

**Test Report**  
**Application for Certification**  
**On Behalf Of**  
**INNOLABS CORPORATION**  
**Notebook PC**

**Model : 9800**

**FCC ID : NSB9800**

Prepared For:  
INNOLABS CORPORATION  
2F-4, No. 16, Lane 609, Sec. 5 Chung Hsin Road,  
San Chung City, Taipei Hsien, Taiwan.

Report By :Global EMC Standard Tech. Corp.  
No.3 Pau-Tou-Tsuo Valley, Chia-Pau  
Tsuen, Lin Kou Hsiang, Taipei Country,  
Taiwan, R.O.C.  
Tel : (02) 603-5321  
Fax : (02) 603-5325

**InnoLabs Corporation**

2F-4, No.16, Lane 609, Sec. 5,  
Chung Hsin Road, San Chung City, Taipei Hsien  
Taiwan, R.O.C.  
Tel: 886-2-9957576 Fax: 886-2-9998676

**First Internation Computer Inc.**

Notebook PC  
Model No.: 9800

**FCC ID: NSB9800**

Application No. : 97C026 F  
Application Date : Apr. 22, 1998

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GESTEK 98 F011

# 1. Test Report Certification

**Applicant : INNOLABS CORPORATION****Manufacturer : FEATRON TECHNOLOGIES CORPORATION.****EUT Description : Notebook PC**

(A) FCC ID : NSB9800

(B) Model No. : 9800

(C) Serial No. : N/A

(D) Power : 100~240V , 50/60Hz

**MEASUREMENT PROCEDURE USED :**

CFR 47, Part 15 Radio Frequency Device Subpart B Unintentional Radiators Class B :1996

CISPR 22 Limits and methods of measurement of radio disturbance characteristics of information technology equipment: 1993

ANSI C63.4 Methods of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9kHz to 40GHz. :1992

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.



Sample Received Date : Dec. 11, 1997

Final Test Date : Mar. 31, 1998

Documented by : Christine Fun

Test Engineer :

Handwritten signature of Jackie Lin in cursive script.

JACKIE LIN

Approve &amp; Authorized Signer :

Handwritten signature of Terry Chung in cursive script.

TERRY CHUNG

This test data shown below is traceable to NIST.

## 2. General Information

### 2.1 Production Description

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | : Notebook PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Model Number  | : 9800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Serial Number | : Prototype                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Applicant     | : INNOLABS CORPORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Address       | : 2F-4, No. 16, Lane 609, Sec. 5 Chung Hsin Road,<br>San Chung City, Taipei Hsien, Taiwan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Manufacturer  | : FEATRON TECHNOLOGIES CORPORATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Address       | : 16-6, Tze Chian 1 Road, Chungli Industrial Park<br>Chungli, Taoyuan, Taiwan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| FCC ID        | : N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CPU           | : 1. Intel 233 MHz, Clock: 66MHz<br>2. Intel 266 MHz, Clock: 66MHz<br>3. Pentium II 266 MHz, Clock: 66MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Adaptor       | : LITEON, PA-1600-19FI<br>I/P: 100~240V, 1.5A, 50~60Hz<br>O/P: 19V, 3.2A Max. 60.8W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test mode     | : Mode 1. Resolution: 1024 x 768, w/CRT, Non-interlaced, 266 MHz,<br>LCD Panel #1: SAMSUNG, LT133X1-104, 13.3"<br>Mode 2. Resolution: 800 x 600, Non-interlaced, 233 MHz,<br>LCD Panel #1: SAMSUNG, LT133X1-104, 13.3"<br>Mode 3. Resolution: 1024 x 768, w/CRT, Non-interlaced, 266 MHz,<br>LCD Panel #2: L.G., LP141X1<br>Mode 4. Resolution: 800 x 600, Non-interlaced, 233 MHz,<br>LCD Panel #2: L.G., LP141X1<br>Mode 5. Resolution: 640 x 480, TV out, Non-interlaced, 266 MHz<br>LCD Panel #2: SAMSUNG, LT133X1-104, 13.3"<br>Mode 6. Resolution: 1024 x 768, Non-interlaced, Pentium II 266 MHz<br>LCD Panel #3: L.G., LP141X2-B, 14.1" |

Note: 1 This Notebook PC can support two differential CPU/Clock frequency modes up to 266MHz. All available option were investigated. The data show in this test report reflects the worst-case data for each clock frequency/video resolution and for each option listed in Section 2.2.

## 2.2 Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system ( including inserted cards, which have grants) are:

☒ Host Notebook PC (EUT)

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Model Number         | : 9800                                             |
| Serial Number        | : N/A                                              |
| FCC ID               | : N/A                                              |
| Manufacturer         | : FEATRON TECHNOLOGIES CORPORATION                 |
| CPU # 1              | : Intel 233MHz, Clock: 66MHz                       |
| CPU # 2              | : Intel 266MHz, Clock: 66MHz                       |
| CPU # 3              | : Pentium II 266MHz, Clock: 66MHz                  |
| Floppy Disk Driver   | : TEAC, M/N. FD-05HG                               |
| Hard Disk Driver     | : Toshiba, M/N. MK2103MAV                          |
| LCD Panel (# 1)13.3" | : SAMSUNG, LT133X1-104                             |
| LCD Panel (# 2)14.1" | : L.G., LP141X1                                    |
| LCD Panel (# 3)14.1" | : L.G., LP141X2-B, 14.1"                           |
| Mother Board         | : Featron Technologies Corp,<br>Model No. M.B.9700 |
| CD-ROM               | : Toshiba, M/N. XM-1602B                           |
| Battery Pack         | : SONY, LIP9020                                    |
| Li-ION Battery Pack  | : Molicell, 2700mAH/14.4V                          |
| Modem Card           | : Archtek Telecom Corp., 56MRDI                    |
| I/O Board            | : on board                                         |
| Adaptor              | : LITEON, PA-1600-19FI                             |
| Power Cord           | : Non-Shielded, Detachable., 1.7m                  |

☒ Monitor

|               |                                |
|---------------|--------------------------------|
| Model Number  | : E447AU                       |
| Serial Number | : 531DN000K00214               |
| FCC ID        | : GKR447A                      |
| Manufacturer  | : COMPAL                       |
| Data Cable    | : Shielded, Undetachable, 1.5m |
| Power Cord    | : Shielded, Detachable, 1.8m   |

☒ Keyboard(PS2)

|               |                                |
|---------------|--------------------------------|
| Model Number  | : 5140                         |
| Serial Number | : 867110112                    |
| FCC ID        | : E5XKBM10410                  |
| Manufacturer  | : BTC                          |
| Data Cable    | : Sheiled, Undetachable, 1.2 m |

☒ Modem

Model Number : 1414  
Serial Number : 960018041  
FCC ID : IFAXDM1414  
Manufacturer : ACEEX  
Adaptor & Power Cord : Non-Shielded, Detachable, 1.5m  
Data Cable : Shielded, Detachable, 1.2m

☒ Printer

Model Number : 2225C+  
Serial Number : 3029S78093  
FCC ID : DSI6XU2225  
Manufacturer : HP  
Adaptor & Power Cord : Non-Shielded, Detachable, 1.9m  
Data Cable : Shielded, Detachable, 1.2m

☒ LCD PROJECTOR

Model Number : CPJ-200  
Serial Number : 87881  
FCC ID : N/A  
Manufacturer : SONY  
Power Cord : Non-Shielded, Detachable, 1.8m  
Data Cable : Shielded, Detachable, 1.2m\*4

☒ Mouse(USB)

Model Number : LTC70500572  
Serial Number : N/A  
FCC ID : N/A  
Manufacturer : LOGITECH  
Data Cable : Shielded, Undetachable, 1.5m

☒ Microphone

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

☒ Speaker

Model Number : DS-203  
Serial Number : N/A  
FCC ID : N/A  
Manufacturer : Crocodile  
Power Cord : N/A  
Data Cable : Shielded, Undetachable, 1m

☒ Joystick

Model Number : 3001  
Serial Number : AE62901419  
FCC ID : N/A  
Manufacturer : Logitech  
Data Cable : Shielded, Undetachable, 0.8m

☒ Radio Receiver

Model Number : HS-GS162  
Serial Number : LYJ1084567  
FCC ID : N/A  
Manufacturer : AIWA CO., LTD  
Power Cord : N/A (Battery)

☒ Cassette Recorder

Model Number : CR-AS45  
Serial Number : LC79605080313  
FCC ID : N/A  
Manufacturer : AIWA CO., LTD.  
Power Cord : N/A (Battery)

## 2.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-1992.

Radiated testing was performed at an antenna to EUT distance of 3 meters.

## 2.4 Test Facility

Site Description : Aug. 10, 1995 File on  
Federal Communication Commission  
FCC Engineering Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046  
Reference 31040/SIT1300F2

Name of firm : Global EMC Standard Tech. Corp.

Site location : No. 3 Pau-Tou Valley, Chia-Pau Tsuen, Lin Kou  
Tsiang, Taipei Country, Taiwan, R.O.C.

### 3. Conducted Power Line Test

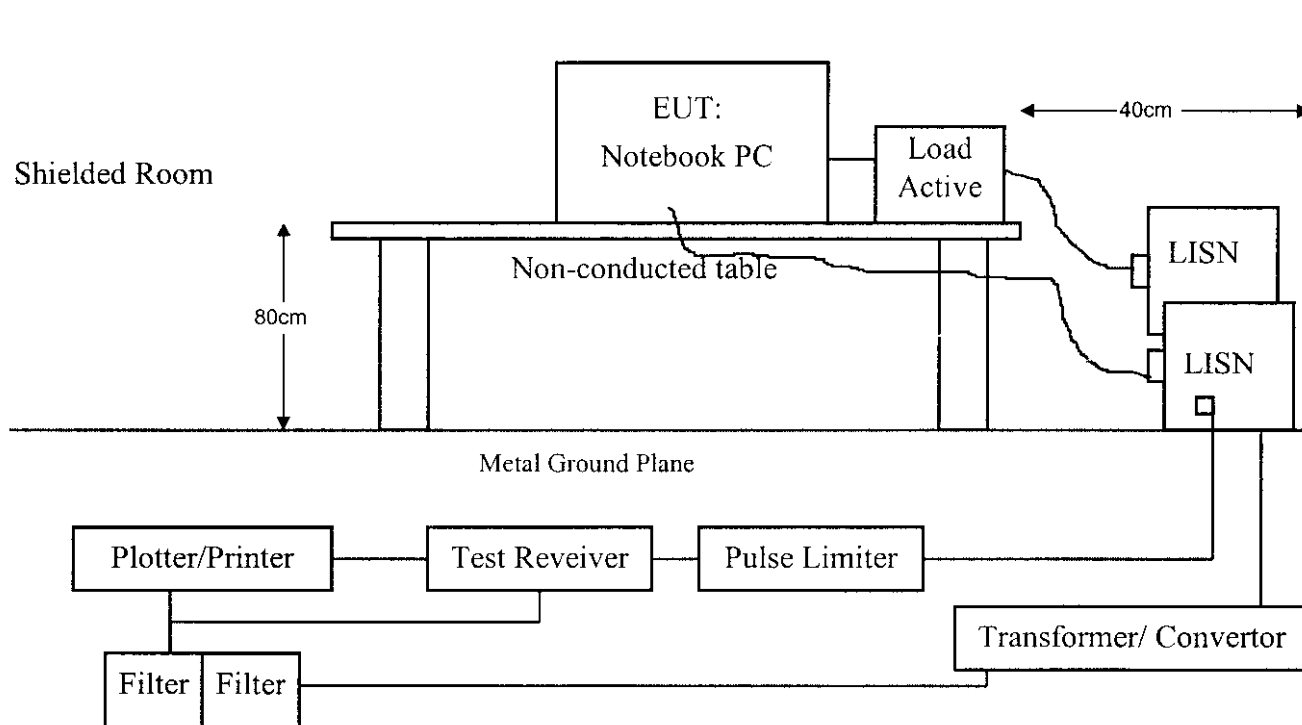
#### 3.1 Test Equipments

The following test equipments are used during the conducted power line tests:

| Instrument    | Manufacturer    | Type /Serial No.     | Last Calibration | Location       | C.E. |
|---------------|-----------------|----------------------|------------------|----------------|------|
| Test Receiver | Rohde & Schwarz | ESHS 30 / 8281091010 | Dec. 24, 1997    | Shield Room #1 | ✓    |
| L.I.S.N.      | Kyoritsu        | KNW-407              | Jul.1997         | Shield Room #1 |      |
| L.I.S.N.      | Solar           | 8012-50-R24 / 90038  | Jun. 05, 1997    | Shield Room #1 | ✓    |
| L.I.S.N.      | EMCO            | 3825/2 / 91111-1902  | Jul.1997         | Shield Room #1 |      |
| L.I.S.N.      | Rohde & Schwarz | ESH3-Z5 / 840567/002 | Jun. 05, 1997    | Shield Room #1 | ✓    |
| L.I.S.N.      | Schwarzbeck     | NNLK 8121            | Apr. 1997        | Shield Room #1 |      |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2              | Jan. 11, 1998    | Shield Room #1 | ✓    |
|               |                 |                      |                  |                |      |

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

#### 3.2 Block Diagram of Test Setup



### 3.3 CISPR Limits

| Frequency    | Maximum RF Line Voltage |      |         |      |
|--------------|-------------------------|------|---------|------|
|              | Class A                 |      | Class B |      |
| MHz          | uV                      | dBuV | uV      | dBuV |
| 0.45 - 1.705 | 1000                    | 60.0 | 250     | 48.0 |
| 1.705 - 30   | 3000                    | 69.5 | 250     | 48.0 |

Remarks : In the Above Table, the tighter limit applies at the band edges.

