



FCC TEST REPORT

for

EXHIBIT B

PART 15, SUBPART B CLASS B

Equipment : VGA CARD

MODEL NO. : VS19

FCC ID : I27MM-VS19A

Filing Type : Original Grant

APPLICANT : **BIOSTAR MICROTECH INT'L CORP.**
2FL, No. 108-2, Min Chuan Rd., Hsin Tien City,
Taipei Hsien, Taiwan, R.O.C.

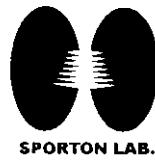
- The test result refers exclusively to the test presented test model / sample.
- Without the written authorization of the test lab., the Test Report may not be copied.

SPORTON INTERNATIONAL INC.

6F, No. 106, Hsin Tai Wu Rd., Sec. 1, Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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CERTIFICATE OF COMPLIANCE

for

FCC PART 15, SUBPART B CLASS B

Equipment : VGA CARD

MODEL NO. : VS19

FCC ID : I27MM-VS19A

Filing Type : Original Grant

APPLICANT : **BIOSTAR MICROTECH INT'L CORP.**2FL, No. 108-2, Min Chuan Rd., Hsin Tien City,
Taipei Hsien, Taiwan, R.O.C.

I HEREBY CERTIFY THAT :

The measurement shown in this report were made in accordance with the procedures given in **ANSI C63.4 -1992** and the energy emitted by this equipment was **passed** both radiated and conducted emissions class B limits. Testing was carried out on FEB. 18, 1997 at **SPORTON International Inc.** in NEI HWU.

W. L. Huang mar 12, 98
W. L. Huang
General Manager

SPORTON International Inc.

6F, No. 106, Hsin Tai Wu Rd., Sec. 1, Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

1. GENERAL DESCRIPTION OF EQUIPMENT UNDER TEST**1.1. APPLICANT****BIOSTAR MICROTECH INT'L CORP.**

2FL, No. 108-2, Min Chuan Rd., Hsin Tien City,
Taipei Hsien, Taiwan, R.O.C.

1.2. MANUFACTURER

Same as 1.1

1.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

EQUIPMENT :VGA CARD

MODEL NO. : VS19

FCC ID:I27MM-VS19A

TRADE NAME :BIOSTAR

DATA CABLE : Shielded

POWER SUPPLY TYPE : N/A

POWER CORD : N/A

1.4. FEATURE OF EQUIPMENT UNDER TEST

- Support for mastering frames from the frame buffer to system memory for video capture applications
- Resolution: 1280x1024 (NI)
- High-performance memory support: 75Mhz single-cycle EDO DRAM memory support
- Full software support: Drivers for all major operating systems

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST**2.1. TEST MANNER**

- a. The EUT has been associated with personal computer and peripherals pursuant to ANSI C63.4-1992 and configuration operated in a manner which tended to maximize its emission characteristics in a typical application.
- b. The HONEYWELL keyboard, SONY monitor, HP printer, KYE mouse and DATATRONICS modem were connected to the LEO PC.
- c. The following display resolution were investigated during the compliance test:
 1. Horizontal frequency (640x480 to 1280x1024, 31.47Khz to 80Khz)
 2. Vertical frequency (60Hz to 85Hz)
- d. According to the above tests, we listed the flowing display modes as the worst cases:
 1. 1024x768 (non-interlanced 69Khz), refresh rate 85Hz.
 2. 1280x1024 (non-interlaced 80Khz), refresh rate 75Hz.
- e. Frequency range investigated: Conduction 450 KHz to 30 MHz, Radiation 30 MHz to 2000 MHz.

