

# FCC TEST REPORT

**REPORT NO.:** RF931221H03

**MODEL NO.:** Ojo-1000

**RECEIVED:** Dec. 21, 2004

**TESTED:** Dec. 30 to 31, 2004

**APPLICANT:** Mototech Inc.

**ADDRESS:** 9, Park Avenue II, Science-Based  
Industrial Park, Hsin-Chu, Taiwan, R.O.C.

**ISSUED BY:** Advance Data Technology Corporation

**LAB LOCATION:** No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung  
Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien,  
Taiwan, R.O.C.

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ILAC MRA



No. 2177-01

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## 1 CERTIFICATION

**PRODUCT :** Personal Video Phone  
**BRAND NAME :** Ojo, MOTOROLA  
**MODEL NO :** Ojo-1000  
**TESTED:** Dec. 30 to 31, 2004  
**APPLICANT :** Mototech Inc.  
**TEST ITEM:** ENGINEERING SAMPLE  
**STANDARDS :** 47 CFR Part 15, Subpart C (Section 15.249),  
ANSI C63.4-2003

The above equipment (Model: Ojo-1000) has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** Carol Liao , **DATE:** Jan. 10, 2005  
( Carol Liao )

**TECHNICAL**  
**ACCEPTANCE :** Hank Chung , **DATE:** Jan. 10, 2005  
Responsible for RF ( Hank Chung )

**APPROVED BY :** Eric Lin , **DATE:** Jan. 10, 2005  
( Eric Lin, Manager )

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: 47 CFR Part 15, Subpart C |                         |        |                                                 |
|---------------------------------------------|-------------------------|--------|-------------------------------------------------|
| Standard Paragraph                          | Test Type               | Result | Remark                                          |
| 15.207                                      | Conducted Emission Test | PASS   | Minimum passing margin is -13.12dB at 0.189MHz  |
| 15.249                                      | Radiated Emission Test  | PASS   | Minimum passing margin is -0.30dB at 7231.68MHz |
| 15.249                                      | Band Edge Measurement   | PASS   | Meet the requirement of limit                   |

**NOTE:** The information of measurement uncertainty is available upon the customer's request.

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                                          |                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>PRODUCT</b>                           | Personal Video Phone                                                                           |
| <b>MODEL NO.</b>                         | Ojo-1000                                                                                       |
| <b>POWER SUPPLY</b>                      | 12 VDC from adapter for Ojo Personal Video Phone<br>3.6VDC from batteries for Cordless Handset |
| <b>MODULATION TYPE</b>                   | FSK                                                                                            |
| <b>MODULATION TECHNOLOGY</b>             | FHSS                                                                                           |
| <b>CARRIER FREQUENCY OF EACH CHANNEL</b> | 2403.648 MHz ~ 2419.2 MHz                                                                      |
| <b>BANDWIDTH OF EACH CHANNEL</b>         | 1.728 MHz                                                                                      |
| <b>NUMBER OF CHANNEL</b>                 | 10                                                                                             |
| <b>ANTENNA TYPE</b>                      | Wire antenna and Printed Antenna                                                               |
| <b>DATA CABLE</b>                        | NA                                                                                             |
| <b>I/O PORTS</b>                         | RJ45 port x2, RJ11 port x1                                                                     |
| <b>ASSOCIATED DEVICES</b>                | NA                                                                                             |

#### NOTE:

- The EUT has two brand names which are identical to each other in all aspects:

| Brand Name | Model Name | Description                     |
|------------|------------|---------------------------------|
| Ojo        | Ojo-1000   | Only brand name are difference. |
| MOTOROLA   |            |                                 |

- The Ojo Personal Video Phone was powered by following power adapter:

|                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| <b>Brand:</b>         | LEADER ELECTRONICS INC.                                         |
| <b>Model No.:</b>     | NU40-2120300-I1                                                 |
| <b>Input power :</b>  | 100-240V, 50/60Hz, 1.2A AC Cable/ without core/ nonshield/ 1.8m |
| <b>Output power :</b> | 12V, 3.0A DC Cable/ without core/nonshield/ 1.8m                |

- There are two antennas provided to this EUT, please refer to the following table:

| No. | Antenna Type    | Gain (dBi) | Antenna Connector |
|-----|-----------------|------------|-------------------|
| 1   | Wire antenna    | 0.5 dBi    | NA                |
| 2   | Printed Antenna | 0.5 dBi    | NA                |

4. The EUT consists of two parts as following table:

| No. | Description              | Antenna                 |
|-----|--------------------------|-------------------------|
| 1   | Ojo Personal Video Phone | Antenna 1 and Antenna 2 |
| 2   | Cordless Handset         | Antenna 2               |

5. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

### 3.2 DESCRIPTION OF TEST MODES

Ten channels are provided to this EUT.

| Channel | Freq. (MHz) |
|---------|-------------|
| 0       | 2419.200    |
| 1       | 2417.472    |
| 2       | 2415.744    |
| 3       | 2414.016    |
| 4       | 2412.288    |
| 5       | 2410.560    |
| 6       | 2408.832    |
| 7       | 2407.104    |
| 8       | 2405.376    |
| 9       | 2403.648    |

**NOTE:**

- Below 1 GHz, the channel 0, 5, and 9 were pre-tested in chamber. The channel 9, worst case one, was chosen for final test.
- Above 1 GHz, the channel 0, 5, and 9 were tested individually.
- Above 1 GHz, EUT was tested under the following test modes, and its data were recorded in this report:

| TEST MODE | Description              | Antenna   |
|-----------|--------------------------|-----------|
| Mode 1    | Ojo Personal Video Phone | Antenna 1 |
| Mode 2    | Ojo Personal Video Phone | Antenna 2 |
| Mode 3    | Cordless Handset         | Antenna 2 |

- For Conducted Emission Test and Radiated Emission Test (below 1GHz), the EUT was pre-tested with 1. Ojo Personal Video Phone (Recharge mode) and 2. Cordless Handset (normal operation) in chamber. The worst emissions found in . 1. Ojo Personal Video Phone (Recharge mode). Therefore, the final test was executed under this test mode with highest emission and recorded in this report individually.

### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Personal Video Phone. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC 47 CFR Part 15, Subpart C. (15.249)**  
**ANSI C63.4: 2003**

All test items have been performed and recorded as per the above standards.

### 3.4 DESCRIPTION OF SUPPORT UNITS

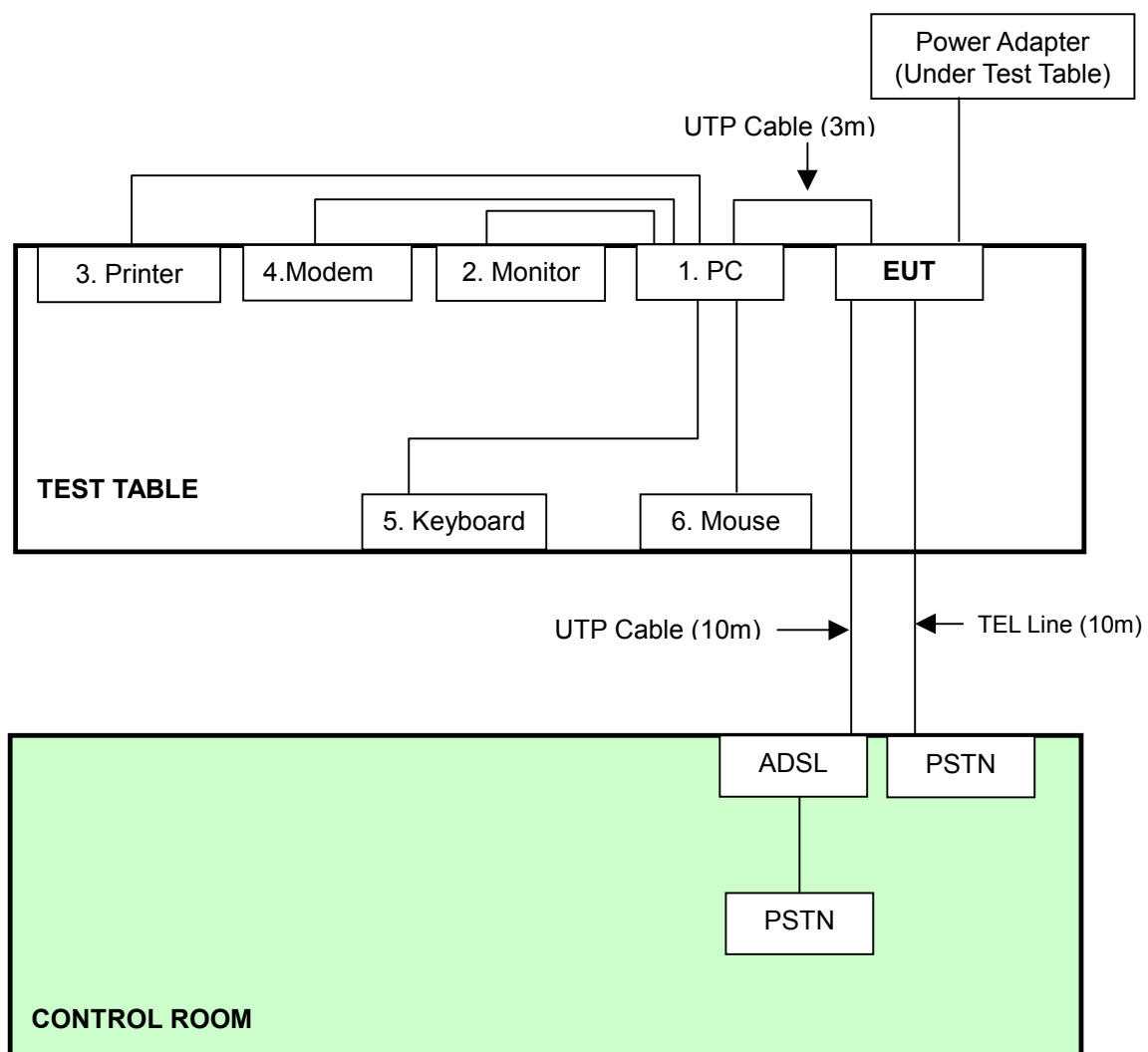
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| No. | Product           | Brand | Model No. | Serial No.        | FCC ID           |
|-----|-------------------|-------|-----------|-------------------|------------------|
| 1   | Personal Computer | DELL  | 4600      | 00043-517-542-487 | FCC DoC          |
| 2   | MONITOR           | ADI   | G1000     | 240058T00100081   | NA               |
| 3   | PRINTER           | EPSON | LQ-300+   | DCGY047261        | FCC DoC          |
| 4   | MODEM             | ACEEX | 1414      | 0206026779        | IFAXDM1414       |
| 5   | keyboard          | BTC   | KB-5200T  | F24800412         | E5XKB5122WTH0110 |
| 6   | PS/2 MOUSE        | BTC   | M851      | G00347024425      | NA               |

