

Date: 2004-02-14

# **TEST REPORT**

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No.: HM112312

## **FCC PART 15 SUBPART C CERTIFICATION REPORT**

### **FOR LOW POWER TRANSMITTER**

#### **TEST REPORT No.: HM112312**

Equipment Under Test [EUT]:

Model Number:

Applicant:

FCC ID:

So Close Crib Monitor

08036

Dorel Juvenile Group

MNJ08036T

Date: 2004-02-14

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### **CONCLUSION**

The submitted product was deemed to have COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

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Verified by  
Ivan Toa

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K C Lee  
for Chief Executive

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## **1.0 General Details**

### **1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.  
EMC Laboratory  
10 Dai Wang Street, Taipo Industrial Estate  
New Territories, Hong Kong

### **1.2 Applicant Details** **Applicant**

Dorel Juvenile Group  
45 Dan Road Canton, MA 02021 USA

**HKSTC Code Number for Applicant**

**EXE001**

### **Manufacturer**

Excel Engineering (HK) Co., Ltd.  
Unit 1101, 11<sup>th</sup> fl. Lippo Sun Plaza,  
28 Canton Road, Tsim Sha Tsi, Kowloon, Hong Kong.

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### **1.3 Equipment Under Test [EUT]**

#### **Description of Sample**

Product: So Close Crib Monitor  
Manufacturer: Excel Engineering (HK) Co., Ltd.  
Brand Name: Safety 1<sup>st</sup>  
Model Number: 08036  
Input Voltage: 120Va.c.

#### **1.3.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a Dorel Juvenile Group, So Close Crib Monitor. The transmitter is a 2 button transmitter. The EUT continues to transmit while button is being pressed. It is voice transmission, Modulation by Mic. and tape is frequency modulation.

### **1.4 Date of Order**

2003-12-08

### **1.5 Submitted Sample(s):**

2 Sample per model

### **1.6 Test Duration**

2004-01-16

### **1.7 Country of Origin**

China

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### 1.8 Additional Information of EUT

|                                    | Submitted                           | Not Available            |
|------------------------------------|-------------------------------------|--------------------------|
| User Manual                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Part List                          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Circuit Diagram                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Printed Circuit Board [PCB] Layout | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Block diagram                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| FCC ID Label                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.4:2000 for FCC Certification.

#### **2.2 Test Standards and Results Summary Tables**

| <b>EMISSION<br/>Results Summary</b>                                |                  |                 |                     |                                     |                          |                          |
|--------------------------------------------------------------------|------------------|-----------------|---------------------|-------------------------------------|--------------------------|--------------------------|
| Test Condition                                                     | Test Requirement | Test Method     | Class /<br>Severity | Test Result                         |                          |                          |
|                                                                    |                  |                 |                     | Pass                                | Failed                   | N/A                      |
| Field Strength of<br>Fundamental Emissions<br>& Spurious Emissions | FCC 47CFR 15.249 | ANSI C63.4:2000 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emissions,<br>30MHz to 1GHz                               | FCC 47CFR 15.109 | ANSI C63.4:2000 | Class B             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Conducted Emissions on<br>AC, 0.15MHz to 30MHz                     | FCC 47CFR 15.207 | ANSI C63.4:2000 | Class B             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Note: N/A - Not Applicable

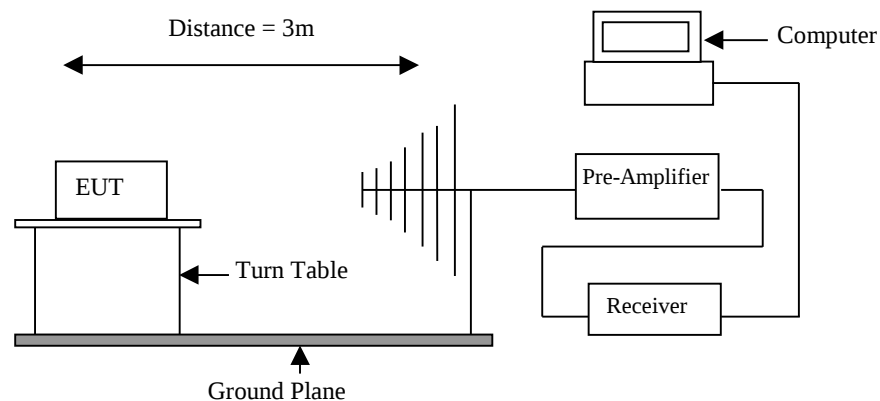
**3.0 Test Results****3.1 Emission****3.1.1 Radiated Emissions (30 – 1000MHz)**

|                    |                          |
|--------------------|--------------------------|
| Test Requirement:  | FCC 47CFR 15.109 Class A |
| Test Method:       | ANSI C63.4:2000          |
| Test Date:         | 2004-01-16               |
| Mode of Operation: | On mode                  |

**Test Method:**

The sample was placed 0.8m above the ground plane on the OATS \*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\*: OATS [Open Area Test Site] located at HKSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657.

