

APPLICATION FOR CERTIFICATION

On Behalf of
Kinpo Electronics, Inc.
ADSL

Model : A100A

FCC ID : ESNA100A

Prepared for : Kinpo Electronics, Inc.
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File Number : ATM-G99645
Report Number : TTEMC-F99189
Date of Test : Dec. 07/10, 1999
Date of Report : Dec. 21, 1999

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TEST REPORT CERTIFICATION

Applicant : Kinpo Electronics, Inc.
Manufacturer : Cal-Comp Electronic (Thailand) Co., Ltd.
FCC ID : ESNA100A
EUT Description : ADSL
(A) MODEL NO. : A100A
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : AC 120V/60Hz (Via PC)

Measurement Procedure Used :

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 1998
AND FCC / ANSI C63.4-1992

The device described above was tested by TAIWAN TOKIN EMC ENG. CORP. 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 were contained in this test report and TAIWAN TOKIN EMC ENG. CORP. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report showed that the EUT to be technically compliance with the FCC official limits.

This report applied to above tested sample only. This report shall not be reproduced in part without written approval of Taiwan Tokin EMC Eng. corp.

Date of Test : Dec. 07/10, 1999

Prepared by :



(CHERRY WANG)

Test Engineer :



(ALLEN WANG)

Approve & Authorized Signer :



(JACKIE DENG)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

| | | |
|---------------------------|---|---|
| Description | : | ADSL (Asymmetrical Digital Subscriber Line) (ADSL Network Modem Board) |
| Model Number | : | A100A |
| FCC ID. | : | ESNA100A |
| Applicant | : | Kinpo Electronics, Inc. 1, Tsao Ti Wei, Wan Shun Tsun, Shen Keng Hsiang, Taipei Hsien, Taiwan, R.O.C. |
| Manufacturer | : | Cal-Comp Electronics (Thailand) Co., Ltd. 60 Moo 8, Sethakji Rd., Klong Maduea, Kratoom Bean, Samuthsakorn 74110 Thailand. |
| Date of Receipt of Sample | : | Dec. 03, 1999 |
| Date of Test | : | Dec. 07/10, 1999 |

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

| | | |
|---|---|---|
| Model Number | : | 71XX |
| Serial Number | : | TW84200235 |
| System Number | : | D6923A |
| FCC ID | : | By DoC |
| BSMI Number | : | 檢磁 3872H010 |
| Manufacturer | : | Hewlett Packard |
| ADSL (EUT) | : | Kinpo Electronics, Inc. M/N A100A FCC ID. ESNA100A |
| Telephone Line #1 (EUT link to Telephone) | : | Non-Shielded, Detachable, 2.0m |
| Telephone Line #2 (EUT link to Partner PC) | : | Non-Shielded, Detachable, 2.0m |
| Power Cord | : | Non-Shielded, Detachable, 1.8m |

1.2.2. COLOR MONITOR

| | | |
|---------------|---|--------------------------------|
| Model Number | : | CM753ET |
| Serial Number | : | T9B000203 |
| FCC ID | : | By DoC |
| Manufacturer | : | Hitachi |
| Data Cable | : | Shielded, Detachable, 1.8m |
| Power Cord | : | Non-Shielded, Detachable, 1.8m |

1.2.3. KEYBOARD

| | | |
|---------------|---|------------------------------|
| Model Number | : | SK-2501K |
| Serial Number | : | MR80700543 |
| FCC ID | : | GYUR38SK |
| Manufacturer | : | HP |
| Data Cable | : | Shielded, Undetachable, 1.2m |

1.2.4. PRINTER

| | | |
|---------------|---|---|
| Model Number | : | 2225C+ |
| Serial Number | : | 3007S68643 |
| FCC ID | : | DSI6XU2225 |
| Manufacturer | : | Hewlett Packard |
| Power Adapter | : | Hewlett Packard, M/N 82241A Non-Shielded, Undetachable, 2.0m |
| Data Cable | : | Shielded, Detachable, 1.2m |

1.2.5. MODEM

| | | |
|---------------|---|----------------------------------|
| Model Number | : | DM-1414 |
| Serial Number | : | 980034400 |
| FCC ID | : | IFAXDM1414 |
| Manufacturer | : | Aceex |
| Data Cable | : | Shielded, Detachable, 1.2m |
| Power Adapter | : | Amigo, Model AM-91000A |
| | | Non-Shielded, Undetachable, 1.8m |

1.2.6. PS2 MOUSE

| | | |
|---------------|---|----------------------------------|
| Model Number | : | M-S34 |
| Serial Number | : | LZA81757340 |
| FCC ID | : | DZL211029 |
| Manufacturer | : | Logitech |
| Data Cable | : | Non-Shielded, Undetachable, 1.8m |

1.2.7. USB MOUSE

| | | |
|---------------|---|------------------------------|
| Model Number | : | M-UB48 |
| Serial Number | : | LZB81900212 |
| FCC ID | : | DZL211137 |
| Manufacturer | : | Logitech |
| Data Cable | : | Shielded, Undetachable, 1.8m |

1.2.8. MICROPHONE

| | | |
|---------------|---|----------------------------------|
| Model Number | : | HD-303 |
| Serial Number | : | N/A |
| Manufacturer | : | Multimedia Microphone System |
| Data Cable | : | Non-Shielded, Undetachable, 2.2m |

1.2.9. SPEAKER

| | | |
|---------------|---|--------------------------------|
| Model Number | : | J-008 |
| Serial Number | : | 97-C-008923-T |
| Manufacturer | : | (J-S) JAZZ HIPSTER |
| Data Cable | : | Non-Shielded, Undetachable, 1m |