2.2. DESCRIPTION OF TEST SYSTEM

Support Device 1. --- PERSONAL COMPUTER (LEO)

| | |
|-------------------|---------------------------------------------|
| FCC ID | :N/A |
| Model No. | :P2L97 |
| Serial No. | :SP1040 |
| Data Cable | :Shielded, 360 degree via metal backshells. |
| Power Supply Type | :Switching |
| Power Cord | :Shielded |

Remark: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Device 2. --- MODEM (DATATRONICS)

FCC ID :E2O5OV1200CK
Model No. :1200CK
Serial No. :SP0016
Data Cable :Shielded, 360 degree via metal backshells
Power Supply Type :Linear

Support Device 3. --- PRINTER (HP)

FCC ID :DSI6XU2225
Model No. :2225C
Serial No. :SP0003
Data Cable :Shielded, 360 degree via metal backshells
Power Supply Type :Linear

Support Device 4. --- MONITOR (SONY)

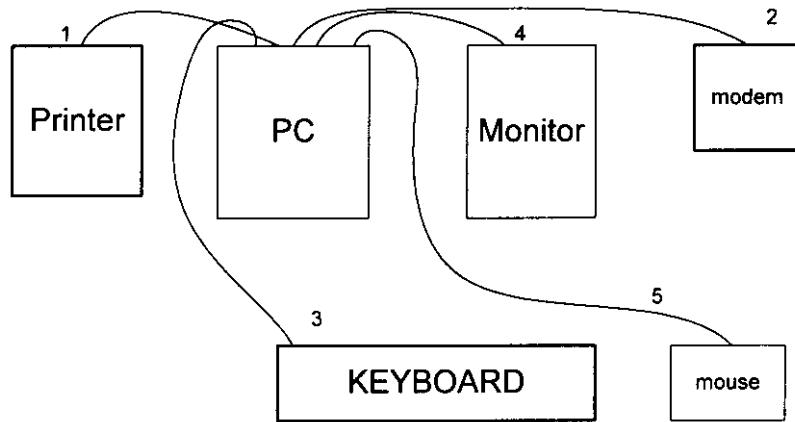
FCC ID :AK8GDM17SE2T
Model No. :GDM-17SE2T
Serial No. :SP1041
Data Cable :Shielded
Power Supply Type :Switching
Power Cord :Non-shielded

Support Device 5. --- KEYBOARD (HONEYWELL)

FCC ID :GJK101RX-6
Model No. :PC7XL-AA
Serial No. :SP1008
Data Cable :Shielded, 360 degree via metal backshells

Support Device 6. --- MOUSE (KYE)

FCC ID :FSUGMZFC
Model No. :NETMOUSE
Serial No. :SP1038
Data Cable :Shielded, 360 degree via metal backshells

2.3. CONNECTION DIAGRAM OF TEST SYSTEM

1. The I/O cable is connected to the support device 3.
2. The I/O cable is connected to the support device 2.
3. The I/O cable is connected to the support device 5.
4. The I/O cable is connected to the support device 4.
5. The I/O cable is connected to the support device 6.

3. TEST SOFTWARE

An executive program, FCC.EXE, which generates a complete line of continuously repeating " H " pattern is used as the test software.

The program was executed as follows :

- a. Turn on the power of all equipment.
- b. The PC reads the test program from the floppy disk drive and runs it.
- c. The PC sends " H " messages to the monitor, and the monitor displays " H " patterns on the screen.
- d. The PC sends " H " messages to the printer, then the printer prints them on the paper.
- e. The PC sends " H " messages to the modem.
- f. The PC sends " H " messages to the internal Hard Disk, then the hard disk reads and writes the message.
- g. Repeat the steps from b to g.

4. GENERAL INFORMATION OF TEST**4.1. TEST FACILITY**

This test was carried out by SPORTON INTERNATIONAL INC. in an openarea test site.

Openarea Test Site Location : No. 3, Lane 238, Kang Lo Street, Nei Hwu District,
Taipei 11424, Taiwan, R.O.C.

TEL : 886-2-2631-4739

FAX : 886-2-2631-9740

4.2. STANDARD FOR METHODS OF MEASUREMENT

ANSI C63.4-1992

4.3 .TEST IN COMPLIANCE WITH

FCC PART 15, SUBPART B CLASS B

4.4. FREQUENCY RANGE INVESTIGATED

- a. Conduction : from 450 KHz to 30 MHz
- b. Radiation : from 30 MHz to 2000 MHz

4.5. TEST DISTANCE

The test distance of radiated emission from antenna to EUT is 3M.