**Test Setup:**

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## Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:

| Frequency Range of Fundamental [MHz] | Field Strength of Fundamental Emission [Millivolts/meter] | Field Strength of Fundamental Emission [microvolts/meter] |
|--------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|
| 902-928                              | 50                                                        | 500                                                       |
| 2400-2483.5                          | 50                                                        | 500                                                       |
| 5725-5875                            | 50                                                        | 500                                                       |
| 24000-22500                          | 250                                                       | 2500                                                      |

## Results: Channel 1

| Field Strength of Fundamental Emissions<br>Peak Value |                                 |                                |                             |                           |                      |                     |
|-------------------------------------------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|----------------------|---------------------|
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBμV/m | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit<br>@3m<br>μV/m | E-Field<br>Polarity |
| 906.00                                                | 58.3                            | 30.0                           | 88.3                        | 26,001.6                  | 50,000.0             | Vertical            |

| Field Strength of Spurious Emissions<br>Peak Value |                                 |                                |                             |                           |                   |                     |
|----------------------------------------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Frequency<br>MHz                                   | Measured<br>Level @3m<br>dBμV/m | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
| 1812.00                                            | < 1.0                           | 24.9                           | < 25.9                      | < 19.7                    | 5,000.0           | Vertical            |
| + 2718.00                                          | < 1.0                           | 29.8                           | < 30.8                      | < 34.7                    | 5,000.0           | Vertical            |
| + 3624.00                                          | < 1.0                           | 32.2                           | < 33.2                      | < 45.7                    | 5,000.0           | Vertical            |
| + 4530.00                                          | < 1.0                           | 38.8                           | < 39.8                      | < 97.7                    | 5,000.0           | Vertical            |
| + 5436.00                                          | < 1.0                           | 17.4                           | < 18.4                      | < 8.3                     | 5,000.0           | Vertical            |
| 6342.00                                            | < 1.0                           | 17.2                           | < 18.2                      | < 8.1                     | 5,000.0           | Vertical            |
| 7248.00                                            | < 1.0                           | 18.8                           | < 19.8                      | < 9.8                     | 5,000.0           | Vertical            |
| + 8154.00                                          | < 1.0                           | 19.7                           | < 20.7                      | < 10.8                    | 5,000.0           | Vertical            |
| + 9060.00                                          | < 1.0                           | 20.6                           | < 21.6                      | < 12.0                    | 5,000.0           | Vertical            |

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Results: Channel 2

| Field Strength of Fundamental Emissions |                                       |                                      |                                   |                                |                           |                     |
|-----------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|---------------------------|---------------------|
| Peak Value                              |                                       |                                      |                                   |                                |                           |                     |
| Frequency<br>MHz                        | Measured<br>Level @3m<br>dB $\mu$ V/m | Correction<br>Factor<br>dB $\mu$ V/m | Field<br>Strength<br>dB $\mu$ V/m | Field<br>Strength<br>$\mu$ V/m | Limit<br>@3m<br>$\mu$ V/m | E-Field<br>Polarity |
| 906.69                                  | 58.4                                  | 30.0                                 | 88.4                              | 26,302.7                       | 50,000.0                  | Vertical            |

