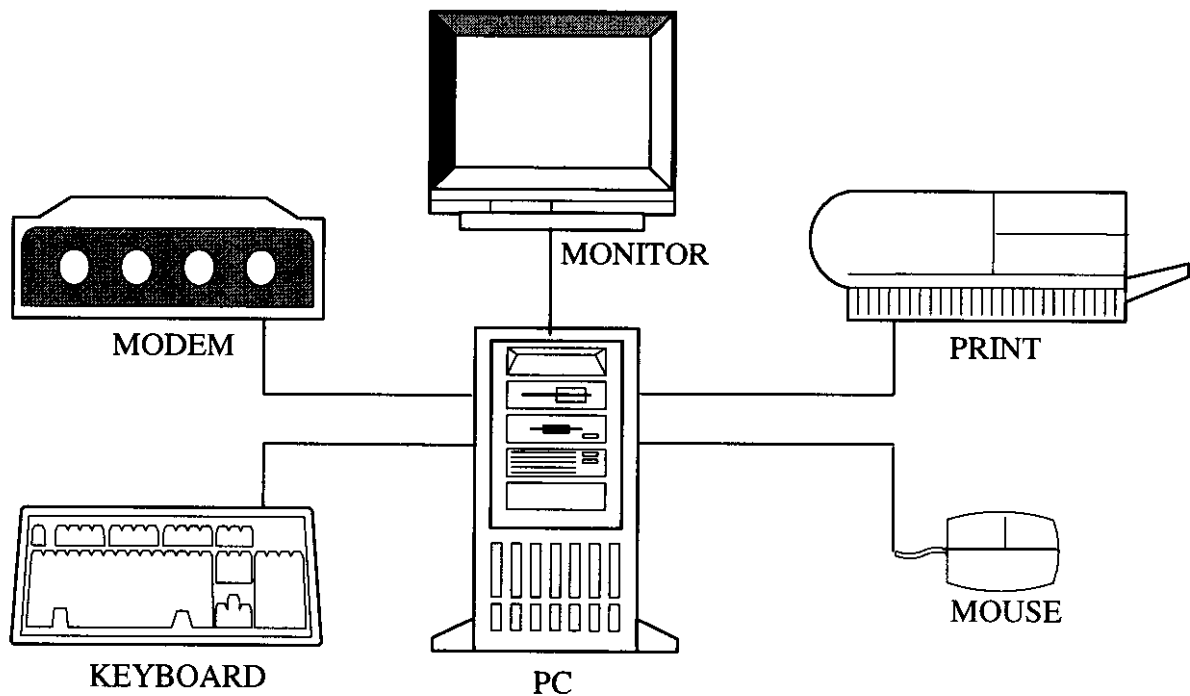
#### 3.1 Test Equipment

The following test equipments are used during the radiated emission tests :

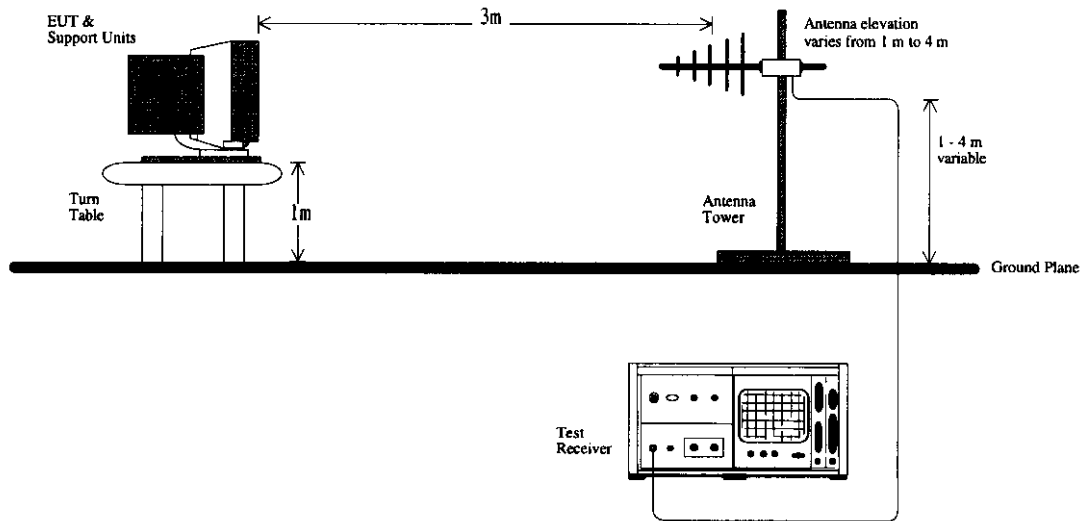
| Equipments Type & Manufacturer | Model No.      | Date of Calibration |
|--------------------------------|----------------|---------------------|
| Spectrum Analyzer (HP)         | 8568B          | September, 1998     |
| RF Preselector (HP)            | 85685A         | September, 1998     |
| Quasi-Peak Adapter (HP)        | 85650A         | September, 1998     |
| Preamplifier (HP)              | 8447F OPT. H64 | September, 1998     |
| Printer (HP)                   | 2227B          |                     |
| Plotter (HP)                   | 7440A          |                     |
| Dipole Antenna (EMCO)          | 3121C          | September, 1998     |

