

# Electromagnetic Emission

## FCC MEASUREMENT REPORT

### CERTIFICATION OF COMPLIANCE

#### FCC Part 15 Certification Measurement

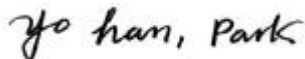
**PRODUCT** : LCD Color TV/Monitor  
**MODEL/TYPE NO** : LT-15AMP  
**FCC ID** : QDBLT15XMP  
**APPLICANT** : SEVIT Co., Ltd.  
4F 1029-11 Weon-pyeong 1Dong, Gumi city,  
Gyeong-sang-buk Do, 730-924 Korea  
Attn. : Jea-min Cho / Principal Engineer.

**FCC CLASSIFICATION** : Class B personal computers and peripherals  
**FCC RULE PART(S)** : FCC Part 15 Subpart B  
**FCC PROCEDURE** : Certification  
**TRADE NAME** : SEVIT  
**TEST REPORT No.** : E02.0513.FCC.271  
**DATES OF TEST** : May 08~09, 2002  
**DATES OF ISSUE** : May 13, 2001  
**TEST LABORATORY** : ETL Inc ( FCC Registration Number : 95422)  
#584 Sangwhal-ri, Kanam-myon, Yoju-kun, Kyounggi-do,  
469-880, Korea  
Tel : (031) 885-0072 Fax : (031) 885-0074

This LCD Color TV/Monitor, Model LT-15AMP has been tested in accordance with the measurement procedures specified in ANSI C63.4-1992 at the ETL/EMC Test Laboratory and has been shown to be complied with the electromagnetic radiated emission limits specified in FCC Rule Part15 Subpart B Class B personal computers and peripherals.

I attest to the accuracy of data. All measurements herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

The results of testing in this report apply to the product / system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



Name : Yo Han, Park

Title : Chief Engineer & Lab.Manager

**E-RAE Testing Laboratory Inc.**  
#584 Sangwhal-ri, Kanam-myon, Yoju-kun,  
Kyounggi-do, 469-880, Korea

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## FCC MEASUREMENT REPORT

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**Scope** – Measurement and determination of electromagnetic emission(EME) of radio frequency devices including intentional radiators and/or unintentional radiators for compliance with the technical rules and regulations of the U.S Federal Communications Commission(FCC)

### General Information

**Applicant Name** : SEVIT Co., Ltd.

**Address** : 4F 1029-11 Weon-pyeong 1Dong, Gumi city,  
Gyeong-sang-buk Do, 730-924 Korea

**Attention** : Jae-min Cho / Principal Engineer.

- **EUT Type** : LCD Color TV/Monitor
- **Model Number** : LT-15AMP
- **FCC Identifier** : QDBLT15XMP
- **S/N** : N/A
- **FCC Rule Part(s)** : FCC Part 15 Subpart B
- **Test Procedure** : ANSI C63.4-1992
- **FCC Classification** : Class B computers and peripherals
- **Dates of Tests** : May 08~09, 2002
- **Place of Tests** : ETL Inc  
EMC Testing Lab (FCC Registration Number : 95422)  
584, Sangwhal-Ri, Kanam-Myun, Yaju-Kun,  
Kyounggi-Do, Korea  
Tel : (031) 885-0072 Fax : (031) 885-0074
- **Test Report No.** : E02.0513.FCC.271N



## 1. INTRODUCTION

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The measurement test for radiated and conducted emission test were conducted at the open area test site of E-RAE Testing Laboratory Inc. facility located at 584, Sangwhal-ri, Ganam-myun, Youju-kun, Kyounggi-do, Korea. The site is constructed in conformance with the requirements of the ANSI C63.4-1992 and CISPR Publication 16. The ETL has site descriptions on file with the FCC for 3 and 10 meters site configurations. Detailed description of test facility was found to be in compliance with the requirements of Section 2.948 FCC Rules according to the ANSI C63.4-1992 and registered to the Federal Communications Commission (Registration Number : 95422 ).