### 3.4 EUT Configuration on Measurement

The equipments which is listed 3.2 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

### 3.5 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:

- 3.5.1 Setup the EUT and simulators as shown on 3.2.
- 3.5.2 Turn on the power of all equipments.
- 3.5.3 Boot the PC form Hard Disk.
- 3.5.4 Play CD Disk Music in windows environment.
- 3.5.5 PC sent "H" Pattern to Monitor. ( Depending on test mode)
- 3.5.6 PC sent "H" Pattern to Parallel (printer) port.
- 3.5.7 PC sent "H" Pattern to Serial port.
- 3.5.8 Repeat 3.5.5 to 3.5.7

### 3.6 Conducted Emission Data

The measurement range of conducted emission which is from **0.45 MHz to 30 MHz** was investigated. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

**CONDUCTED EMISSION DATA**

|              |   |               |                 |   |           |
|--------------|---|---------------|-----------------|---|-----------|
| Date of Test | : | Dec. 23, 1997 | Temperature     | : | 16.7 °C   |
| EUT          | : | Notebook PC   | Humidity        | : | 59 %      |
| Test Mode    | : | Mode 1        | Display Pattern | : | H Pattern |

| FREQUENCY         |             | READING LEVEL |             |               | LIMITS     |
|-------------------|-------------|---------------|-------------|---------------|------------|
|                   |             | LINE 1        | LINE 2      |               |            |
| MHz               | dBuV        | uV            | dBuV        | uV            | uV         |
| 0.49662           | 20.0        | 10.00         | 24.6        | 16.98         | 250        |
| 1.34715           | 23.0        | 14.13         | 26.7        | 21.63         | 250        |
| 4.89410           | 34.0        | 50.12         | 33.1        | 45.19         | 250        |
| 15.14288          | 38.1        | 80.35         | 41.9        | 124.45        | 250        |
| <b>**27.60400</b> | <b>42.1</b> | <b>127.35</b> | <b>42.6</b> | <b>134.90</b> | <b>250</b> |
| 29.38000          | 40.9        | 110.92        | 40.6        | 107.15        | 250        |

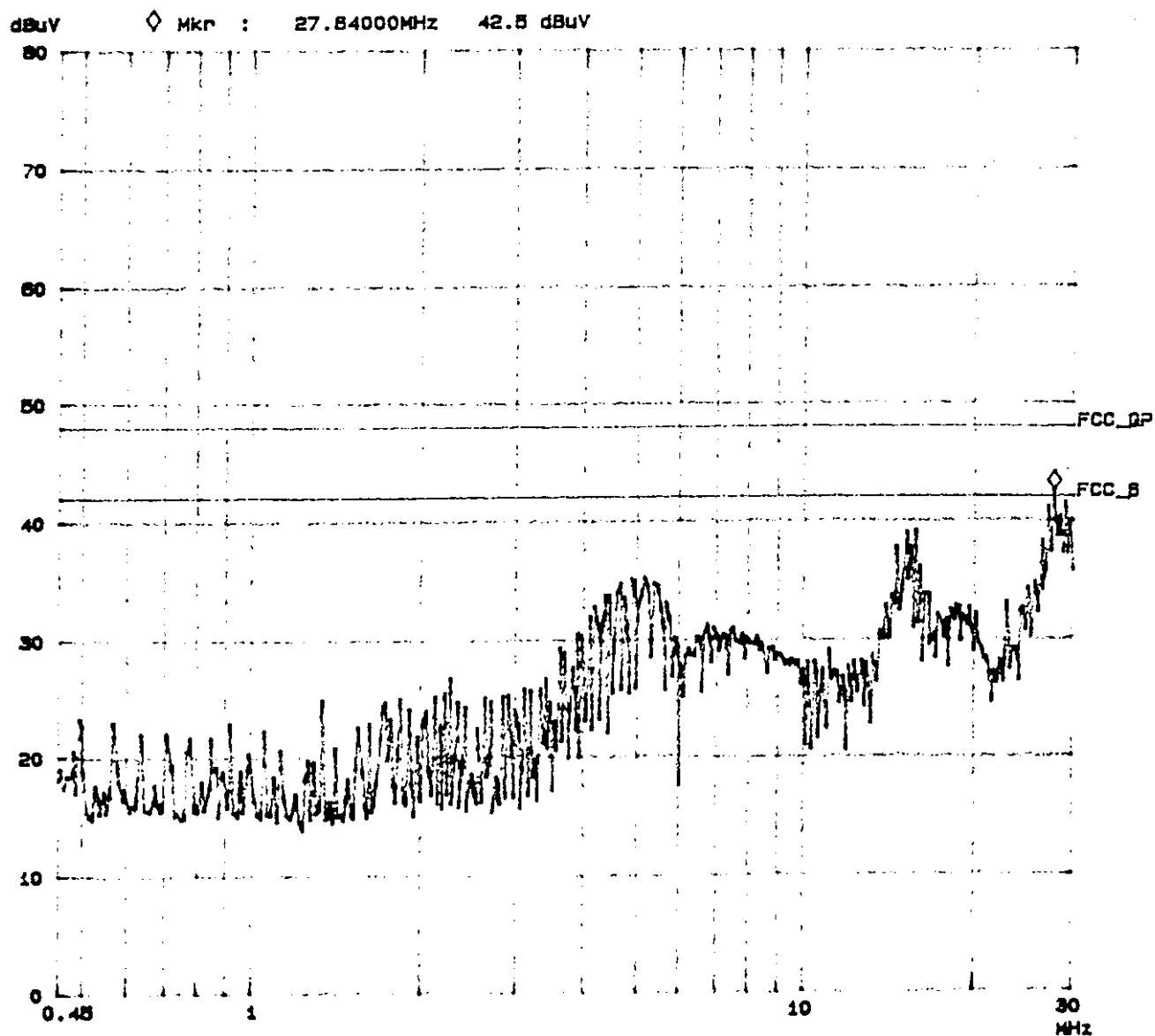
- Remarks :
1. All readings are Quasi-peak and average values.
  2. “ \* ” means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.
  3. “ \*\* ” means that this data is the worse case emission level.

**Attached 2 individual pages of peak scan curve data sheets.**

ROHDE & SCHWARZ ESHS 30

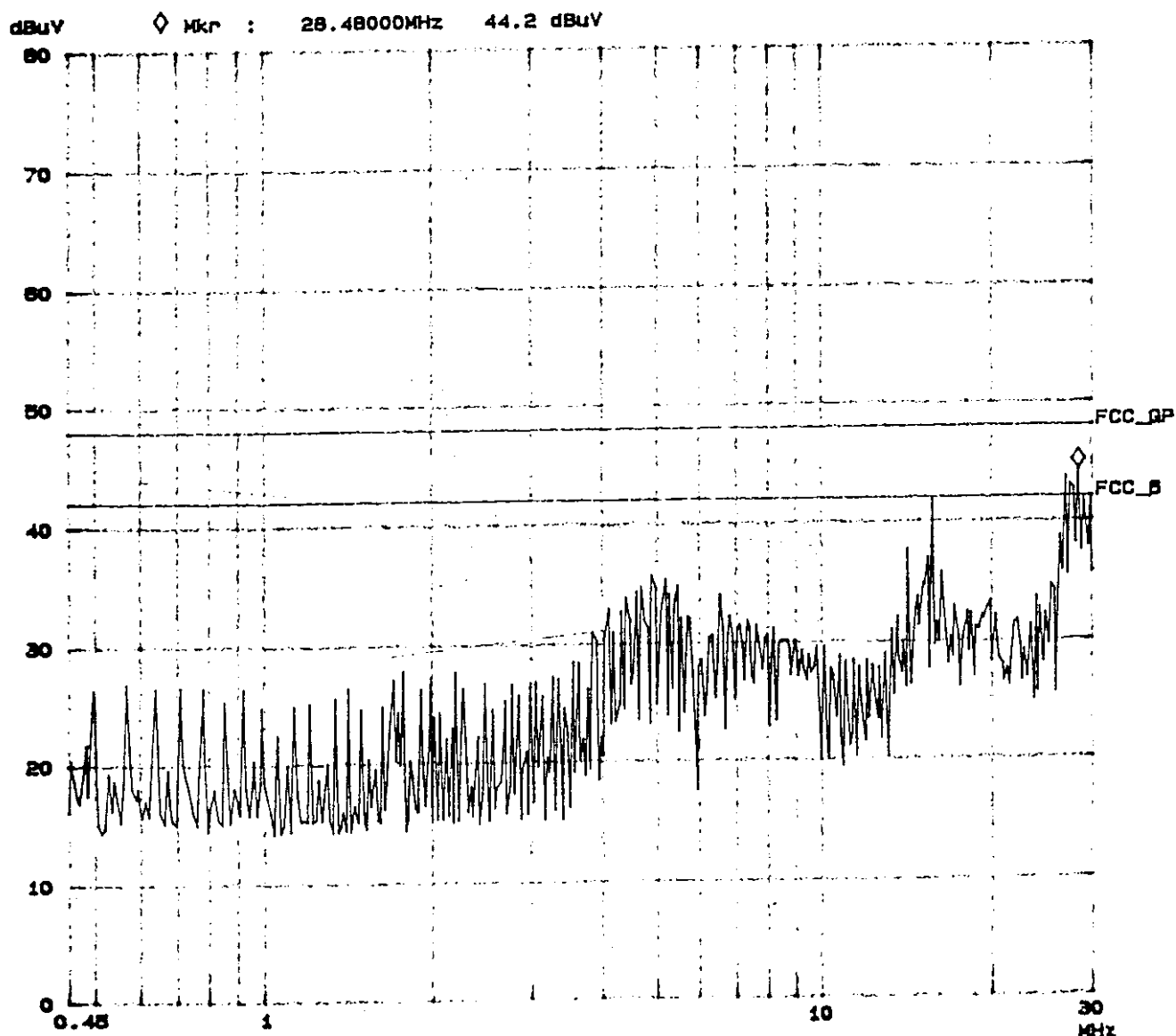
GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK PC  
Manuf: INNOLABS  
Op Cond: MODE: 1  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 1  
M/N: 9800



ROHDE & SCHWARZ ESHS 30  
GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK PC  
Manuf: INNOLABS  
Op Cond: MODE: 1  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 2  
M/N: 9800  
•



**CONDUCTED EMISSION DATA**

|              |   |               |                 |   |           |
|--------------|---|---------------|-----------------|---|-----------|
| Date of Test | : | Dec. 23, 1997 | Temperature     | : | 18.7 °C   |
| EUT          | : | Notebook PC   | Humidity        | : | 58 %      |
| Test Mode    | : | Mode 2        | Display Pattern | : | H Pattern |

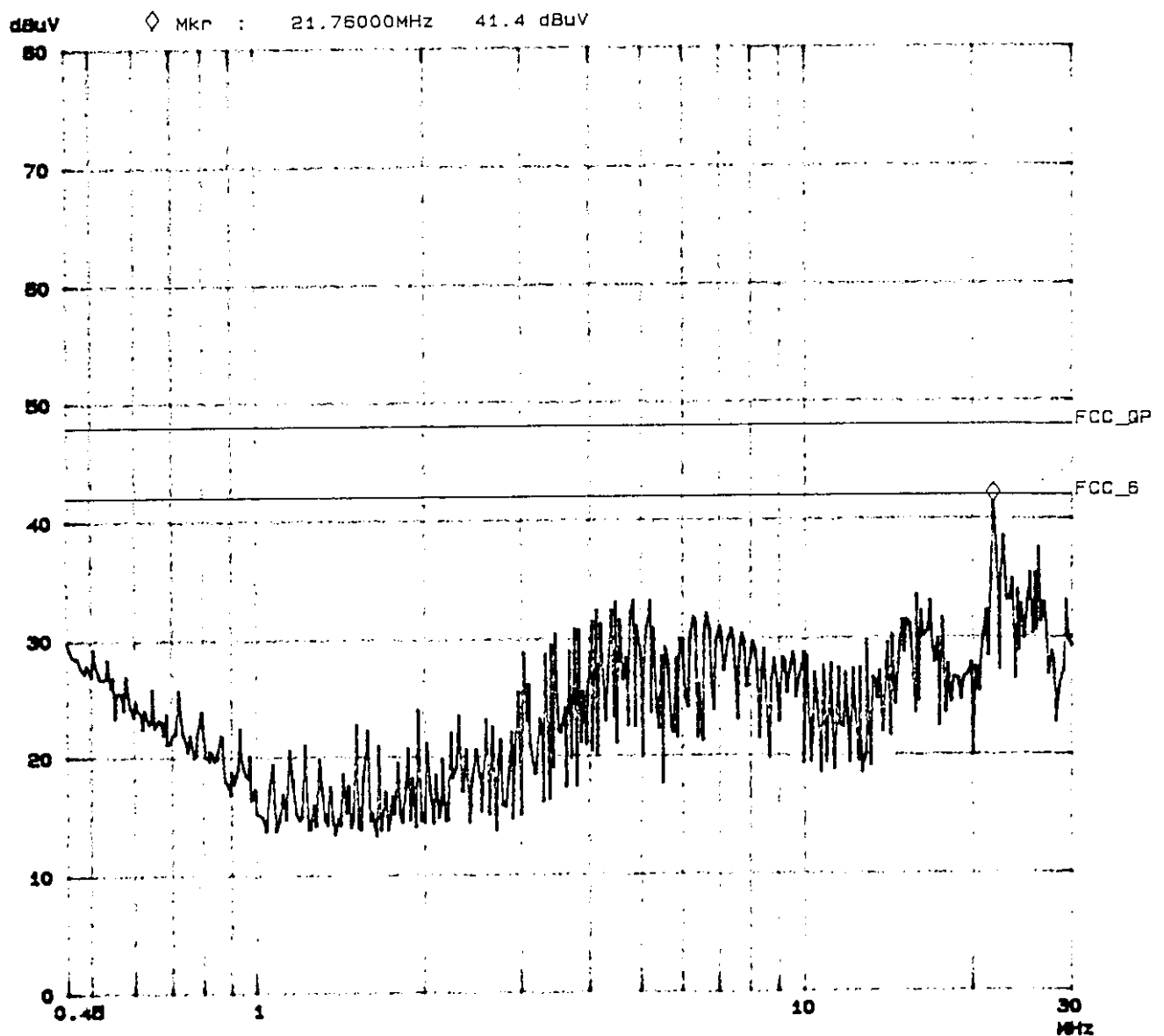
| FREQUENCY         |             | READING LEVEL |             |              | LIMITS     |
|-------------------|-------------|---------------|-------------|--------------|------------|
|                   |             | LINE 1        |             | LINE 2       |            |
| MHz               | dBuV        | uV            | dBuV        | uV           | uV         |
| 0.45027           | 21.0        | 11.22         | 20.7        | 10.84        | 250        |
| 4.10543           | 30.9        | 35.08         | 31.3        | 36.73        | 250        |
| 4.82576           | 32.1        | 40.27         | 32.5        | 42.17        | 250        |
| 15.88000          | 31.3        | 36.73         | 31.6        | 38.02        | 250        |
| <b>**21.75930</b> | <b>39.4</b> | <b>93.33</b>  | <b>38.6</b> | <b>85.11</b> | <b>250</b> |
| 22.64050          | 36.2        | 64.57         | 36.4        | 66.07        | 250        |

- Remarks :
1. All readings are Quasi-peak and average values.
  2. " \* " means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.
  3. " \*\* " means that this data is the worse case emission level.