1.2.10. WALKMAN

| | | |
|---------------|---|--------------------------------|
| Model Number | : | RQ-P35LT-K |
| Serial Number | : | HA08473 |
| Manufacturer | : | Panasonic |
| Data Cable | : | Non-Shielded, Detachable, 1.8m |

1.2.11. EARPHONE

| | | |
|----------------|---|----------------------------------|
| Model Number | : | N/A |
| Serial Number | : | N/A |
| Manufacturer | : | Panasonic |
| Earphone Cable | : | Non-Shielded, Undetachable, 1.1m |

1.2.12. JOYSTICK

| | | |
|---------------|---|----------------------------------|
| Model Number | : | 1FD05015 |
| Serial Number | : | N/A |
| Manufacturer | : | Rambo |
| Data Cable | : | Non-Shielded, Undetachable, 1.6m |

1.2.13. TELEPHONE

| | | |
|---------------|---|--------------------------------|
| Model Number | : | K-2500TRP |
| Serial Number | : | 1015198 |
| Manufacturer | : | Kuo Yang |
| Data Cable | : | Non-Shielded, Detachable, 1.8m |

** PARTNER SYSTEMS **

1.2.14. PERSONAL COMPUTER (ITeX ADSL DEVELOPMENT TOOL)

| | | |
|-------------|---|-----------------------------------|
| Main Board | : | ASUS, M/N P28, FCC by DoC |
| CPU | : | Intel Pentium II 450MHz |
| S.P.S. | : | Seventeam, M/N ST-250GL |
| CD-ROM | : | ASUS, M/N CD-S400/A, FCC by DoC |
| VGA | : | Enn Yah, M/N ST-775A |
| SAM ADSL | : | ITEX, |
| ATU-C Board | : | SAM ADSL Transceiver Unit Central |
| Power Cord | : | Non-Shielded, Detachable, 1.8m |

1.2.15. COLOR MONITOR

| | | |
|---------------|---|----------------------------------|
| Model Number | : | PM36B |
| Serial Number | : | W821111454 |
| FCC ID | : | IIBTC1 |
| Manufacturer | : | Funai Electric Company of Taiwan |
| Data Cable | : | Shielded, Undetachable, 1.2m |
| Power Cord | : | Non-Shielded, Detachable, 1.5m |

1.2.16. KEYBOARD

| | | |
|---------------|---|------------------------------|
| Model Number | : | 6511-TW4C |
| Serial Number | : | N/A |
| FCC ID | : | By DoC |
| BSMI Number | : | 檢磁 4862A064 |
| Manufacturer | : | Acer |
| Data Cable | : | Shielded, Undetachable, 1.2m |

1.2.17. PS2 MOUSE

| | | |
|---------------|---|----------------------------------|
| Model Number | : | M-S43 |
| Serial Number | : | LZA90501119 |
| FCC ID | : | DZL211106 |
| Manufacturer | : | Logitech |
| Data Cable | : | Non-Shielded, Undetachable, 1.8m |

1.3. Description of Test Facility

| | | |
|---------------------------------------|---|---|
| Site Description (No. 1 Open Site) | : | Nov. 23, 1999 Re-file on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A. |
| Name of Firm | : | Taiwan Tokin EMC Eng. Corp. |
| Site Location | : | No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C. |
| NVLAP lab. Code | : | 200077-0 |