The measurement procedure described in American National Standard for Method of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C.63.4-1992) was used in determining radiated and conducted emissions from the SEVIT Co., Ltd. Model : LT-15AMP

## 2. PRODUCT INFORMATION

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### 2.1 Equipment Description

The Equipment Under Test(EUT) is the SEVIT Co., Ltd. LCD Color TV/ Monitor, LT-15AMP  
Please refer to Users manual

### 2.2 General Specification

- Chassis Type : Plastic
- List of Each OSC. Or X-Tal. Freq. ( $\geq 1$ MHz) : X-Tal. 18.432, 14.31818, 6.000, 20.250, 4.000MHz
- Chipset Brand & Part No. : MX/MX88L284AEC, MICRONAS/101202003, MICRONAS/097408001  
ANALOG DEVICE/AD9883A, Silicon Image/Sil164CT64  
SAMSUNG/K4S161622D, Infineon/SDA555XFL
- Tube : LG Philips LCD 15.1" LCD panel
- Audio output : 1.5W + 1.5W
- Television system : NTSC
- Television Program : VHF: 2~13, UHF: 14~69, Cable: 01~125
- External antenna impedance : 75  $\Omega$
- AC Power Adaptor : AC 100-240V~1.0A, 50/60Hz
- Power requirements : DC 12V/3.0A
- Power Consumption : Max. 45W
- Main body size : 455mm X 424mm X 60mm(Horizontal X Height X Thickness)
- Main body weight : 6.3Kg

### 3. DESCRIPTION OF TESTS

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#### 3.1 Conducted Emission Measurement

Conducted emissions measurements were made in accordance with § 12.2 in ANSI C63.4-1992 "Measurement of Information Technology Equipment ". The measurement were performed over the frequency range of 0.15MHz to 30MHz using a 50  $\Omega$ /50uH LISN as the input transducer to a Spectrum Analyzer or a Field Intensity Meter. The measurements were made with the detector set for "Peak" amplitude within a bandwidth of 10KHz or for "quasi-peak" within a bandwidth of 9KHz.

- Procedure of Test

The line-conducted facility is located inside a shielded room 1m X 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 1.5m away from the side wall of the shielded room. Two EMCO 3825/2 LISN are bonded to the shielded room. The EUT is powered from the EMCO LISN and the support equipment is powered from the another EMCO LISN. Power to the LISNs are filtered by a noise cut power line filters. All electrical cables are shielded by braided tinned steel tubing with inner  $\phi$  1.2cm. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and these supply lines will be connected to the EMCO LISN. Non-inductive bundling to a 1m length shortened all interconnecting cables more than 1m. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the R3261A Spectrum Analyzer to determine the frequency producing the max. emission from the EUT. The frequency producing the max. level was reexamined using to set Quasi-Peak mode by manual, after scanned by automatic Peak mode from 0.15 to 30MHz. The bandwidth of the Spectrum Analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission.

### 3. DESCRIPTION OF TESTS

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#### 3.2 Radiated Emission Measurement

Radiated emission measurements were in accordance with § 12.2 in ANSI C63.4-1992 "Measurement of Information Technology Equipment ". The measurements were performed over the frequency range of 30MHz to 1GHz using antenna as the input transducer to a Spectrum analyzer or a Field Intensity Meter. The measurements were made with the detector set for "Quasi-peak" within a bandwidth of 120KHz.

- Procedure of Test

Preliminary measurements were made at 3 meter using broadband antennas, and spectrum analyzer to determined the frequency producing the max. emission in shielded room. Appropriate precaution was taken to ensure that all emission from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth and height with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 to 1000MHz using SchwarzBeck Log-Bicon antenna. Above 1GHz, linearly polarized double ridge horn antennas were used. Final measurements were made open site at 3-meters. The test equipment was placed on a wooden turn-table. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined by manual. The detector function was set to CISPR Quasi-peak mode and the bandwidth of the receiver was set to 120kHz or 1MHz depending on the frequency of type of signal. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the max. emission for the frequency and were placed on top of a 0.8-meter high nonmetallic 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the max. emission. Each emission was maximized by: varying the mode of operation to the EUT and/or support equipment and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Photographs of the worst-case emission test setup can be seen in Appendix B.

## 4. TEST CONDITION

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### 4.1 Test Configuration

The device was configured for testing in a typical fashion (as a customer would normally use it). During the tests, the following conditions and configurations were used.