**Attached 2 individual pages of peak scan curve data sheets.**

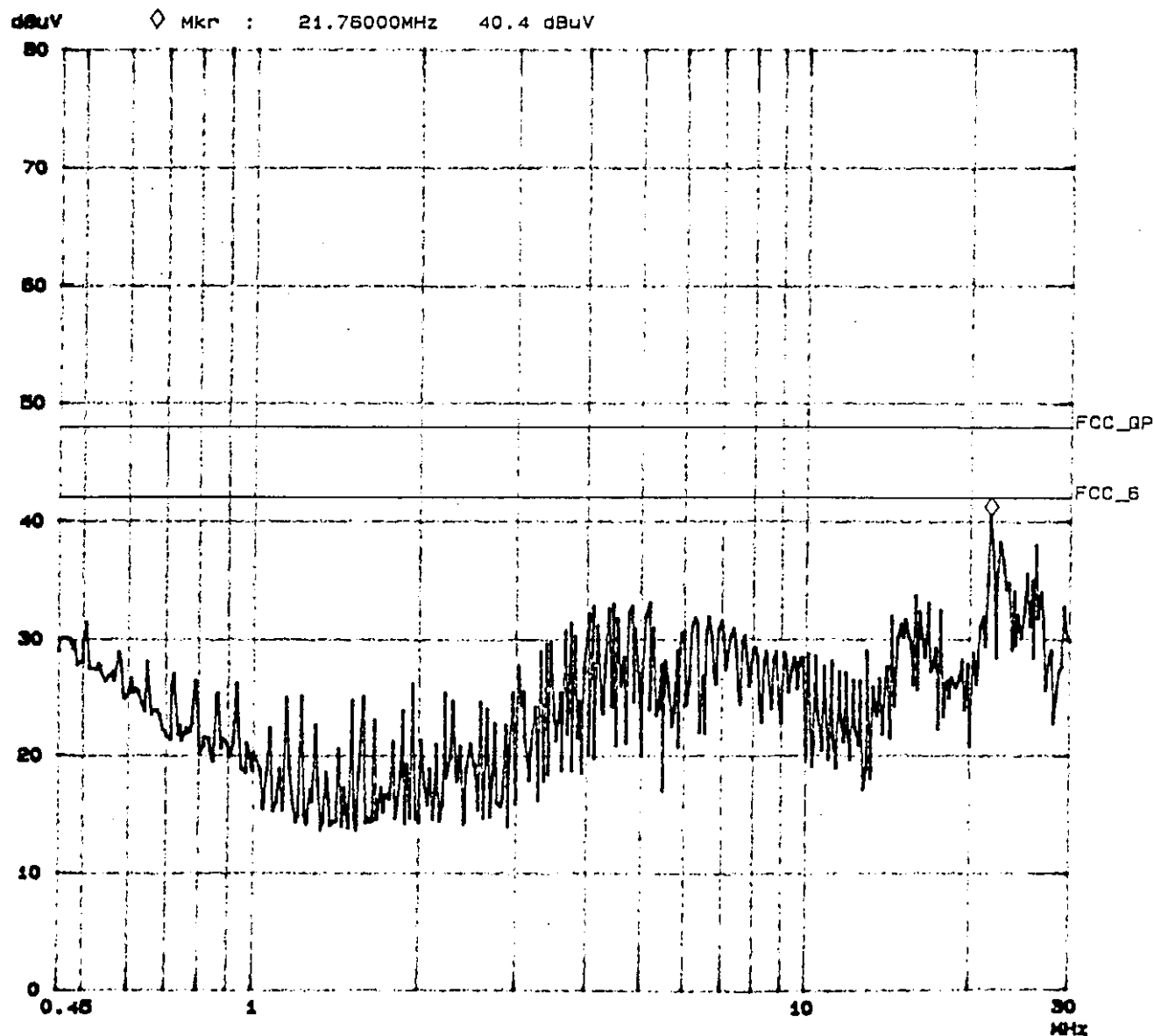
ROHDE & SCHWARZ ESHS 30  
GsTek, PowerLine Conducted Emission

EUT: NOTEBOOK PC  
Manuf: INNOLAB9  
Op Cond: MODE 2  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 1  
M/F: 9800



ROHDE & SCHWARZ ESHS 30  
GsTek, PowerLine Conducted Emission

EUT: NOTEBOOK PC  
Manuf: INNOCLASS  
Op Cond: MODE 2  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 2  
M/Hz 9800



## CONDUCTED EMISSION DATA

|              |               |                 |           |
|--------------|---------------|-----------------|-----------|
| Date of Test | Dec. 23, 1997 | Temperature     | 18.4 °C   |
| EUT          | Notebook PC   | Humidity        | 60 %      |
| Test Mode    | Mode 3        | Display Pattern | H Pattern |

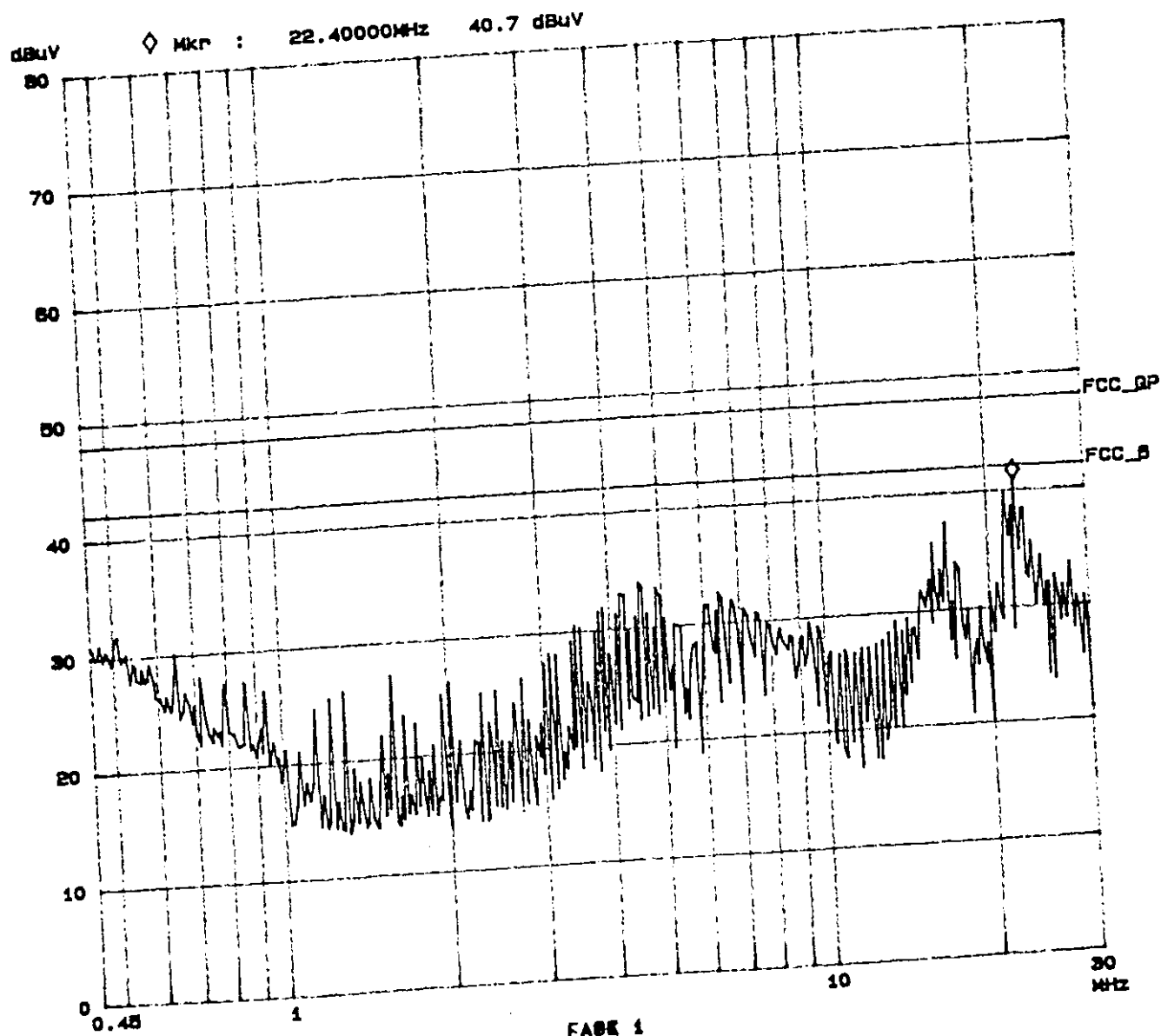
| FREQUENCY         | READING LEVEL |       |        |       | LIMITS |
|-------------------|---------------|-------|--------|-------|--------|
|                   | LINE 1        |       | LINE 2 |       |        |
| MHz               | dBuV          | uV    | dBuV   | uV    | uV     |
| 0.45837           | 21.9          | 12.45 | 22.3   | 13.03 | 250    |
| 4.17994           | 31.7          | 38.46 | 32.1   | 40.27 | 250    |
| 4.54139           | 32.4          | 41.69 | 32.6   | 42.66 | 250    |
| 6.41379           | 31.0          | 35.48 | 31.1   | 35.89 | 250    |
| 15.91829          | 34.0          | 50.12 | 34.2   | 51.29 | 250    |
| <b>**22.40139</b> | 39.1          | 90.16 | 39.6   | 95.50 | 250    |

- Remarks :
1. All readings are Quasi-peak and average values.
  2. " \* " means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.
  3. " \*\* " means that this data is the worse case emission level.

**Attached 2 individual pages of peak scan curve data sheets.**

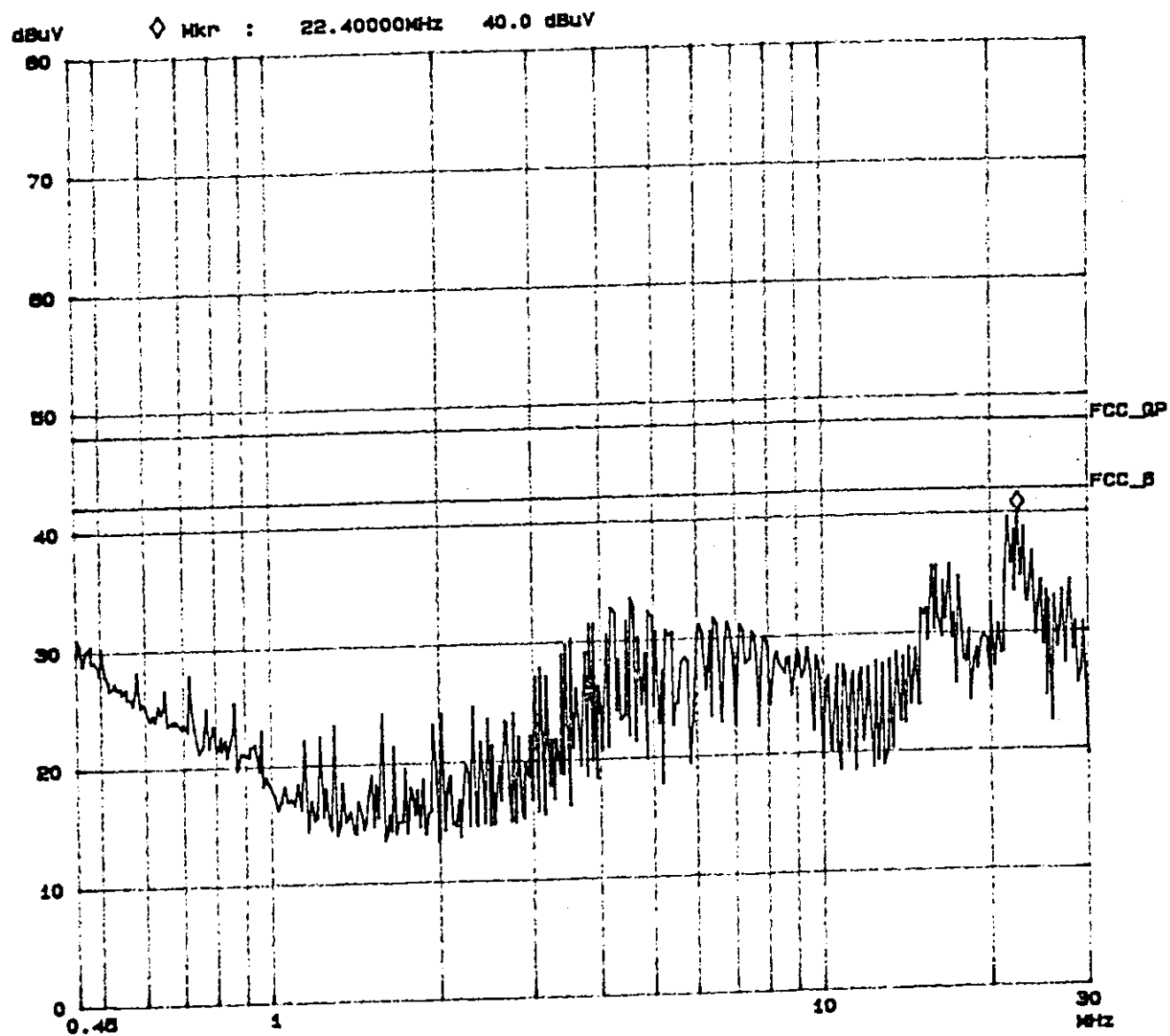
ROHDE & SCHWARZ ESHS 30  
GsTek, PowerLine Conducted Emission

EUT: NOTEBOOK PC  
Manuf: INNOLABS  
Op Cond: MODE: 3  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 2  
M/N: 9800



ROHDE & SCHWARZ ESHS 30  
GsTek, PowerLine Conducted Emission

EUT: NOTEBOOK PC  
Manuf: INNOLABS  
Op Cond: MODE: 3  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 1  
M/N: 9800



**CONDUCTED EMISSION DATA**

|              |   |               |                 |   |           |
|--------------|---|---------------|-----------------|---|-----------|
| Date of Test | : | Dec. 23, 1997 | Temperature     | : | 18.9 °C   |
| EUT          | : | Notebook PC   | Humidity        | : | 58 %      |
| Test Mode    | : | Mode 4        | Display Pattern | : | H Pattern |

| FREQUENCY         | READING LEVEL |              |             |              | LIMITS     |
|-------------------|---------------|--------------|-------------|--------------|------------|
|                   | LINE 1        |              | LINE 2      |              |            |
| MHz               | dBuV          | uV           | dBuV        | uV           | uV         |
| 0.45417           | 20.5          | 10.59        | 20.1        | 10.12        | 250        |
| 4.82517           | 32.0          | 39.81        | 32.6        | 42.66        | 250        |
| 6.62527           | 30.2          | 32.36        | 30.8        | 34.67        | 250        |
| 15.88039          | 31.2          | 36.31        | 31.6        | 38.02        | 250        |
| <b>**21.75952</b> | <b>38.3</b>   | <b>82.22</b> | <b>39.1</b> | <b>90.16</b> | <b>250</b> |
| 26.16010          | 35.4          | 58.88        | 35.6        | 60.26        | 250        |

Remarks : 1. All readings are Quasi-peak and average values.

2. “ \* ” means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.