5. TEST OF CONDUCTED POWERLINE

Conducted Emissions were measured from 450 KHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-1992 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in Figure 5-3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

5.1. MAJOR MEASURING INSTRUMENTS

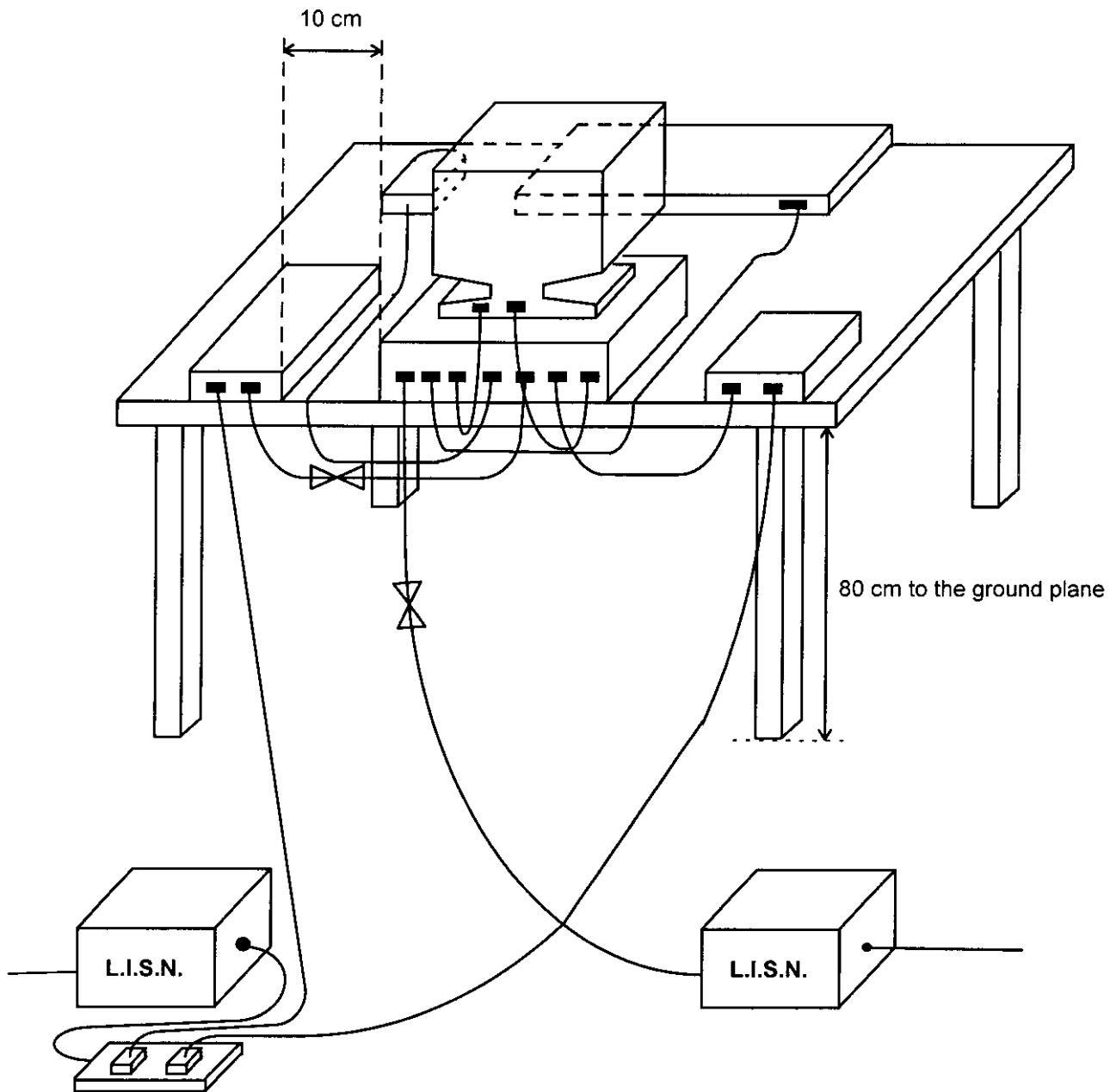
- Test Receiver

| | |
|-----------------|-----------|
| Attenuation | 0 dB |
| Start Frequency | 0.45 MHz |
| Stop Frequency | 30 MHz |
| Step MHz | 0.007 MHz |
| IF Bandwidth | 9 KHz |

5.2. TEST PROCEDURES

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room and was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connect to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm , 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 450 KHz to 30 MHz was searched.
- h. Set the test-receiver system (R/S receiver ESH3) to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- i. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB margin will be retested on by one using the quasi-peak method and reported.

