

ADDRESS: No.85-5, Shir Men Road, Tu Cheng City,

Taipei Hsien, TAIWAN, R. O. C.

PHONE: 886-2-22608375 FAX: 886-2-22748013

E - mail : hometek@ms15.hinet.net

# FCC TEST REPORT FOR

APPLICANT: SILITEK CORPORATION.

ADDRESS: 10F, 25, Sec. 1, Tung Hwa S. Rd.,

Taipei, Taiwan, R. O. C.

EUT : Keyboard

MODEL NO.: SK-2511A, SK-2511A-2D

FCC ID : GYUR73SK

# Under Part 15, SUBPART B. CLASS B

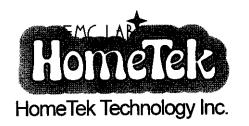
# **Certification**

# PREPARED BY:

HomeTek Technology Inc.

No. 85-5, Shir Men Road, Tu Cheng City, Taipei Hsien. TAIWAN, R. O. C.

Report #: FB8D011



ADDRESS: No.85-5, Shir Men Road, Tu Cheng City,

Taipei Hsien, TAIWAN, R. O. C.

PHONE: 886-2-22608375 FAX: 886-2-22748013

E - mail

: hometek@ms15.hinet.net

# TEST REPORT CERTIFICATION

| EUT             | : Keyboard                          |                        |         |  |  |  |
|-----------------|-------------------------------------|------------------------|---------|--|--|--|
| MODEL NO.       | : SK-2511A, SK-2                    | 511A-2D                |         |  |  |  |
| FCC ID          | : GYUR73SK                          |                        |         |  |  |  |
| Final Test Date | : 4/21/99                           | REPORT #:              | FB8D011 |  |  |  |
| APPLICANT       | : SILITEK CORPO                     | : SILITEK CORPORATION. |         |  |  |  |
| ADDRESS         | : 10F, 25, Sec. 1, Tung Hwa S. Rd., |                        |         |  |  |  |
|                 | Taipei, Taiwan, F                   | R. O. C.               |         |  |  |  |
|                 |                                     |                        |         |  |  |  |

# MEASUREMENT PROCEDURE USED:

PART 15 SUBPART B OF FCC RULES AND REGULATIONS (47 CFR PART 15) FCC / ANSI C63.4-1992

#### WE HEREBY SHOW THAT:

THE MEASUREMENT SHOWN IN THE ATTACHMENT WERE MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE MAXIMUM ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE FCC LIMITS APPLICABLE.

THIS TEST RESULTS OF THIS REPORT APPLIES TO ABOVE TESTED SAMPLE ONLY.

THIS TEST REPORT SHALL NOT BE REPRODUCE IN PART WITHOUT WRITTEN APPROVAL OF HOMETEK TECHNOLOGY INC.

| TEST ENGINEER | : Zemy              | DATE :    | 27/99  |
|---------------|---------------------|-----------|--------|
| СНЕСК ВҮ      | :                   | DATE: $-$ | -8/aq. |
| APPROVED BY   | Gent Hang           | DATE: 4/- | 8/99   |
| MIROVEDET     | GRANT HUANG/Manager |           |        |



