



# Test Report

## Class II Change

For

**Applicant** : Mitac Technology Corp.

**Equipment Type** : Notebook P.C.

**Model** : A-320T

**FCC ID** : MAU008

**Report No. : 006H026FI**



## Test Report Certification

### Quietek Corporation

No.75-1, Wang-Yeh Valley, Yung-Hsing, Chiung-Lin,  
Hsin-Chu County, Taiwan, R.O.C.

Tel : 886-3-592-8858, Fax: 886-3-592-8859

E-Mail : quietek@ms24.hinet.net

Accredited by NIST(NVLAP), VCCI, BSMI, DNV, TUV

Applicant : Mitac Technology Corp.  
Address : No.19-1, Innovation Rd. 1, Science-Based Industrial Park,  
Hsin-Chu, Taiwan, R.O.C.  
Equipment Type : Notebook P.C.  
Model : A-320T  
FCC ID. : MAU008  
Measurement Standard : CISPR 22/1994  
Measurement Procedure : ANSI C63.4 /1992  
Operation Voltage : 120VAC/60Hz  
Classification : Class B  
Test Result : Complied  
Test Date : June 21, 2000  
Report No. : 006H026FI



The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Documented by: Zoe Lee

A handwritten signature in cursive script, appearing to read "Zoe Lee", is written over the printed name.

Test Engineer: Ken Chy

A handwritten signature in cursive script, appearing to read "Ken Chy", is written over the printed name.

Approved: Gene Chang

A handwritten signature in cursive script, appearing to read "Gene Chang", is written over the printed name.



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## 1. General Information

### 1.1 EUT Description

|                   |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| Applicant         | : Mitac Technology Corp.                                                                |
| Address           | : No.19-1, Innovation Rd. 1, Science-Based Industrial Park,<br>Hsin-Chu, Taiwan, R.O.C. |
| Equipment Type    | : Notebook P.C.                                                                         |
| Model             | : A-320T                                                                                |
| FCC ID            | : MAU008                                                                                |
| Operation Voltage | : 120VAC/60Hz                                                                           |
| Mother Board      | : Mitac, A-SERIES, 411112000094                                                         |
| CPU               | : INTEL, PML50002001AA, W248004444, Speed: 500MHz                                       |
| FDD               | : TEAC, FD-05HG-5661                                                                    |
| HDD               | : Fujitsu, MHE2064AT,01021869                                                           |
| CD-ROM            | : TEAC, CD-224E, 19770339-04                                                            |
| LCD-PANEL         | : D291301                                                                               |
| LCD-INVERTER      | : Mitac, A7601320, 412112000007                                                         |
| SDRAM             | : UNIFOSA, U17064IHMV66220, 64M                                                         |
| TRACK PAD         | : Mitac, I-SERIES, 793901111011                                                         |
| PC CONVERTOR      | : LIEN CHANG, BSD-A760                                                                  |
| Battery           | : GLW, A14SL, 99GEA14SG600                                                              |
| Power Adapter     | : ILAN, F17003D,<br>Cable In: Non-Shielded, 1.8m, a ferrite core bonded.                |

Remark:

- 1.The EUT is a Notebook P.C. with ID MAU008.
- 2.The class II change is issued in changing of speed of CPU from 333MHz to 500MHz, and the model of LCD panel.
- 2.QuieTek has verified the construction and function in typical operation, them shown in this test report.



## 1.2 Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards ) are:

### 1.2.1 Notebook P.C.(EUT)

Model Number : A-320T  
Serial Number : N/A  
FCC ID : MAU008  
Manufacturer : Mitac  
Power Adapter : ILAN, F19603H  
Cable In: Non-shielded, 1.8m, a ferrite core bonded

### 1.2.2 Monitor

Model Number : CM752ET-311  
Serial Number : T8E004443  
FCC ID : DoC  
Manufacturer : HITACHI  
Data Cable : Shielded, 1.5m  
Power Cord : Shielded, 1.8m