### 4.2 EUT operation

| Operating Mode                                      | The worst operating condition |
|-----------------------------------------------------|-------------------------------|
| 640 x 480 85Hz Full "H" Pattern Display (VGA Mode)  |                               |
| 720 x 400 70Hz Full "H" Pattern Display (VGA Mode)  |                               |
| 800 x 600 85Hz Full "H" Pattern Display (SVGA Mode) |                               |
| 1024 x 768 85Hz Full "H" Pattern Display (XGA Mode) | O                             |
| TV Receiving Mode                                   |                               |
| Composite Video Input Mode                          |                               |

### 4.3 Support Equipment Used

Following peripheral devices and interface cables were connected during the measurement:

#### EUT – LCD Color TV/ Monitor (SEVIT)

FCC ID : QDBLT15XMP  
Model Name : LT-15AMP  
Serial No. : N/A  
Manufacturer : SEVIT Co., Ltd.  
Power Supply Type : Switching  
Power Cord : Non-Shielded, Detachable, 1.2m  
Data Cable : 1.5m Unshielded A/V RCA cable, 1.2m Shielded 15pin D-sub Cable  
1.5m Shielded S-VHS Cable, 1.5m Shielded Audio Cable.

#### Support Unit 1-Persnal computer (DELL)

FCC ID : N/A (DoC)  
Model Name : MMP  
Serial No. : 2LL11S  
Manufacturer : DELL  
Power Supply Type : Switching  
Power Cord : Non-shielded, Detachable: 1.2m  
Data Cable : Shielded, Detachable:1.5m



**Support Unit 2-KeyBoard (DELL)**

FCC ID : N/A (DoC)  
Model Name : SK-8000  
Serial No. : 2965  
Manufacturer : DELL  
Power Supply Type : N/A  
Power Cord : N/A  
Data Cable : Shielded, 1.5m

**Support Unit 3-Mouse (LOGITECH)**

FCC ID : DZL211029  
Model Name : M-S34  
Serial No. : LZC01002314  
Manufacturer : LOGITECH  
Power Supply Type : N/A  
Power Cord : N/A  
Data Cable : None-Shielded, 1.2m

**Support Unit 4- EAR- MIC (JETECH)**

FCC ID : N/A  
Model Name : JE101  
Serial No. : N/A  
Manufacturer : JETECH  
Power Supply Type : N/A  
Power Cord : N/A  
Data Cable : Shielded, 1.5m

**Support Unit 5- USB Mouse (N/A)**

FCC ID : N/A  
Model Name : HL898W  
Serial No. : HL08011837  
Manufacturer : N/A  
Power Supply Type : N/A  
Power Cord : N/A  
Data Cable : None-Shielded, 1.2m

**Support Unit 6- Serial Mouse (PETRA)**

FCC ID : JKGMUS5S01  
Model Name : MUS5S  
Serial No. : E183027  
Manufacturer : PETRA  
Power Supply Type : N/A  
Power Cord : N/A  
Data Cable : Shielded, 1.2m



FCC ID : QDBLT15XMP  
Report No: E02.0513.FCC.271N  
Date of Issue : May 13, 2002

**Support Unit 7- Printer (H.P)**

|                   |                       |
|-------------------|-----------------------|
| FCC ID            | : B94C2164X           |
| Model Name        | : C4562B              |
| Serial No.        | : TH9411434G          |
| Manufacturer      | : H.P                 |
| Power Supply Type | : DC 24V From Adaptor |
| Power Cord        | : Non-Shield, 1.5m    |
| Data Cable        | : Shielded, 1.5m      |

**Support Unit 8- DVD PLAYER (AlphaCast)**

|                   |                       |
|-------------------|-----------------------|
| FCC ID            | : N/S                 |
| Model Name        | : DVDP-M100           |
| Serial No.        | : N/A                 |
| Manufacturer      | : AlphaCast           |
| Power Supply Type | : DC 12V From Adaptor |
| Power Cord        | : Non-Shield, 1.5m    |
| Data Cable        | : Shielded, 1.5m      |

## 5. TEST RESULTS

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### 5.1 Summary of Test Results

The measurement results were obtained with the EUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum emission of the EUT are reported.

| Test Rule Parts | Measurement Required            | Result             |
|-----------------|---------------------------------|--------------------|
| 15.107(e)       | Conducted Emissions Measurement | Passed by – 15.0dB |
| 15.109(e)       | Radiated Emissions Measurement  | Passed by – 3.52dB |

The data collected shows that the SEVIT Co., Ltd. LCD Color TV/Monitor, LT-15AMP complies with technical requirements of above rules part 15.107 and 15.109 Class B Limits

The equipment is not modified anything, mechanical or circuits to improve EMI status during a measurement. No EMI suppression device(s) was added and/or modified during testing.