| Field Strength of Spurious Emissions |                                       |                                      |                                   |                                |                        |                     |
|--------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Peak Value                           |                                       |                                      |                                   |                                |                        |                     |
| Frequency<br>MHz                     | Measured<br>Level @3m<br>dB $\mu$ V/m | Correction<br>Factor<br>dB $\mu$ V/m | Field<br>Strength<br>dB $\mu$ V/m | Field<br>Strength<br>$\mu$ V/m | Limit @3m<br>$\mu$ V/m | E-Field<br>Polarity |
| 1813.38                              | < 1.0                                 | 24.9                                 | < 25.9                            | < 19.7                         | 5,000.0                | Vertical            |
| + 2720.07                            | < 1.0                                 | 29.8                                 | < 30.8                            | < 34.7                         | 5,000.0                | Vertical            |
| + 3626.76                            | < 1.0                                 | 32.2                                 | < 33.2                            | < 45.7                         | 5,000.0                | Vertical            |
| + 4533.45                            | < 1.0                                 | 38.8                                 | < 39.8                            | < 97.7                         | 5,000.0                | Vertical            |
| + 5440.14                            | < 1.0                                 | 17.4                                 | < 18.4                            | < 8.3                          | 5,000.0                | Vertical            |
| 6346.83                              | < 1.0                                 | 17.2                                 | < 18.2                            | < 8.1                          | 5,000.0                | Vertical            |
| + 7253.52                            | < 1.0                                 | 18.8                                 | < 19.8                            | < 9.8                          | 5,000.0                | Vertical            |
| + 8160.21                            | < 1.0                                 | 19.7                                 | < 20.7                            | < 10.8                         | 5,000.0                | Vertical            |
| + 9066.90                            | < 1.0                                 | 20.6                                 | < 21.6                            | < 12.0                         | 5,000.0                | Vertical            |

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz  $\pm 5.7$ dB

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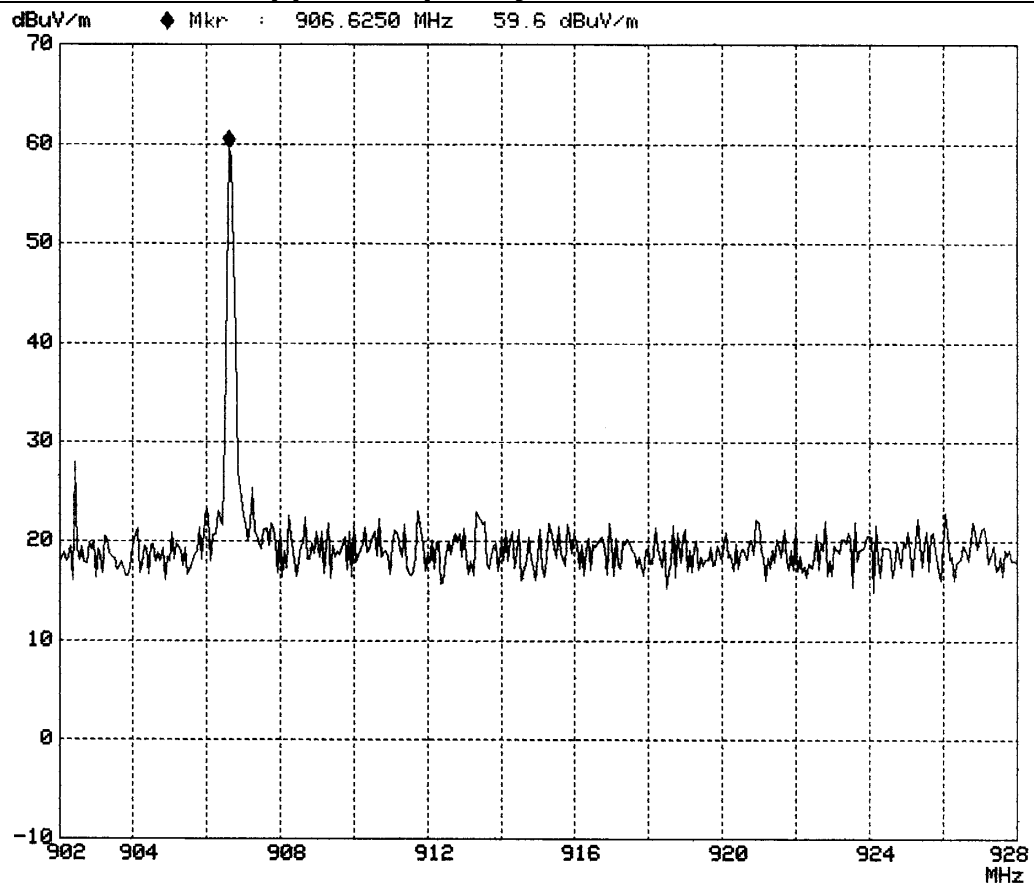
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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:

|                                            |
|--------------------------------------------|
| Frequency Range of<br>Fundamental<br>[MHz] |
| 902-928                                    |