#### 3.2 Test Setup

##### 3.2.1 Block Diagram of Connections between EUT and Peripheral Devices



### 3.2.2 Open Field Test Site Setup Diagram



### 3.3 Class B Radiated Limit

| Frequency<br>(MHz) | Distance<br>(m) | Field Strength Limits |                            |
|--------------------|-----------------|-----------------------|----------------------------|
|                    |                 | $\mu\text{V/m}$       | $\text{dB } \mu\text{V/m}$ |
| 30—88              | 3               | 100                   | 40.0                       |
| 88—216             | 3               | 150                   | 43.5                       |
| 216—960            | 3               | 200                   | 46.0                       |
| 960—1000           | 3               | 500                   | 54.0                       |

- REMARKS :
1. Emission level ( $\text{dB } \mu\text{V/m}$ )  
 $= 20 \log \text{ Emission level } (\mu\text{V/m})$
  2. The tighter limit shall apply at the edge between two frequency bands.
  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 EUT Configuration

The configuration of EUT and its peripheral devices are the same as those used in conducted test. Please refer to 2.4.

### 3.5 Operating condition of EUT

Same as conducted test which is listed in 2.5.

### 3.6 Test Procedure

The EUT and its peripheral devices are placed on a turn table which is 1 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters away from the receiving antenna which is mounted on an antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level..Biconical, log and dipole antennas are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, the relative positions of equipments and all of the interface cable must be changed according to ANSI C63.4/1992 on radiated measurement.

The bandwidth setting on the field strength meter (HP Spectrum Analyzer 85650A) is 120 kHz.

## 3.7.1 Radiated Emission Noise Measurement Results

The frequency spectrum from 30 MHz to 1000 MHz is investigated. All the emissions not reported below are too low against the FCC CLASS B limit.

Date of Test : May. 5, 1999

Temperature : 28 °C

EUT : Color Monitor : C5W

Humidity : 70 %

Working Frequency : 31.5KHz

Display Pattern : 640×480

| Frequency<br>(MHz) | Antenna<br>Factor<br>(dB) | Cable<br>Loss +Amp.<br>(dB) | Meter Reading<br>Horizontal<br>(dB $\mu$ V/m) | Emission Level<br>Horizontal<br>(dB $\mu$ V/m) | Limits<br>(dB $\mu$ V/m) |
|--------------------|---------------------------|-----------------------------|-----------------------------------------------|------------------------------------------------|--------------------------|
| 39.120             | 11.50                     | 25.52                       | 37.70                                         | 23.68                                          | 40.00                    |
| 44.130             | 10.72                     | 25.53                       | 38.20                                         | 23.38                                          | 40.00                    |
| 54.990             | 10.18                     | 25.33                       | 47.60                                         | 32.45                                          | 40.00                    |
| 69.250             | 8.02                      | 25.25                       | 38.70                                         | 21.47                                          | 40.00                    |
| 75.590             | 7.08                      | 24.87                       | 44.60                                         | 26.82                                          | 40.00                    |
| 130.370            | 12.87                     | 24.61                       | 32.60                                         | 20.86                                          | 43.50                    |
| 137.840            | 12.66                     | 24.64                       | 32.50                                         | 20.52                                          | 43.50                    |
| 142.850            | 12.76                     | 24.57                       | 36.70                                         | 24.88                                          | 43.50                    |
| 155.400            | 14.13                     | 24.32                       | 45.60                                         | 35.41                                          | 43.50                    |
| 162.880            | 14.47                     | 24.57                       | 45.60                                         | 35.50                                          | 43.50                    |
| 170.470            | 15.54                     | 24.55                       | 40.80                                         | 31.79                                          | 43.50                    |
| 218.090            | 12.11                     | 23.73                       | 41.20                                         | 29.58                                          | 46.00                    |
| 213.150            | 12.19                     | 23.77                       | 41.60                                         | 30.02                                          | 43.50                    |
| 220.590            | 12.07                     | 23.76                       | 43.70                                         | 32.01                                          | 46.00                    |
| 225.600            | 12.07                     | 23.82                       | 43.00                                         | 31.25                                          | 46.00                    |
| 243.410            | 12.75                     | 23.52                       | 41.90                                         | 31.13                                          | 46.00                    |
| 262.960            | 13.48                     | 23.40                       | 42.90                                         | 32.98                                          | 46.00                    |