### 1.2.3 Keyboard

Model Number : 6311-TW4C  
Serial Number : 916590704C91F24437  
FCC ID : DoC  
Manufacturer : ACER  
Data Cable : Shielded, 1.8m

### 1.2.4 Modem

Model Number : 1414  
Serial Number : 980033032  
FCC ID : IFAXDM1414  
Manufacturer : ACEEX  
Data Cable : Shielded, 1.5m  
Power Adapter : ACCEX, SCP41-91000A  
Cable Output : Shielded, 1.5m



### 1.2.5 Printer

Model Number : C2642A  
Serial Number : MY75N1D2Y1  
FCC ID : B94C2642X  
Manufacturer : HP  
Data Cable : Shielded, 1.2m  
Power Adapter : NMB, C2175A  
Cable for AC IN: Non-Shielded, 0.7m  
Cable for AC Out: Non-Shielded, 1.5m

### 1.2.6 Mouse

Model Number : M-S34  
Serial Number : 6ZC84204346  
FCC ID : DZL211029  
Manufacturer : Logitech  
Data Cable : Shielded, 1.8m

### 1.2.7 Microphone

Model Number : CD-8000  
Serial Number : N/A  
FCC ID : DoC  
Manufacturer : AIWA  
Data Cable : Non-Shielded, 1m

### 1.2.8 Earphone

Model Number : PH136  
Serial Number : N/A  
Manufacturer : BSD  
Data Cable : Shielded, 1.2m