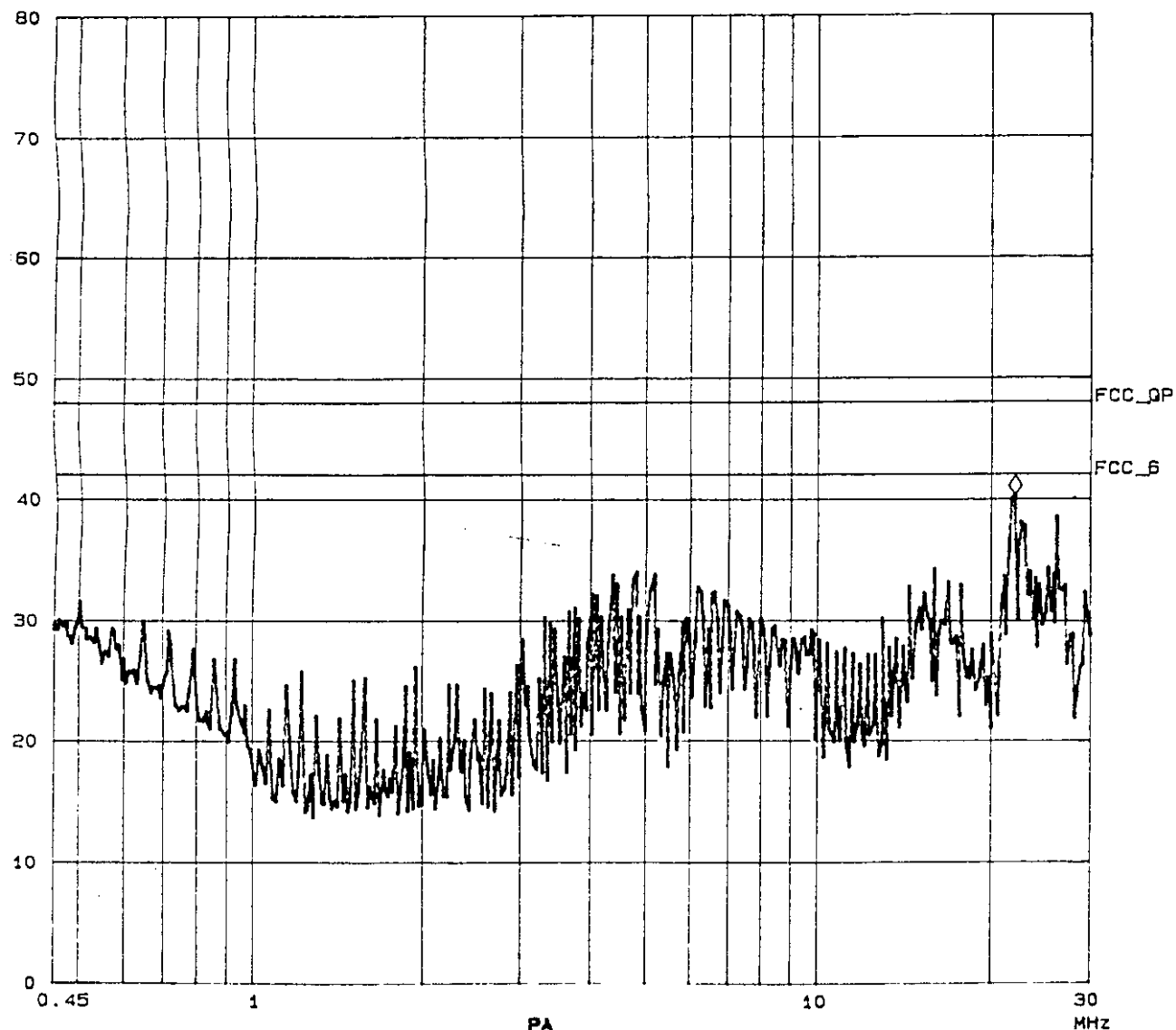
3.“ \*\* ” means that this data is the worse case emission level.

**Attached 2 individual pages of peak scan curve data sheets.**

ROHDE & SCHWARZ ESHS 30  
GesTek, PowerLine Conducted Emission

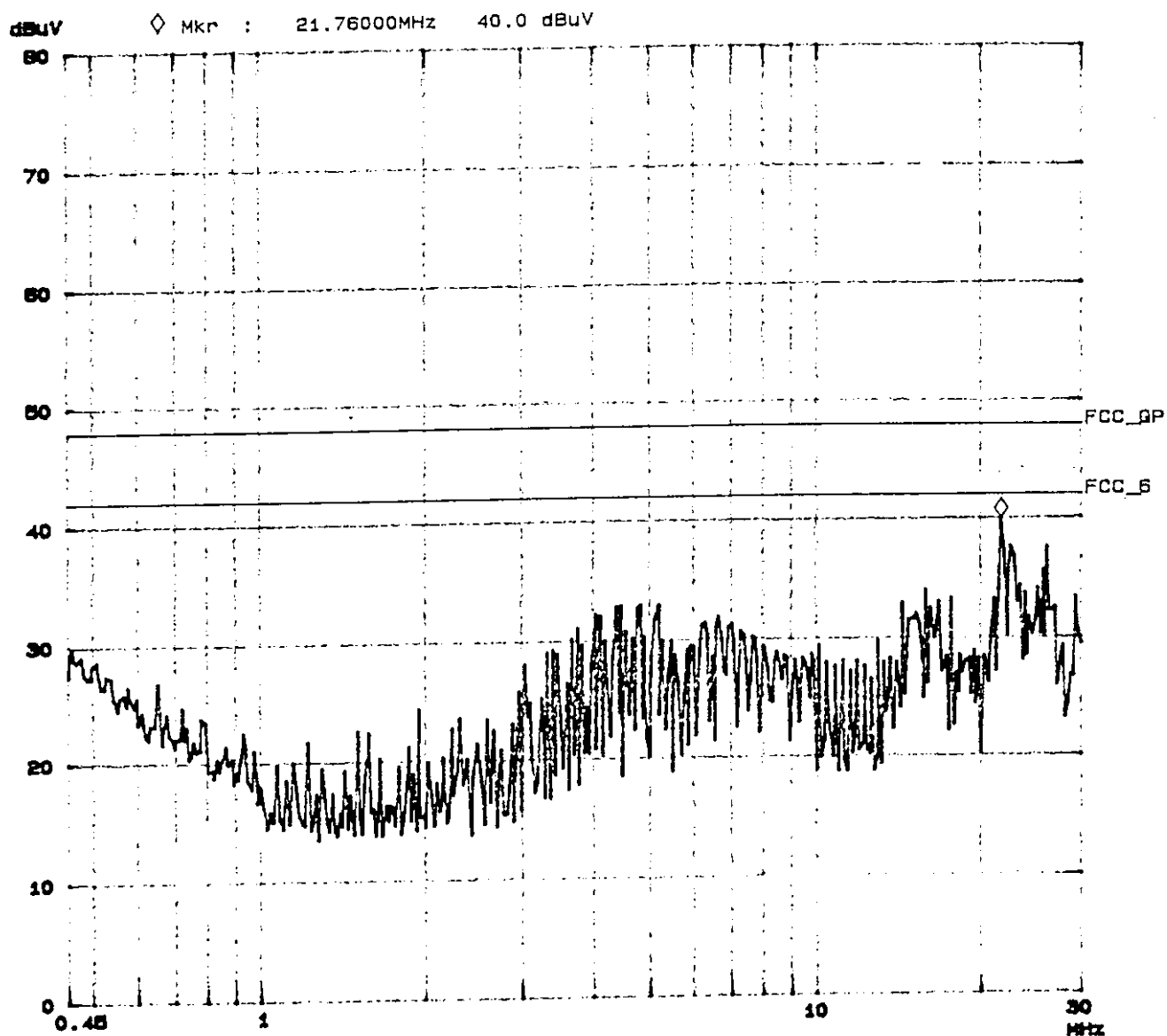
EUT: NOTEBOOK PC  
Manuf: INNOLABS  
Op Cond: MODE: 4  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 2  
M/N: 9800  
•

dBuV     ◇ Mkr :    22.04000MHz    40.3 dBuV



ROHDE & SCHWARZ ESHS 30  
GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK PC  
Manuf: INNOLABS  
Op Cond: MODE: 4  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 1  
M/N: 9800



**CONDUCTED EMISSION DATA**

|              |   |               |                 |   |           |
|--------------|---|---------------|-----------------|---|-----------|
| Date of Test | : | Dec. 23, 1997 | Temperature     | : | 18.8 °C   |
| EUT          | : | Notebook PC   | Humidity        | : | 58 %      |
| Test Mode    | : | Mode 5        | Display Pattern | : | H Pattern |

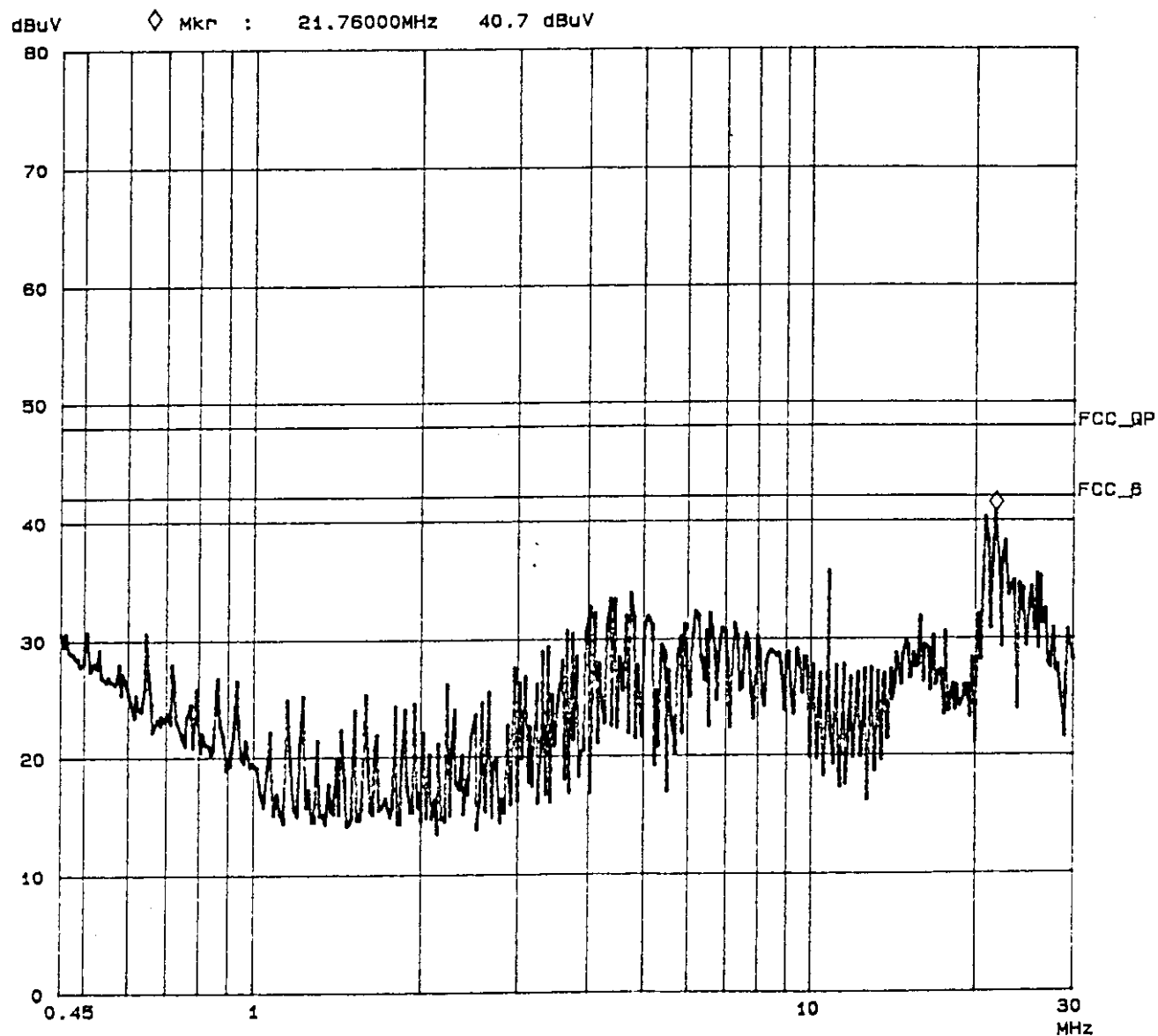
| FREQUENCY  |        | READING LEVEL |        |       | LIMITS |
|------------|--------|---------------|--------|-------|--------|
|            | LINE 1 |               | LINE 2 |       |        |
| MHz        | dBuV   | uV            | dBuV   | uV    | uV     |
| 0.50200    | 21.9   | 12.45         | 25.6   | 19.05 | 250    |
| 4.39011    | 31.9   | 39.36         | 32.5   | 42.17 | 250    |
| 4.75007    | 32.2   | 40.74         | 32.4   | 41.69 | 250    |
| 10.79826   | 33.0   | 44.67         | 34.1   | 50.70 | 250    |
| 20.87903   | 38.2   | 81.28         | 38.4   | 83.18 | 250    |
| **21.75742 | 38.9   | 88.10         | 39.0   | 89.13 | 250    |

- Remarks : 1. All readings are Quasi-peak and average values.
2. “ \* ” means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.
3. “ \*\* ” means that this data is the worse case emission level.