# TABLE OF CONTENTS

| GENERAL INFORMATION                               | 2  |
|---|----|
| MODIFICATION LIST                                 | 5  |
| CONDUCTED POWER LINE TEST                         | 6  |
| 1 TEST INSTRUMENTS & FACILITIES                   | 6  |
| 2 TEST PROCEDURE                                  | 6  |
| 3 TEST SETUP                                      | 7  |
| 4 CONFIGURATION OF THE EUT                        | 9  |
| 5 EUT OPERATING CONDITION                         | 14 |
| 6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B: | 14 |
| 7 RESULT OF CONDUCTED POWER LINE TEST             | 15 |
| 8 PHOTO OF CONDUCTED POWER LINE TEST              | 16 |
| RADIATED EMISSION TEST                            | 17 |
| 1 TEST INSTRUMENTS & FACILITIES                   | 17 |
| 2 TEST PROCEDURE                                  | 18 |
| 3 TEST SETUP                                      | 18 |
| 4 CONFIGURATION OF THE EUT                        | 20 |
| 5 EUT OPERATING CONDITION                         | 20 |
| 6 LIMIT OF RADIATED EMISSION CLASS B:             | 20 |
| 7 RESULT OF RADIATED EMISSION TEST                | 21 |
| 8 PHOTO OF RADIATED EMISSION TEST                 | 23 |
| PHOTO OF FCC ID LABEL                             | 24 |
| PHOTOS OF EUT                                     | 25 |
| PHOTOS OF EUT                                     | 26 |
| PHOTOS OF EUT                                     | 27 |
| PHOTOS OF EUT                                     | 28 |
| PHOTOS OF EUT                                     | 29 |
| PHOTOS OF EUT                                     | 30 |
| PHOTOS OF EUT                                     | 31 |
| PHOTOS OF EUT                                     | 32 |
| PHOTOS OF EUT                                     | 33 |
| ADDENDIY A  |    |

## APPENDIX A

CIRCUIT (BLOCK) DIAGRAM

## APPENDIX B

USER'S MANUAL

# FCC ID : <u>GYUR73SK</u>

### GENERAL INFORMATION

1 APPLICANT : SILITEK CORPORATION.

2 ADDRESS : 10F, 25, Sec. 1, Tung Hwa S. Rd.,

Taipei, Taiwan, R. O. C.

3 MANUFACTURER: SILITEK CORPORATION.

4 ADDRESS : 10F, 25, Sec. 1, Tung Hwa S. Rd.,

Taipei, Taiwan, R. O. C.

5 DESCRIPTION OF EUT:

EUT : Keyboard

FCC ID : GYUR73SK

Model Number : <u>SK-2511A, SK-2511A-2D</u>

Serial # : N/A

Data Cable : SHIELDED

Power Cord : N/A

Power Supply Type : N/A

5.1 SK-2511A-2D for OEM Model.

FB8D011 Page: 2 of 33

### 6 FEATURES OF EUT:

6.1 PC/AT, PS/2 This keyboard is designed to be AT, PS/2 mode Mode Selection

selection is done by auto-switchable.

6.2 Mode There are three LEDs on the keyboard to indicate Indicators 'Caps

Lock', 'Num Lock' and 'Scroll Lock'.

The LEDs are 'toggled'. The first depression of the key turns on the

FCC ID: GYUR73SK

LED.

The second depression turns the LED off and so on. LEDs are off on power-up or software reset, but will flash during power-on

initialization.

6.3 Type Ahead The keyboard has 16 keys type ahead capability. This means that

you can depress 16 keys before host can receive. If more keys are pressed before the host allows keyboard output, the additional data

is lost.

6.4 Typematic With the exception of the Pause key, all keys are Delay and

typematic.

When a key is pressed and held down, the Repeat keyboard delays 0.5 sec. and begins sending a make Rate Code for that key at a rate of 10.9 characters per second. (The delay is called typematic Delay

and the rate is called Repeat Rate.)

If two or more keys are pressed, only the last key pressed is repeated at the repeat rate. Typematic operation stops only when the last key pressed is released, even if other keys are still held down. If a key is pressed and held down while keyboard transmission is disable, only the first make code is stored in the type ahead buffer.

This prevents the type ahead buffer overflow as result of typematic action.

In AT mode, the typematic delay and repeat rate are programmable, this is done by command from host.

The default data:

Typematic Delay = 0.5 sec.

Repeat Rate = 10.9 characters per sec.

FB8D011 Page: 3 of 33

FCC ID: GYUR73\$K

# 6.5 Diagnostic

The keyboard microprocessor will perform a diagnostic test selftest after Power-up or after the host system signals the keyboard to perform a software Reset.

