

**Test Results**

**Emission**

**Radiated Emissions**

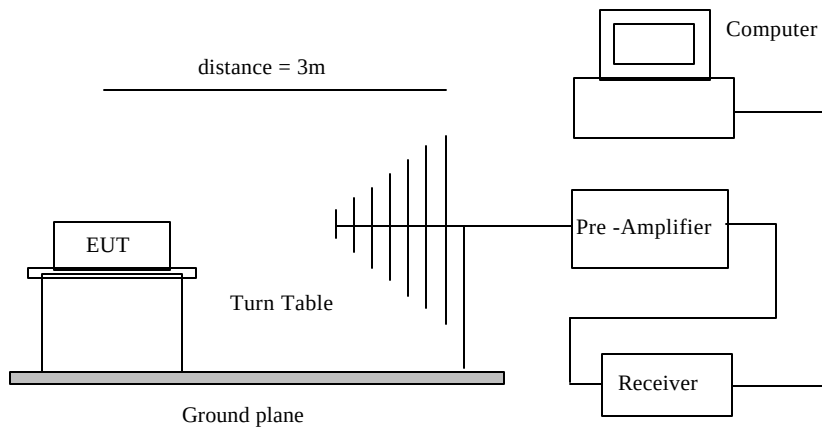
|                    |                          |
|--------------------|--------------------------|
| Test Requirement:  | FCC 47CFR 15.109 Class B |
| Test Method:       | ANSI C63.4:1992          |
| Test Date:         | 2001-09-17               |
| Mode of Operation: | On mode                  |

**Test Method:**

The sample was placed 0.8m above the ground plane on the OATS \*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigate all operating modes, rotated about all 3 axis (X, Y & Z) to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\*: OATS [Open area test site] located at HKSTC with a metal ground plane on filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657.

**Test Setup:**



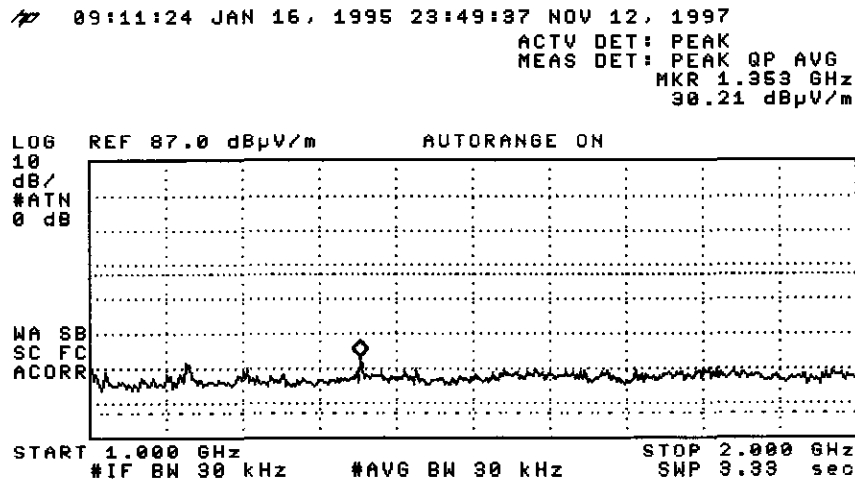
# FCC ID: PQB-RV100-P112

Limited for Radiated Emissions [FCC 47 CFR 15.109 Class B]:

| Frequency Range<br>[MHz] | Quasi-Peak Limits<br>[μV/m] |
|--------------------------|-----------------------------|
| 30-88                    | 100                         |
| 88-216                   | 150                         |
| 216-960                  | 200                         |
| Above960                 | 500                         |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are base on measurements employing an average detector.

## Results:



| Radiated Emissions                                 |       |            |          |          |       |          |
|----------------------------------------------------|-------|------------|----------|----------|-------|----------|
| Average Value                                      |       |            |          |          |       |          |
| Frequency                                          | Level | Correction | Field    | Field    | Limit | Antenna  |
| MHz                                                | @3m   | Factor     | Strength | Strength | @3m   | Polarity |
|                                                    | dBμV  | dB/m       | dBμV/m   | μV/m     | μV/m  |          |
| NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS |       |            |          |          |       |          |

\*\* For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be recorded. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth =3MHz  
 Video Bandwidth =1Hz

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## TEST EQUIPMENT AUDIT

### Pre-scan

| EQP NO. | DESCRIPTION                | MANUFACTURER    | MODEL NO.      | SERIAL NO. | LAST CAL |
|---------|----------------------------|-----------------|----------------|------------|----------|
| EM131   | PORTABLE SPECTRUM ANALYSER | HEWLETT PACKARD | 8595EM         | 3710A00155 | 10/07/00 |
| EM016   | ANTENNA                    | ARA INC.        | LPB-2513/A     | 1047       | 08/11/00 |
| EM034   | PRE-AMPLIFIER              | HP              | 8447F OPT 1664 | 2944A04240 | 18/07/00 |
| EM082   | ANECHOIC CHAMBER           | FELJAS & MASSON | N/A            | N/A        | TBD      |

### Radiated Emission

| EQP NO. | DESCRIPTION                                                                  | MANUFACTURER                                          | MODEL NO.                      | SERIAL NO.                             | LAST CAL |
|---------|------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------|----------------------------------------|----------|
| EM007   | SPECTRUM ANALYZER                                                            | HEWLETT PACKARD                                       | HP85660B                       | 3144A21192                             | 07/09/01 |
| EM008   | SPECTRUM ANALYZER DISPLAY                                                    | HEWLETT PACKARD                                       | HP85662A                       | 3144A20514                             | 07/09/01 |
| EM009   | QUASI PEAK ADAPTOR                                                           | HEWLETT PACKARD                                       | HP85650A                       | 3303A01702                             | 07/09/01 |
| EM010   | RF PRESELECTOR                                                               | HEWLETT PACKARD                                       | HP85685A                       | 3221A01410                             | 07/09/01 |
| EM011   | ATTENUATOR/SWITCH                                                            | HEWLETT PACKARD                                       | HP11713A                       | 2508A10595                             | 07/09/01 |
| EM012   | PRE-AMPLIFIER                                                                | HEWLETT PACKARD                                       | HP8449B                        | 3008A00262                             | 07/09/01 |
| EM013   | CONTROLLER (COMPUTER),<br>COLOR MONITOR, KEYBOARD &<br>MOUSE<br>FLOPPY DRIVE | HEWLETT PACKARD<br>HEWLETT PACKARD<br>HEWLETT PACKARD | HP9000<br>HP A1097C<br>HP9133L | 6226A60314<br>3151J39517<br>2623A02468 | CM       |
| EM131   | PORTABLE SPECTRUM ANALYSER                                                   | HEWLETT PACKARD                                       | 8595EM                         | 3710A00155                             | 10/07/00 |
| EM017   | ANTENNA                                                                      | ARA INC.                                              | LPB-2513/A                     | 1069                                   | 17/02/00 |
| EM020   | HORN ANTENNA                                                                 | EMCO                                                  | 3115                           | 4032                                   | 09/08/00 |
| EM072   | SIGNAL GENERATOR                                                             | HEWLETT PACKARD                                       | 8640B                          | 1948A11892                             | 30/03/98 |
| EM083   | HKSTC OPEN AREA TEST SITE                                                    | HKSTC                                                 | N/A                            | N/A                                    | 16/01/01 |
| EM145   | EMI TEST RECEIVER                                                            | R & S                                                 | ESCS 30                        | 830245/021                             | TBD      |
| EM174   | ANTENNA                                                                      | EMCO                                                  | 3142B                          | 1671                                   | 18/06/01 |