| No. | Signal cable description                                                                       |
|-----|------------------------------------------------------------------------------------------------|
| 1   | NA                                                                                             |
| 2   | 1.5 m braid shielded wire, terminated with VGA connector via metallic frame, w/o core.         |
| 3   | 1.1 m foil shielded wire, terminal by frame, PS2 Connector, w/o Core.                          |
| 4   | 1.1 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core |
| 5   | 1.7 m foil shielded wire, terminal by frame, PS2 Connector, w/o Core.                          |
| 6   | 1.5 m foil shielded wire, terminal by frame, PS2 Connector, w/o Core.                          |

Note: 1. All power cords of the above support units are unshielded (1.8m).

### 3.5 CONFIGURATION OF SYSTEM UNDER TEST



**NOTE:** 1. Please refer to the photos of test configuration in Item 5 also.

## 4 TEST PROCEDURES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

| FREQUENCY (MHz) | Class A (dBuV) |         | Class B (dBuV) |         |
|-----------------|----------------|---------|----------------|---------|
|                 | Quasi-peak     | Average | Quasi-peak     | Average |
| 0.15 - 0.5      | 79             | 66      | 66 - 56        | 56 - 46 |
| 0.50 - 5.0      | 73             | 60      | 56             | 46      |
| 5.0 - 30.0      | 73             | 60      | 60             | 50      |

**NOTES:** (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

(3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 4.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER         | MODEL NO. | SERIAL NO.  | CALIBRATED UNTIL |
|------------------------------------|-----------|-------------|------------------|
| *ROHDE & SCHWARZ<br>Test Receiver  | ESCS 30   | 847124/029  | Dec. 07, 2005    |
| *ROHDE & SCHWARZ LISN<br>(for EUT) | ESHS-Z5   | 848773/004  | Nov. 08, 2005    |
| *KYORITSU LISN (for peripheral)    | KNW-407   | 8/1395/12   | Jul. 23, 2005    |
| *RF Cable (JETBAO)                 | RG233/U   | Cable_CA_01 | Jul. 02, 2005    |
| *Terminator(for KYORITSU)          | 50        | 3           | May 10, 2005     |
| *Software                          | Cond-V2e  | NA          | NA               |

**Note:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in ADT Shielded Room No. A.
3. The VCCI Con A Registration No. is C-817.
4. \* = These equipment are used for the final measurement.
5. The measurement uncertainty is 2.53 dB, which is calculated as per the document CISPR 16-4

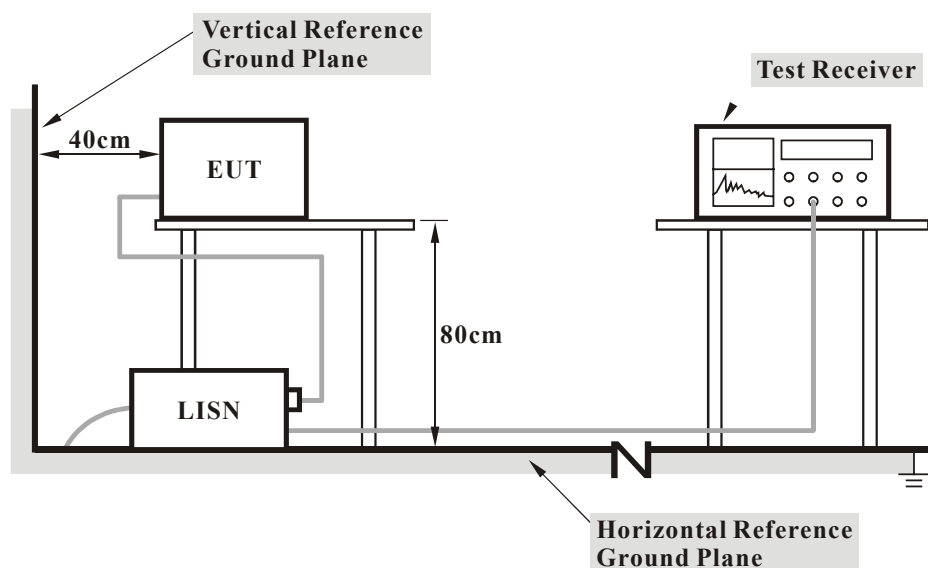
### 4.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 20dB under the prescribed limits could not be reported.

### 4.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.5 TEST SETUP



- Note:** 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related Item - Photographs of the Test Configuration.

#### **4.6 EUT OPERATING CONDITIONS**

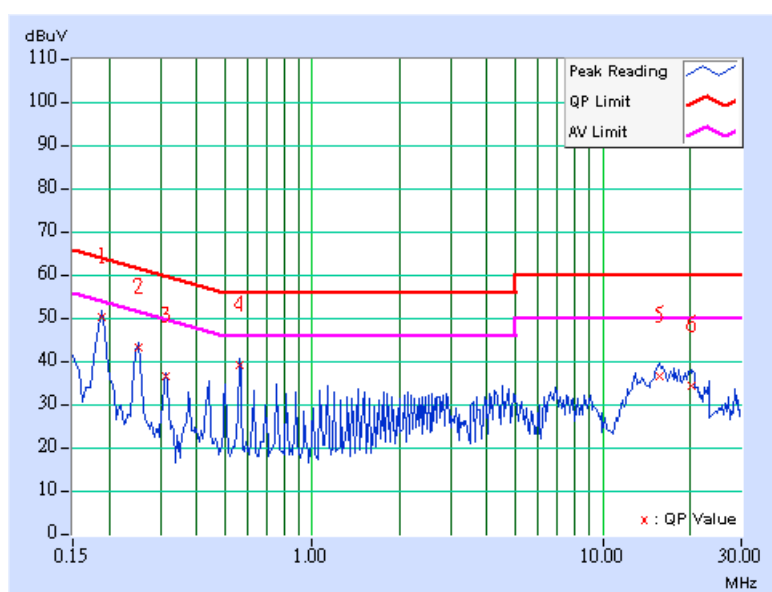
- a. Placed the EUT on the testing table.
- b. The support units (1-6) act as a Server PC system to communicate with EUT via UTP cable.
- c. The Server PC run the test program "ping.exe" to enable all functions of EUT lan port.
- d. The EUT takes living image, upload and download the image file from internet via one UTP cable and TEL line, and show the download image on the EUT's Monitor.
- e. The Cordless Handset communicate with Ojo Personal Video Phone by wireless.
- f. PC sends "H" messages to modem.
- g. PC sends "H" messages to printer, and the printer prints them on paper.
- h. Repeat steps a-g.