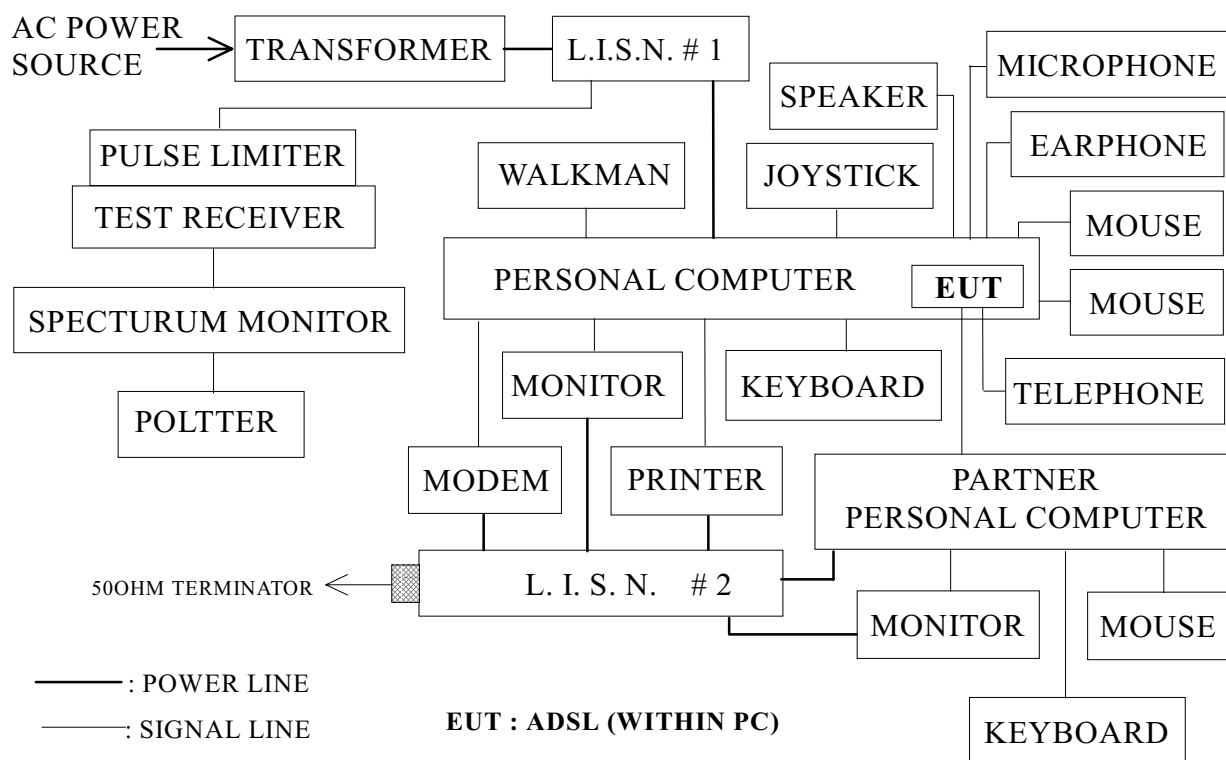
2. POWERLINE CONDUCTED TEST

2.1. Test Equipment

The following test equipment were used during the power line conducted tests :

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---------------|-----------------|-----------|------------|--------------|---------------|
| 1. | Test Receiver | Rohde & Schwarz | ESH3 | 880647/035 | Jun. 19, 99' | 1 Year |
| 2. | L.I.S.N. # 1 | Kyoritsu | KNW-407 | 8-881-13 | Apr. 21, 99' | 1 Year |
| 3. | L.I.S.N. # 2 | Kyoritsu | KNW-407 | 8-855-9 | Apr. 21, 99' | 1 Year |

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit (CLASS B)

| Frequency | Maximum RF Line Voltage | |
|-----------------|-------------------------|------------------------|
| | μV | $\text{dB}\mu\text{V}$ |
| 0.45MHz ~ 30MHz | 250 | 48 |

REMARKS : RF LINE VOLTAGE (dBμV) = 20 log RF LINE VOLTAGE (μV)

2.4. EUT's Configuration during Compliance Measurement

The following equipment were installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tend to maximize its emission characteristics in a normal application.

2.4.1. ADSL (EUT)

| | | |
|---------------|---|---|
| Model Number | : | A100A |
| Serial Number | : | N/A |
| FCC ID. | : | ESNA100A |
| Manufacturer | : | Cal-Comp Electronics (Thailand) Co., Ltd. |

2.4.2. Supporting System : As in Section 1.2

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown on 2.2.

2.5.2. Turn on the power of all equipment.

2.5.3. Personal computer read data from disk.

2.5.4. Host and partner personal computers were running the self-test programs "ITEX TEST" and "NES CAP" at the same time, and then the host and partner personal computers "Down Stream/Up Stream" data file through ADSL (EUT) and SAM ADSL ATU-C Board.

2.5.5. Host and partner personal computers displayed the "Down Stream/Up Stream" worked status on the screen of monitors by windows.

2.5.6. Personal computer read data from floppy disk 、modem and then wrote the data into floppy disk 、modem.

2.5.7. The other peripheral devices were drove and operated in turn during all testing.

2.5.8. Repeat above procedures from 2.5.3 to 2.5.7.

2.6. Test Procedure

The EUT within PC and then the PC was connected to the power mains through a line impedance stabilization network (L.I.S.N.# 1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. # 2). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.) Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to FCC ANSI C63.4-1992 on conducted measurement.

The bandwidth of the R&S Test Receiver ESH3 was set at 10KHz.

The frequency range from 450KHz to 30MHz was checked.

All the test results are listed in section 2.8.

2.7. Test Results

PASSED. Please refer to the following pages.

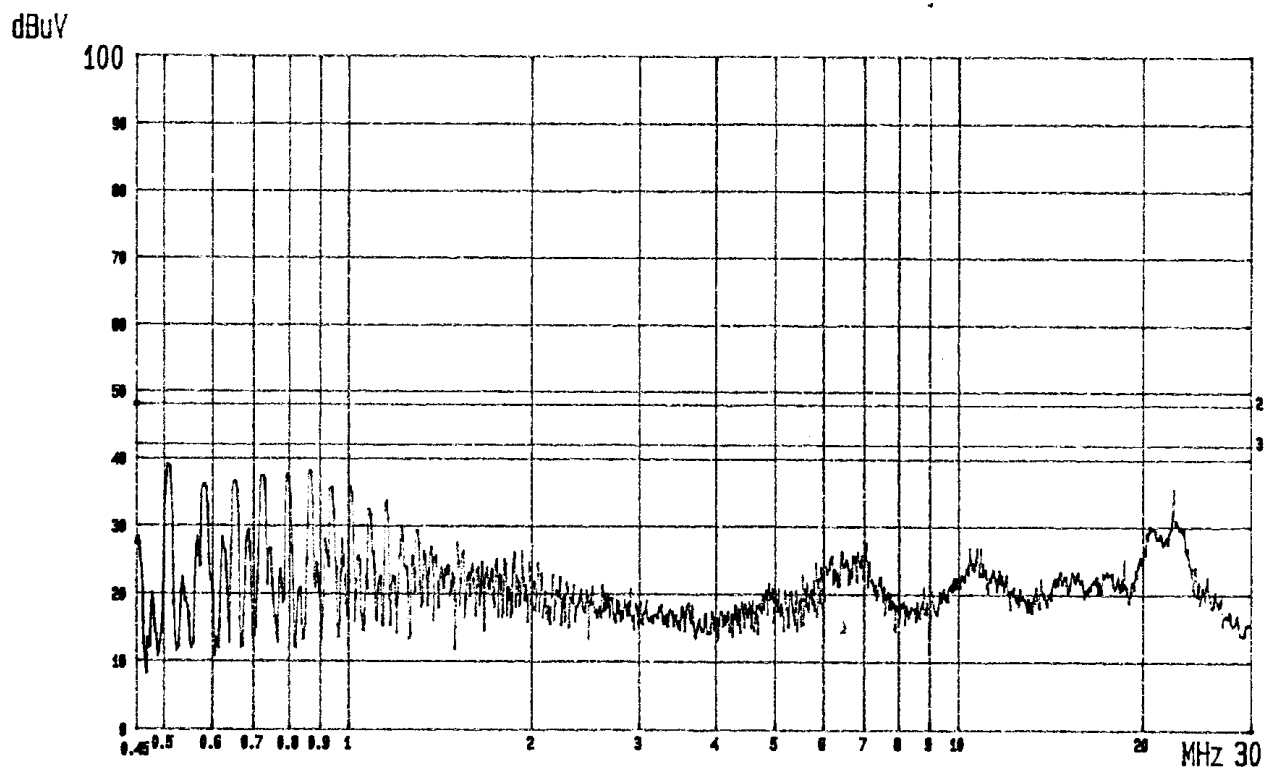
2.8. Line Conducted RF Voltage Measurement Results