The microprocessor will check its data memory locations, do a sum-check internal RAM check and check for any depressed keys. If the diagnostic test is correct, the keyboard will transmit an 'AA HEX' code.

This will be the first transmission following a Power-Up condition.

If the diagnostic test was unsuccessful, then the keyboard will transmit an 'FD/FC HEX' code. In either case, after the diagnostic check the keyboard will begin normal operation.

FB8D011 Page: 4 of 33

FCC ID : <u>GYUR73SK</u>

# **MODIFICATION LIST**

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING:

NO MODIFICATION BY HOMETEK TECHNOLOGY INC.

FB8D011 Page: 5 of 33

FCC ID: GYUR73SK

#### CONDUCTED POWER LINE TEST

#### **TEST INSTRUMENTS & FACILITIES** 1

The following test Instruments was used during the conducted test:

| Item | Instruments/<br>Facilities | Specification                  | Manufacturer       | Model # /<br>S/N#     | Date Of<br>Cal. |
|------|----------------------------|--------------------------------|--------------------|-----------------------|-----------------|
| 1    | EMI Receiver               | 9KHz ~ 30MHz                   | ROHDE &<br>SCHWARZ | ESHS 30<br>844827/007 | FEB/99          |
| 2    | LISN                       | 50 Ω/50uH/100A<br>9KHz ~ 30MHz | SCHWARZ<br>BECK    | NNLK 8121<br>8121370  | FEB/99          |
| 3    | LISN                       | 9KHz ~ 30MHz                   | ROHDE &<br>SCHWARZ | ESH3-Z5<br>846128/007 | FEB/99          |
| 4    | Pulse Limiter              | 9KHz ~ 30MHz                   | ROHDE &<br>SCHWARZ | ESH3Z2<br>357.8810.52 | JUL/98          |

All equipment upon which need to calibrated are with period of 1 year. Note:

#### 2 TEST PROCEDURE

- The EUT was tested according to ANSI C63.4 1992. 2.1
- The EUT was placed 0.4 meter from the conducting wall of shielding room and 2.2 kept at least 0.8 meter from any other grounded conducting surface.
- The frequency range form 0.45 MHz to 30 MHz was investigated. 2.3
- The LISN used was 50 Ohm / 50 uHenry as specified by Section 5.1 of 2.4 ANSI C63.4 - 1992.
- 2.5 All the support peripherals are connect to the other LISN.
- Cables and peripherals were moved to find the maximum emission levels for each 2.6 frequency.

Page: 6 of 33 FB8D011

#### **TEST SETUP** 3

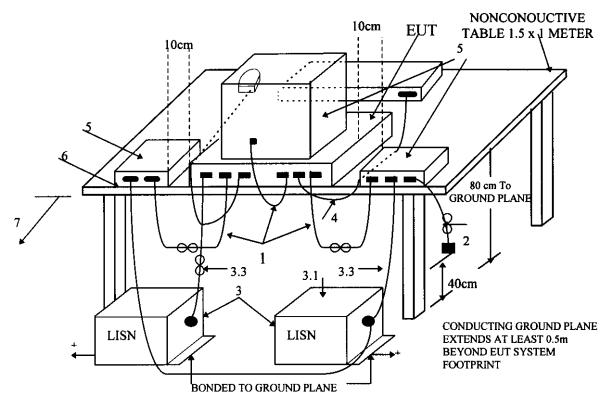
#### Typical: Setup Of Conducted Test 3.1

**ANSI** 

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9kHz TO 40 GHz

C63.4-1992

FCC ID: GYUR73\$K



+LISNs may have to be moved to the side to meet 3.3 below.