## 4.7 TEST RESULTS

|                                 |                                         |                      |          |
|---------------------------------|-----------------------------------------|----------------------|----------|
| <b>EUT</b>                      | Personal Video Phone                    |                      |          |
| <b>TEST MODE</b>                | Ojo Personal Video Phone with Antenna 1 | <b>MODEL</b>         | Ojo-1000 |
| <b>MODE</b>                     | Channel 9                               | <b>6dB BANDWIDTH</b> | 9 kHz    |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                           | <b>PHASE</b>         | Line (L) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 18 deg. C, 72%RH, 980 hPa               | <b>TESTED BY</b>     | Wen Yu   |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.189          | 9.27                    | 40.53         | -   | 49.80          | -   | 64.08     | 54.08 | -14.28 | -   |
| 2  | 0.252          | 9.21                    | 33.75         | -   | 42.96          | -   | 61.71     | 51.71 | -18.75 | -   |
| 3  | 0.314          | 9.20                    | 26.90         | -   | 36.10          | -   | 59.86     | 49.86 | -23.76 | -   |
| 4  | 0.564          | 9.19                    | 29.66         | -   | 38.85          | -   | 56.00     | 46.00 | -17.15 | -   |
| 5  | 15.617         | 9.62                    | 26.84         | -   | 36.46          | -   | 60.00     | 50.00 | -23.54 | -   |
| 6  | 20.164         | 9.75                    | 24.62         | -   | 34.37          | -   | 60.00     | 50.00 | -25.63 | -   |

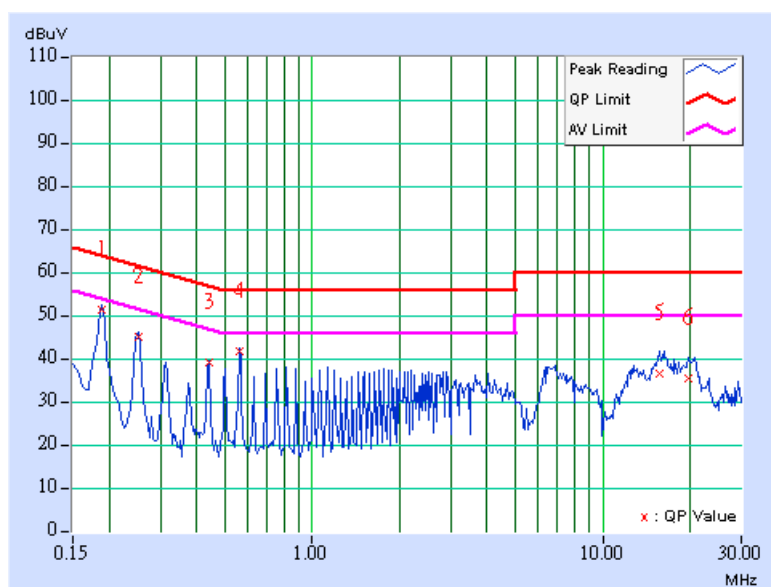
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



|                                 |                                         |                      |             |
|---------------------------------|-----------------------------------------|----------------------|-------------|
| <b>EUT</b>                      | Personal Video Phone                    |                      |             |
| <b>TEST MODE</b>                | Ojo Personal Video Phone with Antenna 1 | <b>MODEL</b>         | Ojo-1000    |
| <b>MODE</b>                     | Channel 9                               | <b>6dB BANDWIDTH</b> | 9 kHz       |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                           | <b>PHASE</b>         | Neutral (N) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 18 deg. C, 72%RH, 980 hPa               | <b>TESTED BY</b>     | Wen Yu      |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.189          | 9.19                    | 41.77         | -   | 50.96          | -   | 64.08     | 54.08 | -13.12 | -   |
| 2  | 0.252          | 9.20                    | 35.41         | -   | 44.61          | -   | 61.71     | 51.71 | -17.10 | -   |
| 3  | 0.439          | 9.24                    | 29.45         | -   | 38.69          | -   | 57.08     | 47.08 | -18.39 | -   |
| 4  | 0.564          | 9.23                    | 32.02         | -   | 41.25          | -   | 56.00     | 46.00 | -14.75 | -   |
| 5  | 15.613         | 9.67                    | 26.80         | -   | 36.47          | -   | 60.00     | 50.00 | -23.53 | -   |
| 6  | 19.789         | 9.80                    | 25.72         | -   | 35.52          | -   | 60.00     | 50.00 | -24.48 | -   |

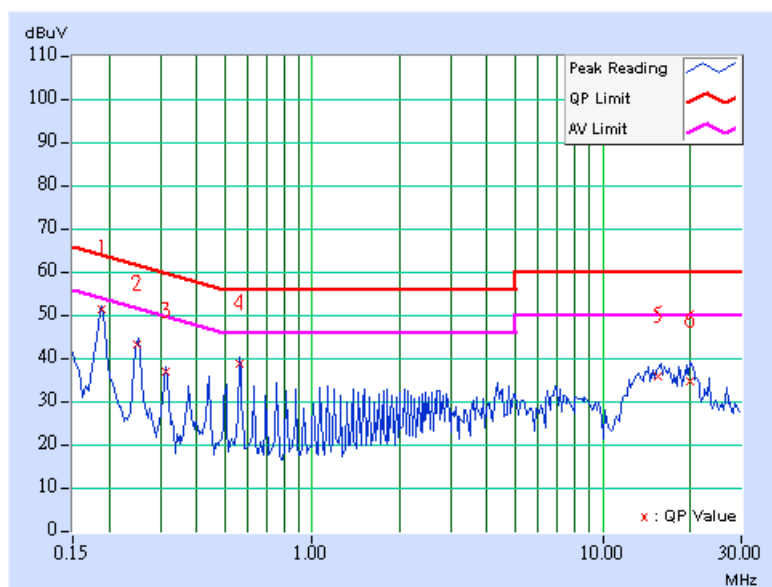
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2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.  
3. The emission levels of other frequencies were very low against the limit.  
4. Margin value = Emission level - Limit value  
5. Correction factor = Insertion loss + Cable loss  
6. Emission Level = Correction Factor + Reading Value.



|                                 |                                         |                      |          |
|---------------------------------|-----------------------------------------|----------------------|----------|
| <b>EUT</b>                      | Personal Video Phone                    |                      |          |
| <b>TEST MODE</b>                | Ojo Personal Video Phone with Antenna 2 | <b>MODEL</b>         | Ojo-1000 |
| <b>MODE</b>                     | Channel 9                               | <b>6dB BANDWIDTH</b> | 9 kHz    |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                           | <b>PHASE</b>         | Line (L) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 18 deg. C, 72%RH, 980 hPa               | <b>TESTED BY</b>     | Wen Yu   |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.188          | 9.28                    | 41.57         | -   | 50.85          | -   | 64.13     | 54.13 | -13.28 | -   |
| 2  | 0.250          | 9.21                    | 33.72         | -   | 42.93          | -   | 61.76     | 51.76 | -18.84 | -   |
| 3  | 0.314          | 9.20                    | 27.13         | -   | 36.33          | -   | 59.86     | 49.86 | -23.53 | -   |
| 4  | 0.564          | 9.19                    | 29.16         | -   | 38.35          | -   | 56.00     | 46.00 | -17.65 | -   |
| 5  | 15.559         | 9.62                    | 26.23         | -   | 35.85          | -   | 60.00     | 50.00 | -24.15 | -   |
| 6  | 20.016         | 9.75                    | 25.07         | -   | 34.82          | -   | 60.00     | 50.00 | -25.18 | -   |

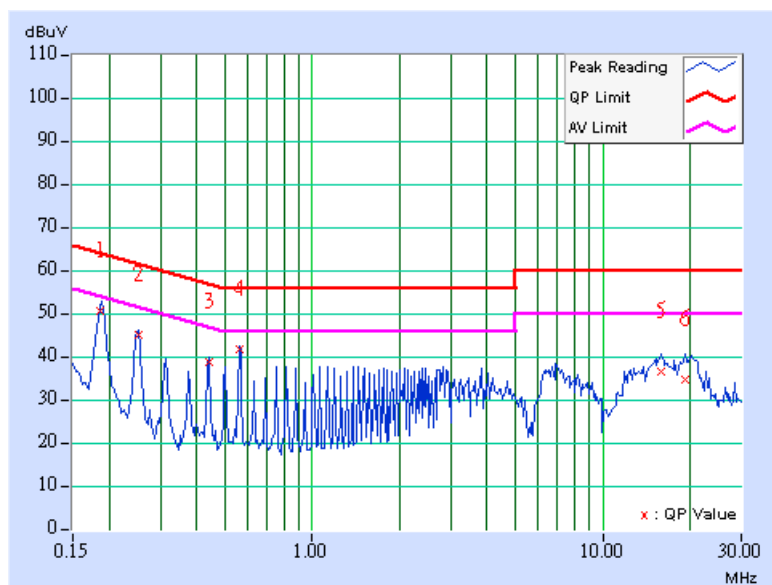
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.  
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.  
3. The emission levels of other frequencies were very low against the limit.  
4. Margin value = Emission level - Limit value  
5. Correction factor = Insertion loss + Cable loss  
6. Emission Level = Correction Factor + Reading Value.



|                                 |                                         |                      |             |
|---------------------------------|-----------------------------------------|----------------------|-------------|
| <b>EUT</b>                      | Personal Video Phone                    |                      |             |
| <b>TEST MODE</b>                | Ojo Personal Video Phone with Antenna 2 | <b>MODEL</b>         | Ojo-1000    |
| <b>MODE</b>                     | Channel 9                               | <b>6dB BANDWIDTH</b> | 9 kHz       |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                           | <b>PHASE</b>         | Neutral (N) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 18 deg. C, 72%RH, 980 hPa               | <b>TESTED BY</b>     | Wen Yu      |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.186          | 9.19                    | 40.96         | -   | 50.15          | -   | 64.21     | 54.21 | -14.05 | -   |
| 2  | 0.252          | 9.20                    | 35.49         | -   | 44.69          | -   | 61.71     | 51.71 | -17.02 | -   |
| 3  | 0.439          | 9.24                    | 29.08         | -   | 38.32          | -   | 57.08     | 47.08 | -18.76 | -   |
| 4  | 0.564          | 9.23                    | 31.92         | -   | 41.15          | -   | 56.00     | 46.00 | -14.85 | -   |
| 5  | 15.926         | 9.67                    | 27.03         | -   | 36.70          | -   | 60.00     | 50.00 | -23.30 | -   |
| 6  | 19.309         | 9.78                    | 25.20         | -   | 34.98          | -   | 60.00     | 50.00 | -25.02 | -   |

- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.  
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.  
3. The emission levels of other frequencies were very low against the limit.  
4. Margin value = Emission level - Limit value  
5. Correction factor = Insertion loss + Cable loss  
6. Emission Level = Correction Factor + Reading Value.