## 5. TEST RESULTS

### 5.2 Conducted Emissions Measurement

|                       |                                            |
|-----------------------|--------------------------------------------|
| EUT                   | LCD Color TV/Monitor / LT-15AMP (S/N:NONE) |
| Limit apply to        | FCC Part 15 subpart B                      |
| Test Date             | May 08, 2002                               |
| Operating Condition   | 1024 x 768 85Hz Full "H" Pattern Display   |
| Environment Condition | Humidity Level : 52%RH, Temperature : 25   |
| Result                | Passed by -15.0dB                          |

### Conducted Emission Test Data

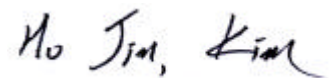
The following table shows the highest levels of conducted emissions on both polarization of live and neutral line.

Detector mode : CISPR Quasi-Peak mode ( 6dB Bandwidth : 9 KHz )

| Frequency<br>[MHz] | Reading<br>[dB $\mu$ V] |         | Phase<br>(*H/**N) | Limit<br>[dB $\mu$ V] |         | Margin<br>[dB] |         |
|--------------------|-------------------------|---------|-------------------|-----------------------|---------|----------------|---------|
|                    | Quasi-peak              | Average |                   | Quasi-peak            | Average | Q.Peak         | Average |
| 0.468              | 26.7                    | -       | H                 | 48.0                  | -       | 21.3           | -       |
| 0.934              | 28.1                    | -       | H                 |                       |         | 19.9           | -       |
| 1.534              | 29.6                    | -       | H                 |                       |         | 18.4           | -       |
| 1.668              | 29.8                    | -       | H                 |                       |         | 18.2           | -       |
| 2.534              | 30.4                    | -       | H                 |                       |         | 17.6           | -       |
| 2.736              | 30.2                    | -       | H                 |                       |         | 17.8           | -       |
| 4.942              | 29.2                    | -       | H                 |                       |         | 18.8           | -       |
| 13.35              | 30.8                    | -       | H                 |                       |         | 17.2           | -       |
| 15.65              | 33.0                    | -       | N                 |                       |         | 15.0           | -       |
| 18.95              | 29.2                    | -       | H                 |                       |         | 18.8           | -       |
| 23.45              | 27.6                    | -       | N                 |                       |         | 20.4           | -       |

#### NOTES :

- \* H : HOT Line , \*\*N: Neutral Line
- Margin value = Limit - Reading
- Measurement were performed at the AC/DC Power Inlet in the frequency band of 450kHz ~ 30MHz according to the FCC Part 15 subpart B