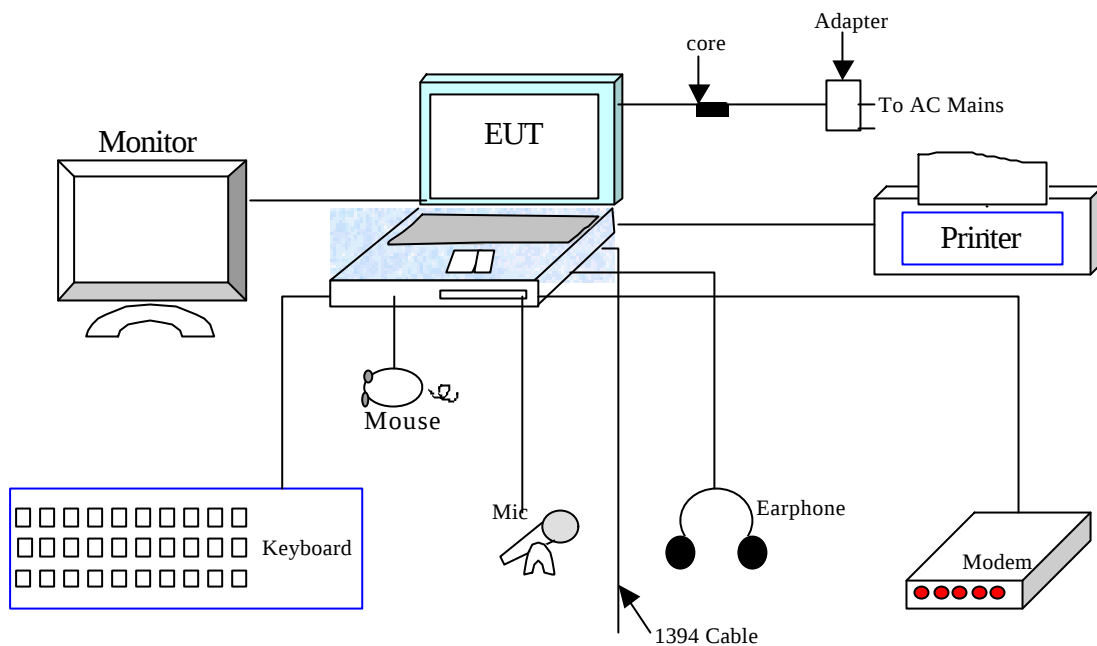
### 1.2.9 Tel Line:Non-Shielded, 2.5m

### 1.2.10 UTP Cable: Non-Shielded, 3m

### 1.2.11 1394 Cable: Shielded, 4m, 1pc



### 1.3 EUT Configuration



### 1.4 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

- 1.4.1 Setup the EUT (Notebook P.C.) and simulators as shown on 1.3.
- 1.4.2 Turn on the power of all equipment.
- 1.4.3 EUT reads data from disk.
- 1.4.4 EUT sends "H" pattern to printer, the printer will print "H" pattern on paper.
- 1.4.5 EUT reads and writes data into and from modem.
- 1.4.6 EUT will read data from floppy disk and then writes the data into floppy disk, same operation for hard disk.
- 1.4.7 Repeat the above procedure 1.4.4 to 1.4.6.

### 1.5 Test performed

Conducted emissions were investigated over the frequency range from **0.15MHz to 30MHz** using a receiver bandwidth of 9kHz.

Radiated emissions were investigated over the frequency range from **30MHz to 1000MHz** using a receiver bandwidth of 120kHz. Radiated testing was performed at an antenna to EUT distance of 10 meters.

## 1.6 Test Facility

Ambient conditions in the laboratory:

| Items                      | Required (IEC 68-1) | Actual   |
|----------------------------|---------------------|----------|
| Temperature (°C)           | 15-35               | 20-35    |
| Humidity (%RH)             | 25-75               | 50-65    |
| Barometric pressure (mbar) | 860-1060            | 950-1000 |

Site Description: November 3, 1998 File on  
Federal Communications Commission  
FCC Engineering Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046  
Reference 31040/SIT1300F2



September 30, 1998 Accreditation on NVLAP  
NVLAP Lab Code: 200347-0

February 23, 1999 Accreditation on DNV  
Statement No. : 413-99-LAB11



December 8, 1998 Registration on VCCI  
Registration No. for No.2 Shielded Room C-858  
Registration No. for No.1 Open Area Test Site R-823  
Registration No. for No.2 Open Area Test Site R-835



January 04, 1999 Accreditation on TÜV Rheinland  
Certificate No.: I9865712-9901



Name of firm : QuieTek Corporation

Site location : No.75-1, Wang-Yeh Valley, Yung-Hsing Tsuen,  
Chiung-Lin, Hsin-Chu County, Taiwan, R.O.C.



## 2. Conducted Emission

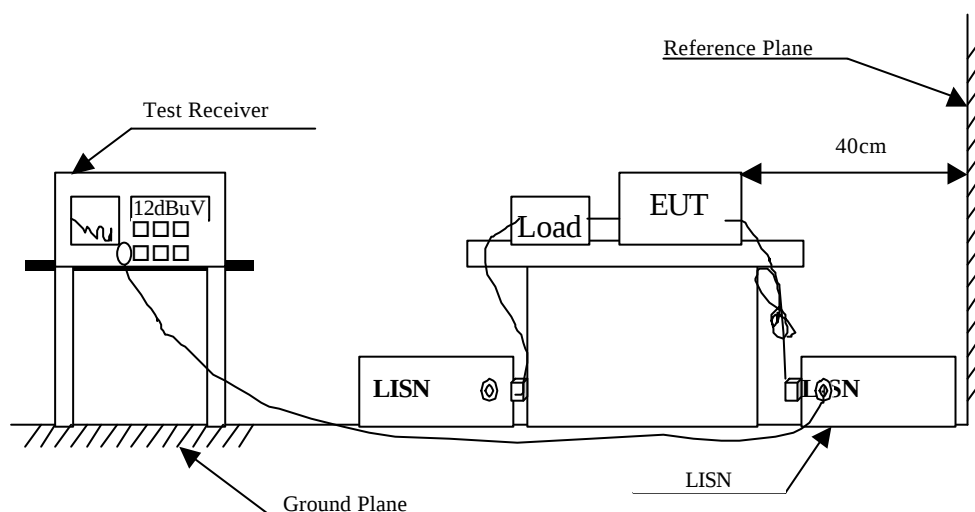
### 2.1 Test Equipment List

The following test equipment are used during the conducted emission test:

| Item | Instrument         | Manufacturer | Type No./Serial No | Last Cal. | Remark      |
|------|--------------------|--------------|--------------------|-----------|-------------|
| 1    | Test Receiver      | R & S        | ESCS 30/825442/17  | May, 2000 |             |
| 2    | L.I.S.N.           | R & S        | ESH3-Z5/825016/6   | May, 2000 | EUT         |
| 3    | L.I.S.N.           | Kyoritsu     | KNW-407/8-1420-3   | May, 2000 | Peripherals |
| 4    | Pulse Limiter      | R & S        | ESH3-Z2            | N/A       |             |
| 5    | N0.2 Shielded Room |              |                    | N/A       |             |

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

### 2.2 Test Setup



### 2.3 Limits

| CISPR 22 Limits (dBuV) |         |    |         |       | FCC Part 15 Subpart B (dBuV) |         |      |         |      |
|------------------------|---------|----|---------|-------|------------------------------|---------|------|---------|------|
| Frequency<br>MHz       | Class A |    | Class B |       | Frequency<br>MHz             | Class A |      | Class B |      |
|                        | QP      | AV | QP      | AV    |                              | uV      | dBuV | uV      | dBuV |
| 0.15 - 0.50            | 79      | 66 | 66-56   | 56-46 | 0.45-1.705                   | 1000    | 60.0 | 250     | 48.0 |
| 0.50-5.0               | 73      | 60 | 56      | 46    | 1.705-30                     | 3000    | 69.5 | 250     | 48.0 |
| 5.0 - 30               | 73      | 60 | 60      | 50    |                              |         |      |         |      |

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

## 2.4 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 /1992 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

## 2.5 Test Results

The conducted emission from the EUT is measured and shown in Attachment 1 of test report. The acceptance criterion was met and the EUT passed the test.