**Attached 2 individual pages of peak scan curve data sheets.**

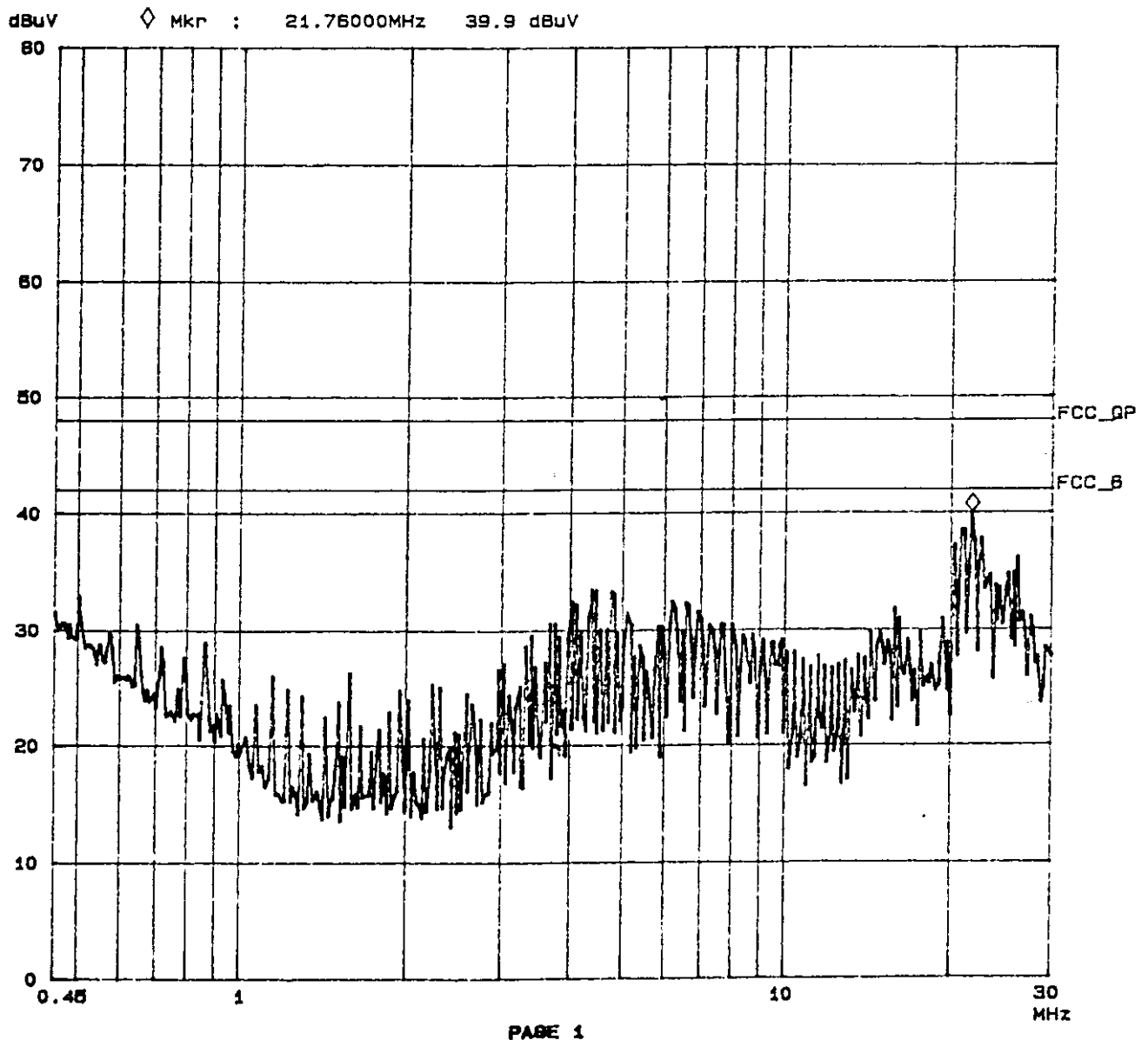
ROHDE & SCHWARZ ESHS 30  
GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK PC  
Manuf: INNOLABS  
Op Cond: MODE 5  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 2  
M/N: 9800



ROHDE & SCHWARZ ESHS 30  
GsTek, PowerLine Conducted Emission

EUT: NOTEBOOK PC  
Manuf: INNOLABS  
Op Cond: MODE: B  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 1  
M/N: 9800



**CONDUCTED EMISSION DATA**

|              |   |               |                 |   |           |
|--------------|---|---------------|-----------------|---|-----------|
| Date of Test | : | Mar. 25, 1998 | Temperature     | : | 24.5 °C   |
| EUT          | : | Notebook PC   | Humidity        | : | 66 %      |
| Test Mode    | : | Mode 6        | Display Pattern | : | H Pattern |

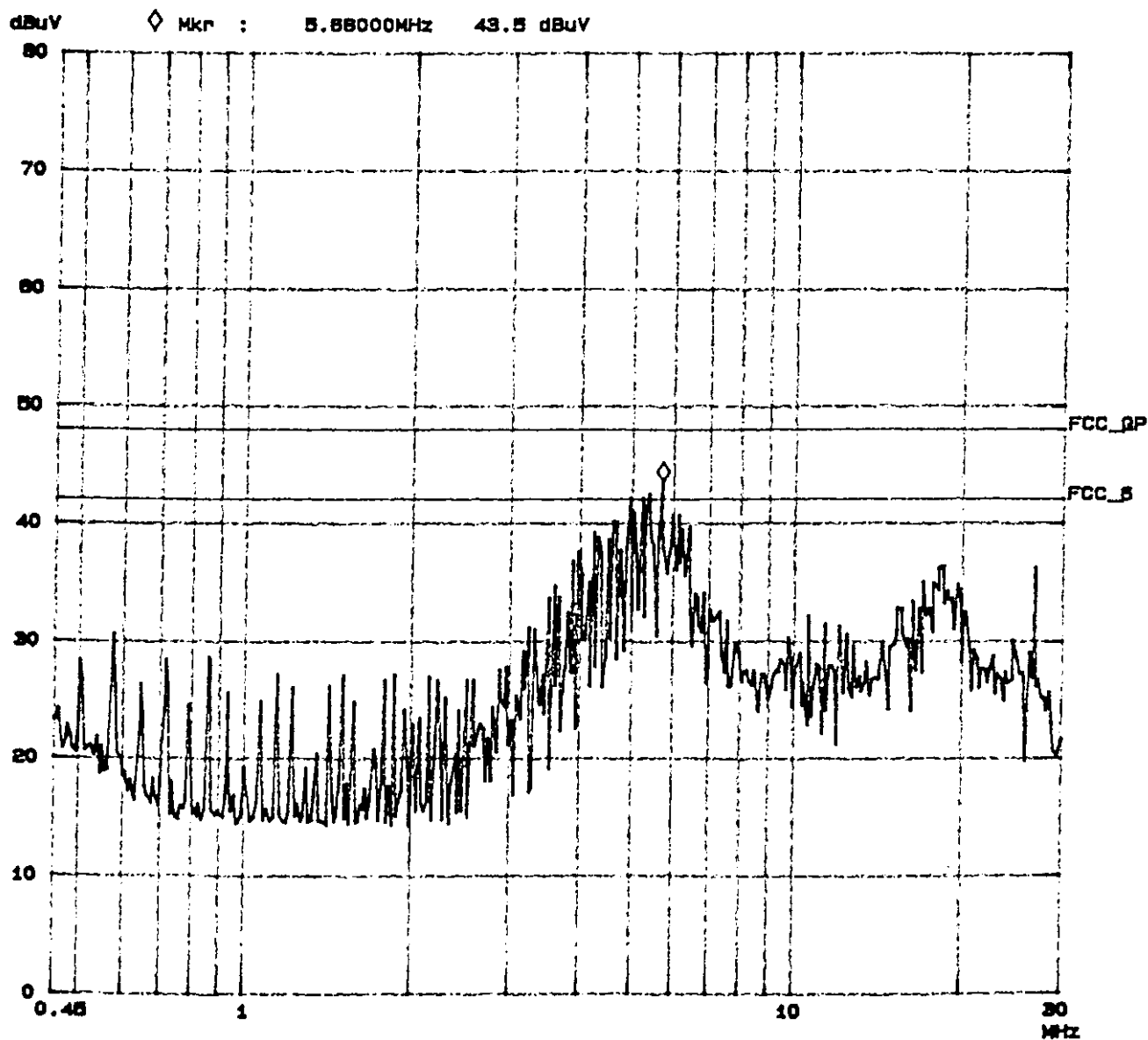
| FREQUENCY        |             | READING LEVEL |             |               | LIMITS     |
|------------------|-------------|---------------|-------------|---------------|------------|
|                  |             | LINE 1        |             | LINE 2        |            |
| MHz              | dBuV        | uV            | DBuV        | uV            | uV         |
| 0.57078          | 24.6        | 16.98         | 28.3        | 26.00         | 250        |
| 1.78425          | 24.7        | 17.18         | 26.5        | 21.13         | 250        |
| 4.06709          | 36.3        | 65.31         | 37.7        | 76.74         | 250        |
| 5.20879          | 40.8        | 109.65        | 32.3        | 41.21         | 250        |
| <b>**5.21303</b> | <b>42.0</b> | <b>125.89</b> | <b>42.1</b> | <b>127.35</b> | <b>250</b> |
| 18.60844         | 31.8        | 38.90         | 32.6        | 42.66         | 250        |

- Remarks :
1. All readings are Quasi-peak and average values.
  2. “ \* ” means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.
  3. “ \*\* ” means that this data is the worse case emission level.

**Attached 2 individual pages of peak scan curve data sheets.**

ROHDE & SCHWARZ ESHS 30  
GesTek, PowerLine Conducted Emission

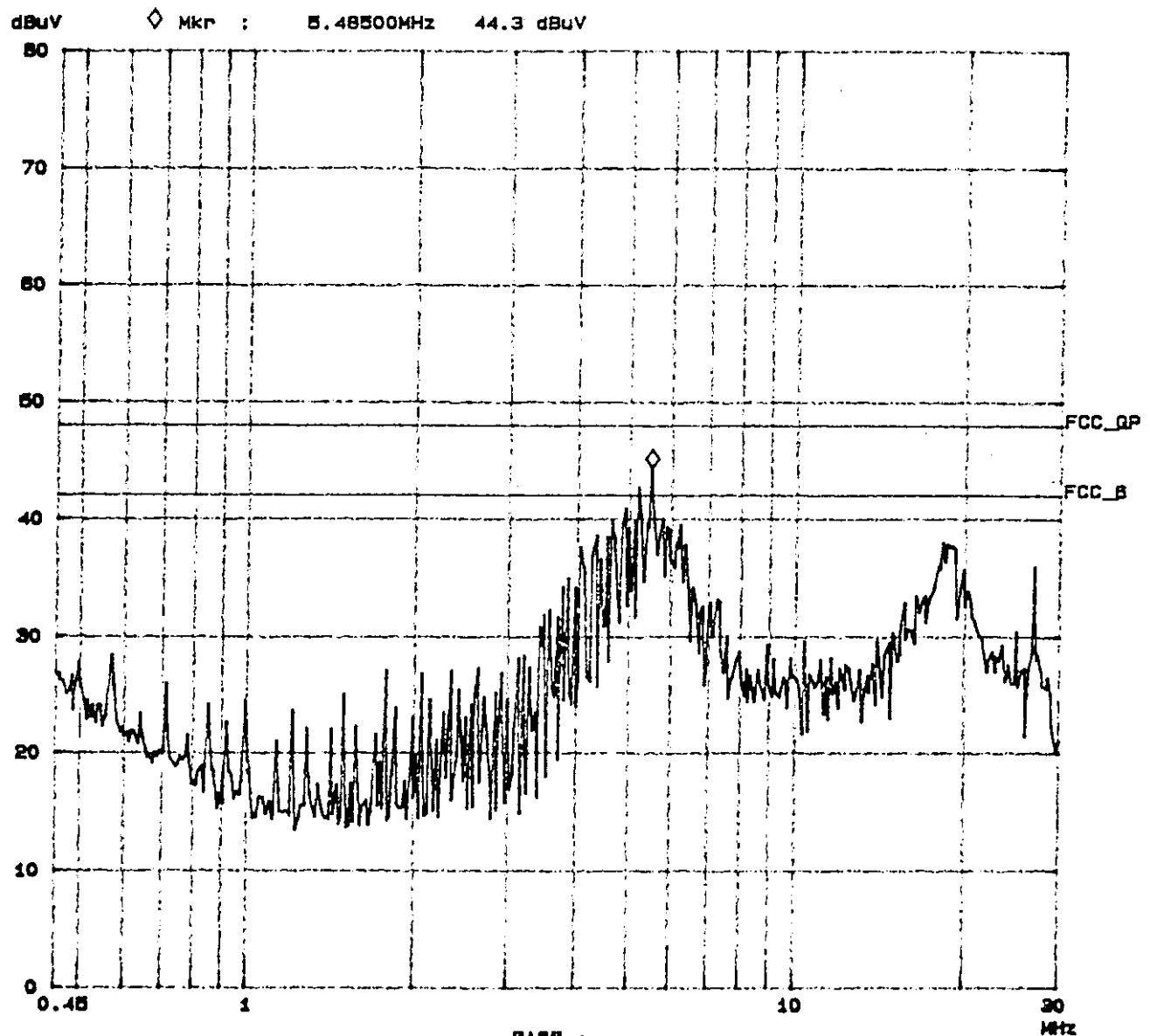
EUT: NOTEBOOK PC  
Manuf: INNOCLASS  
Op Cond: MODE B  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 2  
M/t: 9800



ROHDE & SCHWARZ ESHS 30

GesTek, PowerLine Conducted Emission

EUT: NOTEBOOK PC  
Manuf: INNOLAB  
Op Cond: MODE B  
Operator: JACKIE  
Test Spec: FCC CLASS B  
Comment: Line 1  
M/N: 9800



## 4. Radiation Emission Test

### 4.1 Test Equipment

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

Radiated test was performed on : ☒ Site #1 ☐ Site #2

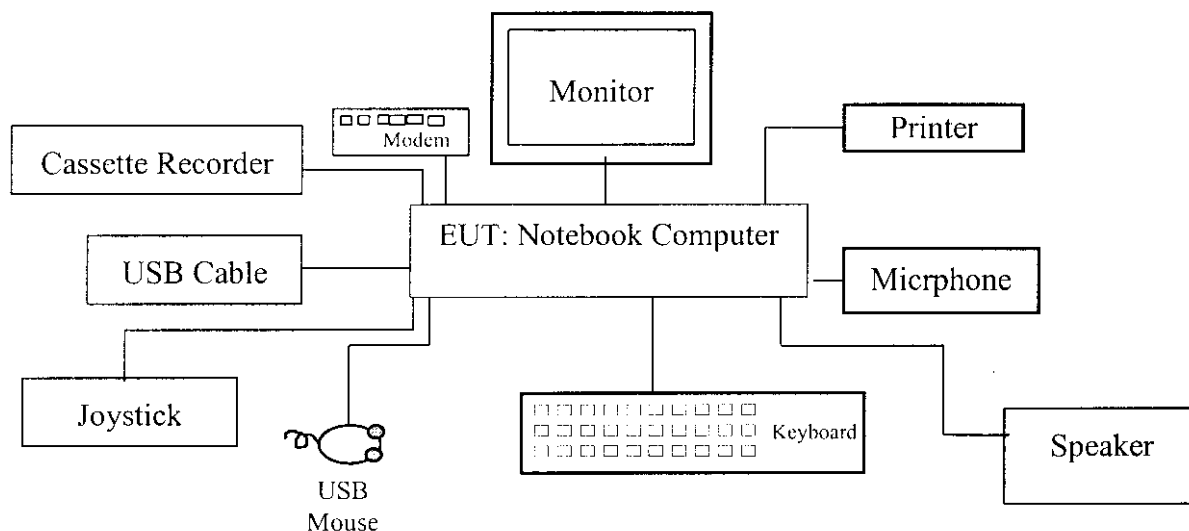
| Instrument         | Manufacturer    | Type /Serial No.    | Last Calibration | Site #1 | Site #2 |
|--------------------|-----------------|---------------------|------------------|---------|---------|
| Test Receiver      | Rohde & Schwarz | ESVS 30/829007/014  | Nov. 15,1997     | ✓       |         |
| Spectrum Analyzer  | Anristu         | MA2601B/MT16442     | Jun. 11,1997     | ✓       |         |
| Pre-Amplifier      | HP              | 7447F/3113A04998    | Nov. 16,1997     | ✓       |         |
| Test Receiver      | Rohde & Schwarz | ESVS 10/8421122/001 | Dec. 26,1997     |         | ✓       |
| Spectrum Analyzer  | HP              | 8568B/4315B05847    | Jan. 05,1998     |         | ✓       |
| Pre Amplifier      | HP              | 8447D/3113A04487    | Jan. 05,1998     |         | ✓       |
| Antenna 30Mhz-2Ghz | Chase           | CBL 6112/2039       | Jan. 05,1998     | ✓       |         |
| Bilog Antenna      | Chase           | CBL6111/1380        | May. 22,1997     |         | ✓       |
| Dipole Antenna     | Schwarzbeck     | VHAP/719,UHAP/736   | Jun.11,1997      |         |         |
|                    |                 |                     |                  |         |         |