Test Engineer : H. J. Kim



## 5. TEST RESULTS

### Line: NETURAL Line

#### ETL EMC LABORATORY CONDUCTED EMISSION

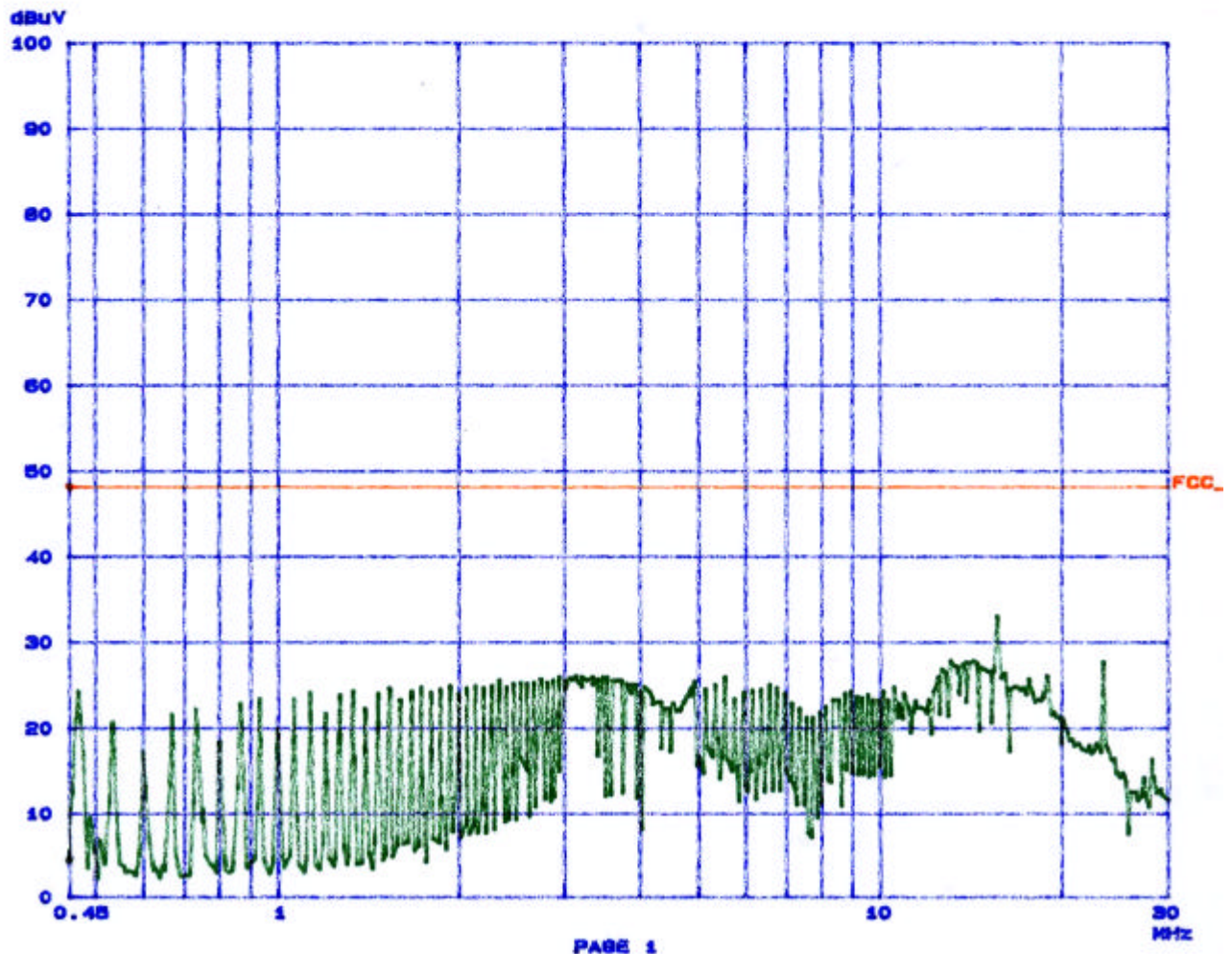
EUT: LCD Color TV/Monitor  
Manuf: SEVIT Co., Ltd.  
Op Cond: 1024x768 @5Hz  
Operator: Ho Jin, KIM  
Test Spec: FCC PART 15 CLASS B  
Comment: NETURAL

#### Scan Settings (2 Ranges)

| Frequencies |      |      | Receiver Settings |          |        |       |        |       |  |
|-------------|------|------|-------------------|----------|--------|-------|--------|-------|--|
| Start       | Stop | Step | IF BW             | Detector | M-Time | Atten | Preamp | OpRge |  |
| 450k        | 5M   | 2k   | 10k               | PK       | 10ms   | AUTO  | LN OFF | 60dB  |  |
| 5M          | 30M  | 50k  | 10k               | PK       | 10ms   | AUTO  | LN OFF | 60dB  |  |

| Transducer | No. | Start | Stop | Name    |
|------------|-----|-------|------|---------|
|            | 1   | 150k  | 30M  | CISPR22 |