5.3. TYPICAL TEST SETUP LAYOUT OF CONDUCTED POWERLINE



5.4. TEST RESULT OF AC POWERLINE CONDUCTED EMISSION

- Frequency Range of Test : from 0.45 MHz to 30 MHz
- Temperature : 25 °C
- Relative Humidity : 75% RH
- Test mode: 1024x768 (non-interlaced 69KHz), 85Hz
- All emissions not reported here are more than 10 dB below the prescribed limit.
- Test Date : FEB. 18, 1998

The Conducted Emission test was passed at minimum margin

LINE 0.58MHz /39.90dBuV.

| Frequency (MHz) | Line / Neutral | Meter Reading | | Limits | | Margin (dB) |
|-------------------|----------------|---------------|--------|----------|--------|---------------|
| | | (dBuV) | (uV) | (dBuV) | (uV) | |
| 0.49 | L | 38.70 | 86.10 | 48.00 | 251.19 | -9.30 |
| 0.58 | L | 39.90 | 98.86 | 48.00 | 251.19 | -8.10 |
| 17.51 | L | 34.80 | 54.95 | 48.00 | 251.19 | -13.20 |
| 0.48 | N | 37.10 | 71.61 | 48.00 | 251.19 | -10.90 |
| 0.57 | N | 36.70 | 68.39 | 48.00 | 251.19 | -11.30 |
| 17.50 | N | 34.10 | 50.70 | 48.00 | 251.19 | -13.90 |

Test Engineer :

Romy chou

5.4.1 TEST RESULT OF AC POWERLINE CONDUCTED EMISSION

- Frequency Range of Test : from 0.45 MHz to 30 MHz
- Temperature : 22 °C
- Relative Humidity : 73% RH
- Test mode: 1280x1024 (non-interlaced 80KHz), 75Hz
- All emissions not reported here are more than 10 dB below the prescribed limit.
- Test Date : FEB. 18, 1998

The Conducted Emission test was passed at minimum margin

LINE 23.84MHz /36.00dBuV.

| Frequency (MHz) | Line / Neutral | Meter Reading (dBuV) | (uV) | Limits (dBuV) | (uV) | Margin (dB) |
|----------------------|----------------|---------------------------|--------|--------------------|--------|------------------|
| 0.90 | L | 32.20 | 40.74 | 48.00 | 251.19 | -15.80 |
| 15.88 | L | 33.20 | 45.71 | 48.00 | 251.19 | -14.80 |
| 23.84 | L | 36.00 | 63.10 | 48.00 | 251.19 | -12.00 |
| 0.89 | N | 31.70 | 38.46 | 48.00 | 251.19 | -16.30 |
| 15.78 | N | 33.80 | 48.98 | 48.00 | 251.19 | -14.20 |
| 23.80 | N | 35.90 | 62.37 | 48.00 | 251.19 | -12.10 |

Test Engineer :

Roxly Chow

6. TEST OF RADIATED EMISSION

Radiated emissions from 30 MHz to 2000MHz were measured with a bandwidth of 120 KHz according to the methods defines in ANSI C63.4-1992. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in Figure 6-3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