### 3. Radiated Emission

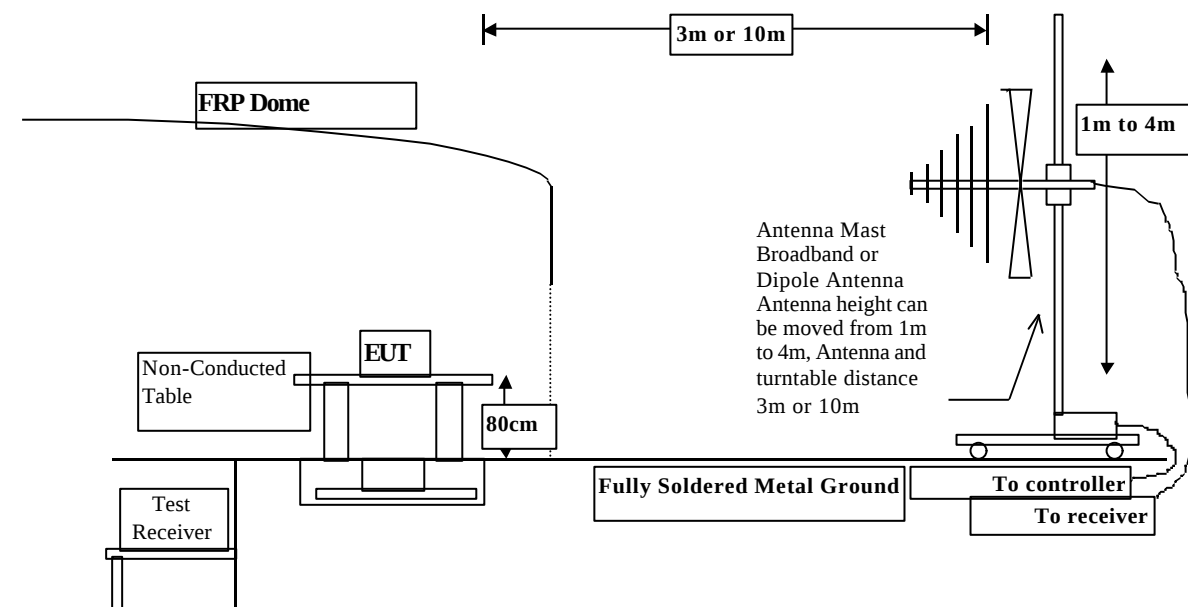
#### 3.1 Test Equipment

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

| Test Site |   | Equipment         | Manufacturer | Model No./Serial No. | Last Cal.  |
|-----------|---|-------------------|--------------|----------------------|------------|
| Site # 1  | X | Test Receiver     | R & S        | ESCS 30 / 825442/14  | May, 2000  |
|           |   | Spectrum Analyzer | Advantest    | R3261C / 71720140    | May, 2000  |
|           |   | Pre-Amplifier     | HP           | 8447D/3307A01812     | May, 2000  |
|           | X | Bilog Antenna     | Chase        | CBL6112B / 12452     | Sep., 1999 |
|           | X | Horn Antenna      | EM           | EM6917 / 103325      | May, 2000  |
| Site # 2  | X | Test Receiver     | R & S        | ESCS 30 / 825442/17  | May, 2000  |
|           |   | Spectrum Analyzer | Advantest    | R3261C / 71720609    | May, 2000  |
|           |   | Pre-Amplifier     | HP           | 8447D/3307A01814     | May, 2000  |
|           | X | Bilog Antenna     | Chase        | CBL6112B / 2455      | Sep., 1999 |
|           | X | Horn Antenna      | EM           | EM6917 / 103325      | May, 2000  |

- Note:
1. All equipment upon which need to calibrated are with calibration period of 1 year.
  - 2.. Mark "X" test instruments are used to measure the final test results.

#### 3.2 Test Setup



### 3.3 Limits

| CISPR 22 Limits |              |        |              |        | FCC Part 15 Subpart B |         |        |         |        |
|-----------------|--------------|--------|--------------|--------|-----------------------|---------|--------|---------|--------|
| Frequency       | Class A      |        | Class B      |        | Frequency             | Class A |        | Class B |        |
| MHz             | Distance (m) | dBuV/m | Distance (m) | dBuV/m |                       | UV/m    | DBuV/m | UV/m    | DBuV/m |
| 30 – 230        | 10           | 40     | 10           | 30     | 30 – 88               | 90      | 39     | 100     | 40.0   |
| 230 – 1000      | 10           | 47     | 10           | 37     | 88 – 216              | 150     | 43.5   | 150     | 43.5   |
|                 |              |        |              |        | 216 – 960             | 210     | 46.5   | 200     | 46.0   |
|                 |              |        |              |        | 960 - 2000            | 300     | 49.5   | 500     | 54.0   |

Remark: 1. The tighter limit shall apply at the edge between two frequency bands.

2. 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. RF Line Voltage (dBuV/m) = 20 log RF Line Voltage (uV/m)

### 3.4 Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 10 meters . The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4 /1992 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30 ) is 120 kHz.

### 3.5 Test Results

The radiated emission from the EUT is measured and shown in Attachment 1 of test report. The acceptance criterion was met and the EUT passed the test.

#### **4. EMI Reduction Method During Compliance Testing**

No modification was made during testing.



## 5. **Attachment**

|                                        |                    |
|----------------------------------------|--------------------|
| Attachment 1: Summary of Test Results  | Number of Pages: 5 |
| Attachment 2: EUT Test Photographs     | Number of Pages: 2 |
| Attachment 3: EUT Detailed Photographs | Number of Pages: 3 |



## Attachment 1 : Summary of Test Results

The test results in the emission was performed according to the requirements of measurement standard and process. QuieTek Corporation is assumed full responsibility for the accuracy and completeness of these measurements. The test data of the emission is listed as the attached data.