## 4.8 RADIATED EMISSION MEASUREMENT

### 4.8.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.249 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

| Fundamental Frequency (MHz) | Field Strength of Fundamental (dBuV/m) |         |
|-----------------------------|----------------------------------------|---------|
|                             | Peak                                   | Average |
| 2400 ~ 2483.5               | 114                                    | 94      |

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| Frequencies (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009-0.490       | $2400/F(\text{kHz})$              | 300                           |
| 0.490-1.705       | $24000/F(\text{kHz})$             | 30                            |
| 1.705-30.0        | 30                                | 30                            |
| 30-88             | 100                               | 3                             |
| 88-216            | 150                               | 3                             |
| 216-960           | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

## 4.8.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER         | MODEL NO. | SERIAL NO.          | CALIBRATED UNTIL |
|------------------------------------|-----------|---------------------|------------------|
| HP Spectrum Analyzer               | 8594E     | 3710A04861          | Sep. 23, 2005    |
| ADVANTEST Spectrum Analyzer        | R3271A    | 85060311            | Jun. 29, 2005    |
| CHASE RF Pre_Amplifier             | CPA9232   | 1057                | Aug. 06, 2005    |
| HP Pre_Amplifier                   | 8449B     | 3008A01922          | Oct. 13, 2005    |
| ROHDE & SCHWARZ Test Receiver      | ESCS30    | 100287              | Dec. 08, 2005    |
| CHASE Broadband Antenna            | VULB9168  | 138                 | May 22, 2005     |
| Schwarzbeck Horn_Antenna           | BBHA9120  | D124                | Jun. 16, 2005    |
| Schwarzbeck Horn_Antenna           | BBHA 9170 | BBHA9170192         | Feb. 16, 2005    |
| SCHWARZBECK Tunable Dipole Antenna | UHAP      | 897                 | Mar. 07, 2005    |
| SCHWARZBECK Tunable Dipole Antenna | VHAP      | 880                 | Mar. 07, 2005    |
| RF Switches (ARNITSU)              | CS-201    | 1565157             | Jul. 15, 2005    |
| RF CABLE (Chaintek) 1GHz-20GHz     | SF102     | 22054-2             | Feb. 10, 2005    |
| RF Cable(RICHTEC)                  | 9913-30M  | STCCAB-30M-1GHz-021 | Jul. 15, 2005    |
| Software                           | AS60P8    | NA                  | NA               |
| CHANCE MOST Antenna Tower          | AT-100    | 0203                | NA               |
| CHANCE MOST Turn Table             | TT-100    | 0203                | NA               |

- Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Tunable Dipole Antenna) and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in ADT Open Site No. C.
4. The FCC Site Registration No. is 656396.
5. The VCCI Site Registration No. is R-1626.
6. The CANADA Site Registration No. is IC 4824-3.
7. The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4.

| Measurement                       | Value   |
|-----------------------------------|---------|
| Radiated emissions (30MHz-1GHz)   | 2.98 dB |
| Radiated emissions (1GHz ~18GHz)  | 2.21 dB |
| Radiated emissions (18GHz ~20GHz) | 1.88 dB |

#### 4.8.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

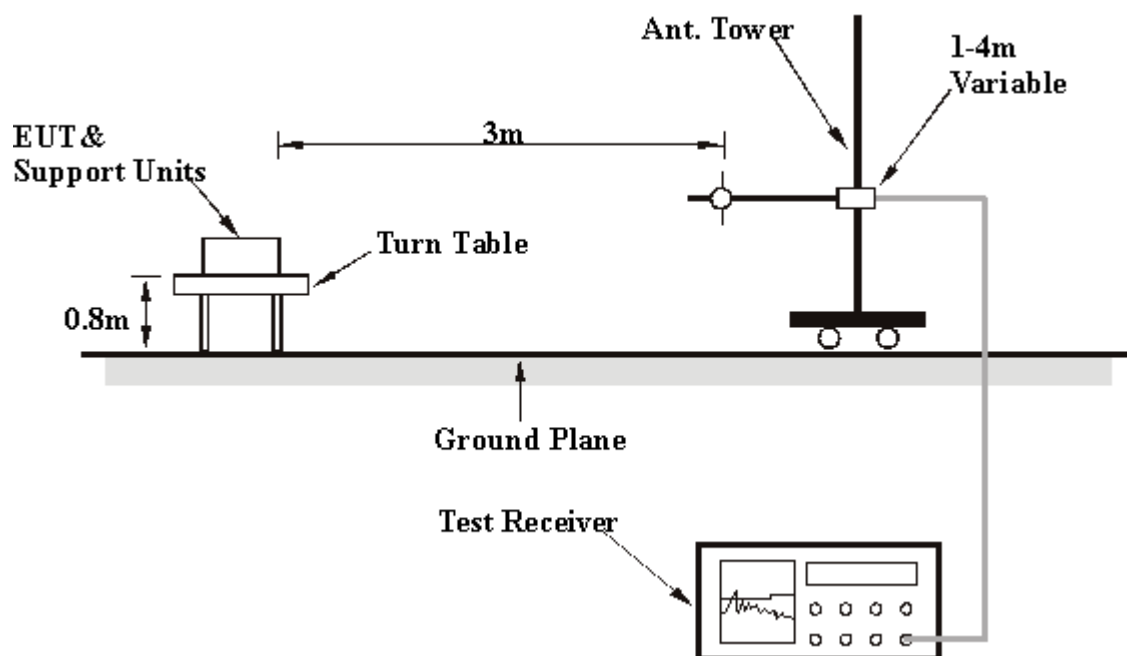
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

#### 4.8.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.8.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

## 4.8.6 TEST RESULTS

|                                 |                                         |                                          |                    |
|---------------------------------|-----------------------------------------|------------------------------------------|--------------------|
| <b>EUT</b>                      | Personal Video Phone                    |                                          |                    |
| <b>TEST MODE</b>                | Ojo Personal Video Phone with Antenna 1 | <b>MODEL</b>                             | Ojo-1000           |
| <b>MODE</b>                     | Channel 9                               | <b>FREQUENCY RANGE</b>                   | 30 ~1000 MHz       |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                           | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Quasi-Peak, 120kHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 62%RH, 980 hPa               | <b>TESTED BY</b>                         | Sky Liao           |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1   | 125.08      | 30.60 QP                | 43.50          | -12.90      | 1.82 H             | 21                   | 18.10            | 12.50                    |
| 2   | 150.05      | 33.60 QP                | 43.50          | -9.90       | 1.62 H             | 285                  | 21.70            | 11.90                    |
| 3   | 250.30      | 41.40 QP                | 46.00          | -4.60       | 1.54 H             | 89                   | 27.40            | 14.00                    |
| 4   | 300.00      | 43.30 QP                | 46.00          | -2.70       | 1.48 H             | 298                  | 28.10            | 15.20                    |
| 5   | 399.99      | 44.70 QP                | 46.00          | -1.30       | 1.00 H             | 13                   | 26.30            | 18.40                    |
| 6   | 499.99      | 40.80 QP                | 46.00          | -5.20       | 1.14 H             | 184                  | 20.10            | 20.70                    |
| 7   | 600.00      | 39.80 QP                | 46.00          | -6.20       | 1.09 H             | 355                  | 17.50            | 22.30                    |
| 8   | 699.99      | 36.30 QP                | 46.00          | -9.70       | 1.73 H             | 1                    | 12.40            | 23.90                    |
| 9   | 799.98      | 29.60 QP                | 46.00          | -16.40      | 1.48 H             | 345                  | 4.00             | 25.60                    |
| 10  | 899.99      | 32.00 QP                | 46.00          | -14.00      | 1.62 H             | 7                    | 4.50             | 27.50                    |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1   | 125.00      | 39.50 QP                | 43.50          | -4.00       | 1.00 V             | 9                    | 27.00            | 12.50                    |
| 2   | 200.00      | 38.20 QP                | 43.50          | -5.30       | 1.00 V             | 1                    | 28.60            | 9.60                     |
| 3   | 300.00      | 43.10 QP                | 46.00          | -2.90       | 1.00 V             | 333                  | 27.90            | 15.20                    |
| 4   | 375.00      | 37.30 QP                | 46.00          | -8.70       | 1.00 V             | 142                  | 19.70            | 17.60                    |
| 5   | 399.99      | 45.00 QP                | 46.00          | -1.00       | 1.25 V             | 314                  | 26.60            | 18.40                    |
| 6   | 450.00      | 41.40 QP                | 46.00          | -4.60       | 1.03 V             | 21                   | 21.90            | 19.50                    |
| 7   | 499.99      | 41.50 QP                | 46.00          | -4.50       | 1.00 V             | 259                  | 20.80            | 20.70                    |
| 8   | 600.00      | 40.70 QP                | 46.00          | -5.30       | 1.00 V             | 339                  | 18.30            | 22.30                    |
| 9   | 699.98      | 36.60 QP                | 46.00          | -9.40       | 1.29 V             | 77                   | 12.70            | 23.90                    |
| 10  | 799.98      | 31.50 QP                | 46.00          | -14.50      | 1.60 V             | 355                  | 5.90             | 25.60                    |
| 11  | 933.30      | 35.20 QP                | 46.00          | -10.80      | 1.74 V             | 180                  | 6.40             | 28.80                    |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.