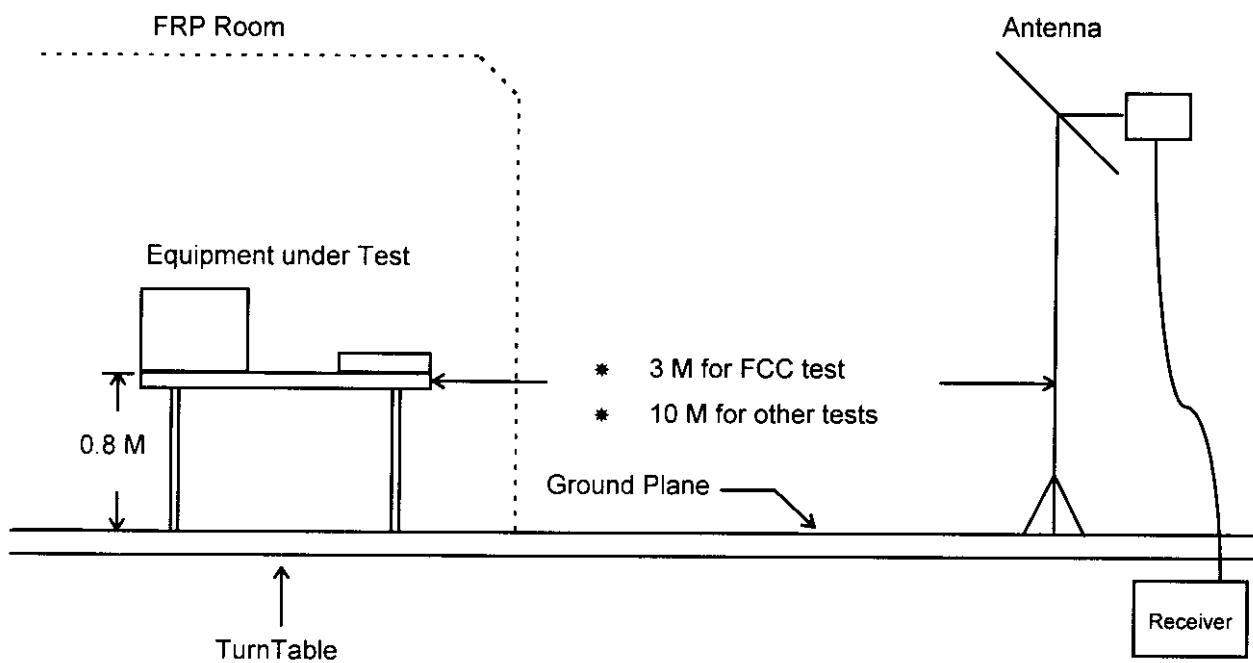
6.1. MAJOR MEASURING INSTRUMENTS

- RF Preselector
 - Attenuation 0 dB
 - RF Gain 20 dB
 - Signal Input Input 2 (for 20 MHz to 2 GHz)
- Spectrum Analyzer 8568B/8594A
 - Attenuation 0 dB
 - Start Frequency 30 MHz
 - Stop Frequency 2000MHz
 - Resolution Bandwidth 1 MHz
 - Video Bandwidth 1 MHz
 - Signal Input Input 1 (for 9KHz to 2.9 GHz)
- Quasi-Peak Adapter
 - Resolution Bandwidth 120 KHz
 - Frequency Band 30 MHz to 1 GHz
 - Quasi-Peak Detector ON for Quasi-Peak Mode
OFF for Peak Mode

6.2. TEST PROCEDURES

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system (HP 8568B/8594A) to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

6.3. TYPICAL TEST SETUP LAYOUT OF RADIATED EMISSION



6.4. TEST RESULT OF RADIATED EMISSION

- Equipment meets the technical specifications of 15.109
- Frequency Range of Test : from 30 MHz to 2000 MHz
- Test Distance : 3 M
- Temperature : 22 °C
- Relative Humidity : 73% RH
- Test mode: 1024x768 (non-interlaced 69KHz), 85Hz
- Test Date : FEB. 18, 1998
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Sample Calculation at 470.40MHz

Corrected Reading = $21.55 + 3.86 + 11.71 = 37.13$ (dBuV/m)

The Radiated Emission test was passed at minimum margin

Vertical 43.60MHz /33.20dBuV

Antenna Height 1 Meter , Turntable Degree 106°

| Frequency (MHz) | Antenna Polarity | Cable Factor (dB/m) | Reading Loss (dB) | Limits (dBuV) | Emission (dBuV/m) | Level (uV/m) | Margin (dB) | | |
|----------------------|---------------------|-----------------------------|---------------------------|--------------------|------------------------|-------------------|------------------|-------|--------|
| 43.60 | V | 1.18 | 1.21 | 30.81 | 40.00 | 100 | 33.20 | 45.71 | -6.80 |
| 212.80 | V | 14.73 | 2.46 | 17.61 | 43.50 | 150 | 34.80 | 54.95 | -8.70 |
| 227.20 | V | 15.72 | 2.54 | 15.04 | 46.00 | 200 | 33.30 | 46.24 | -12.70 |
| 211.20 | H | 14.64 | 2.46 | 16.30 | 43.50 | 150 | 33.40 | 46.77 | -10.10 |
| 259.20 | H | 17.48 | 2.71 | 15.11 | 46.00 | 200 | 35.30 | 58.21 | -10.70 |
| 470.40 | H | 21.55 | 3.86 | 11.71 | 46.00 | 200 | 37.13 | 71.86 | -8.87 |