All the tests were carried out with the EUT in normal operation, which was defined as:

Mode 1 : A-320T

**The EUT passed all the tests.**

The uncertainty is calculated in accordance with NAMAS NIS 81, The total uncertainty for this test is as follows:

➤ **Emission Test**

- Uncertainty in the Conducted Emission Test:  $< \pm 2.0 \text{ dB}$
- Uncertainty in the field strength measured:  $< \pm 4.0 \text{ dB}$



## CONDUCTED EMISSION DATA

Date of Test : June 21, 2000 EUT : Notebook P.C.  
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

| Frequency | Cable | LISN   | Reading Level | Measurement Level | Limits |
|-----------|-------|--------|---------------|-------------------|--------|
|           | Loss  | Factor | Line1         | Line1             |        |
| MHz       | dB    | dB     | dBuV          | dBuV              | dBuV   |
| =====     |       |        |               |                   |        |
| * 0.185   | 0.01  | 0.10   | 48.35         | 48.46             | 64.26  |
| 0.247     | 0.03  | 0.10   | 40.21         | 40.34             | 61.86  |
| 0.306     | 0.04  | 0.10   | 39.79         | 39.93             | 60.08  |
| 0.368     | 0.05  | 0.10   | 42.09         | 42.24             | 58.55  |
| 0.491     | 0.06  | 0.10   | 39.66         | 39.82             | 56.15  |
| 1.960     | 0.14  | 0.13   | 33.98         | 34.25             | 56.00  |
| 5.390     | 0.21  | 0.17   | 41.88         | 42.26             | 60.00  |

### Average :

|       |      |      |       |       |       |
|-------|------|------|-------|-------|-------|
| 0.185 | 0.01 | 0.10 | 45.60 | 45.71 | 54.26 |
| 0.247 | 0.03 | 0.10 | 37.90 | 38.03 | 51.86 |
| 0.306 | 0.04 | 0.10 | 39.10 | 39.24 | 50.08 |
| 0.368 | 0.05 | 0.10 | 41.50 | 41.65 | 48.55 |
| 0.491 | 0.06 | 0.10 | 39.10 | 39.26 | 46.15 |
| 1.960 | 0.14 | 0.13 | 33.60 | 33.87 | 46.00 |
| 5.389 | 0.21 | 0.17 | 39.70 | 40.08 | 50.00 |

### Remarks :

1. “ \* ” means that this data is the worst emission level.



## CONDUCTED EMISSION DATA

|              |   |               |             |   |                      |
|--------------|---|---------------|-------------|---|----------------------|
| Date of Test | : | June 21, 2000 | EUT         | : | Notebook P.C.        |
| Test Mode    | : | Mode 1        | Detect Mode | : | Quasi-Peak & Average |

| Frequency | Cable | LISN   | Reading Level | Measurement Level | Limits |
|-----------|-------|--------|---------------|-------------------|--------|
|           | Loss  | Factor | Line2         | Line2             |        |
| MHz       | dB    | dB     | dBuV          | dBuV              | dBuV   |
| =====     |       |        |               |                   |        |
| * 0.183   | 0.01  | 0.10   | 49.56         | 49.67             | 64.35  |
| 0.307     | 0.04  | 0.10   | 42.63         | 42.77             | 60.05  |
| 0.369     | 0.05  | 0.10   | 34.63         | 34.78             | 58.52  |
| 0.428     | 0.06  | 0.10   | 35.70         | 35.86             | 57.29  |
| 1.040     | 0.10  | 0.10   | 35.52         | 35.72             | 56.00  |
| 5.261     | 0.21  | 0.17   | 41.81         | 42.19             | 60.00  |

Average :

|       |      |      |       |       |       |
|-------|------|------|-------|-------|-------|
| 0.183 | 0.01 | 0.10 | 45.10 | 45.21 | 54.35 |
| 0.307 | 0.04 | 0.10 | 42.20 | 42.34 | 50.05 |
| 0.369 | 0.05 | 0.10 | 42.20 | 42.35 | 48.52 |
| 0.428 | 0.06 | 0.10 | 34.40 | 34.56 | 47.29 |
| 1.039 | 0.10 | 0.10 | 35.10 | 35.30 | 46.00 |
| 5.261 | 0.21 | 0.17 | 41.00 | 41.38 | 50.00 |

Remarks :

1. “ \* ” means that this data is the worst emission level.