REMARKS : 1. All readings are Quasi-peak values

Date of Test : May. 5, 1999

Temperature : 28 °C

EUT : Color Monitor : C5W

Humidity : 70 %

Working Frequency : 31.5KHz

Display Pattern : 640×480

| Frequency<br>(MHz) | Antenna<br>Factor<br>(dB) | Cable<br>Loss +Amp.<br>(dB) | Meter Reading<br>Vertical<br>(dB $\mu$ V/m) | Emission Level<br>Vertical<br>(dB $\mu$ V/m) | Limits<br>(dB $\mu$ V/m) |
|--------------------|---------------------------|-----------------------------|---------------------------------------------|----------------------------------------------|--------------------------|
| 38.090             | 11.74                     | 25.41                       | 45.10                                       | 31.44                                        | 40.00                    |
| 44.420             | 10.68                     | 25.53                       | 44.50                                       | 29.65                                        | 40.00                    |
| 55.500             | 10.16                     | 25.34                       | 47.50                                       | 32.32                                        | 40.00                    |
| 69.250             | 8.02                      | 25.25                       | 41.90                                       | 24.67                                        | 40.00                    |
| 75.490             | 7.09                      | 24.87                       | 47.80                                       | 60.02                                        | 40.00                    |
| 82.290             | 7.32                      | 24.89                       | 46.40                                       | 28.83                                        | 40.00                    |
| 130.370            | 12.87                     | 24.61                       | 32.30                                       | 20.56                                        | 43.50                    |
| 137.850            | 12.66                     | 24.64                       | 32.10                                       | 20.12                                        | 43.50                    |
| 162.900            | 14.47                     | 24.57                       | 40.60                                       | 30.50                                        | 43.50                    |
| 218.040            | 12.11                     | 23.73                       | 32.60                                       | 20.98                                        | 46.00                    |
| 220.590            | 12.07                     | 23.76                       | 33.40                                       | 21.71                                        | 46.00                    |
| 225.580            | 12.07                     | 23.82                       | 33.00                                       | 21.25                                        | 46.00                    |

REMARKS : 1. All readings are Quasi-peak values

### 3.7.2 Radiated Emission Noise Measurement Results

The frequency spectrum from 30 MHz to 1000 MHz is investigated. All the emissions not reported below are too low against the FCC CLASS B limit.