### Upper Frequency of Fundamental



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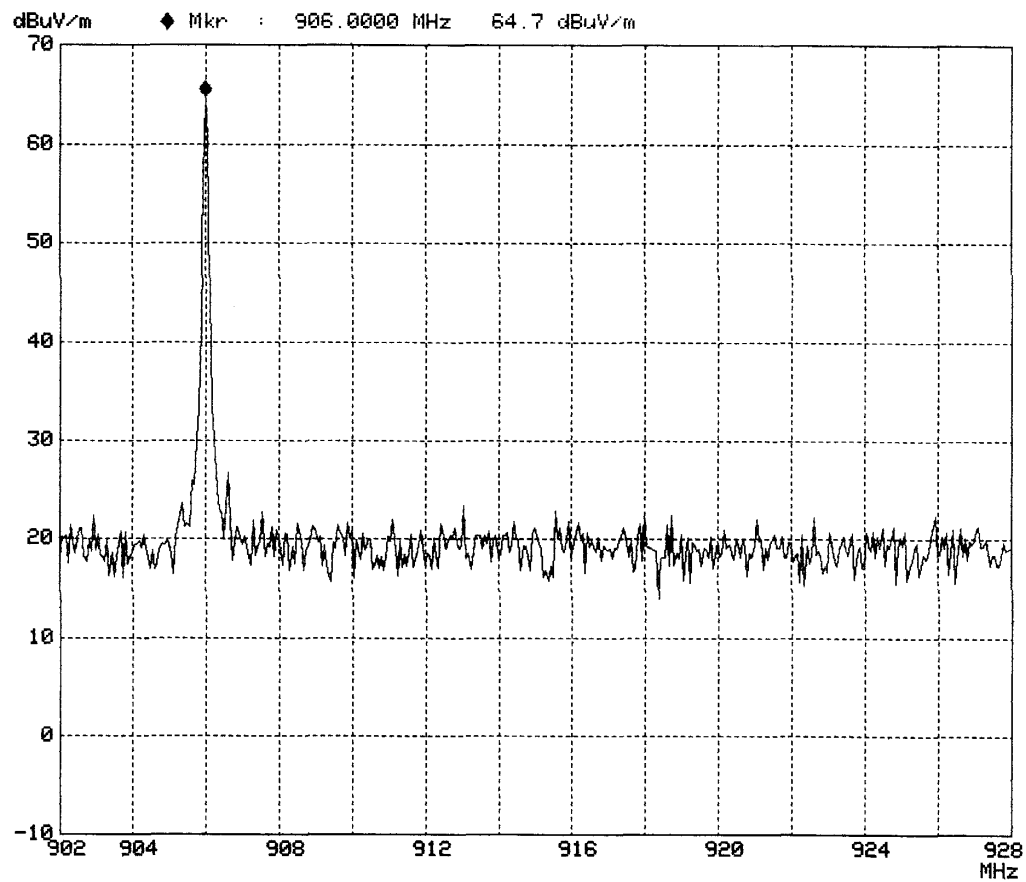
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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:

|                                            |
|--------------------------------------------|
| Frequency Range of<br>Fundamental<br>[MHz] |
| 902-928                                    |

### Upper Frequency of Fundamental



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**Limits for Radiated Emissions [FCC 47 CFR 15.109 Class B]:**

| Frequency Range<br>[MHz] | Quasi-Peak Limits<br>[μV/m] |
|--------------------------|-----------------------------|
| 30-88                    | 100                         |
| 88-216                   | 150                         |
| 216-960                  | 200                         |
| Above960                 | 500                         |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

**Results:**

| <b>Radiated Emissions<br/>Quasi-Peak</b>                |                     |                         |                         |                           |                       |
|---------------------------------------------------------|---------------------|-------------------------|-------------------------|---------------------------|-----------------------|
| Emission<br>Frequency<br>MHz                            | E-Field<br>Polarity | Level<br>.@3m<br>dBμV/m | Limit<br>.@3m<br>dBμV/m | Level @3m<br>.@3m<br>μV/m | Limit<br>.@3m<br>μV/m |
| <b>NO EMISSION DETECTED WITH 20dB OF THE FCC LIMITS</b> |                     |                         |                         |                           |                       |