|                                 |                                         |                                          |                    |
|---------------------------------|-----------------------------------------|------------------------------------------|--------------------|
| <b>EUT</b>                      | Personal Video Phone                    |                                          |                    |
| <b>TEST MODE</b>                | Ojo Personal Video Phone with Antenna 2 | <b>MODEL</b>                             | Ojo-1000           |
| <b>MODE</b>                     | Channel 9                               | <b>FREQUENCY RANGE</b>                   | 30 ~1000 MHz       |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                           | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Quasi-Peak, 120kHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 62%RH, 980 hPa               | <b>TESTED BY</b>                         | Sky Liao           |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1   | 125.00      | 32.10 QP                | 43.50          | -11.40      | 1.76 H             | 64                   | 19.60            | 12.50                    |
| 2   | 150.00      | 34.20 QP                | 43.50          | -9.30       | 1.58 H             | 281                  | 22.30            | 11.90                    |
| 3   | 250.00      | 42.30 QP                | 46.00          | -3.70       | 1.43 H             | 104                  | 28.30            | 14.00                    |
| 4   | 300.00      | 43.60 QP                | 46.00          | -2.40       | 1.56 H             | 308                  | 28.40            | 15.20                    |
| 5   | 399.99      | 44.80 QP                | 46.00          | -1.20       | 1.34 H             | 16                   | 26.40            | 18.40                    |
| 6   | 499.99      | 42.60 QP                | 46.00          | -3.40       | 1.31 H             | 167                  | 21.90            | 20.70                    |
| 7   | 600.00      | 40.60 QP                | 46.00          | -5.40       | 1.12 H             | 359                  | 18.30            | 22.30                    |
| 8   | 699.99      | 37.80 QP                | 46.00          | -8.20       | 1.71 H             | 13                   | 13.90            | 23.90                    |
| 9   | 799.98      | 31.30 QP                | 46.00          | -14.70      | 1.41 H             | 352                  | 5.70             | 25.60                    |
| 10  | 899.99      | 33.40 QP                | 46.00          | -12.60      | 1.59 H             | 351                  | 5.90             | 27.50                    |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1   | 125.00      | 39.80 QP                | 43.50          | -3.70       | 1.00 V             | 9                    | 27.30            | 12.50                    |
| 2   | 200.00      | 38.60 QP                | 43.50          | -4.90       | 1.00 V             | 29                   | 29.00            | 9.60                     |
| 3   | 300.00      | 43.90 QP                | 46.00          | -2.10       | 1.00 V             | 319                  | 28.70            | 15.20                    |
| 4   | 375.00      | 37.10 QP                | 46.00          | -8.90       | 1.00 V             | 132                  | 19.50            | 17.60                    |
| 5   | 399.99      | 45.20 QP                | 46.00          | -0.80       | 1.16 V             | 124                  | 26.80            | 18.40                    |
| 6   | 450.00      | 41.10 QP                | 46.00          | -4.90       | 1.06 V             | 67                   | 21.60            | 19.50                    |
| 7   | 499.99      | 41.90 QP                | 46.00          | -4.10       | 1.02 V             | 224                  | 21.20            | 20.70                    |
| 8   | 600.00      | 40.90 QP                | 46.00          | -5.10       | 1.00 V             | 315                  | 18.60            | 22.30                    |
| 9   | 699.99      | 37.50 QP                | 46.00          | -8.50       | 1.17 V             | 86                   | 13.60            | 23.90                    |
| 10  | 800.00      | 32.80 QP                | 46.00          | -13.20      | 1.13 V             | 347                  | 7.20             | 25.60                    |
| 11  | 933.30      | 36.40 QP                | 46.00          | -9.60       | 1.52 V             | 163                  | 7.60             | 28.80                    |

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.

## 4.8.7 TEST RESULTS (Mode 1)

|                                 |                              |                                          |                                    |
|---------------------------------|------------------------------|------------------------------------------|------------------------------------|
| <b>EUT</b>                      | Personal Video Phone         | <b>MODEL</b>                             | Ojo-1000                           |
| <b>MODE</b>                     | Channel 0                    | <b>FREQUENCY RANGE</b>                   | 1000~25000 MHz                     |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Peak (PK)<br>Average (AV)<br>1 MHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 63%RH,<br>980 hPa | <b>TESTED BY</b>                         | Sky Liao                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                 | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                   | *2419.20    | 113.70 PK               |                |             | 1.29 H             | 124                  | 83.80            | 29.90                    |
| 1                                                   | *2419.20    | 73.80 AV                |                |             | 1.29 H             | 124                  | 43.90            | 29.90                    |
| 2                                                   | 2483.50     | 55.70 PK                | 74.00          | -18.30      | 1.29 H             | 124                  | 25.60            | 30.10                    |
| 2                                                   | 2483.50     | 15.80 AV                | 54.00          | -38.20      | 1.29 H             | 124                  | -14.30           | 30.10                    |
| 3                                                   | 4838.40     | 60.20 PK                | 74.00          | -13.80      | 1.58 H             | 79                   | 23.90            | 36.30                    |
| 3                                                   | 4838.40     | 20.30 AV                | 54.00          | -33.70      | 1.58 H             | 79                   | -16.00           | 36.30                    |
| 4                                                   | 7257.60     | 72.40 PK                | 74.00          | -1.60       | 1.61 H             | 69                   | 30.70            | 41.70                    |
| 4                                                   | 7257.60     | 32.50 AV                | 54.00          | -21.50      | 1.61 H             | 69                   | -9.20            | 41.70                    |
| 5                                                   | 9676.80     | 61.20 PK                | 74.00          | -12.80      | 1.55 H             | 272                  | 16.40            | 44.80                    |
| 5                                                   | 9676.80     | 21.30 AV                | 54.00          | -32.70      | 1.55 H             | 272                  | -23.50           | 44.80                    |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                               | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                 | *2419.20    | 111.80 PK               |                |             | 1.08 V             | 291                  | 81.90            | 29.90                    |
| 1                                                 | *2419.20    | 71.90 AV                |                |             | 1.08 V             | 291                  | 42.00            | 29.90                    |
| 2                                                 | 2483.50     | 53.80 PK                | 74.00          | -20.20      | 1.08 V             | 291                  | 23.70            | 30.10                    |
| 2                                                 | 2483.50     | 13.90 AV                | 54.00          | -40.10      | 1.08 V             | 291                  | -16.20           | 30.10                    |
| 3                                                 | 4838.40     | 63.10 PK                | 74.00          | -10.90      | 1.05 V             | 264                  | 26.80            | 36.30                    |
| 3                                                 | 4838.40     | 23.20 AV                | 54.00          | -30.80      | 1.05 V             | 264                  | -13.10           | 36.30                    |
| 4                                                 | 7257.60     | 72.60 PK                | 74.00          | -1.40       | 1.81 V             | 105                  | 30.90            | 41.70                    |
| 4                                                 | 7257.60     | 32.70 AV                | 54.00          | -21.30      | 1.81 V             | 105                  | -9.00            | 41.70                    |
| 5                                                 | 9676.80     | 62.10 PK                | 74.00          | -11.90      | 1.06 V             | 22                   | 17.30            | 44.80                    |
| 5                                                 | 9676.80     | 22.20 AV                | 54.00          | -31.80      | 1.06 V             | 22                   | -22.60           | 44.80                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. " \* " : Fundamental frequency
5. The other emission levels were very low against the limit.