#### LEGEND:

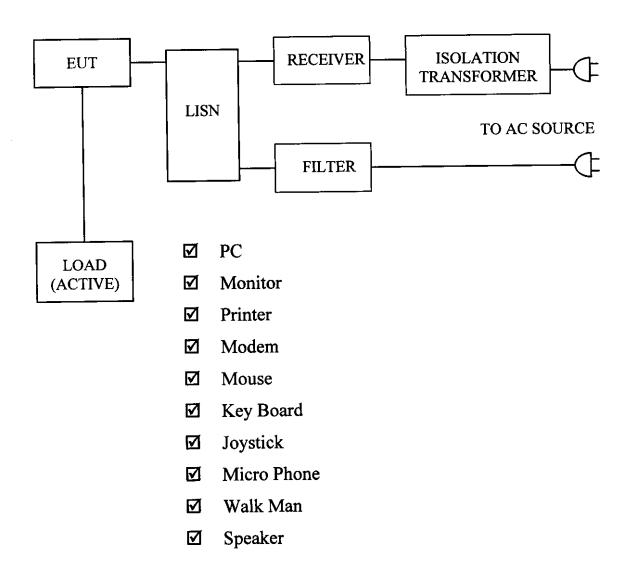
- 1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
- 2. I/O cables that are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1m.
- 3. EUT connected to one LISN. Unused LISN connectors shall be terminated in 50  $\Omega$ . LISN can be placed on top of, or immediately beneath, ground plane.
  - 3.1 All other equipment powered from second LISN.
  - 3.2 Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
  - 3.3 LISN at least 80 cm from nearest part of EUT chassis.
- 4. Cables of hand-operated devices, such as keyboards, mouses, etc., have to be placed as close as possible to the host.
- 5. Non-EUT components being tested.
- 6. Rear of EUT, including peripherals, shall be all aligned and flush with rear of tabletop.
- 7. Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the floor ground plane (see 5.2).

# **Test Configuration Tabletop Equipment Conducted Emission**

Page: 7 of 33 FB8D011

FCC ID: GYUR73SK

# 3.2 Block Diagram Of Conducted Test



Page: 8 of 33

# FCC ID: GYUR73SK

#### 4 CONFIGURATION OF THE EUT

The EUT was configured according to ANSI C63.4 - 1992. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device):

4.1 EUT

EUT Type : □Proto Type ☑Engineer Type □Mass Production

Condition when received: ☐Good ☐Damage: \_\_\_\_\_

Connector Type : ☑Metal Type □Plastic Type

Device : Keyboard

Manufacturer : SILITEK

Model Number : SK-2511A, SK-2511A-2D

Serial Number : N/A

FCC ID : GYUR73SK

Data Cable : Shielded, 1.7 m

Power Cord : N/A

#### 4.2 PERIPHERALS

FCC ID

☑ Host Personal Computer

Manufacturer : UMAX

Model Number : UDLX-A0

Serial Number : FP8500005X2A

Data Cable : Shielded

Power Cord : Shielded, 1.8 m

FB8D011 Page: 9 of 33

: FCC DoC

FCC ID: GYUR73SK

☑ Monitor

: ATEC Manufacturer

: G450DU Model Number

: 714PD000Q0002 Serial Number

: GKR450 FCC ID

: Shielded, 1.5 m, Connected to the VGA port Data Cable

: Un-Shielded, 1.8 m Power Cord

Printer

HP Manufacturer

: DJ400 Model Number

: MY77V1C0DD Serial Number

: B94C2642X FCC ID

Shielded, 1.5 m, Connected to the Printer port Data Cable

Un-Shielded, 1.8 m Power Cord & Adaptor :

☑ Modem

: DATATRONIC Manufacturer

: 2814CX Model Number

: 1150541132 Serial Number

: FCC DoC FCC ID

Shielded, 1.5 m, Connected to the COM port Data Cable

Power Cord & Adaptor : Un-Shielded, 1.8 m

Page: 10 of 33

FB8D011

FCC ID: GYUR73SK

☑ Mouse (PSII)

Manufacturer : HP

Model Number : M-S34

Serial Number : LZA64519290

FCC ID : DZL211029

Data Cable : Shielded, 1.8 m, Connected to the PSII port

Power Cord : N/A

☑ KeyBoard (USB)