## 5. TEST RESULTS

Line: HOT Line

### ETL EMC LABORATORY CONDUCTED EMISSION

11. Apr 12 18:54

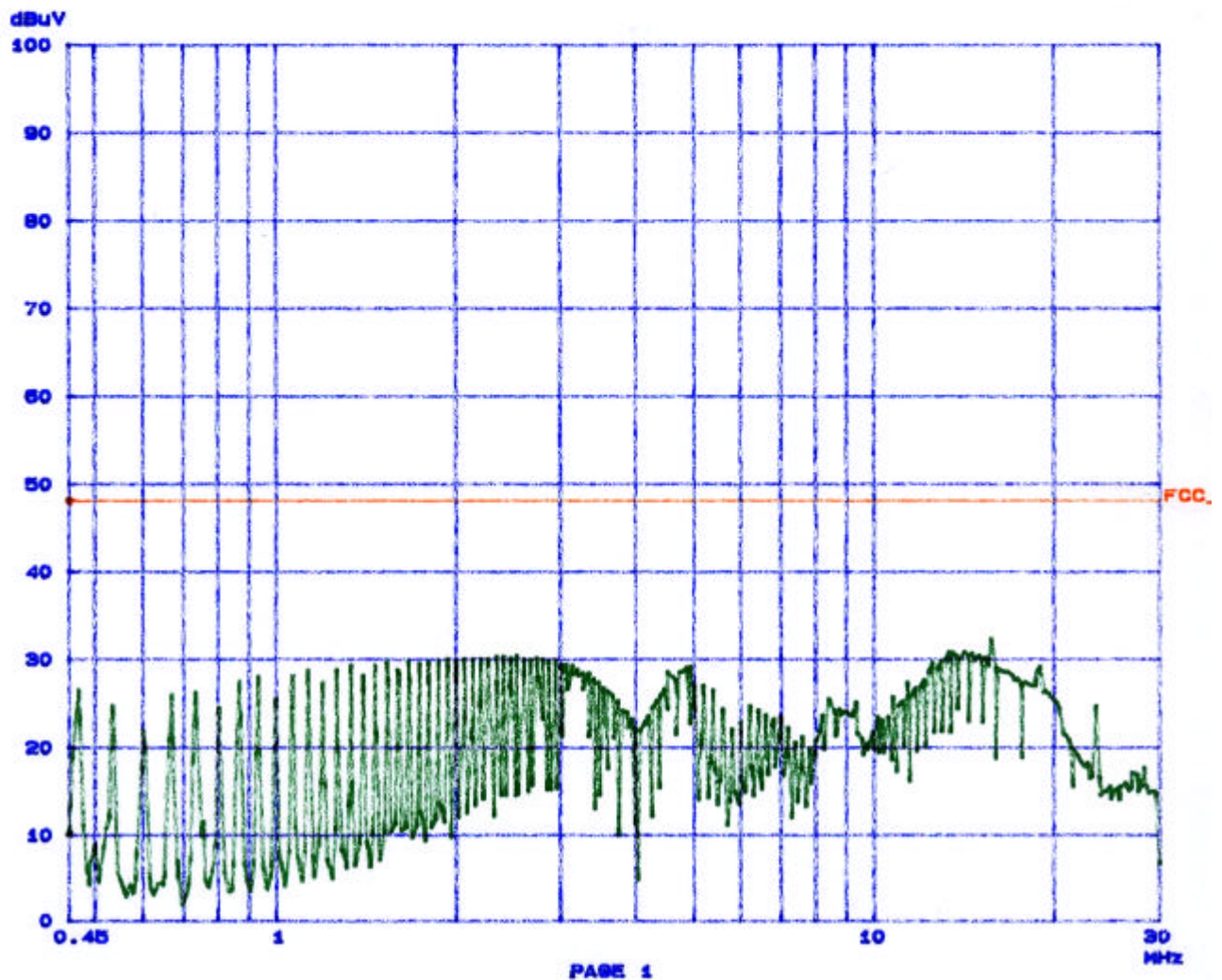
EUT: LCD Color TV/Monitor  
Manuf: SEVIT Co., Ltd.  
Op Cond: 1024x768 60Hz  
Operator: Ho Jin, KIM  
Test Spec: FCC PART 15 CLASS B  
Comment: HOT