Calculated measurement uncertainty : 30MHz to 1GHz ±5.7dB

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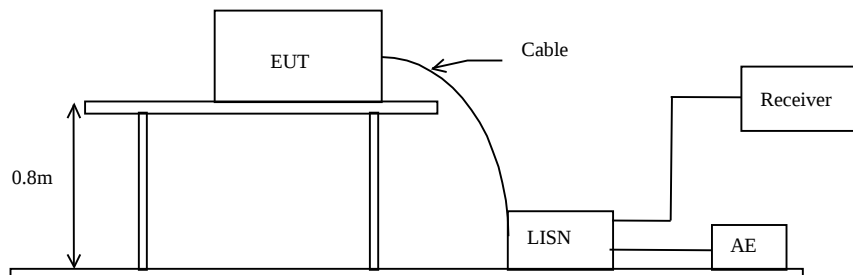
### **3.1.2 Conducted Emissions (0.15MHz to 30MHz)**

|                    |                  |
|--------------------|------------------|
| Test Requirement:  | FCC 47CFR 15.207 |
| Test Method:       | ANSI C63.4:2000  |
| Test Date:         | 2004-01-16       |
| Mode of Operation: | On mode          |

#### **Test Method:**

The test was performed in accordance with ANSI C63.4:2000, with the following: an initial measurement was performed in peak and average detection mode on the live line. Any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

#### **Test Setup:**



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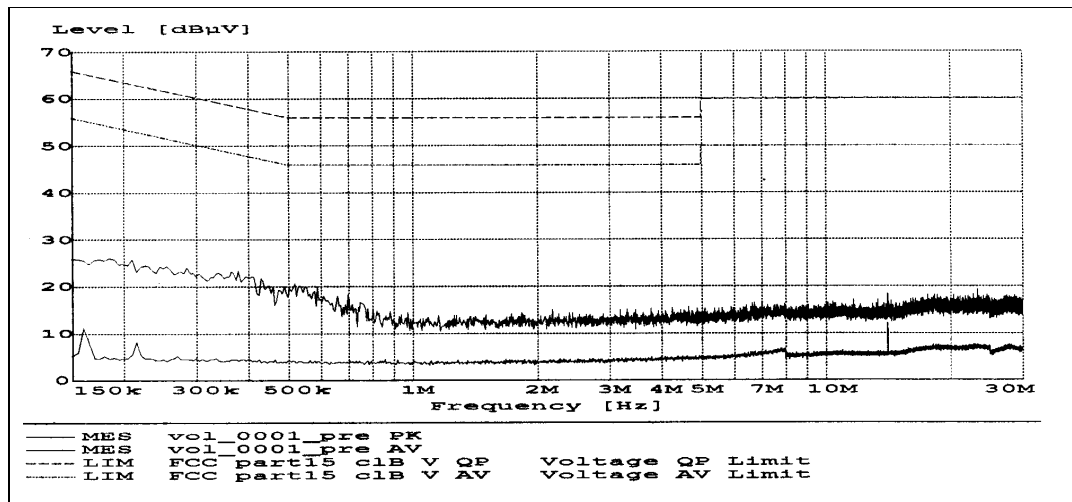
### Limits for Conducted Emissions (FCC 47 CFR 15.107):

| Frequency Range<br>[MHz] | Quasi-Peak Limits<br>[dB $\mu$ V] | Average<br>[dB $\mu$ V] |
|--------------------------|-----------------------------------|-------------------------|
| 0.15-0.5                 | 66 to 56*                         | 56 to 46*               |
| 0.5-5.0                  | 56                                | 46                      |
| 5.0-30.0                 | 60                                | 50                      |

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

### Results: Channel 1



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### Results: Channel 1

| Conductor<br>Live or Neutral | Frequency<br>MHz | Quasi-peak          |                     | Average             |                     |
|------------------------------|------------------|---------------------|---------------------|---------------------|---------------------|
|                              |                  | Level<br>dB $\mu$ V | Limit<br>dB $\mu$ V | Level<br>dB $\mu$ V | Limit<br>dB $\mu$ V |
| Live                         | 0.415            | 20.7                | 58.0                | -*-                 | -*-                 |
| Live                         | 0.545            | 20.0                | 56.0                | -*-                 | -*-                 |
| Live                         | 0.625            | 20.2                | 56.0                | -*-                 | -*-                 |
| Live                         | 0.740            | 16.7                | 56.0                | -*-                 | -*-                 |
| Live                         | 14.155           | -*-                 | -*-                 | 22.8                | 50.0                |

Remarks:

Calculated measurement uncertainty :  $\pm 3.9$ dB

-\*- Emission greater than 30dB below limit line.