The frequency range from 450KHz to 30 MHz was investigated.
All emissions not reported below are too low against the prescribed limits.

Date of Test : Dec. 07, 1999 Temperature : 20°C
EUT : ADSL Humidity : 51%

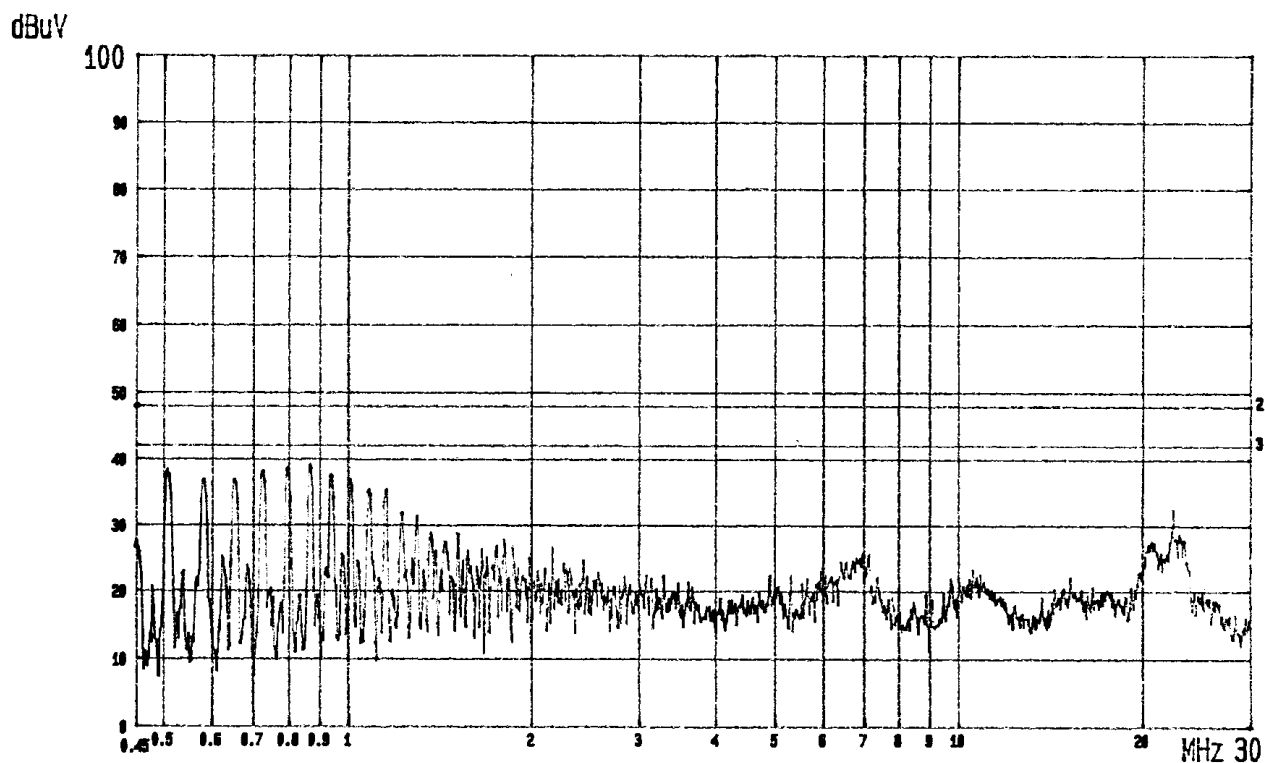
| Frequency (MHz) | Factor dB | Reading (dBμV) | | Measurement (dBμV) | | Limits (dBμV) | Margin dB | |
|--------------------|--------------|-------------------|------|-----------------------|------|------------------|--------------|------|
| | | VA | VB | VA | VB | | VA | VB |
| 0.5058 | 0.5 | 37.3 | 37.3 | 37.8 | 37.8 | 48.0 | 10.2 | 10.2 |
| 0.7221 | 0.5 | 37.4 | 36.5 | 37.9 | 37 | 48.0 | 10.1 | 11 |
| 0.8667 | 0.5 | 37.9 | * | 38.4 | * | 48.0 | 9.6 | * |
| 0.8670 | 0.5 | * | 36.3 | * | 36.8 | 48.0 | * | 11.2 |
| 1.0115 | 0.5 | * | 33.9 | * | 34.4 | 48.0 | * | 13.6 |
| 1.1553 | 0.5 | 34.4 | * | 34.9 | * | 48.0 | 13.1 | * |
| 7.0508 | 0.8 | * | 20.1 | * | 20.9 | 48.0 | * | 27.1 |
| 7.0809 | 0.8 | 17.1 | * | 17.9 | * | 48.0 | 30.1 | * |
| 22.5269 | 1.1 | 27.1 | * | 28.2 | * | 48.0 | 19.8 | * |
| 22.5698 | 1.1 | * | 35.4 | * | 36.5 | 48.0 | * | 11.5 |