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

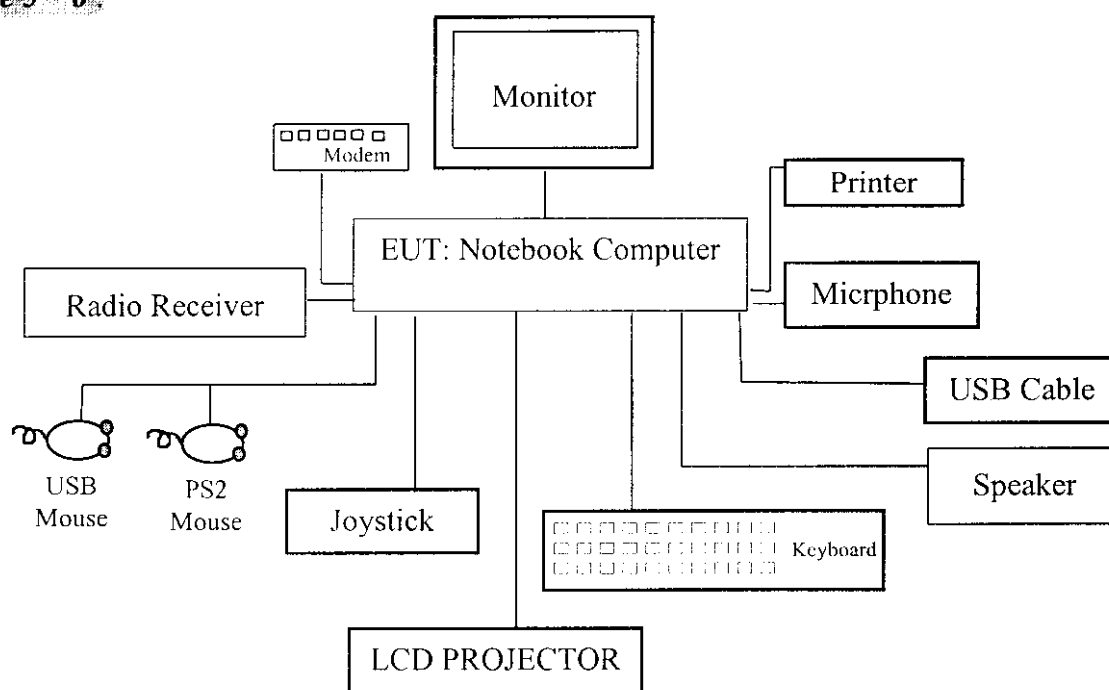
## 4.2 Test Setup

### 4.2.1 Block Diagram of Connections between EUT and simulators

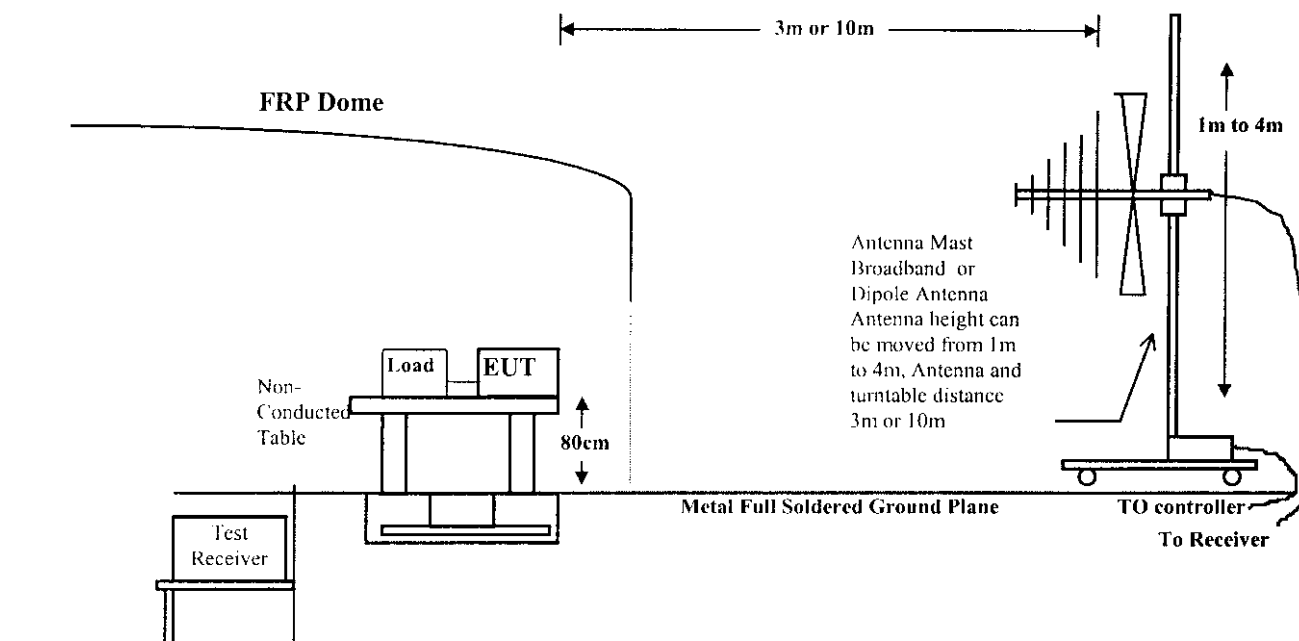
#### *Mode 1、2、3、4:*



#### *Mode 5、6:*



## 4.2.2 Open Test Site Setup Diagram



## 4.3 Radiated Emission Limit

### 4.3.1 FCC Class B Limits at 3m

| Frequency  | Distance | Field Strength |        |
|------------|----------|----------------|--------|
|            |          | uV/M           | dBuV/M |
| 30 - 88    | 3        | 100            | 40.0   |
| 88 - 216   | 3        | 150            | 43.5   |
| 216 - 960  | 3        | 200            | 46.0   |
| 960 - 2000 | 3        | 500            | 54.0   |

#### 4.3.2 CISPR Class B Limits at 10m

| Frequency  | Distance | Field Strength |
|------------|----------|----------------|
| MHz        | Meter    | dB(uV/M)       |
| 30 - 230   | 10       | 30             |
| 230 - 1000 | 10       | 37             |

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.

#### 4.4 EUT Configuration

The equipments which is listed 4.2.1 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

#### 4.5 Operating Condition of EUT

Same as Conducted Power Line Test which is listed in 3.5.

#### 4.6 Radiated Emission Data

The measurement range of radiated emission which is from 30 MHz to 2 GHz was investigated. All readings are quasi-peak values with a resolution Bandwidth of 120 KHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

The total uncertainty for this test is as follows:

- Uncertainty in the field strength measured (3m antenna distance):  $< \pm 4$  dB
- Uncertainty in the field strength measured (10m antenna distance):  $< \pm 4$  dB

The uncertainty is calculated in accordance with NAMAS document NIS 81, and is given as 2 standard deviations.

## Radiated Emission Data

Date of Test :12-11,1997 Thu      Temperature :16.7 deg/C  
 EUT :NOTEBOOK PC      Humidity :59 %RH  
 Working Cond.:Mode 1      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Horizontal<br>(dBuV/m) | Emission Level<br>Horizontal<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|-----------------------------------------|------------------------------------------|--------|------------------|
| 73.857             | 1.89                  | 6.98                      | 18.82                                   | 27.69                                    | 24.23  | 100              |
| 150.003            | 2.72                  | 11.55                     | 11.63                                   | 25.91                                    | 19.74  | 150              |
| 169.246            | 2.80                  | 10.75                     | 17.60                                   | 31.15                                    | 36.10  | 150              |
| 183.319            | 2.87                  | 9.92                      | 12.52                                   | 25.31                                    | 18.43  | 150              |
| 196.944            | 2.93                  | 9.99                      | 15.65                                   | 28.57                                    | 26.83  | 150              |
| 200.460            | 2.94                  | 10.00                     | 11.68                                   | 24.62                                    | 17.03  | 150              |
| 236.944            | 3.11                  | 12.25                     | 21.02                                   | 36.38                                    | 65.90  | 200              |
| * 249.999          | 3.16                  | 12.96                     | 22.78                                   | 38.90                                    | 88.10  | 200              |
| 304.640            | 3.41                  | 14.40                     | 13.78                                   | 31.60                                    | 38.00  | 200              |
| 323.491            | 3.48                  | 14.91                     | 19.79                                   | 38.18                                    | 81.12  | 200              |
| 372.337            | 3.63                  | 16.08                     | 14.25                                   | 33.96                                    | 49.89  | 200              |
| 399.995            | 3.73                  | 16.70                     | 17.22                                   | 37.65                                    | 76.30  | 200              |
| 467.733            | 3.95                  | 17.86                     | 17.05                                   | 38.86                                    | 87.71  | 200              |
| 566.199            | 4.27                  | 18.96                     | 9.68                                    | 32.91                                    | 44.22  | 200              |
| 705.625            | 4.73                  | 19.88                     | 9.72                                    | 34.34                                    | 52.10  | 200              |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :12-11,1997 Thu      Temperature :16.7 deg/C  
 EUT :NOTEBOOK PC      Humidity :59 %RH  
 Working Cond.:Mode 1      Display Pattern:H Pattern

| Frequency | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|-----------|-------|---------|---------------|----------------|--------|--------|
|           | Loss  | Factor  | Vertical      | Vertical       |        |        |
| (MHz)     | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 150.001   | 2.72  | 11.55   | 13.53         | 27.81          | 24.56  | 150    |
| 197.579   | 2.93  | 9.99    | 17.39         | 30.31          | 32.78  | 150    |
| 200.462   | 2.94  | 10.00   | 10.59         | 23.53          | 15.02  | 150    |
| * 249.999 | 3.16  | 12.96   | 27.47         | 43.59          | 151.18 | 200    |
| 254.027   | 3.18  | 13.05   | 17.15         | 33.38          | 46.69  | 200    |
| 300.008   | 3.40  | 14.30   | 14.00         | 31.70          | 38.46  | 200    |
| 349.996   | 3.56  | 15.60   | 18.50         | 37.66          | 76.40  | 200    |
| 399.995   | 3.73  | 16.70   | 22.38         | 42.81          | 138.20 | 200    |
| 400.925   | 3.73  | 16.70   | 21.85         | 42.28          | 130.02 | 200    |
| 467.730   | 3.95  | 17.86   | 15.02         | 36.83          | 69.43  | 200    |
| 646.980   | 4.54  | 19.77   | 16.91         | 41.22          | 115.11 | 200    |
| 711.700   | 4.75  | 19.97   | 10.05         | 34.77          | 54.75  | 200    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :12-18,1997 Thu      Temperature :18.7 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:Mode 2      Display Pattern:H Pattern

| Frequency | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|-----------|-------|---------|---------------|----------------|--------|--------|
|           | Loss  | Factor  | Horizontal    | Horizontal     |        |        |
| (MHz)     | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 47.121    | 1.26  | 11.10   | 15.21         | 27.57          | 23.91  | 100    |
| 67.710    | 1.76  | 6.74    | 23.43         | 31.93          | 39.48  | 100    |
| 123.088   | 2.60  | 12.16   | 14.02         | 28.78          | 27.47  | 150    |
| 133.640   | 2.64  | 11.96   | 23.61         | 38.22          | 81.43  | 150    |
| 150.005   | 2.72  | 11.55   | 21.89         | 36.17          | 64.31  | 150    |
| 169.248   | 2.80  | 10.75   | 17.38         | 30.93          | 35.20  | 150    |
| 200.463   | 2.94  | 10.00   | 22.15         | 35.09          | 56.84  | 150    |
| 221.055   | 3.04  | 11.30   | 16.34         | 30.68          | 34.20  | 200    |
| 237.238   | 3.11  | 12.25   | 18.44         | 33.80          | 48.96  | 200    |
| 250.001   | 3.16  | 12.96   | 23.96         | 40.08          | 100.92 | 200    |
| 300.000   | 3.40  | 14.30   | 21.15         | 38.85          | 87.60  | 200    |
| * 334.090 | 3.51  | 15.17   | 23.33         | 42.01          | 126.05 | 200    |
| 400.050   | 3.73  | 16.70   | 14.68         | 35.11          | 56.95  | 200    |