|                                 |                              |                                          |                                    |
|---------------------------------|------------------------------|------------------------------------------|------------------------------------|
| <b>EUT</b>                      | Personal Video Phone         | <b>MODEL</b>                             | Ojo-1000                           |
| <b>MODE</b>                     | Channel 5                    | <b>FREQUENCY RANGE</b>                   | 1000~25000 MHz                     |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Peak (PK)<br>Average (AV)<br>1 MHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 63%RH,<br>980 hPa | <b>TESTED BY</b>                         | Sky Liao                           |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1   | *2410.50    | 109.50 PK               |                |             | 1.16 H             | 204                  | 79.60            | 29.90                    |
| 1   | *2410.50    | 69.60 AV                |                |             | 1.16 H             | 204                  | 39.70            | 29.90                    |
| 2   | 4821.12     | 64.30 PK                | 74.00          | -9.70       | 1.41 H             | 54                   | 28.10            | 36.20                    |
| 2   | 4821.12     | 24.40 AV                | 54.00          | -29.60      | 1.41 H             | 54                   | -11.80           | 36.20                    |
| 3   | 7231.68     | 71.60 PK                | 74.00          | -2.40       | 1.17 H             | 309                  | 29.90            | 41.70                    |
| 3   | 7231.68     | 31.70 AV                | 54.00          | -22.30      | 1.17 H             | 309                  | -10.00           | 41.70                    |
| 4   | 9642.24     | 65.30 PK                | 74.00          | -8.70       | 1.17 H             | 248                  | 20.40            | 44.90                    |
| 4   | 9642.24     | 25.40 AV                | 54.00          | -28.60      | 1.17 H             | 248                  | -19.50           | 44.90                    |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No.      | Freq. (MHz)    | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB)  | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----------|----------------|-------------------------|----------------|--------------|--------------------|----------------------|------------------|--------------------------|
| 1        | *2410.50       | 110.90 PK               |                |              | 1.31 V             | 122                  | 81.00            | 29.90                    |
| 1        | *2410.50       | 71.00 AV                |                |              | 1.31 V             | 122                  | 41.10            | 29.90                    |
| 2        | 4821.12        | 63.00 PK                | 74.00          | -11.00       | 1.37 V             | 12                   | 26.80            | 36.20                    |
| 2        | 4821.12        | 23.10 AV                | 54.00          | -30.90       | 1.37 V             | 12                   | -13.10           | 36.20                    |
| <b>3</b> | <b>7231.68</b> | <b>73.70 PK</b>         | <b>74.00</b>   | <b>-0.30</b> | <b>2.02 V</b>      | <b>313</b>           | <b>32.00</b>     | <b>41.70</b>             |
| 3        | 7231.68        | 33.80 AV                | 54.00          | -20.20       | 2.02 V             | 313                  | -7.90            | 41.70                    |
| 4        | 9642.24        | 67.60 PK                | 74.00          | -6.40        | 1.52 V             | 291                  | 22.70            | 44.90                    |
| 4        | 9642.24        | 27.70 AV                | 54.00          | -26.30       | 1.52 V             | 291                  | -17.20           | 44.90                    |

#### REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. " \* " : Fundamental frequency
5. The other emission levels were very low against the limit.

|                                 |                              |                                          |                                    |
|---------------------------------|------------------------------|------------------------------------------|------------------------------------|
| <b>EUT</b>                      | Personal Video Phone         | <b>MODEL</b>                             | Ojo-1000                           |
| <b>MODE</b>                     | Channel 9                    | <b>FREQUENCY RANGE</b>                   | 1000~25000 MHz                     |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Peak (PK)<br>Average (AV)<br>1 MHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 63%RH,<br>980 hPa | <b>TESTED BY</b>                         | Sky Liao                           |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                            | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                              | 2390.00     | 51.80 PK                | 74.00          | -22.20      | 1.36 H             | 286                  | 18.00            | 33.80                    |
| 1                                                              | 2390.00     | 11.90 AV                | 54.00          | -42.10      | 1.36 H             | 286                  | -21.90           | 33.80                    |
| 2                                                              | *2403.64    | 109.80 PK               |                |             | 1.36 H             | 286                  | 79.90            | 29.90                    |
| 2                                                              | *2403.64    | 69.90 AV                |                |             | 1.36 H             | 286                  | 40.00            | 29.90                    |
| 3                                                              | 4807.20     | 61.90 PK                | 74.00          | -12.10      | 1.00 H             | 36                   | 25.70            | 36.20                    |
| 3                                                              | 4807.20     | 22.00 AV                | 54.00          | -32.00      | 1.00 H             | 36                   | -14.20           | 36.20                    |
| 4                                                              | 7210.90     | 72.30 PK                | 74.00          | -1.70       | 1.36 H             | 58                   | 30.70            | 41.60                    |
| 4                                                              | 7210.90     | 32.40 AV                | 54.00          | -21.60      | 1.36 H             | 58                   | -9.20            | 41.60                    |
| 5                                                              | 9614.56     | 63.50 PK                | 74.00          | -10.50      | 1.59 H             | 261                  | 18.50            | 45.00                    |
| 5                                                              | 9614.56     | 23.60 AV                | 54.00          | -30.40      | 1.59 H             | 261                  | -21.40           | 45.00                    |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                          | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                            | 2390.00     | 54.00 PK                | 74.00          | -20.00      | 1.32 V             | 128                  | 20.20            | 33.80                    |
| 1                                                            | 2390.00     | 14.10 AV                | 54.00          | -39.90      | 1.32 V             | 128                  | -19.70           | 33.80                    |
| 2                                                            | *2403.64    | 112.00 PK               |                |             | 1.32 V             | 128                  | 82.10            | 29.90                    |
| 2                                                            | *2403.64    | 72.10 AV                |                |             | 1.32 V             | 128                  | 42.20            | 29.90                    |
| 3                                                            | 4807.20     | 61.50 PK                | 74.00          | -12.50      | 1.27 V             | 276                  | 25.30            | 36.20                    |
| 3                                                            | 4807.20     | 21.60 AV                | 54.00          | -32.40      | 1.27 V             | 276                  | -14.60           | 36.20                    |
| 4                                                            | 7210.90     | 73.30 PK                | 74.00          | -0.70       | 1.03 V             | 116                  | 31.70            | 41.60                    |
| 4                                                            | 7210.90     | 33.40 AV                | 54.00          | -20.60      | 1.03 V             | 116                  | -8.20            | 41.60                    |
| 5                                                            | 9614.50     | 65.20 PK                | 74.00          | -8.80       | 1.69 V             | 322                  | 20.20            | 45.00                    |
| 5                                                            | 9614.50     | 25.30 AV                | 54.00          | -28.70      | 1.69 V             | 322                  | -19.70           | 45.00                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. " \* " : Fundamental frequency
5. The other emission levels were very low against the limit.

## 4.8.8 TEST RESULTS (Mode 2)

|                                 |                              |                                          |                                    |
|---------------------------------|------------------------------|------------------------------------------|------------------------------------|
| <b>EUT</b>                      | Personal Video Phone         | <b>MODEL</b>                             | Ojo-1000                           |
| <b>MODE</b>                     | Channel 0                    | <b>FREQUENCY RANGE</b>                   | 1000~25000 MHz                     |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Peak (PK)<br>Average (AV)<br>1 MHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 63%RH,<br>980 hPa | <b>TESTED BY</b>                         | Sky Liao                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                 | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                   | *2419.20    | 108.40 PK               |                |             | 1.43 H             | 336                  | 78.50            | 29.90                    |
| 1                                                   | *2419.20    | 68.50 AV                |                |             | 1.43 H             | 336                  | 38.60            | 29.90                    |
| 2                                                   | 2483.50     | 53.40 PK                | 74.00          | -20.60      | 1.43 H             | 336                  | 23.30            | 30.10                    |
| 2                                                   | 2483.50     | 13.50 AV                | 54.00          | -40.50      | 1.43 H             | 336                  | -16.60           | 30.10                    |
| 3                                                   | 4838.40     | 63.00 PK                | 74.00          | -11.00      | 1.57 H             | 81                   | 26.70            | 36.30                    |
| 3                                                   | 4838.40     | 23.10 AV                | 54.00          | -30.90      | 1.57 H             | 81                   | -13.20           | 36.30                    |
| 4                                                   | 7257.60     | 69.00 PK                | 74.00          | -5.00       | 1.87 H             | 133                  | 27.30            | 41.70                    |
| 4                                                   | 7257.60     | 29.10 AV                | 54.00          | -24.90      | 1.87 H             | 133                  | -12.60           | 41.70                    |
| 5                                                   | 9676.80     | 63.80 PK                | 74.00          | -10.20      | 1.56 H             | 275                  | 19.00            | 44.80                    |
| 5                                                   | 9676.80     | 23.90 AV                | 54.00          | -30.10      | 1.56 H             | 275                  | -20.90           | 44.80                    |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                               | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                 | *2419.20    | 105.30 PK               |                |             | 1.46 V             | 283                  | 75.40            | 29.90                    |
| 1                                                 | *2419.20    | 65.40 AV                |                |             | 1.46 V             | 283                  | 35.50            | 29.90                    |
| 2                                                 | 2483.50     | 50.30 PK                | 74.00          | -23.70      | 1.46 V             | 283                  | 20.20            | 30.10                    |
| 2                                                 | 2483.50     | 10.40 AV                | 54.00          | -43.60      | 1.46 V             | 283                  | -19.70           | 30.10                    |
| 3                                                 | 4838.40     | 65.50 PK                | 74.00          | -8.50       | 1.03 V             | 265                  | 29.20            | 36.30                    |
| 3                                                 | 4838.40     | 25.60 AV                | 54.00          | -28.40      | 1.03 V             | 265                  | -10.70           | 36.30                    |
| 4                                                 | 7257.60     | 72.40 PK                | 74.00          | -1.60       | 1.00 V             | 314                  | 30.70            | 41.70                    |
| 4                                                 | 7257.60     | 32.50 AV                | 54.00          | -21.50      | 1.00 V             | 314                  | -9.20            | 41.70                    |
| 5                                                 | 9676.80     | 64.10 PK                | 74.00          | -9.90       | 1.05 V             | 27                   | 19.30            | 44.80                    |
| 5                                                 | 9676.80     | 24.20 AV                | 54.00          | -29.80      | 1.05 V             | 27                   | -20.60           | 44.80                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. “ \* ” : Fundamental frequency
5. The other emission levels were very low against the limit.