#### Scan Settings (2 Ranges)

| Frequencies |      |      | Receiver Settings |          |        |       |        |       |
|-------------|------|------|-------------------|----------|--------|-------|--------|-------|
| Start       | Stop | Step | IF BW             | Detector | M-Time | Atten | Preamp | OpRge |
| 450k        | 5M   | 2k   | 10k               | PK       | 10ms   | AUTO  | LN OFF | 60dB  |
| 5M          | 30M  | 50k  | 10k               | PK       | 10ms   | AUTO  | LN OFF | 60dB  |

| Transducer No. | Start | Stop | Name    |
|----------------|-------|------|---------|
| 1              | 150k  | 30M  | CISPR22 |



## 5. TEST RESULTS

### 5.3 Radiated Emissions Measurement

|                       |                                            |
|-----------------------|--------------------------------------------|
| EUT                   | LCD Color TV/Monitor / LT-15AMP (S/N:NONE) |
| Limit apply to        | FCC Part 15 subpart B                      |
| Test Date             | May 09, 2002                               |
| Operating Condition   | 1024 x 768 85Hz Full "H" Pattern Display   |
| Environment Condition | Humidity Level : 59%RH, Temperature : 23   |
| Result                | Passed by -3.52dB                          |

### Radiated Emission Test Data

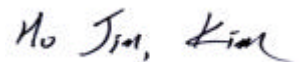
The following table shows the highest levels of radiated emissions on both polarization of horizontal and vertical.

Detector mode : CISPR Quasi-Peak mode ( 6dB Bandwidth : 120 kHz )

| Frequency [MHz] | Reading [dB $\mu$ V] | Polarization (*H/**V) | Ant. Factor [dB] | Cable Loss [dB] | Emission Level [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] | Margin [dB] |
|-----------------|----------------------|-----------------------|------------------|-----------------|-------------------------------|----------------------|-------------|
| 37.75           | 22.06                | V                     | 11.64            | 1.50            | 35.20                         | 40.0                 | 4.80        |
| 122.90          | 25.15                | H                     | 11.25            | 2.80            | 39.20                         | 43.5                 | 4.30        |
| 207.98          | 25.69                | H                     | 8.82             | 3.90            | 38.41                         | 43.5                 | 5.09        |
| 217.40          | 28.53                | H                     | 9.37             | 4.00            | 41.90                         | 46.0                 | 4.10        |
| 322.17          | 25.20                | H                     | 12.68            | 4.60            | 42.48                         | 46.0                 | 3.52        |
| 340.25          | 23.94                | V                     | 13.18            | 4.70            | 41.82                         | 46.0                 | 4.18        |
| 349.70          | 23.80                | V                     | 13.18            | 4.70            | 41.68                         | 46.0                 | 4.32        |
| 472.56          | 19.40                | H                     | 16.88            | 5.70            | 41.98                         | 46.0                 | 4.02        |
| 737.13          | 14.16                | H                     | 20.66            | 7.50            | 42.32                         | 46.0                 | 3.68        |
| 775.00          | 12.82                | H                     | 21.39            | 8.00            | 42.21                         | 46.0                 | 3.79        |
| 926.17          | 6.69                 | H                     | 22.78            | 8.70            | 38.17                         | 46.0                 | 7.83        |

#### NOTES :

1. \* H : Horizontal polarization , \*\* V : Vertical polarization
2. Emission Level = Reading + Antenna factor + Cable loss
3. Margin value = Limit - Emission Level
4. The measurement was performed for the frequency range 30MHz ~ 1000MHz according to the FCC Part 15 subpart B



Test Engineer : H. J. Kim

## 6. SAMPLE CALCULATION

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### Sample Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor.  
The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF$$

where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

$$\text{dB}(\mu\text{V}/\text{m}) = 20 \log_{10} (\mu\text{V} / \text{m}) : \text{Equation 1}$$

$$\text{dB}\mu\text{V} = \text{dBm} + 107 : \text{Equation 2}$$

Example 1 : @ 15.65MHz

|                          |   |                        |   |                        |
|--------------------------|---|------------------------|---|------------------------|
| Class B Limit            | = | 250 $\mu\text{V}$      | = | 48.0 dB $\mu\text{V}$  |
| Reading                  | = | 33.0 dB $\mu\text{V}$  |   |                        |
| Convert to $\mu\text{V}$ | = | 44.67 $\mu\text{V}$    |   |                        |
| Margin                   | = | 33.0 – 48.00           | = | -15.0 dB $\mu\text{V}$ |
|                          | = | -15.0 dB $\mu\text{V}$ |   | below Limit            |