- Remark :
1. All reading are Quasi-Peak values.
 2. Factor = Insertion Loss + Cable Loss
 3. The worst emission was detected at 0.8667MHz with corrected signal level of 38.4dBμV (limit is 48dBμV) when the VA side of the PC's (EUT within) power was connected to L.I.S.N.



— Date 07.DEC.'99 Time 15:22:49
KINPO EUT: ADSL M/N: A100A
LINE: VB. MEMO: UP STREAM/DOWN STREAM

120V/60Hz PAGE: 02.
(PEAK VALUE) TTEMC.



— Date 07.DEC.'99 Time 15:19:23
KINPO EUT: ADSL M/N: A100A
LINE: VA. MEMO: UP STREAM/DOWN STREAM

120V/60Hz PAGE: 01.
(PEAK VALUE) TTEMC.

3. RADIATED EMISSION TEST

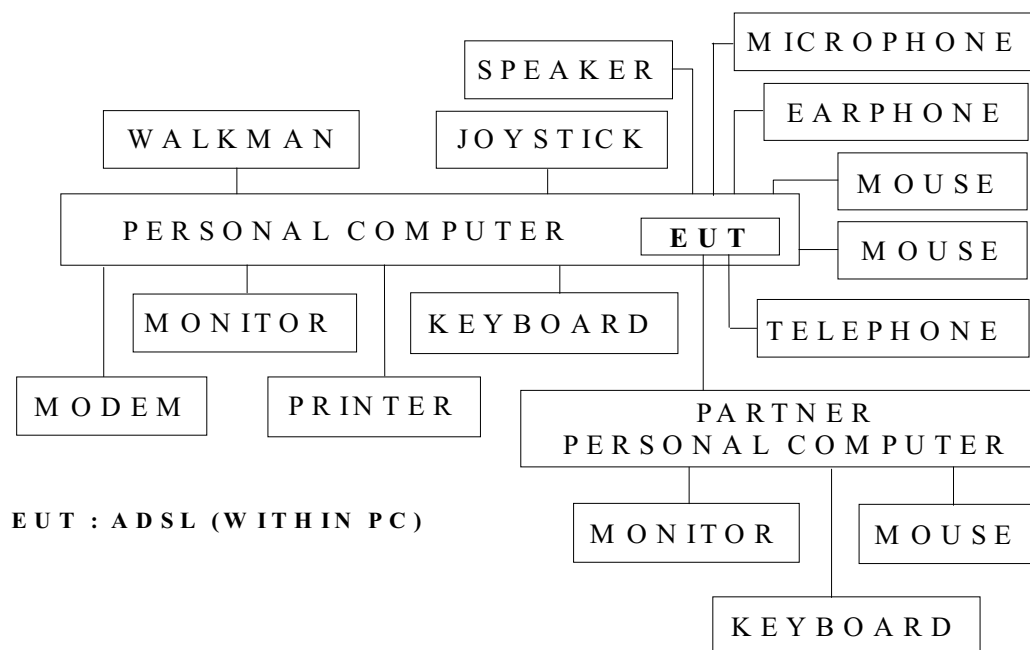
3.1. Test Equipment

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

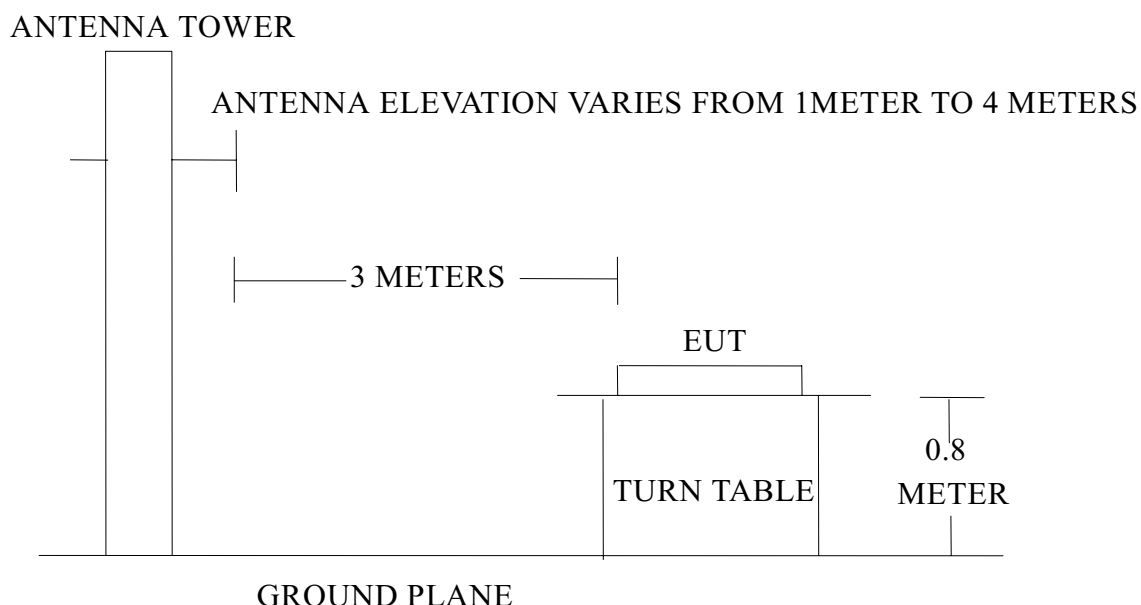
| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|-----------------|-----------|------------|--------------|---------------|
| 1. | Test Receiver | Rohde & Schwarz | ESVP | 893202/001 | May 13, 99' | 1 Year |
| 2. | Broadband Antenna | Schwarzbeck | BBA9106 | A1L | Feb. 02, 99' | 1 Year |
| 3. | Broadband Antenna | Chase | UPA6109 | 1039 | Feb. 02, 99' | 1 Year |