## RADIATED EMISSION DATA

|              |   |               |           |   |                     |
|--------------|---|---------------|-----------|---|---------------------|
| Date of Test | : | June 21, 2000 | EUT       | : | Notebook P.C.       |
| Test Mode    | : | Mode 1        | Test Site | : | No.1 Open Test Site |

| Freq.    | Cable | Probe  | PreAMP | Reading | Measurement | Margin | Limit  | Ant | Turn |
|----------|-------|--------|--------|---------|-------------|--------|--------|-----|------|
|          | Loss  | Factor |        | Level   | Horizontal  |        |        |     |      |
| MHz      | dB    | dB/m   | dB     | dBuV    | dBuV/m      | dB     | dBuV/m | cm  | deg  |
| 72.065   | 1.55  | 6.94   | 0.00   | 5.68    | 14.18       | 15.82  | 30.00  | 193 | 195  |
| 199.150  | 2.78  | 9.30   | 0.00   | 11.61   | 23.69       | 6.31   | 30.00  | 193 | 183  |
| 232.390  | 3.10  | 10.57  | 0.00   | 10.93   | 24.60       | 12.40  | 37.00  | 193 | 145  |
| 248.910  | 3.25  | 12.36  | 0.00   | 11.65   | 27.26       | 9.74   | 37.00  | 193 | 94   |
| 298.720  | 3.74  | 13.33  | 0.00   | 13.00   | 30.07       | 6.93   | 37.00  | 193 | 25   |
| 325.725  | 3.89  | 13.56  | 0.00   | 6.61    | 24.06       | 12.94  | 37.00  | 193 | 72   |
| 431.790  | 4.44  | 16.31  | 0.00   | 3.05    | 23.80       | 13.20  | 37.00  | 193 | 89   |
| *497.815 | 4.78  | 17.31  | 0.00   | 12.10   | 34.19       | 2.81   | 37.00  | 193 | 33   |
| 597.495  | 5.30  | 18.93  | 0.00   | 5.28    | 29.51       | 7.49   | 37.00  | 193 | 46   |

### Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ \* ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss



## RADIATED EMISSION DATA

|              |                 |           |   |                     |
|--------------|-----------------|-----------|---|---------------------|
| Date of Test | : June 21, 2000 | EUT       | : | Notebook P.C.       |
| Test Mode    | : Mode 1        | Test Site | : | No.1 Open Test Site |

| Freq.    | Cable | Probe  | PreAMP | Reading | Measurement | Margin | Limit  | Ant | Turn |
|----------|-------|--------|--------|---------|-------------|--------|--------|-----|------|
|          | Loss  | Factor |        | Level   | Vertical    |        |        |     |      |
| MHz      | dB    | dB/m   | dB     | dBuV    | dBuV/m      | dB     | dBuV/m | cm  | deg  |
| =====    |       |        |        |         |             |        |        |     |      |
| 79.300   | 1.63  | 6.62   | 0.00   | 17.25   | 25.50       | 4.50   | 30.00  | 193 | 167  |
| *199.247 | 2.78  | 9.07   | 0.00   | 14.60   | 26.46       | 3.54   | 30.00  | 193 | 16   |
| 232.390  | 3.10  | 10.41  | 0.00   | 9.60    | 23.11       | 13.89  | 37.00  | 193 | 89   |
| 248.902  | 3.25  | 12.13  | 0.00   | 10.10   | 25.49       | 11.51  | 37.00  | 193 | 108  |
| 260.585  | 3.36  | 13.90  | 0.00   | 15.71   | 32.97       | 4.03   | 37.00  | 193 | 119  |
| 298.878  | 3.75  | 13.54  | 0.00   | 13.10   | 30.39       | 6.61   | 37.00  | 193 | 102  |
| 497.811  | 4.78  | 17.11  | 0.00   | 10.80   | 32.69       | 4.31   | 37.00  | 193 | 115  |
| 597.120  | 5.30  | 18.51  | 0.00   | 2.41    | 26.22       | 10.78  | 37.00  | 193 | 90   |

### Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ \* ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss.