Example 2 : @ 322.17 MHz

|                             |   |                        |   |                        |
|-----------------------------|---|------------------------|---|------------------------|
| Class B Limit               | = | 200 $\mu\text{V}$      | = | 46 dB $\mu\text{V}$    |
| Reading                     | = | 25.20 dB $\mu\text{V}$ |   |                        |
| Antenna Factor + Cable Loss | = | 12.68 dB $\mu\text{V}$ | + | 4.60 dB $\mu\text{V}$  |
| Total                       | = | 17.28 dB $\mu\text{V}$ |   |                        |
| Margin                      | = | 42.48 – 46             | = | -3.52 dB $\mu\text{V}$ |
|                             | = | -3.52 dB $\mu\text{V}$ |   | below Limit            |

## 7. TEST EQUIPMENT LIST

### List of Test Equipments Used for Measurements

|                                     | Test Equipment          | Model       | Mfg.         | Serial No.  | Cal. Due Date |
|-------------------------------------|-------------------------|-------------|--------------|-------------|---------------|
| <input checked="" type="checkbox"/> | Spectrum Analyzer       | R3261A      | Advantest    | 21720033    | 02-10-26      |
| <input checked="" type="checkbox"/> | Receiver                | ESVS 10     | R & S        | 835165/001  | 03-04-06      |
| <input checked="" type="checkbox"/> | EMI Test Receiver       | ESHS 30     | R & S        | 040190/002  | 03-03-19      |
| <input checked="" type="checkbox"/> | Preamplifier            | HP8447D     | HP           | 2944A07626  | 03-01-10      |
| <input type="checkbox"/>            | Preamplifier            | HP 8347A    | HP           | 2834A00544  | 02-05-23      |
| <input checked="" type="checkbox"/> | LISN                    | 3825/2      | EMCO         | 9006-1669   | 02.12.27      |
| <input checked="" type="checkbox"/> | LISN                    | 3825/2      | EMCO         | 9208-1995   | 02.12.27      |
| <input checked="" type="checkbox"/> | TriLog Antenna          | VULB9160    | Schwarz Beck | 3082        | 02-06-19      |
| <input type="checkbox"/>            | LogBicon                | VULB9165    | Schwarz Beck | 2023        | 02-06-19      |
| <input type="checkbox"/>            | Dipole Antenna          | VHAP        | Schwarz Beck | 964         | 03-05-03      |
| <input type="checkbox"/>            | Dipole Antenna          | VHAP        | Schwarz Beck | 965         | 03-05-03      |
| <input type="checkbox"/>            | Dipole Antenna          | UHAP        | Schwarz Beck | 949         | 03-05-03      |
| <input type="checkbox"/>            | Dipole Antenna          | UHAP        | Schwarz Beck | 950         | 03-05-03      |
| <input type="checkbox"/>            | Broad band Horn Antenna | BBHA 9120 D | Schwarz Beck | 277         | 02-11-03      |
| <input checked="" type="checkbox"/> | Turn-Table              | DETT-03     | Daeil EMC    | -           | N/A           |
| <input checked="" type="checkbox"/> | Antenna Master          | DEAM-03     | Daeil EMC    | -           | N/A           |
| <input type="checkbox"/>            | Plotter                 | 7440A       | H.P          | 2725A 75722 | N/A           |
| <input checked="" type="checkbox"/> | Chamber                 | DTEC01      | DAETONG      | -           | N/A           |
| <input checked="" type="checkbox"/> | Impedance Matching Pad  | 6001.01.A   | SUNNER       | 3252        | 02-09-22      |
| <input type="checkbox"/>            | Thermo Hygrograph       | 3-3122      | ISUZU        | 3312201     | 02-12-20      |
| <input type="checkbox"/>            | BaroMeter               | -           | Regulus      | -           | -             |
|                                     |                         |             |              |             |               |