|                                 |                              |                                          |                                    |
|---------------------------------|------------------------------|------------------------------------------|------------------------------------|
| <b>EUT</b>                      | Personal Video Phone         | <b>MODEL</b>                             | Ojo-1000                           |
| <b>MODE</b>                     | Channel 5                    | <b>FREQUENCY RANGE</b>                   | 1000~25000 MHz                     |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Peak (PK)<br>Average (AV)<br>1 MHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 63%RH,<br>980 hPa | <b>TESTED BY</b>                         | Sky Liao                           |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                            | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                              | *2410.56    | 110.80 PK               |                |             | 1.31 H             | 147                  | 80.90            | 29.90                    |
| 1                                                              | *2410.56    | 70.90 AV                |                |             | 1.31 H             | 147                  | 41.00            | 29.90                    |
| 2                                                              | 4821.12     | 65.80 PK                | 74.00          | -8.20       | 1.44 H             | 64                   | 29.60            | 36.20                    |
| 2                                                              | 4821.12     | 25.90 AV                | 54.00          | -28.10      | 1.44 H             | 64                   | -10.30           | 36.20                    |
| 3                                                              | 7231.68     | 72.30 PK                | 74.00          | -1.70       | 1.29 H             | 44                   | 30.60            | 41.70                    |
| 3                                                              | 7231.68     | 32.40 AV                | 54.00          | -21.60      | 1.29 H             | 44                   | -9.30            | 41.70                    |
| 4                                                              | 9642.24     | 66.40 PK                | 74.00          | -7.60       | 1.21 H             | 250                  | 21.50            | 44.90                    |
| 4                                                              | 9642.24     | 26.50 AV                | 54.00          | -27.50      | 1.21 H             | 250                  | -18.40           | 44.90                    |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                          | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                            | *2410.56    | 106.60 PK               |                |             | 1.12 V             | 292                  | 76.70            | 29.90                    |
| 1                                                            | *2410.56    | 66.70 AV                |                |             | 1.12 V             | 292                  | 36.80            | 29.90                    |
| 2                                                            | 4821.12     | 60.60 PK                | 74.00          | -13.40      | 1.22 V             | 208                  | 24.40            | 36.20                    |
| 2                                                            | 4821.12     | 21.10 AV                | 54.00          | -32.90      | 1.22 V             | 208                  | -15.10           | 36.20                    |
| 3                                                            | 7231.68     | 72.70 PK                | 74.00          | -1.30       | 1.86 V             | 79                   | 31.00            | 41.70                    |
| 3                                                            | 7231.68     | 32.80 AV                | 54.00          | -21.20      | 1.86 V             | 79                   | -8.90            | 41.70                    |
| 4                                                            | 9642.24     | 67.00 PK                | 74.00          | -7.00       | 1.57 V             | 286                  | 22.10            | 44.90                    |
| 4                                                            | 9642.24     | 27.10 AV                | 54.00          | -26.90      | 1.57 V             | 286                  | -17.80           | 44.90                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. " \* " : Fundamental frequency
5. The other emission levels were very low against the limit.

|                                 |                              |                                          |                                    |
|---------------------------------|------------------------------|------------------------------------------|------------------------------------|
| <b>EUT</b>                      | Personal Video Phone         | <b>MODEL</b>                             | Ojo-1000                           |
| <b>MODE</b>                     | Channel 9                    | <b>FREQUENCY RANGE</b>                   | 1000~25000 MHz                     |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Peak (PK)<br>Average (AV)<br>1 MHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 63%RH,<br>980 hPa | <b>TESTED BY</b>                         | Sky Liao                           |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                            | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                              | 2390.00     | 54.10 PK                | 74.00          | -19.90      | 1.75 H             | 335                  | 20.30            | 33.80                    |
| 1                                                              | 2390.00     | 14.20 AV                | 54.00          | -39.80      | 1.75 H             | 335                  | -19.60           | 33.80                    |
| 2                                                              | *2403.64    | 109.10 PK               |                |             | 1.75 H             | 335                  | 79.20            | 29.90                    |
| 2                                                              | *2403.64    | 69.20 AV                |                |             | 1.75 H             | 335                  | 39.30            | 29.90                    |
| 3                                                              | 4807.20     | 64.50 PK                | 74.00          | -9.50       | 1.52 H             | 31                   | 28.30            | 36.20                    |
| 3                                                              | 4807.20     | 24.60 AV                | 54.00          | -29.40      | 1.52 H             | 31                   | -11.60           | 36.20                    |
| 4                                                              | 7210.92     | 72.00 PK                | 74.00          | -2.00       | 1.46 H             | 115                  | 30.40            | 41.60                    |
| 4                                                              | 7210.92     | 32.10 AV                | 54.00          | -21.90      | 1.46 H             | 115                  | -9.50            | 41.60                    |
| 5                                                              | 9614.56     | 65.70 PK                | 74.00          | -8.30       | 1.54 H             | 262                  | 20.70            | 45.00                    |
| 5                                                              | 9614.56     | 25.80 AV                | 54.00          | -28.20      | 1.54 H             | 262                  | -19.20           | 45.00                    |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                          | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                            | 2390.00     | 52.90 PK                | 74.00          | -21.10      | 1.00 V             | 292                  | 19.10            | 33.80                    |
| 1                                                            | 2390.00     | 13.00 AV                | 54.00          | -41.00      | 1.00 V             | 292                  | -20.80           | 33.80                    |
| 2                                                            | *2403.64    | 107.90 PK               |                |             | 1.00 V             | 292                  | 78.00            | 29.90                    |
| 2                                                            | *2403.64    | 68.00 AV                |                |             | 1.00 V             | 292                  | 38.10            | 29.90                    |
| 3                                                            | 4807.20     | 64.10 PK                | 74.00          | -9.90       | 1.24 V             | 280                  | 27.90            | 36.20                    |
| 3                                                            | 4807.20     | 21.60 AV                | 54.00          | -32.40      | 1.24 V             | 280                  | -14.60           | 36.20                    |
| 4                                                            | 7210.92     | 73.30 PK                | 74.00          | -0.70       | 1.00 V             | 106                  | 31.70            | 41.60                    |
| 4                                                            | 7210.92     | 33.40 AV                | 54.00          | -20.60      | 1.00 V             | 106                  | -8.20            | 41.60                    |
| 5                                                            | 9614.50     | 67.30 PK                | 74.00          | -6.70       | 1.64 V             | 321                  | 22.30            | 45.00                    |
| 5                                                            | 9614.50     | 27.40 AV                | 54.00          | -26.60      | 1.64 V             | 321                  | -17.60           | 45.00                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. " \* " : Fundamental frequency
5. The other emission levels were very low against the limit.