Test Engineer :

Rony Chal

6.4.1 TEST RESULT OF RADIATED EMISSION

- Equipment meets the technical specifications of 15.109
- Frequency Range of Test : from 30 MHz to 2000 MHz
- Test Distance : 3 M
- Temperature : 22 °C
- Relative Humidity : 73% RH
- Test mode: 1280x1024 (non-interlaced 80KHz), 75Hz
- Test Date : FEB. 17, 1998
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Sample Calculation at 564.00MHz
Corrected Reading = $23.59 + 4.36 + 12.46 = 40.40$ (dBuV/m)

The Radiated Emission test was passed at minimum margin

Vertical 432.80MHz /40.80dBuV

Antenna Height 1 Meter , Turntable Degree 90°

| Frequency (MHz) | Antenna Polarity | Cable Factor (dB/m) | Reading Loss (dB) | Limits (dBuV) | Emission (dBuV/m) | Level (uV/m) | Margin (dB) | | |
|----------------------|---------------------|-----------------------------|---------------------------|--------------------|------------------------|-------------------|------------------|--------|--------|
| 33.10 | V | -1.04 | 0.91 | 34.72 | 40.00 | 100 | 34.60 | 53.70 | -5.40 |
| 79.30 | V | 7.41 | 1.47 | 24.92 | 40.00 | 100 | 33.80 | 48.98 | -6.20 |
| 254.40 | V | 17.31 | 2.68 | 20.11 | 46.00 | 200 | 40.10 | 101.16 | -5.90 |
| 432.80 | V | 21.13 | 3.63 | 16.04 | 46.00 | 200 | 40.80 | 109.65 | -5.20 |
| 134.60 | H | 11.11 | 1.90 | 20.09 | 43.50 | 150 | 33.10 | 45.19 | -10.40 |
| 564.00 | H | 23.59 | 4.36 | 12.46 | 46.00 | 200 | 40.40 | 104.71 | -5.60 |

Test Engineer :

Roxy chen

7. ANTENNA FACTOR AND CABLE LOSS

| Frequency (Mhz) | Antenna Factor (dB) | Cable Loss (dB) |
|-----------------|---------------------|-----------------|
| 30 | -2.20 | 0.80 |
| 35 | -0.70 | 0.82 |
| 40 | 0.51 | 0.94 |
| 45 | 1.30 | 1.00 |
| 50 | 2.39 | 1.00 |
| 55 | 3.14 | 1.11 |
| 60 | 4.40 | 1.20 |
| 65 | 5.14 | 1.20 |
| 70 | 5.59 | 1.20 |
| 75 | 6.11 | 1.30 |
| 80 | 7.10 | 1.40 |
| 85 | 7.53 | 1.40 |
| 90 | 8.22 | 1.40 |
| 95 | 8.80 | 1.40 |
| 100 | 9.36 | 1.50 |
| 110 | 10.11 | 1.60 |
| 120 | 10.41 | 1.70 |
| 130 | 10.74 | 1.80 |
| 140 | 11.42 | 1.91 |
| 150 | 11.91 | 2.01 |
| 160 | 12.25 | 2.01 |
| 170 | 12.22 | 2.21 |
| 180 | 13.02 | 2.30 |
| 190 | 13.50 | 2.30 |
| 200 | 14.05 | 2.40 |
| 220 | 14.31 | 2.40 |
| 240 | 15.11 | 2.50 |
| 260 | 17.11 | 2.61 |
| 280 | 17.50 | 2.70 |
| 300 | 17.99 | 3.11 |
| 320 | 18.10 | 3.10 |
| 340 | 19.13 | 3.20 |
| 360 | 20.14 | 3.30 |
| 380 | 21.81 | 3.40 |
| 400 | 22.29 | 3.60 |
| 450 | 22.40 | 3.80 |
| 500 | 22.31 | 4.10 |
| 550 | 23.42 | 4.40 |
| 600 | 24.01 | 4.60 |
| 650 | 25.11 | 5.00 |
| 700 | 26.00 | 5.30 |
| 750 | 26.51 | 5.51 |
| 800 | 27.10 | 5.70 |
| 850 | 27.51 | 5.90 |
| 900 | 27.90 | 6.20 |
| 950 | 30.01 | 6.30 |
| 1000 | 29.00 | 6.40 |