Date of Test : May. 5, 1999

Temperature : 28 °C

EUT : Color Monitor : C5W

Humidity : 70 %

Working Frequency : 54KHz

Display Pattern : 800×600

| Frequency<br>(MHz) | Antenna<br>Factor<br>(dB) | Cable<br>Loss +Amp.<br>(dB) | Meter Reading<br>Horizontal<br>(dB $\mu$ V/m) | Emission Level<br>Horizontal<br>(dB $\mu$ V/m) | Limits<br>(dB $\mu$ V/m) |
|--------------------|---------------------------|-----------------------------|-----------------------------------------------|------------------------------------------------|--------------------------|
| 39.580             | 11.40                     | 25.58                       | 43.50                                         | 29.32                                          | 40.00                    |
| 45.300             | 10.61                     | 25.51                       | 40.60                                         | 25.70                                          | 40.00                    |
| 56.570             | 10.12                     | 25.36                       | 39.00                                         | 23.76                                          | 40.00                    |
| 67.890             | 8.28                      | 25.31                       | 40.10                                         | 23.07                                          | 40.00                    |
| 73.560             | 7.18                      | 24.97                       | 41.90                                         | 24.11                                          | 40.00                    |
| 113.170            | 14.08                     | 24.65                       | 37.30                                         | 26.74                                          | 43.50                    |
| 135.780            | 12.70                     | 24.65                       | 40.40                                         | 28.45                                          | 43.50                    |
| 147.660            | 13.36                     | 24.48                       | 40.40                                         | 29.28                                          | 43.50                    |
| 152.740            | 14.11                     | 24.40                       | 39.60                                         | 29.32                                          | 43.50                    |
| 158.410            | 14.24                     | 24.44                       | 43.00                                         | 32.80                                          | 43.50                    |
| 169.740            | 15.40                     | 24.55                       | 42.70                                         | 33.55                                          | 43.50                    |
| 181.070            | 16.25                     | 23.91                       | 36.50                                         | 28.84                                          | 43.50                    |
| 209.320            | 12.24                     | 23.86                       | 36.60                                         | 24.98                                          | 43.50                    |
| 215.030            | 12.16                     | 23.74                       | 42.40                                         | 30.82                                          | 43.50                    |
| 220.630            | 12.07                     | 23.76                       | 39.50                                         | 27.80                                          | 46.00                    |
| 226.310            | 12.09                     | 23.81                       | 41.90                                         | 30.18                                          | 46.00                    |
| 237.600            | 12.52                     | 23.63                       | 37.50                                         | 26.39                                          | 46.00                    |
| 243.340            | 12.75                     | 23.52                       | 40.90                                         | 30.13                                          | 46.00                    |
| 282.850            | 14.42                     | 23.01                       | 38.50                                         | 29.91                                          | 46.00                    |

REMARKS : 1. All readings are Quasi-peak values.

Date of Test : May. 5, 1999

Temperature : 28 °C

EUT : Color Monitor : C5W

Humidity : 70 %

Working Frequency : 54KHz

Display Pattern : 800 × 600

| Frequency<br>(MHz) | Antenna<br>Factor<br>(dB) | Cable<br>Loss +Amp.<br>(dB) | Meter Reading<br>Vertical<br>(dB $\mu$ V/m) | Emission Level<br>Vertical<br>(dB $\mu$ V/m) | Limits<br>(dB $\mu$ V/m) |
|--------------------|---------------------------|-----------------------------|---------------------------------------------|----------------------------------------------|--------------------------|
| 39.590             | 11.40                     | 25.58                       | 48.90                                       | 34.72                                        | 40.00                    |
| 45.250             | 10.61                     | 25.51                       | 47.60                                       | 32.70                                        | 40.00                    |
| 56.610             | 10.12                     | 25.36                       | 45.60                                       | 30.36                                        | 40.00                    |
| 67.880             | 8.28                      | 25.31                       | 44.90                                       | 27.87                                        | 40.00                    |
| 73.560             | 7.18                      | 24.97                       | 44.30                                       | 26.51                                        | 43.50                    |
| 114.640            | 14.15                     | 24.64                       | 38.60                                       | 28.11                                        | 43.50                    |
| 124.500            | 13.24                     | 24.50                       | 38.10                                       | 26.84                                        | 43.50                    |
| 130.120            | 12.88                     | 24.60                       | 38.60                                       | 26.87                                        | 43.50                    |
| 135.770            | 12.70                     | 24.65                       | 38.90                                       | 26.95                                        | 43.50                    |
| 141.490            | 12.63                     | 24.60                       | 34.20                                       | 22.23                                        | 43.50                    |
| 152.720            | 14.11                     | 24.40                       | 39.70                                       | 29.42                                        | 43.50                    |
| 158.410            | 14.24                     | 24.44                       | 43.40                                       | 33.20                                        | 43.50                    |
| 215.000            | 12.16                     | 23.74                       | 37.10                                       | 25.52                                        | 43.50                    |
| 220.670            | 12.07                     | 23.76                       | 31.50                                       | 19.80                                        | 46.00                    |
| 226.190            | 12.08                     | 23.81                       | 36.00                                       | 24.27                                        | 46.00                    |
| 271.530            | 13.78                     | 23.19                       | 32.30                                       | 22.88                                        | 46.00                    |

REMARKS : 1. All readings are Quasi-peak values.

### 3.7.3 Radiated Emission Noise Measurement Results

The frequency spectrum from 30 MHz to 1000 MHz is investigated. All the emissions not reported below are too low against the FCC CLASS B limit.