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Open Field Test Site Setup Diagram (3M)



3.3. Radiation Limit (CLASS B)

| FREQUENCY | DISTANCE | FIELD STRENGTHS LIMITS | |
|------------|----------|------------------------|--------------------------|
| MHz | Meters | $\mu\text{V/M}$ | $\text{dB}\mu\text{V/M}$ |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |

- Remark :
- (1) Emission level ($\text{dB}\mu\text{V/M}$) = $20 \log$ Emission level ($\mu\text{V/M}$)
 - (2) The tighter limit applies 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's Configuration during Compliance Measurement

The configuration of EUT and its simulators were same as those used in conducted measurement. Please refer to 2.4.

3.5. Operating Condition of EUT

Same as conducted measurement which is listed in 2.5.

3.6. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above ground. The turn table rotate 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which were mounted on a antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) and dipole antenna were used as receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-1992 on radiated measurement.

The bandwidth of the R&S Test Receiver ESVP was set at 120KHz.

The frequency range from 30MHz to 1000MHz was checked.

All the test results are listed in section 3.8.

3.7. Test Results

PASSED. Please refer to the following pages.

3.8. Radiated Emission Measurement Results

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

Date of Test : Dec. 10, 1999 Temperature : 18°C
 EUT : ADSL Humidity : 79%

| Frequency MHz | Antenna Factor dB/m | Cable Loss dB | Meter Reading | | Emission Level | | Margin dB |
|------------------|---------------------------|---------------------|--------------------|--|----------------------|------------------|--------------|
| | | | Horizontal dBμV | | Horizontal dBμV/m | Limits dBμV/m | |
| * 44.204 | 20.69 | 1.49 | 1.10 | | 23.28 | 40.00 | 16.72 |
| 70.604 | 11.58 | 1.82 | 4.29 | | 17.69 | 40.00 | 22.31 |
| 132.492 | 20.01 | 2.21 | - 3.50 | | 18.72 | 43.50 | 24.78 |
| 176.647 | 21.74 | 2.62 | - 3.10 | | 21.26 | 43.50 | 22.24 |
| 203.146 | 22.30 | 2.93 | - 3.90 | | 21.33 | 43.50 | 22.17 |
| 247.320 | 23.81 | 3.21 | 1.50 | | 28.52 | 46.00 | 17.48 |
| 264.983 | 24.82 | 3.31 | - 3.10 | | 25.03 | 46.00 | 20.97 |
| 282.651 | 24.63 | 3.57 | - 4.70 | | 23.50 | 46.00 | 22.50 |
| 300.295 | 13.59 | 3.65 | 2.00 | | 19.24 | 46.00 | 26.76 |
| 309.134 | 13.67 | 3.57 | 2.41 | | 19.65 | 46.00 | 26.35 |
| 317.971 | 13.97 | 3.72 | 0.40 | | 18.09 | 46.00 | 27.91 |
| 331.180 | 14.85 | 3.63 | 1.80 | | 20.28 | 46.00 | 25.72 |
| 353.286 | 15.81 | 3.73 | 1.69 | | 21.23 | 46.00 | 24.77 |
| 388.630 | 15.55 | 3.92 | - 0.01 | | 19.46 | 46.00 | 26.54 |
| 406.293 | 15.91 | 4.18 | 1.49 | | 21.58 | 46.00 | 24.42 |
| 459.287 | 16.66 | 4.50 | - 0.10 | | 21.06 | 46.00 | 24.94 |

- Remark:
1. All readings are Quasi-Peak values.
 2. The worst emission was detected at 44.204MHz with corrected signal level of 23.28dBμV/m (limit was 40.0dBμV/m) when the antenna was at horizontal polarization and was at 3m high and the turn table was at 45°
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Dec. 10, 1999 Temperature : 18°C
 EUT : ADSL Humidity : 79%