* Remark: For frequency above 1000 MHz, we used low cable loss BNC cable to test.

8. LIST OF MEASURING INSTRUMENTS USED

| INSTRUMENT | Manufacturer | Model No. | Serial No. | Characteristic | Calibration date | Remark |
|-----------------------------|--------------|------------|------------|------------------|------------------|--------|
| Spectrum monitor | R&S | EZM | 894987/011 | -- | Mar. 20, 1997 | C |
| Test Receiver | R&S | ESH3 | 893495/013 | 9 KHz - 30MHz | Mar. 21, 1997 | C |
| Test Receiver | R&S | ESVP | 893610/003 | 20Hz - 1.3 GHz | Mar. 20, 1997 | C |
| LISN | EMCO | 3825/2 | 9510-2484 | 50 ohm / 50 uH | Nov. 29, 1997 | C |
| LISN | KYORITSU | KNW-407 | 8-1010-15 | 50 ohm / 50 uH | Nov. 10, 1997 | C |
| EMI Filter | CORCOM | MRI-2030 | N/A | 480 VAC / 30 A | N/A | C |
| EMI Filter | CORCOM | MRI-2030 | N/A | 480 VAC / 30 A | N/A | C |
| Spectrum Analyzer (site 1) | HP | 8568B | 2928A04713 | 100Hz - 1500MHz | Jul. 19, 1997 | R |
| Quasi-peak Adapter (site 1) | HP | 85650A | 2811A01285 | 9KHz -1 GHz | Jul. 19, 1997 | R |
| RF Preselector (site 1) | HP | 85685A | 2926A00951 | 20Hz-1GHz | Aug. 12, 1997 | R |
| Bilog Antenna (1) | CHASE | CBL6112A | 2296 | 30 MHz -2000 MHz | Jul. 24, 1997 | R |
| Half-wave dipole antenna | EMCO | 3121C | 8912-496 | 28M-1GHZ | Aug. 12, 1997 | R |
| Turn Table | EMCO | 1060-1.211 | 9507-1805 | 0 ~ 360 degree | N/A | R |
| Antenna Mast | EMCO | 1051-1.2 | 9502-1868 | 1 m- 4 m | N/A | R |

※ The column of Remark indicates that the instruments used for conduction ("C") or radiation ("R") test.



SPORTON LAB.

Certificate No: D700701

CERTIFICATE OF COMPLIANCE

Authorized under Declaration of Conformity
according to

47 CFR, Part 2 and Part 15 of the FCC Rules

Equipment Under Test : PERSONAL COMPUTER

Model No. : P2L97

Applicant : FIRST INTERNATIONAL COMPUTER INC.

6F, Formosa Plastics Rear Building 201,
Tung Hwa N. Rd., Taipei, Taiwan, R.O.C.

EXHIBIT



CERTIFY THAT:

THE MEASUREMENTS SHOWN IN THIS TEST REPORT WERE MADE IN
ACCORDANCE WITH THE PROCEDURES GIVEN IN ANSI C63.4-1992 AND THE
ENERGY EMITTED BY THIS EQUIPMENT WAS PASSED BOTH RADIATED AND
CONDUCTED EMISSIONS CLASS B LIMITS. THE TESTING WAS COMPLETED ON SEP. 02,
1997 AT SPORTON INTERNATIONAL INC. LAB IN NEI HWU.

W. L. Huang
W. L. Huang
GENERAL MANAGER

OCT 01/97