Date of Test : May. 5, 1999

Temperature : 28 °C

EUT : Color Monitor : C5W

Humidity : 70 %

Working Frequency : 48KHz

Display Pattern : 1024 × 768

(Noninterlaced)

| Frequency<br>(MHz) | Antenna<br>Factor<br>(dB) | Cable<br>Loss +Amp.<br>(dB) | Meter Reading<br>Horizontal<br>(dB $\mu$ V/m) | Emission Level<br>Horizontal<br>(dB $\mu$ V/m) | Limits<br>(dB $\mu$ V/m) |
|--------------------|---------------------------|-----------------------------|-----------------------------------------------|------------------------------------------------|--------------------------|
| 39.410             | 11.44                     | 25.56                       | 41.10                                         | 26.98                                          | 40.00                    |
| 45.540             | 10.59                     | 25.50                       | 42.90                                         | 27.99                                          | 40.00                    |
| 52.120             | 10.26                     | 25.35                       | 44.40                                         | 29.31                                          | 43.50                    |
| 68.260             | 8.21                      | 25.30                       | 42.00                                         | 24.91                                          | 43.50                    |
| 75.800             | 7.07                      | 24.85                       | 41.70                                         | 23.92                                          | 43.50                    |
| 84.550             | 7.72                      | 24.90                       | 49.00                                         | 31.82                                          | 43.50                    |
| 125.720            | 13.10                     | 24.51                       | 41.60                                         | 30.19                                          | 43.50                    |
| 143.110            | 12.78                     | 24.57                       | 42.30                                         | 30.52                                          | 43.50                    |
| 156.100            | 14.14                     | 24.30                       | 46.60                                         | 36.44                                          | 43.50                    |
| 162.650            | 14.45                     | 24.57                       | 42.80                                         | 32.68                                          | 43.50                    |
| 208.170            | 12.26                     | 23.89                       | 41.10                                         | 29.47                                          | 43.50                    |
| 214.670            | 12.16                     | 23.74                       | 44.70                                         | 33.12                                          | 43.50                    |
| 217.440            | 12.12                     | 23.73                       | 37.80                                         | 26.18                                          | 46.00                    |
| 221.180            | 12.06                     | 23.78                       | 41.00                                         | 29.28                                          | 46.00                    |
| 227.680            | 12.13                     | 23.79                       | 40.70                                         | 29.03                                          | 46.00                    |
| 279.720            | 14.22                     | 23.03                       | 40.20                                         | 31.39                                          | 46.00                    |

REMARKS : 1. All readings are Quasi-peak values.

Date of Test : May. 5, 1999

Temperature : 28 °C

EUT : Color Monitor : C5W

Humidity : 70 %

Working Frequency :48KHz

Display Pattern : 1024 × 768

(Noninterlaced)

| Frequency<br>(MHz) | Antenna<br>Factor<br>(dB) | Cable<br>Loss +Amp.<br>(dB) | Meter Reading<br>Vertical<br>(dB $\mu$ V/m) | Emission Level<br>Vertical<br>(dB $\mu$ V/m) | Limits<br>(dB $\mu$ V/m) |
|--------------------|---------------------------|-----------------------------|---------------------------------------------|----------------------------------------------|--------------------------|
| 38.890             | 11.56                     | 25.50                       | 48.30                                       | 34.36                                        | 40.00                    |
| 45.470             | 10.59                     | 25.50                       | 47.50                                       | 32.59                                        | 40.00                    |
| 52.020             | 10.26                     | 25.35                       | 46.30                                       | 31.21                                        | 43.50                    |
| 60.000             | 9.83                      | 25.41                       | 47.80                                       | 32.22                                        | 43.50                    |
| 70.290             | 7.81                      | 25.18                       | 46.40                                       | 29.03                                        | 43.50                    |
| 84.620             | 7.74                      | 24.90                       | 47.50                                       | 30.34                                        | 43.50                    |
| 162.630            | 14.45                     | 24.57                       | 36.20                                       | 26.08                                        | 43.50                    |
| 130.070            | 12.88                     | 24.60                       | 38.50                                       | 26.77                                        | 43.50                    |
| 143.120            | 12.78                     | 24.57                       | 38.50                                       | 26.72                                        | 43.50                    |
| 214.700            | 12.16                     | 23.74                       | 36.00                                       | 24.42                                        | 43.50                    |
| 217.490            | 12.12                     | 23.73                       | 29.90                                       | 18.28                                        | 46.00                    |
| 221.190            | 12.06                     | 23.78                       | 34.10                                       | 22.38                                        | 46.00                    |
| 227.670            | 12.13                     | 23.79                       | 37.90                                       | 26.23                                        | 46.00                    |

REMARKS : 1. All readings are Quasi-peak values