Manufacturer : SILITEK

Model Number : SK-2000U

Serial Number : N/A

FCC ID : GYUR50SK

Data Cable : Shielded, 1.5 m, Connected to the USB port

Power Cord : N/A

☑ Joystick

Manufacturer : GENIUS

Model Number : J-12

Serial Number : N/A

FCC ID : N/A

Data Cable : Shielded, 1.5 m, Connected to the Game port

Power Cord : N/A

FB8D011 Page: 11 of 33

FCC ID: GYUR73SK

☑ Micro Phone

Manufacturer

SR

Model Number

SR-M02

Serial Number

: N/A

FCC ID

N/A

Data Cable

: Un-Shielded, Connected to the MIC port

Power Cord

N/A

✓ Walk Man

Manufacturer

: National

Model Number

: RQ-310

Serial Number

N/A

FCC ID

N/A

Data Cable

Shielded, 1.5 m, Connected to the Line In port

Power Cord

: N/A

☑ Speaker

Manufacturer

JASS HIPSTER

Model Number

: J-008

Serial Number

N/A

FCC ID

N/A

Data Cable

Un-Shielded, 1.5 m, Connected to the Line Out

port

Power Cord

N/A

Page 112 of 3

FCC ID: GYUR73SK

4.3 Internal Devices

☑ Sound Card

Manufacturer : NEO TEK

Model Number : NT-3D

Serial Number : N/A

FCC ID : FCC DoC

Data Cable : Shielded

Power Cord : N/A

4.4 REMARK:

Page: 13 of 33

# 5 EUT OPERATING CONDITION

5.1 Operating condition is according to **ANSI C63.4 - 1992**.

FCC ID: GYUR73SK

- 5.2 The oscillator frequency of the EUT were  $\frac{4}{}$  MHz.
- 5.3 Turn on the power of all equipments.
- 5.4 Test program sent "H" pattern to peripherals as following:
  - 5.4.1 Printer
  - 5.4.2 Monitor
  - 5.4.3 Modem
  - 5.4.4 Keyboard

# 6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B:

| Frequency Range  | dBuV | uV     |
|------------------|------|--------|
| 0.45 ~ 1.705 MHz | 48   | 250 uV |
| 1.705 ~ 30 MHz   | 48   | 250 uV |
|                  |      |        |

6.1 In the above table, the tighter limit applies at the band edges.

FB8D011 Page: 14 of 33



# 7 RESULT OF CONDUCTED POWER LINE TEST

7.1 The frequency range from <u>0.45</u> MHz to <u>30</u> MHz was investigated. All readings are quasi-peak values.

FCC ID: GYUR73SK

7.2 IF bandwidth: 9 kHz, Meas Time: 1 sec.

7.3 Temperature: 21 °C, Humidity: 72 % RH.

7.4 Deviations from the specifications: None

7.5 Quasi-Peak:

| 2.22            | Line 1 |        | Line 2 |        | Limit |     |
|-----------------|--------|--------|--------|--------|-------|-----|
| Frequency (MHz) | dBuV   | uV     | dBuV   | uV     | dBuV  | uV  |
| 0.545           | 39.83  | 98.06  | 40.56  | 106.66 | 48    | 250 |
| 0.868           | 38.32  | 82.41  | 38.38  | 82.99  | 48    | 250 |
| 1.960           | 26.63  | 21.45  | 25.70  | 19.27  | 48    | 250 |
| 3.355           | 24.07  | 15.98  | 23.44  | 14.86  | 48    | 250 |
| 5.240           | 24.24  | 16.29  | 22.75  | 13.72  | 48    | 250 |
| 9.080           | 21.15  | 11.42  | 20.84  | 11.02  | 48    | 250 |
| 14.875          | 36.95  | 70.39  | 35.84  | 61.94  | 48    | 250 |
| 22.320          | 43.40  | 147.90 | 38.80  | 87.10  | 48    | 250 |