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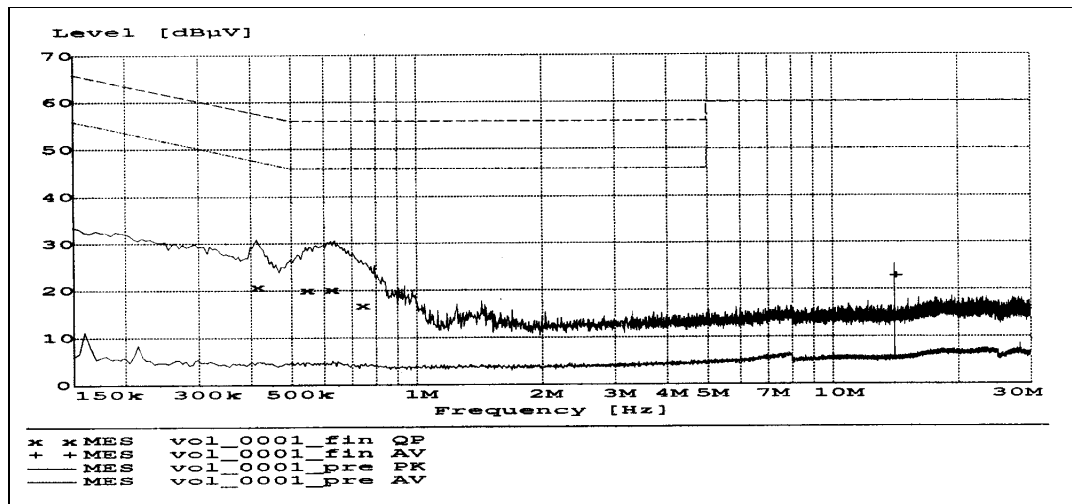
### Limits for Conducted Emissions (FCC 47 CFR 15.107):

| Frequency Range<br>[MHz] | Quasi-Peak Limits<br>[dB $\mu$ V] | Average<br>[dB $\mu$ V] |
|--------------------------|-----------------------------------|-------------------------|
| 0.15-0.5                 | 66 to 56*                         | 56 to 46*               |
| 0.5-5.0                  | 56                                | 46                      |
| 5.0-30.0                 | 60                                | 50                      |

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

### Results: Channel 2



### Results:

| Conductor<br>Live or Neutral                       | Frequency<br>MHz | Quasi-peak          |                     | Average             |                     |
|----------------------------------------------------|------------------|---------------------|---------------------|---------------------|---------------------|
|                                                    |                  | Level<br>dB $\mu$ V | Limit<br>dB $\mu$ V | Level<br>dB $\mu$ V | Limit<br>dB $\mu$ V |
| NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS |                  |                     |                     |                     |                     |

### Remarks:

Calculated measurement uncertainty:  $\pm 3.9$ dB

-\*- Emission greater than 30dB below limit line.