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :12-18,1997 Thu      Temperature :18.7 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:Mode 2      Display Pattern:H Pattern

| Frequency | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|-----------|-------|---------|---------------|----------------|--------|--------|
|           | Loss  | Factor  | Vertical      | Vertical       |        |        |
| (MHz)     | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 52.350    | 1.40  | 7.82    | 13.29         | 22.51          | 13.35  | 100    |
| 68.030    | 1.76  | 6.74    | 16.63         | 25.13          | 18.05  | 100    |
| 80.002    | 2.03  | 7.40    | 13.18         | 22.61          | 13.50  | 100    |
| 133.638   | 2.64  | 11.96   | 20.59         | 35.20          | 57.51  | 150    |
| 150.000   | 2.72  | 11.55   | 23.10         | 37.38          | 73.92  | 150    |
| 167.050   | 2.79  | 10.89   | 17.37         | 31.05          | 35.68  | 150    |
| 204.888   | 2.97  | 10.35   | 16.73         | 30.05          | 31.82  | 150    |
| 254.030   | 3.18  | 13.05   | 18.92         | 35.15          | 57.24  | 200    |
| 300.000   | 3.40  | 14.30   | 16.91         | 34.61          | 53.77  | 200    |
| 323.515   | 3.48  | 14.91   | 16.29         | 34.68          | 54.21  | 200    |
| * 334.092 | 3.51  | 15.17   | 21.33         | 40.01          | 100.12 | 200    |
| 452.880   | 3.90  | 17.45   | 12.06         | 33.41          | 46.83  | 200    |
| 517.595   | 4.11  | 18.73   | 10.00         | 32.84          | 43.87  | 200    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-08,1998 Thu      Temperature :18.4 deg/C  
 EUT :NOTEBOOK PC      Humidity :60 %RH  
 Working Cond.:Mode 3      Display Pattern:H Pattern

| Frequency | Cable | Antenna | Reading Level | Emission Level  | Limits    |
|-----------|-------|---------|---------------|-----------------|-----------|
| (MHz)     | Loss  | Factor  | Horizontal    | Horizontal      |           |
|           | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m) (uV/m) | (uV/m)    |
| 36.139    | 1.04  | 16.10   | 11.68         | 28.82           | 27.59 100 |
| * 197.576 | 2.93  | 9.99    | 24.52         | 37.44           | 74.50 150 |
| 199.997   | 2.94  | 10.00   | 23.30         | 36.24           | 64.89 150 |
| 200.456   | 2.94  | 10.00   | 21.30         | 34.24           | 51.54 150 |
| 249.996   | 3.16  | 12.96   | 19.09         | 35.21           | 57.61 200 |
| 254.026   | 3.18  | 13.05   | 21.71         | 37.94           | 78.92 200 |
| 280.360   | 3.31  | 13.77   | 22.18         | 39.26           | 91.78 200 |
| 291.146   | 3.35  | 14.02   | 21.09         | 38.47           | 83.81 200 |
| 334.091   | 3.51  | 15.17   | 16.40         | 35.08           | 56.76 200 |
| 372.333   | 3.63  | 16.08   | 12.13         | 31.84           | 39.08 200 |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-08,1998 Thu      Temperature :18.4 deg/C  
 EUT :NOTEBOOK PC      Humidity :60 %RH  
 Working Cond.:Mode 3      Display Pattern:H Pattern

| Frequency | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|-----------|-------|---------|---------------|----------------|--------|--------|
|           | Loss  | Factor  | Vertical      | Vertical       |        |        |
| (MHz)     | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 133.639   | 2.64  | 11.96   | 12.74         | 27.35          | 23.30  | 150    |
| 167.049   | 2.79  | 10.89   | 13.53         | 27.21          | 22.93  | 150    |
| 197.577   | 2.93  | 9.99    | 21.20         | 34.12          | 50.83  | 150    |
| 200.000   | 2.94  | 10.00   | 21.78         | 34.72          | 54.47  | 150    |
| 249.996   | 3.16  | 12.96   | 17.21         | 33.33          | 46.40  | 200    |
| 254.026   | 3.18  | 13.05   | 13.26         | 29.49          | 29.83  | 200    |
| * 291.139 | 3.35  | 14.02   | 21.64         | 39.02          | 89.28  | 200    |
| 467.725   | 3.95  | 17.86   | 16.20         | 38.01          | 79.54  | 200    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :12-18,1997 Thu      Temperature :18.9 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:Mode 4      Display Pattern:H Pattern

| Frequency | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|-----------|-------|---------|---------------|----------------|--------|--------|
|           | Loss  | Factor  | Horizontal    | Horizontal     |        |        |
| (MHz)     | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 47.125    | 1.26  | 11.10   | 15.39         | 27.75          | 24.41  | 100    |
| 66.830    | 1.71  | 6.78    | 20.88         | 29.37          | 29.42  | 100    |
| 67.710    | 1.76  | 6.74    | 23.85         | 32.35          | 41.44  | 100    |
| * 133.650 | 2.64  | 11.96   | 23.07         | 37.68          | 76.52  | 150    |
| 150.000   | 2.72  | 11.55   | 21.62         | 35.90          | 62.34  | 150    |
| 161.748   | 2.77  | 11.30   | 17.22         | 31.29          | 36.67  | 150    |
| 169.250   | 2.80  | 10.75   | 14.18         | 27.73          | 24.35  | 150    |
| 200.500   | 2.94  | 10.00   | 21.44         | 34.38          | 52.38  | 150    |
| 204.880   | 2.97  | 10.35   | 20.47         | 33.79          | 48.95  | 150    |
| 221.055   | 3.04  | 11.30   | 18.81         | 33.15          | 45.45  | 200    |
| 237.223   | 3.11  | 12.25   | 20.52         | 35.88          | 62.21  | 200    |
| 248.013   | 3.16  | 12.84   | 21.45         | 37.44          | 74.50  | 200    |
| 300.001   | 3.40  | 14.30   | 20.90         | 38.60          | 85.11  | 200    |
| 350.000   | 3.56  | 15.60   | 20.72         | 39.88          | 98.65  | 200    |
| 400.000   | 3.73  | 16.70   | 8.40          | 28.83          | 27.64  | 200    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :12-18,1997 Thu      Temperature :18.9 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:Mode 4      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Vertical<br>(dBuV/m) | Emission Level<br>Vertical<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|---------------------------------------|----------------------------------------|--------|------------------|
| * 48.010           | 1.31                  | 9.92                      | 19.33                                 | 30.55                                  | 33.70  | 100              |
| 66.850             | 1.71                  | 6.78                      | 15.10                                 | 23.59                                  | 15.12  | 100              |
| 75.484             | 1.94                  | 7.11                      | 20.95                                 | 30.00                                  | 31.62  | 100              |
| 118.614            | 2.58                  | 12.10                     | 11.99                                 | 26.67                                  | 21.55  | 150              |
| 129.404            | 2.62                  | 12.04                     | 11.85                                 | 26.52                                  | 21.18  | 150              |
| 133.645            | 2.64                  | 11.96                     | 17.53                                 | 32.14                                  | 40.44  | 150              |
| 161.754            | 2.77                  | 11.30                     | 15.18                                 | 29.25                                  | 28.99  | 150              |
| 167.057            | 2.79                  | 10.89                     | 15.50                                 | 29.18                                  | 28.77  | 150              |
| 194.102            | 2.92                  | 9.97                      | 13.13                                 | 26.02                                  | 19.99  | 150              |
| 204.879            | 2.97                  | 10.35                     | 19.12                                 | 32.44                                  | 41.90  | 150              |
| 237.234            | 3.11                  | 12.25                     | 17.27                                 | 32.63                                  | 42.79  | 200              |
| 254.025            | 3.18                  | 13.05                     | 16.06                                 | 32.29                                  | 41.18  | 200              |
| 300.000            | 3.40                  | 14.30                     | 14.08                                 | 31.78                                  | 38.82  | 200              |
| 323.497            | 3.48                  | 14.91                     | 15.46                                 | 33.85                                  | 49.27  | 200              |
| 467.764            | 3.95                  | 17.86                     | 10.19                                 | 32.00                                  | 39.82  | 200              |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :12-11,1997 Thu      Temperature :18.8 deg/C  
 EUT :NOTEBOOK      Humidity :58 %RH  
 Working Cond.:Mode 5      Display Pattern:H Pattern

| Frequency | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|-----------|-------|---------|---------------|----------------|--------|--------|
|           | Loss  | Factor  | Horizontal    | Horizontal     |        |        |
| (MHz)     | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 67.701    | 1.76  | 6.74    | 24.22         | 32.72          | 43.24  | 100    |
| 73.856    | 1.89  | 6.98    | 24.05         | 32.92          | 44.24  | 100    |
| 118.474   | 2.58  | 12.10   | 12.34         | 27.02          | 22.43  | 150    |
| 118.474   | 2.58  | 12.10   | 12.44         | 27.12          | 22.69  | 150    |
| 150.000   | 2.72  | 11.55   | 10.71         | 24.99          | 17.75  | 150    |
| 169.246   | 2.80  | 10.75   | 21.18         | 34.73          | 54.51  | 150    |
| 196.943   | 2.93  | 9.99    | 23.85         | 36.77          | 68.97  | 150    |
| 221.560   | 3.04  | 11.30   | 16.33         | 30.67          | 34.16  | 200    |
| 250.000   | 3.16  | 12.96   | 22.71         | 38.83          | 87.40  | 200    |
| 310.478   | 3.43  | 14.56   | 14.69         | 32.68          | 43.05  | 200    |
| 399.998   | 3.73  | 16.70   | 16.87         | 37.30          | 73.28  | 200    |
| * 467.731 | 3.95  | 17.86   | 18.87         | 40.68          | 108.16 | 200    |
| 649.174   | 4.55  | 19.79   | 10.48         | 34.82          | 55.07  | 200    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :12-11,1997 Thu      Temperature :18.8 deg/C  
 EUT :NOTEBOOK      Humidity :58 %RH  
 Working Cond.:Mode 5      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Vertical<br>(dBuV/m) | Emission Level<br>Vertical<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|---------------------------------------|----------------------------------------|--------|------------------|
| 150.002            | 2.72                  | 11.55                     | 12.99                                 | 27.27                                  | 23.08  | 150              |
| 186.171            | 2.88                  | 9.93                      | 17.58                                 | 30.39                                  | 33.08  | 150              |
| 200.465            | 2.94                  | 10.00                     | 15.11                                 | 28.05                                  | 25.27  | 150              |
| 249.998            | 3.16                  | 12.96                     | 24.72                                 | 40.84                                  | 110.15 | 200              |
| 349.996            | 3.56                  | 15.60                     | 18.70                                 | 37.86                                  | 78.18  | 200              |
| * 399.993          | 3.73                  | 16.70                     | 22.07                                 | 42.50                                  | 133.35 | 200              |
| 400.916            | 3.73                  | 16.70                     | 21.23                                 | 41.66                                  | 121.06 | 200              |
| 534.560            | 4.17                  | 18.77                     | 10.82                                 | 33.76                                  | 48.74  | 200              |
| 649.176            | 4.55                  | 19.79                     | 6.56                                  | 30.90                                  | 35.07  | 200              |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :03-19,1998 Thu      Temperature :24.5 deg/C  
 EUT :NOTEBOOK PC      Humidity :66 %RH  
 Working Cond.:Mode 6      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Horizontal<br>(dBuV/m) | Emission Level<br>Horizontal<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|-----------------------------------------|------------------------------------------|--------|------------------|
| 66.820             | 1.71                  | 6.45                      | 16.72                                   | 24.88                                    | 17.54  | 100              |
| 118.470            | 2.58                  | 12.44                     | 13.60                                   | 28.62                                    | 26.97  | 150              |
| 123.088            | 2.60                  | 12.35                     | 17.88                                   | 32.83                                    | 43.81  | 150              |
| 133.639            | 2.64                  | 11.63                     | 25.95                                   | 40.22                                    | 102.55 | 150              |
| 147.702            | 2.71                  | 10.77                     | 22.40                                   | 35.88                                    | 62.23  | 150              |
| * 169.241          | 2.80                  | 10.05                     | 29.20                                   | 42.05                                    | 126.65 | 150              |
| 183.291            | 2.87                  | 9.47                      | 22.11                                   | 34.45                                    | 52.80  | 150              |
| 194.094            | 2.92                  | 9.37                      | 25.69                                   | 37.98                                    | 79.26  | 150              |
| 221.054            | 3.04                  | 10.95                     | 25.06                                   | 39.05                                    | 89.66  | 200              |
| 237.221            | 3.11                  | 12.10                     | 27.37                                   | 42.58                                    | 134.60 | 200              |
| 249.991            | 3.16                  | 12.96                     | 24.15                                   | 40.28                                    | 103.22 | 200              |
| 258.789            | 3.21                  | 13.03                     | 23.69                                   | 39.93                                    | 99.24  | 200              |
| 269.573            | 3.25                  | 13.07                     | 27.30                                   | 43.63                                    | 151.83 | 200              |
| 285.114            | 3.32                  | 13.14                     | 26.95                                   | 43.41                                    | 148.15 | 200              |
| 304.634            | 3.41                  | 13.31                     | 23.85                                   | 40.57                                    | 106.78 | 200              |
| 334.106            | 3.51                  | 13.95                     | 24.67                                   | 42.13                                    | 127.75 | 200              |
| 399.986            | 3.73                  | 15.34                     | 12.52                                   | 31.59                                    | 37.96  | 200              |
| 417.794            | 3.78                  | 15.96                     | 11.83                                   | 31.58                                    | 37.91  | 200              |
| 467.731            | 3.95                  | 17.34                     | 16.56                                   | 37.85                                    | 78.07  | 200              |
| 487.725            | 4.01                  | 17.50                     | 22.28                                   | 43.80                                    | 154.84 | 200              |
| 868.616            | 5.26                  | 20.70                     | 8.38                                    | 34.34                                    | 52.14  | 200              |

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :03-19,1998 Thu      Temperature :24.5 deg/C  
 EUT :NOTEBOOK PC      Humidity :66 %RH  
 Working Cond.:Mode 6      Display Pattern:H Pattern

| Frequency | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|-----------|-------|---------|---------------|----------------|--------|--------|
|           | Loss  | Factor  | Vertical      | Vertical       |        |        |
| (MHz)     | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 140.181   | 2.68  | 11.80   | 21.21         | 35.69          | 60.86  | 150    |
| 150.948   | 2.72  | 11.55   | 20.30         | 34.58          | 53.55  | 150    |
| 183.297   | 2.87  | 9.92    | 23.23         | 36.02          | 63.26  | 150    |
| 199.251   | 2.94  | 10.00   | 25.86         | 38.80          | 87.13  | 150    |
| 237.225   | 3.11  | 12.25   | 24.48         | 39.84          | 98.15  | 200    |
| 258.791   | 3.21  | 13.20   | 23.57         | 39.98          | 99.82  | 200    |
| * 269.573 | 3.25  | 13.46   | 27.23         | 43.94          | 157.48 | 200    |
| 334.090   | 3.51  | 15.17   | 22.80         | 41.48          | 118.59 | 200    |
| 452.881   | 3.90  | 17.45   | 14.05         | 35.40          | 58.88  | 200    |
| 466.945   | 3.95  | 17.86   | 14.20         | 36.01          | 63.18  | 200    |
| 517.581   | 4.11  | 18.73   | 16.58         | 39.42          | 93.58  | 200    |
| 614.400   | 4.43  | 19.44   | 6.88          | 30.75          | 34.46  | 200    |
| 663.555   | 4.60  | 19.80   | 12.76         | 37.16          | 72.09  | 200    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :16.7 deg/C  
 EUT :NOTEBOOK PC      Humidity :59 %RH  
 Working Cond.:MODE 1 PK      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|------------|-------|---------|---------------|----------------|--------|--------|
|            | Loss  | Factor  | Horizontal    | Horizontal     |        |        |
| (MHz)      | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| * 1072.800 | 5.93  | 21.81   | 35.66         | 27.81          | 24.57  | 500    |
| 1162.000   | 6.21  | 21.84   | 34.31         | 26.92          | 22.18  | 500    |
| 1262.900   | 6.51  | 22.65   | 33.63         | 27.51          | 23.74  | 500    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.58, 35.44, 35.28)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :16.7 deg/C  
 EUT :NOTEBOOK PC      Humidity :59 %RH  
 Working Cond.:MODE 1 PK      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Vertical<br>(dBuV/m) | Emission Level<br>Vertical<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|---------------------------------------|----------------------------------------|--------|------------------|
| 1093.900           | 5.99                  | 21.48                     | 34.43                                 | 26.35                                  | 20.78  | 500              |
| 1237.100           | 6.44                  | 22.44                     | 34.36                                 | 27.92                                  | 24.87  | 500              |
| * 1293.500         | 6.61                  | 22.93                     | 33.88                                 | 28.19                                  | 25.68  | 500              |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.55, 35.32, 35.23)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.7 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:1 AV      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level | Limits |
|------------|-------|---------|---------------|----------------|--------|
| (MHz)      | Loss  | Factor  | Horizontal    | Horizontal     |        |
|            | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) |
| 1072.800   | 5.93  | 21.81   | 22.67         | 14.82          | 5.51   |
| 1162.000   | 6.21  | 21.84   | 22.92         | 15.53          | 5.98   |
| * 1262.900 | 6.51  | 22.65   | 24.79         | 18.67          | 8.58   |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.58, 35.44, 35.28)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.7 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:1 AV      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Vertical<br>(dBuV/m) | Emission Level<br>Vertical<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|---------------------------------------|----------------------------------------|--------|------------------|
| 1093.900           | 5.99                  | 21.48                     | 23.78                                 | 15.70                                  | 6.10   | 500              |
| * 1237.100         | 6.44                  | 22.44                     | 24.33                                 | 17.89                                  | 7.84   | 500              |
| 1293.500           | 6.61                  | 22.93                     | 22.59                                 | 16.90                                  | 7.00   | 500              |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.