#### REMARK:

1. Model: SK-2511A

2. Measuring mode:

3. Uncertainty in conduction emission measured :  $< \pm 2.0$ dB.

Test Engineer:

Page: 15 of 33

FB8D011

# RADIATED EMISSION TEST

# 1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the radiated emission test:

FCC ID: GYUR73SK

| Item | Instruments /facilities | Specification        | Manufacturer       | Model # /<br>S/N#            | Location         | Date of<br>Cal.  |
|------|-------------------------|----------------------|--------------------|------------------------------|------------------|------------------|
| 1    | SPECTRUM<br>ANALYZER    | 9KHz ~ 1.8GHz        | НР                 | HP8591<br>3710A06158         | Open Site<br>I   | APR/99           |
| 2    | EMI TEST<br>RECEIVER    | 20MHz ~ 1GHz         | ROHDE & SCHWARZ    | ESVS10<br>845165/017         | Open Site<br>I   | FEB/99           |
| 3    | PRE-<br>AMPLIFIER       | 0.1MHz ~ 1.3 GHz     | HP                 | 8447D<br>1937A02095          | Open Site<br>I   | MAY/98           |
| 4    | EMI TEST<br>RECEIVER    | 20Hz ~ 26.5GHz       | ROHDE &<br>SCHWARZ | ESMI<br>845442/006           | Open Site<br>II  | FEB/99           |
| 5    | PRE-<br>AMPLIFIER       | 20MHz ~ 7GHz         | ROHDE & SCHWARZ    | ESMI-Z7<br>846363/001        | Open Site<br>II  | FEB/99           |
| 6    | SIGNAL<br>GENERATOR     | 9KHz ~ 2080MHz       | ROHDE & SCHWARZ    | SMY02<br>845096/018          |                  | FEB/99           |
| 7    | ANTENNA<br>(BI-LOG)     | 25MHz ~ 2GHz         | ARA                | LPB2520<br>S/N:1096          | Open Site<br>II  | MAR/99           |
| 8    | ANTENNA<br>(BI-LOG)     | 25MHz ~ 2GHz         | ARA                | LPB2520<br>S/N:1095          | Open Site<br>I   | MAR/99           |
| 9    | CABLES                  |                      |                    | No. 2, No. 4<br>No. 1, No. 3 | OATS 1<br>OATS 2 | JUL/98<br>JUL/98 |
| 10   | OPEN AREA TEST SITE     | □ OATS 1<br>☑ OATS 2 |                    |                              |                  |                  |
| 11   | ANTENNA<br>(DIPOLE)     | 30 ~ 300MHz          | ROHDE &<br>SCHWARZ | HZ-12<br>842899/08           |                  | JAN/99           |
| 12   | ANTENNA<br>(DIPOLE)     | 300 ~ 1000MHz        | ROHDE & SCHWARZ    | HZ-13<br>842007/0004         |                  | JAN/99           |

Note: 1. Items  $1 \sim 10$  upon which need to calibrated are with period of 1 year.