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### Appendix A

#### Test Equipment Audit

##### Radiated Emission

| EQP NO. | DESCRIPTION                                                                  | MANUFACTURER                                          | MODEL NO.                      | SERIAL NO.                             | LAST CAL |
|---------|------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------|----------------------------------------|----------|
| EM007   | SPECTRUM ANALYZER                                                            | HEWLETT PACKARD                                       | HP85660B                       | 3144A21192                             | 14/03/03 |
| EM008   | SPECTRUM ANALYZER DISPLAY                                                    | HEWLETT PACKARD                                       | HP85662A                       | 3144A20514                             | 14/03/03 |
| EM009   | QUASI PEAK ADAPTOR                                                           | HEWLETT PACKARD                                       | HP85650A                       | 3303A01702                             | 14/03/03 |
| EM010   | RF PRESELECTOR                                                               | HEWLETT PACKARD                                       | HP85685A                       | 3221A01410                             | 14/03/03 |
| EM011   | ATTENUATOR/SWITCH                                                            | HEWLETT PACKARD                                       | HP11713A                       | 2508A10595                             | 14/03/03 |
| EM012   | PRE-AMPLIFIER                                                                | HEWLETT PACKARD                                       | HP8449B                        | 3008A00262                             | 14/03/03 |
| EM013   | CONTROLLER (COMPUTER),<br>COLOR MONITOR, KEYBOARD &<br>MOUSE<br>FLOPPY DRIVE | HEWLETT PACKARD<br>HEWLETT PACKARD<br>HEWLETT PACKARD | HP9000<br>HP A1097C<br>HP9133L | 6226A60314<br>3151J39517<br>2623A02468 | CM       |
| EM020   | HORN ANTENNA                                                                 | EMCO                                                  | 3115                           | 4032                                   | 19/07/00 |
| EM022   | LOOP ANTENNA                                                                 | EMCO                                                  | 6502                           | 1189-2424                              | 04/08/00 |
| EM072   | SIGNAL GENERATOR                                                             | HEWLETT PACKARD                                       | 8640B                          | 1948A11892                             | N/A      |
| EM083   | HKSTC OPEN AREA TEST SITE                                                    | HKSTC                                                 | N/A                            | N/A                                    | 08/11/02 |
| EM131   | PORTABLE SPECTRUM<br>ANALYSER                                                | HEWLETT PACKARD                                       | 8595EM                         | 3710A00155                             | 18/12/01 |
| EM145   | EMI TEST RECEIVER                                                            | R & S                                                 | ESCS 30                        | 830245/021                             | 02/08/03 |
| EM194   | BICONILOG ANTENNA                                                            | EMCO                                                  | 3142B                          | 1795                                   | 14/05/02 |
| EM195   | ANTENNA POSITIONING MAST                                                     | EMCO                                                  | 2075                           | 2368                                   | N/A      |
| EM196   | MULTI-DEVICE CONTROLLER                                                      | EMCO                                                  | 2090                           | 1662                                   | N/A      |

##### Conducted Emission

| EQP NO. | DESCRIPTION                         | MANUFACTURER                     | MODEL NO.  | SERIAL NO.          | LAST CAL |
|---------|-------------------------------------|----------------------------------|------------|---------------------|----------|
| EM078   | VARIAC                              | SHANGHAI VOLTAGE                 | TDGC-3/0.5 | N/A                 | CM       |
| EM081   | SMALL SCREENED ROOM                 | MIKO INST HK                     | N/A        | N/A                 | 18/10/02 |
| EM119   | LISN                                | R & S                            | ESH3-Z5    | 0831.5518.5<br>2    | 01/10/02 |
| EM127   | ISOLATION TRANSFORMER 220<br>TO 300 | WING SUN                         | N/A        | N/A                 | CM       |
| EM142   | PULSES LIMITER                      | R & S                            | ESH3Z2     | 357.8810.52         | 03/07/02 |
| EM181   | EMI TEST RECEIVER                   | R & S                            | ESIB7      | 100072              | 28/11/01 |
| EM154   | SHIELDING ROOM                      | SIEMENA MATSUSHITA<br>COMPONENTS | N/A        | 803-740-057-<br>99A | 18/10/02 |
| EM197   | LISN                                | EMCO                             | 4825/2     | 1193                | 08/04/03 |

Remarks:

CM      Corrective Maintenance  
N/A      Not Applicable or Not Available  
TBD      To Be Determined

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### Appendix B

#### Photographs of EUT

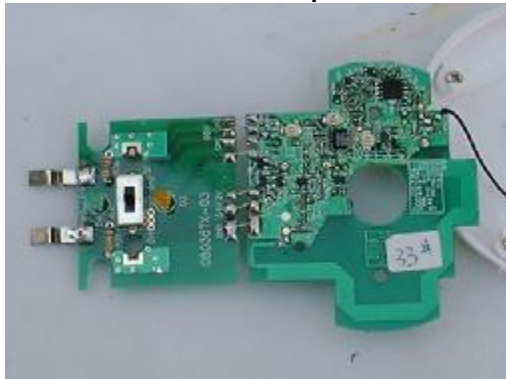
Front View of the product



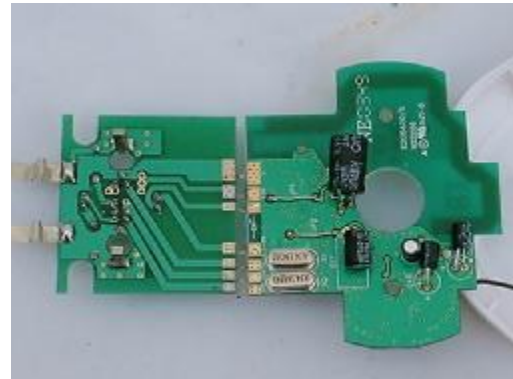
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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### Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Conducted Emission Test Set Up



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