| Frequency MHz | Antenna Cable | | Meter Reading | | Emission Level | |
|------------------|----------------|-------------|------------------|--------------------|------------------|--------------|
| | Factor dB/m | Loss dB | Vertical dBμV | Vertical dBμV/m | Limits dBμV/m | Margin dB |
| 35.339 | 22.61 | 1.36 | - 1.24 | 22.73 | 40.00 | 17.27 |
| 61.850 | 14.54 | 1.72 | 9.45 | 25.71 | 40.00 | 14.29 |
| * 70.664 | 13.97 | 1.81 | 11.24 | 27.02 | 40.00 | 12.98 |
| 110.408 | 15.99 | 2.09 | 5.09 | 23.17 | 43.50 | 20.33 |
| 167.806 | 22.33 | 2.67 | 0.09 | 25.09 | 43.50 | 18.41 |
| 181.073 | 20.44 | 2.77 | 4.12 | 27.33 | 43.50 | 16.17 |
| 203.154 | 22.98 | 2.93 | - 0.95 | 24.96 | 43.50 | 18.54 |
| 256.130 | 24.17 | 3.36 | - 0.53 | 27.00 | 46.00 | 19.00 |
| 300.299 | 13.72 | 3.65 | 3.10 | 20.47 | 46.00 | 25.53 |
| 309.130 | 13.76 | 3.57 | 6.31 | 23.64 | 46.00 | 22.36 |
| 317.938 | 13.88 | 3.72 | 4.40 | 22.00 | 46.00 | 24.00 |
| 388.608 | 14.91 | 3.92 | 2.00 | 20.83 | 46.00 | 25.17 |
| 423.941 | 15.50 | 4.28 | 2.70 | 22.48 | 46.00 | 23.52 |
| 459.265 | 16.42 | 4.50 | 2.90 | 23.82 | 46.00 | 22.18 |
| 529.970 | 17.38 | 4.72 | - 0.20 | 21.90 | 46.00 | 24.10 |

- Remark:
1. All readings are Quasi-Peak values.
 2. The worst emission was detected at 70.664MHz with corrected signal level of 27.02dBμV/m (limit was 40.0dBμV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 275°
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

4. DEVIATION TO TEST SPECIFICATIONS

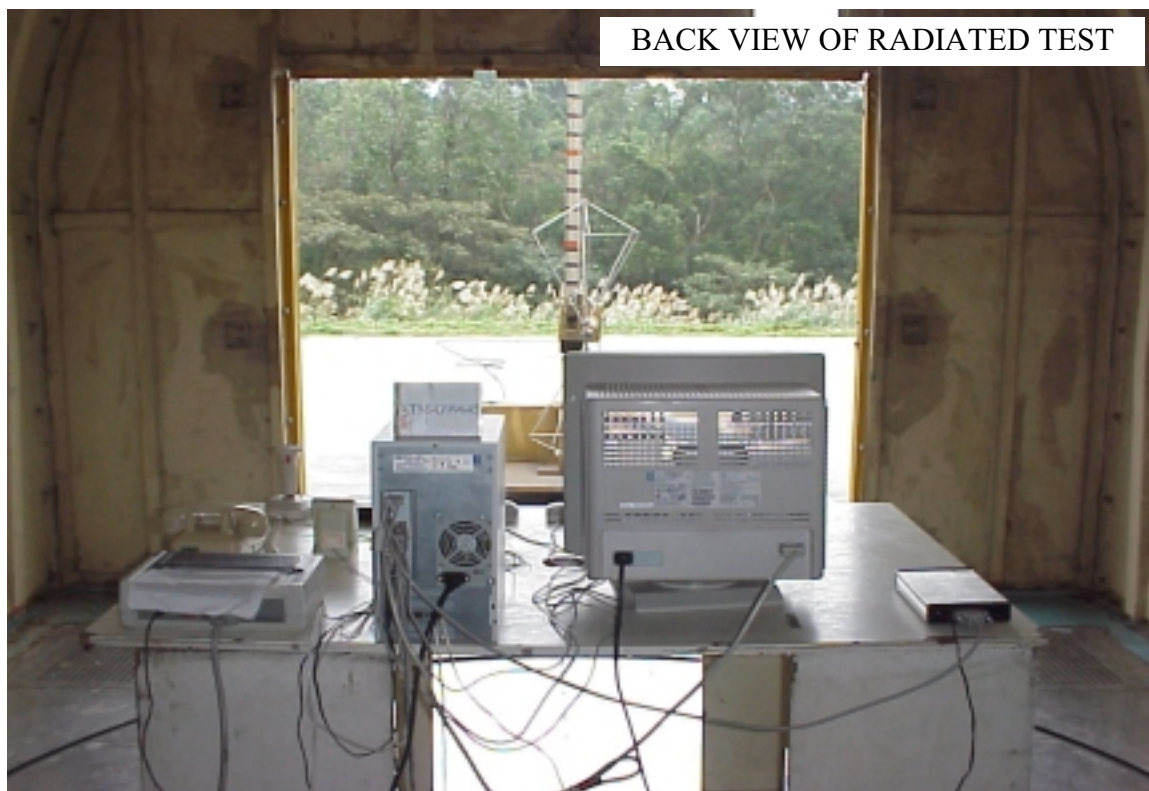
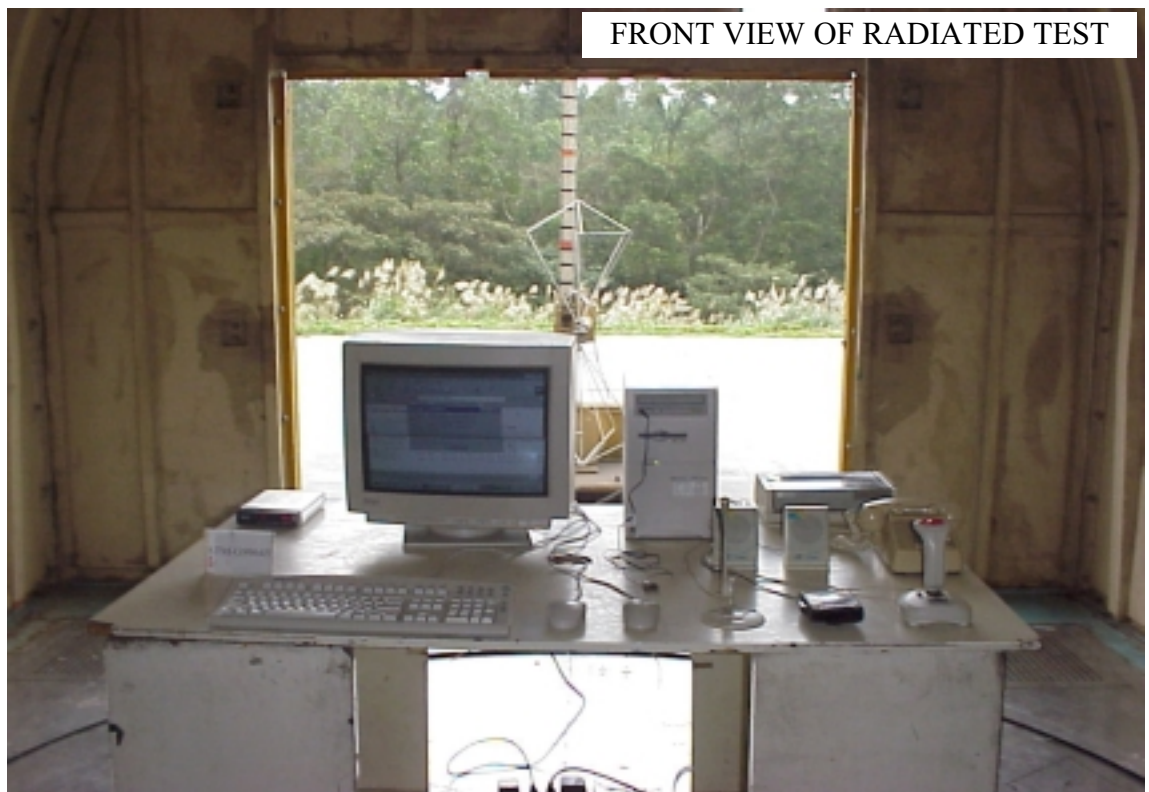
【NONE】