2. Items  $11 \sim 12$  upon which need to calibrated are with period of 3 year.

FB8D011 Page: 17 of 33

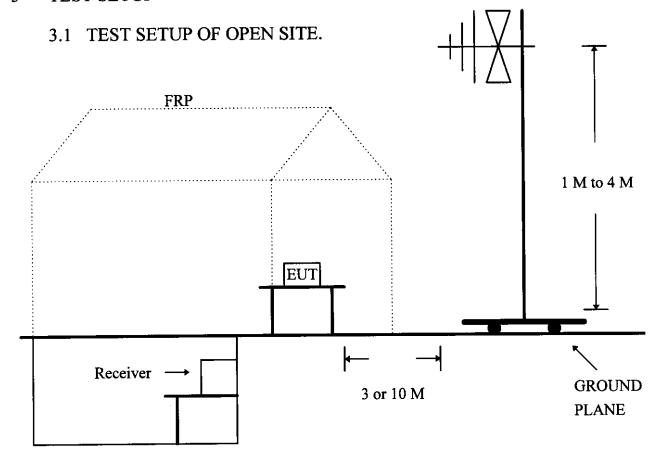
# 2 TEST PROCEDURE

- 2.1 The EUT was test according to ANSI C63.4 1992.
- 2.2 The radiated test was performed at HomeTek Lab's Open Site II.
- 2.3 This site is on file with the FCC laboratory division, reference 31040/site 1300F2, Date: August 22, 1997.

FCC ID: GYUR73SK

2.4 The frequency range from 30 MHz to 1 GHz, the measurement were made at 3 meters, with a BI-log antenna.

## 3 TEST SETUP



FB8D011 Page: 18 of 33

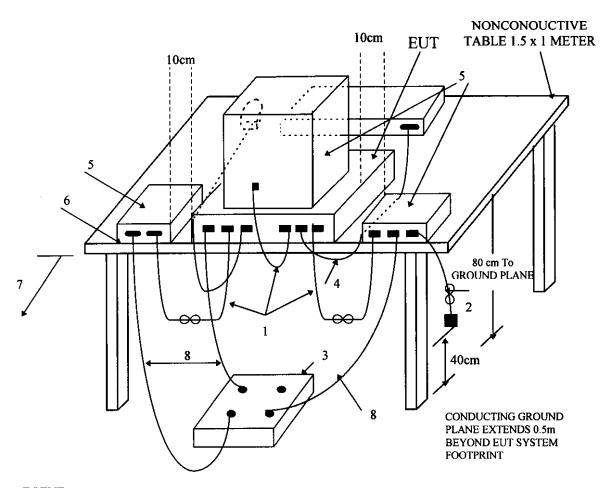
#### 3.2 TEST SET OF EUT

ANSI

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9kHz TO 40 GHz

C63.4-1992

FCC ID: GYUR73SK



#### LEGEND:

- 1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
- 2. I/O cables that are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1m.
- 3. If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground plane with the receptacle flush with the ground plane.
- 4. Cables of hand-operated devices, such as keyboards, mouses, etc., have to be placed as close as possible to the controller.
- 5. Non-EUT components of EUT system being tested.
- 6. The rear of all components of the system under test shall be located flush with the rear of the table.
- 7. No vertical conducting wall used.
- 8. Power cords drape to the floor and are routed over to receptacle.

# **Test Configuration Tabletop Equipment Radiated Emission**

Page: 19 of 33 FB8D011

# FCC ID: GYUR73SK

#### CONFIGURATION OF THE EUT 4

Same as "Conducted Power Line test", section 4

#### **EUT OPERATING CONDITION** 5

- Same as "Conducted Power Line test", section 5 5.1
- 5.2 The radiated emission in the frequency range from 30 MHz 1000 MHz was test in a horizontal and vertical polarization at HomeTek Lab's open site <u>II</u>.

#### LIMIT OF RADIATED EMISSION CLASS B: 6

| Frequency<br>(MHz) | Measurement Distance | dBuV | uV/m |
|--------------------|----------------------|------|------|
| 30 - 88            | 3 (M)                | 40   | 100  |
| 88 - 216           | 3 (M)                | 43.5 | 150  |
| 216 - 960          | 3 (M)                | 46   | 200  |
| Above 960          | 3 (M)                | 54   | 500  |

- The tighter limit shall apply at the edge between two frequency bands. 6.1
- Distance refers to the distance in meters between the measuring instrument antenna 6.2 and the closed point of any part of the device or system.

Page: 20 of 33 FB8D011



# 7 RESULT OF RADIATED EMISSION TEST

7.1 The frequency range from <u>30</u> MHz to <u>1</u> GHz was investigated. All readings are quasi-peak values with resolution bandwidth of <u>120</u> kHz.