2.“ \* ”, means this data is worse case emission level.

3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 - Amp Factor(35.55, 35.32, 35.23)

4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.7 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE 2 PK      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level  | Limits |
|------------|-------|---------|---------------|-----------------|--------|
| (MHz)      | Loss  | Factor  | Horizontal    | Horizontal      |        |
|            | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m) (uV/m) | (uV/m) |
| 1056.300   | 5.88  | 22.04   | 35.21         | 27.52 23.77     | 500    |
| 1145.600   | 6.15  | 21.72   | 33.71         | 26.11 20.21     | 500    |
| * 1246.500 | 6.46  | 22.51   | 33.99         | 27.65 24.14     | 500    |

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.61, 35.47, 35.31)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.7 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE 2 PK      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|------------|-------|---------|---------------|----------------|--------|--------|
|            | Loss  | Factor  | Vertical      | Vertical       |        |        |
| (MHz)      | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 1068.100   | 5.91  | 21.87   | 33.86         | 26.05          | 20.06  | 500    |
| 1131.500   | 6.11  | 21.62   | 33.07         | 25.31          | 18.43  | 500    |
| * 1227.700 | 6.41  | 22.35   | 34.06         | 27.48          | 23.66  | 500    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.59, 35.49, 35.34)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.9 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE 2 AV      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Horizontal<br>(dBuV/m) | Emission Level<br>Horizontal<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|-----------------------------------------|------------------------------------------|--------|------------------|
| 1056.300           | 5.88                  | 22.04                     | 20.76                                   | 13.07                                    | 4.50   | 500              |
| 1145.600           | 6.15                  | 21.72                     | 23.46                                   | 15.86                                    | 6.21   | 500              |
| * 1246.500         | 6.46                  | 22.51                     | 24.77                                   | 18.43                                    | 8.35   | 500              |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
    - Amp Factor(35.61, 35.47, 35.31)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.9 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE 2 AV      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|------------|-------|---------|---------------|----------------|--------|--------|
|            | Loss  | Factor  | Vertical      | Vertical       |        |        |
| (MHz)      | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 1068.100   | 5.91  | 21.87   | 22.59         | 14.78          | 5.48   | 500    |
| 1131.500   | 6.11  | 21.62   | 21.31         | 13.55          | 4.76   | 500    |
| * 1227.700 | 6.41  | 22.35   | 22.88         | 16.30          | 6.53   | 500    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.59, 35.49, 35.34)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.4 deg/C  
 EUT :NOTEBOOK PC      Humidity :60 %RH  
 Working Cond.:MODE:3 PK      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level | Limits |
|------------|-------|---------|---------------|----------------|--------|
| (MHz)      | Loss  | Factor  | Horizontal    | Horizontal     |        |
| (dB)       | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) |
| 1056.300   | 5.88  | 22.04   | 33.66         | 25.97          | 19.88  |
| 1112.700   | 6.05  | 21.48   | 34.75         | 26.76          | 21.78  |
| * 1270.000 | 6.54  | 22.72   | 33.75         | 27.74          | 24.38  |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.61, 35.52, 35.27)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.4 deg/C  
 EUT :NOTEBOOK PC      Humidity :60 %RH  
 Working Cond.:MODE:3 PK      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|------------|-------|---------|---------------|----------------|--------|--------|
|            | Loss  | Factor  | Vertical      | Vertical       |        |        |
| (MHz)      | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 1047.000   | 5.85  | 22.19   | 34.92         | 27.33          | 23.26  | 500    |
| 1187.800   | 6.28  | 22.01   | 34.31         | 27.20          | 22.90  | 500    |
| * 1291.100 | 6.60  | 22.92   | 33.97         | 28.25          | 25.87  | 500    |

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.
- 2.“ \* ”, means this data is worse case emission level.
- 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 - Amp Factor(35.62, 35.40, 35.23)
- 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.9 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:3 AV      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|------------|-------|---------|---------------|----------------|--------|--------|
|            | Loss  | Factor  | Horizontal    | Horizontal     |        |        |
| (MHz)      | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 1056.300   | 5.88  | 22.04   | 22.82         | 15.13          | 5.71   | 500    |
| 1112.700   | 6.05  | 21.48   | 22.61         | 14.62          | 5.38   | 500    |
| * 1270.000 | 6.54  | 22.72   | 22.21         | 16.20          | 6.46   | 500    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
    - Amp Factor(35.61, 35.52, 35.27)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.9 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:3 AV      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Vertical<br>(dBuV/m) | Emission Level<br>Vertical<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|---------------------------------------|----------------------------------------|--------|------------------|
| 1047.000           | 5.85                  | 22.19                     | 23.86                                 | 16.27                                  | 6.51   | 500              |
| * 1187.800         | 6.28                  | 22.01                     | 25.46                                 | 18.35                                  | 8.27   | 500              |
| 1291.100           | 6.60                  | 22.92                     | 21.82                                 | 16.10                                  | 6.39   | 500              |

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.62, 35.40, 35.23)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.9 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:4 PK      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Horizontal<br>(dBuV/m) | Emission Level<br>Horizontal<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|-----------------------------------------|------------------------------------------|--------|------------------|
| 1154.330           | 6.18                  | 21.79                     | 24.48                                   | 16.99                                    | 7.08   | 500              |
| 1354.250           | 6.80                  | 23.90                     | 25.37                                   | 20.94                                    | 11.14  | 500              |
| * 1507.850         | 7.28                  | 25.47                     | 25.64                                   | 23.49                                    | 14.94  | 500              |

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.45, 35.13, 34.90)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.9 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:4 PK      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Vertical<br>(dBuV/m) | Emission Level<br>Vertical<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|---------------------------------------|----------------------------------------|--------|------------------|
| 1156.580           | 6.19                  | 21.80                     | 24.05                                 | 16.59                                  | 6.75   | 500              |
| 1271.580           | 6.54                  | 22.74                     | 24.09                                 | 18.10                                  | 8.04   | 500              |
| * 1402.150         | 6.95                  | 24.71                     | 24.31                                 | 20.91                                  | 11.11  | 500              |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
    - Amp Factor(35.45, 35.27, 35.06)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.9 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:4 AV      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Vertical<br>(dBuV/m) | Emission Level<br>Vertical<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|---------------------------------------|----------------------------------------|--------|------------------|
| 1067.000           | 5.91                  | 21.90                     | 24.11                                 | 16.32                                  | 6.55   | 500              |
| 1251.770           | 6.48                  | 22.56                     | 24.35                                 | 18.09                                  | 8.03   | 500              |
| * 1396.720         | 6.93                  | 24.61                     | 24.01                                 | 20.48                                  | 10.57  | 500              |

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.59, 35.30, 35.07)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 Mon      Temperature :18.9 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:4 AV      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level | Limits |
|------------|-------|---------|---------------|----------------|--------|
| (MHz)      | Loss  | Factor  | Horizontal    | Horizontal     |        |
|            | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) |
| 1222.050   | 6.39  | 22.30   | 24.82         | 18.16          | 8.09   |
| 1365.600   | 6.84  | 24.11   | 25.42         | 21.25          | 11.54  |
| * 1422.270 | 7.01  | 24.87   | 25.36         | 22.21          | 12.90  |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
    - Amp Factor(35.34, 35.12, 35.02)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 MON      Temperature :18.8 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:5 PK      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|------------|-------|---------|---------------|----------------|--------|--------|
|            | Loss  | Factor  | Horizontal    | Horizontal     |        |        |
| (MHz)      | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 1033.108   | 5.80  | 21.13   | 34.70         | 25.99          | 19.93  | 500    |
| 1166.406   | 6.22  | 21.87   | 34.98         | 27.63          | 24.08  | 500    |
| * 1233.055 | 6.43  | 22.41   | 36.70         | 30.21          | 32.38  | 500    |

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.65, 35.43, 35.33)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 MON      Temperature :18.8 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:5 PK      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level | Limits |
|------------|-------|---------|---------------|----------------|--------|
| (MHz)      | Loss  | Factor  | Vertical      | Vertical       |        |
| (dB)       | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) |
| 1107.960   | 6.04  | 21.46   | 24.37         | 16.33          | 6.56   |
| 1288.050   | 6.60  | 22.90   | 24.76         | 19.02          | 8.93   |
| * 1479.350 | 7.19  | 25.27   | 25.37         | 22.89          | 13.95  |
|            |       |         |               |                | 500    |

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
 - Amp Factor(35.53, 35.24, 34.93)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test : 01-05, 1998 MON      Temperature : 18.8 deg/C  
 EUT : NOTEBOOK PC      Humidity : 58 %RH  
 Working Cond.: MODE: 5 AV      Display Pattern: H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Horizontal<br>(dBuV/m) | Emission Level<br>Horizontal<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|-----------------------------------------|------------------------------------------|--------|------------------|
| 1033.108           | 5.80                  | 21.13                     | 25.36                                   | 16.65                                    | 6.80   | 500              |
| 1166.406           | 6.22                  | 21.87                     | 25.58                                   | 18.23                                    | 8.16   | 500              |
| * 1233.055         | 6.43                  | 22.41                     | 25.26                                   | 18.77                                    | 8.68   | 500              |

- Remarks:
1. All Readings below 1GHz are Quasi-Peak, above are average value.
  2. " \* ", means this data is worse case emission level.
  3. Emission Level = Reading Level + Antenna Factor + Cable loss  
- Amp Factor (35.65, 35.43, 35.33)
  4. Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :01-05,1998 MON      Temperature :18.8 deg/C  
 EUT :NOTEBOOK PC      Humidity :58 %RH  
 Working Cond.:MODE:5 AV      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level | Limits    |
|------------|-------|---------|---------------|----------------|-----------|
| (MHz)      | Loss  | Factor  | Vertical      | Vertical       |           |
| (dB)       | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m)    |
| 1067.850   | 5.91  | 21.90   | 25.07         | 17.28          | 7.31 500  |
| 1220.120   | 6.38  | 22.28   | 24.89         | 18.20          | 8.13 500  |
| * 1582.605 | 7.51  | 26.14   | 24.66         | 23.45          | 14.87 500 |

- Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.59, 35.35, 34.87)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :04-01,1998 Wed      Temperature :24.5 deg/C  
 EUT :NOTEBOOK PC      Humidity :66 %RH  
 Working Cond.:MODE:6 PK      Display Pattern:H Pattern

| Frequency  | Cable | Antenna | Reading Level | Emission Level |        | Limits |
|------------|-------|---------|---------------|----------------|--------|--------|
|            | Loss  | Factor  | Horizontal    | Horizontal     |        |        |
| (MHz)      | (dB)  | (dB)    | (dBuV/m)      | (dBuV/m)       | (uV/m) | (uV/m) |
| 1066.914   | 5.91  | 21.27   | 30.34         | 21.92          | 12.48  | 500    |
| 1185.462   | 6.27  | 22.00   | 29.21         | 22.08          | 12.70  | 500    |
| * 1304.126 | 6.65  | 23.09   | 30.54         | 25.06          | 17.90  | 500    |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.59, 35.40, 35.21)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :04-01,1998 Wed      Temperature :24.5 deg/C  
 EUT :NOTEBOOK PC      Humidity :66 %RH  
 Working Cond.:MODE:6 PK      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Vertical<br>(dBuV/m) | Emission Level<br>Vertical<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|---------------------------------------|----------------------------------------|--------|------------------|
| 1065.984           | 5.90                  | 21.92                     | 29.57                                 | 21.80                                  | 12.30  | 500              |
| * 1184.789         | 6.27                  | 21.99                     | 31.60                                 | 24.46                                  | 16.71  | 500              |
| 1304.987           | 6.65                  | 23.07                     | 27.32                                 | 21.82                                  | 12.33  | 500              |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.60, 35.41, 35.21)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :04-01,1998 Wed      Temperature :24.5 deg/C  
 EUT :NOTEBOOK PC      Humidity :66 %RH  
 Working Cond.:MODE:6 AV      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Horizontal<br>(dBuV/m) | Emission Level<br>Horizontal<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|-----------------------------------------|------------------------------------------|--------|------------------|
|--------------------|-----------------------|---------------------------|-----------------------------------------|------------------------------------------|--------|------------------|

|            |      |       |       |       |      |     |
|------------|------|-------|-------|-------|------|-----|
| 1066.914   | 5.91 | 21.27 | 26.32 | 17.90 | 7.85 | 500 |
| 1185.462   | 6.27 | 22.00 | 25.21 | 18.08 | 8.01 | 500 |
| * 1304.126 | 6.65 | 23.09 | 24.33 | 18.85 | 8.76 | 500 |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.59, 35.40, 35.21)  
 4.Deviations from the specifications: None.

## Radiated Emission Data

Date of Test :04-01,1998 Wed      Temperature :24.5 deg/C  
 EUT :NOTEBOOK PC      Humidity :66 %RH  
 Working Cond.:MODE:6 AV      Display Pattern:H Pattern

| Frequency<br>(MHz) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB) | Reading Level<br>Vertical<br>(dBuV/m) | Emission Level<br>Vertical<br>(dBuV/m) | (uV/m) | Limits<br>(uV/m) |
|--------------------|-----------------------|---------------------------|---------------------------------------|----------------------------------------|--------|------------------|
| 1065.984           | 5.90                  | 21.92                     | 24.38                                 | 16.61                                  | 6.77   | 500              |
| 1184.789           | 6.27                  | 21.99                     | 23.02                                 | 15.88                                  | 6.22   | 500              |
| * 1304.987         | 6.65                  | 23.07                     | 23.64                                 | 18.14                                  | 8.07   | 500              |

Remarks:1. All Readings below 1GHz are Quasi-Peak, above are average value.  
 2.“ \* ”, means this data is worse case emission level.  
 3.Emission Level = Reading Level + Antenna Factor + Cable loss  
   - Amp Factor(35.60, 35.41, 35.21)  
 4.Deviations from the specifications: None.

## 6. EMI Reduction Method During Compliance Testing

No modification was made during testing.