5. PHOTOGRAPHS

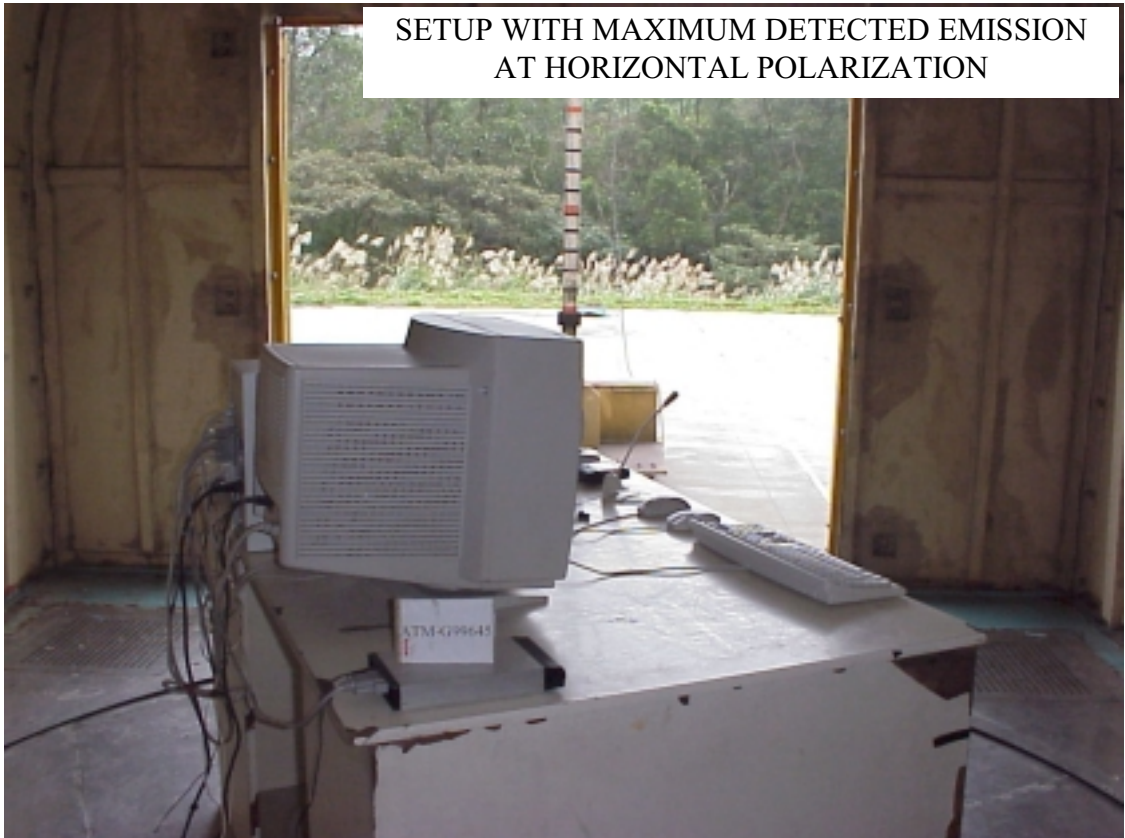
5.1. Photos of Powerline Conducted Measurement



5.2. Photos of Radiated Measurement at Open Field Test Site



SETUP WITH MAXIMUM DETECTED EMISSION
AT HORIZONTAL POLARIZATION



SETUP WITH MAXIMUM DETECTED EMISSION
AT VERTICAL POLARIZATION