FCC ID: GYUR73SK

7.2 The measurements above  $\underline{1}$  GHz with a resolution bandwidth of  $\underline{1}$  MHz are peak reading at  $\underline{3}$  meters.

7.3 The measurements were made at  $\underline{3}$  meters of HomeTek Lab's open site  $\underline{II}$ .

7.4 Temperature: 21 °C, Humidity: 72 % RH.

7.5 Radiated Emission data: Horizontal

| Frequency | Reading | ANT    | Cable  | Emission | Emission | Limit  | Limit  |
|-----------|---------|--------|--------|----------|----------|--------|--------|
| (MHz)     | Level   | factor | Loss   | Level    | Level    | (dBuV) | (uV/m) |
|           | (dBuV)  | (dBuV) | (dBuV) | (dBuV)   | (uV/m)   |        |        |
| 44.75     | 13.40   | 15.75  | 0.46   | 29.61    | 30.23    | 40.0   | 100    |
| 68.25     | 23.37   | 8.45   | 0.48   | 32.30    | 41.21    | 40.0   | 100    |
| 205.36    | 14.72   | 12.04  | 0.84   | 27.60    | 23.99    | 43.5   | 150    |
| 342.69    | 9.89    | 16.94  | 1.09   | 27.92    | 24.89    | 46.0   | 200    |
| 360.03    | 10.86   | 16.74  | 1.35   | 28.95    | 28.02    | 46.0   | 200    |
| 418.71    | 11.90   | 16.68  | 1.22   | 29.80    | 30.90    | 46.0   | 200    |
| 548.38    | 8.92    | 19.40  | 1.45   | 29.77    | 30.80    | 46.0   | 200    |
| 625.73    | 4.15    | 22.27  | 1.65   | 28.07    | 25.32    | 46.0   | 200    |

• Emission Level = Reading Level + ANT Factor + Cable Loss.

• Sample Calculation for <u>625.73</u> MHz.

• Corrected Reading: (4.15) + (22.27) + (1.65) = 28.07. (Emission Level)

FB8D011 Page: 21 of 33



7.6 Radiated Emission data: Vertical

| Frequency<br>(MHz) | Reading<br>Level<br>(dBuV) | ANT<br>factor<br>(dBuV) | Cable<br>Loss<br>(dBuV) | Emission<br>Level<br>(dBuV) | Emission<br>Level<br>(uV/m) | Limit<br>(dBuV) | Limit<br>(uV/m) |
|--------------------|----------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|-----------------|-----------------|
| 30.48              | 11.82                      | 18.06                   | 0.33                    | 30.21                       | 32.40                       | 40.0            | 100             |
| 68.74              | 21.08                      | 14.09                   | 0.58                    | 35.75                       | 61.31                       | 40.0            | 100             |
| 137.62             | 23.83                      | 10.27                   | 0.69                    | 34.79                       | 54.89                       | 43.5            | 150             |
| 236.42             | 13.71                      | 13.36                   | 0.89                    | 27.96                       | 25.00                       | 46.0            | 200             |
| 277.52             | 15.46                      | 15.34                   | 0.96                    | 31.76                       | 38.73                       | 46.0            | 200             |
| 418.71             | 10.40                      | 18.30                   | 1.22                    | 29.92                       | 31.33                       | 46.0            | 200             |
| 472.84             | 13.70                      | 19.47                   | 1.27                    | 34.44                       | 52.72                       | 46.0            | 200             |
| 548.27             | 7.38                       | 19.85                   | 1.45                    | 28.68                       | 27.16                       | 46.0            | 200             |

FCC ID: GYUR73SK

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for <u>548.27</u> MHz.
- Corrected Reading: (7.38) + (19.85) + (1.45) = 28.68. (Emission Level)

## REMARK:

1. Model: SK-2511A

2. Measuring mode:

3. Uncertainty in radiated emission measured :  $< \pm 4.0$ dB.

Test Engineer: \_

Page : 22 of 33