## 4.8.9 TEST RESULTS (Mode 3)

|                                 |                              |                                          |                                    |
|---------------------------------|------------------------------|------------------------------------------|------------------------------------|
| <b>EUT</b>                      | Personal Video Phone         | <b>MODEL</b>                             | Ojo-1000                           |
| <b>MODE</b>                     | Channel 0                    | <b>FREQUENCY RANGE</b>                   | 1000~25000 MHz                     |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Peak (PK)<br>Average (AV)<br>1 MHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 19 deg. C, 59%RH,<br>980 hPa | <b>TESTED BY</b>                         | Sky Liao                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                 | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                   | *2419.20    | 107.10 PK               |                |             | 1.13 H             | 315                  | 77.20            | 29.90                    |
| 1                                                   | *2419.20    | 67.40 AV                |                |             | 1.13 H             | 315                  | 37.50            | 29.90                    |
| 2                                                   | 2483.50     | 52.20 PK                | 74.00          | -21.80      | 1.13 H             | 315                  | 22.10            | 30.10                    |
| 2                                                   | 2483.50     | 12.30 AV                | 54.00          | -41.70      | 1.13 H             | 315                  | -17.80           | 30.10                    |
| 3                                                   | 4838.40     | 60.80 PK                | 74.00          | -13.20      | 1.73 H             | 101                  | 24.50            | 36.30                    |
| 3                                                   | 4838.40     | 21.70 AV                | 54.00          | -32.30      | 1.73 H             | 101                  | -14.60           | 36.30                    |
| 4                                                   | 7257.60     | 67.60 PK                | 74.00          | -6.40       | 1.68 H             | 112                  | 25.90            | 41.70                    |
| 4                                                   | 7257.60     | 27.60 AV                | 54.00          | -26.40      | 1.68 H             | 112                  | -14.10           | 41.70                    |
| 5                                                   | 9676.80     | 62.40 PK                | 74.00          | -11.60      | 1.75 H             | 247                  | 17.60            | 44.80                    |
| 5                                                   | 9676.80     | 22.60 AV                | 54.00          | -31.40      | 1.75 H             | 247                  | -22.20           | 44.80                    |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                               | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                 | *2419.20    | 104.00 PK               |                |             | 1.44 V             | 269                  | 74.10            | 29.90                    |
| 1                                                 | *2419.20    | 64.20 AV                |                |             | 1.44 V             | 269                  | 34.30            | 29.90                    |
| 2                                                 | 2483.50     | 49.70 PK                | 74.00          | -24.30      | 1.44 V             | 269                  | 19.60            | 30.10                    |
| 2                                                 | 2483.50     | 9.60 AV                 | 54.00          | -44.40      | 1.44 V             | 269                  | -20.50           | 30.10                    |
| 3                                                 | 4838.40     | 64.90 PK                | 74.00          | -9.10       | 1.07 V             | 246                  | 28.60            | 36.30                    |
| 3                                                 | 4838.40     | 24.50 AV                | 54.00          | -29.50      | 1.07 V             | 246                  | -11.80           | 36.30                    |
| 4                                                 | 7257.60     | 71.00 PK                | 74.00          | -3.00       | 1.02 V             | 296                  | 29.30            | 41.70                    |
| 4                                                 | 7257.60     | 31.60 AV                | 54.00          | -22.40      | 1.02 V             | 296                  | -10.10           | 41.70                    |
| 5                                                 | 9676.80     | 63.90 PK                | 74.00          | -10.10      | 1.08 V             | 36                   | 19.10            | 44.80                    |
| 5                                                 | 9676.80     | 23.90 AV                | 54.00          | -30.10      | 1.08 V             | 36                   | -20.90           | 44.80                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. “ \* ” : Fundamental frequency
5. The other emission levels were very low against the limit.

|                                 |                              |                                          |                                    |
|---------------------------------|------------------------------|------------------------------------------|------------------------------------|
| <b>EUT</b>                      | Personal Video Phone         | <b>MODEL</b>                             | Ojo-1000                           |
| <b>MODE</b>                     | Channel 5                    | <b>FREQUENCY RANGE</b>                   | 1000~25000 MHz                     |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Peak (PK)<br>Average (AV)<br>1 MHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 19 deg. C, 59%RH,<br>980 hPa | <b>TESTED BY</b>                         | Sky Liao                           |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                            | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                              | *2410.56    | 109.80 PK               |                |             | 1.24 H             | 145                  | 79.90            | 29.90                    |
| 1                                                              | *2410.56    | 70.20 AV                |                |             | 1.24 H             | 145                  | 40.30            | 29.90                    |
| 2                                                              | 4821.12     | 65.00 PK                | 74.00          | -9.00       | 1.36 H             | 76                   | 28.80            | 36.20                    |
| 2                                                              | 4821.12     | 25.30 AV                | 54.00          | -28.70      | 1.36 H             | 76                   | -10.90           | 36.20                    |
| 3                                                              | 7231.68     | 71.60 PK                | 74.00          | -2.40       | 1.22 H             | 56                   | 29.90            | 41.70                    |
| 3                                                              | 7231.68     | 31.60 AV                | 54.00          | -22.40      | 1.22 H             | 56                   | -10.10           | 41.70                    |
| 4                                                              | 9642.24     | 65.70 PK                | 74.00          | -8.30       | 1.24 H             | 247                  | 20.80            | 44.90                    |
| 4                                                              | 9642.24     | 26.00 AV                | 54.00          | -28.00      | 1.24 H             | 247                  | -18.90           | 44.90                    |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                          | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                            | *2410.56    | 105.70 PK               |                |             | 1.11 V             | 291                  | 75.80            | 29.90                    |
| 1                                                            | *2410.56    | 65.80 AV                |                |             | 1.11 V             | 291                  | 35.90            | 29.90                    |
| 2                                                            | 4821.12     | 60.00 PK                | 74.00          | -14.00      | 1.20 V             | 217                  | 23.80            | 36.20                    |
| 2                                                            | 4821.12     | 20.50 AV                | 54.00          | -33.50      | 1.20 V             | 217                  | -15.70           | 36.20                    |
| 3                                                            | 7231.68     | 71.90 PK                | 74.00          | -2.10       | 1.72 V             | 66                   | 30.20            | 41.70                    |
| 3                                                            | 7231.68     | 32.30 AV                | 54.00          | -21.70      | 1.72 V             | 66                   | -9.40            | 41.70                    |
| 4                                                            | 9642.24     | 66.30 PK                | 74.00          | -7.70       | 1.52 V             | 268                  | 21.40            | 44.90                    |
| 4                                                            | 9642.24     | 26.50 AV                | 54.00          | -27.50      | 1.52 V             | 268                  | -18.40           | 44.90                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. " \* " : Fundamental frequency
5. The other emission levels were very low against the limit.

|                                 |                              |                                          |                                    |
|---------------------------------|------------------------------|------------------------------------------|------------------------------------|
| <b>EUT</b>                      | Personal Video Phone         | <b>MODEL</b>                             | Ojo-1000                           |
| <b>MODE</b>                     | Channel 9                    | <b>FREQUENCY RANGE</b>                   | 1000~25000 MHz                     |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                | <b>DETECTOR FUNCTION &amp; BANDWIDTH</b> | Peak (PK)<br>Average (AV)<br>1 MHz |
| <b>ENVIRONMENTAL CONDITIONS</b> | 19 deg. C, 59%RH,<br>980 hPa | <b>TESTED BY</b>                         | Sky Liao                           |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                            | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                              | 2390.00     | 53.90 PK                | 74.00          | -20.10      | 1.72 H             | 324                  | 20.10            | 33.80                    |
| 1                                                              | 2390.00     | 14.70 AV                | 54.00          | -39.30      | 1.72 H             | 324                  | -19.10           | 33.80                    |
| 2                                                              | *2403.64    | 108.80 PK               |                |             | 1.72 H             | 324                  | 78.90            | 29.90                    |
| 2                                                              | *2403.64    | 68.70 AV                |                |             | 1.72 H             | 324                  | 38.80            | 29.90                    |
| 3                                                              | 4807.20     | 63.90 PK                | 74.00          | -10.10      | 1.47 H             | 49                   | 27.70            | 36.20                    |
| 3                                                              | 4807.20     | 24.10 AV                | 54.00          | -29.90      | 1.47 H             | 49                   | -12.10           | 36.20                    |
| 4                                                              | 7210.92     | 71.70 PK                | 74.00          | -2.30       | 1.44 H             | 119                  | 30.10            | 41.60                    |
| 4                                                              | 7210.92     | 31.80 AV                | 54.00          | -22.20      | 1.44 H             | 119                  | -9.80            | 41.60                    |
| 5                                                              | 9614.56     | 65.10 PK                | 74.00          | -8.90       | 1.57 H             | 249                  | 20.10            | 45.00                    |
| 5                                                              | 9614.56     | 25.40 AV                | 54.00          | -28.60      | 1.57 H             | 249                  | -19.60           | 45.00                    |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                          | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                            | 2390.00     | 52.40 PK                | 74.00          | -21.60      | 1.00 V             | 289                  | 18.60            | 33.80                    |
| 1                                                            | 2390.00     | 12.40 AV                | 54.00          | -41.60      | 1.00 V             | 289                  | -21.40           | 33.80                    |
| 2                                                            | *2403.64    | 107.40 PK               |                |             | 1.00 V             | 289                  | 77.50            | 29.90                    |
| 2                                                            | *2403.64    | 67.60 AV                |                |             | 1.00 V             | 289                  | 37.70            | 29.90                    |
| 3                                                            | 4807.20     | 63.30 PK                | 74.00          | -10.70      | 1.21 V             | 269                  | 27.10            | 36.20                    |
| 3                                                            | 4807.20     | 20.80 AV                | 54.00          | -33.20      | 1.21 V             | 269                  | -15.40           | 36.20                    |
| 4                                                            | 7210.92     | 72.40 PK                | 74.00          | -1.60       | 1.00 V             | 112                  | 30.80            | 41.60                    |
| 4                                                            | 7210.92     | 32.80 AV                | 54.00          | -21.20      | 1.00 V             | 112                  | -8.80            | 41.60                    |
| 5                                                            | 9614.50     | 66.80 PK                | 74.00          | -7.20       | 1.61 V             | 302                  | 21.80            | 45.00                    |
| 5                                                            | 9614.50     | 26.70 AV                | 54.00          | -27.30      | 1.61 V             | 302                  | -18.30           | 45.00                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. Margin value = Emission level - Limit value
4. " \* " : Fundamental frequency
5. The other emission levels were very low against the limit.

## 4.9 BAND EDGES MEASUREMENT

### 4.9.1 LIMITS OF BAND EDGES MEASUREMENT

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

### 4.9.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| R&S SPECTRUM ANALYZER      | FSP40     | 100036     | Nov. 23, 2005    |

**NOTE:**

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.9.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

### 4.9.4 DEVIATION FROM TEST STANDARD

No deviation

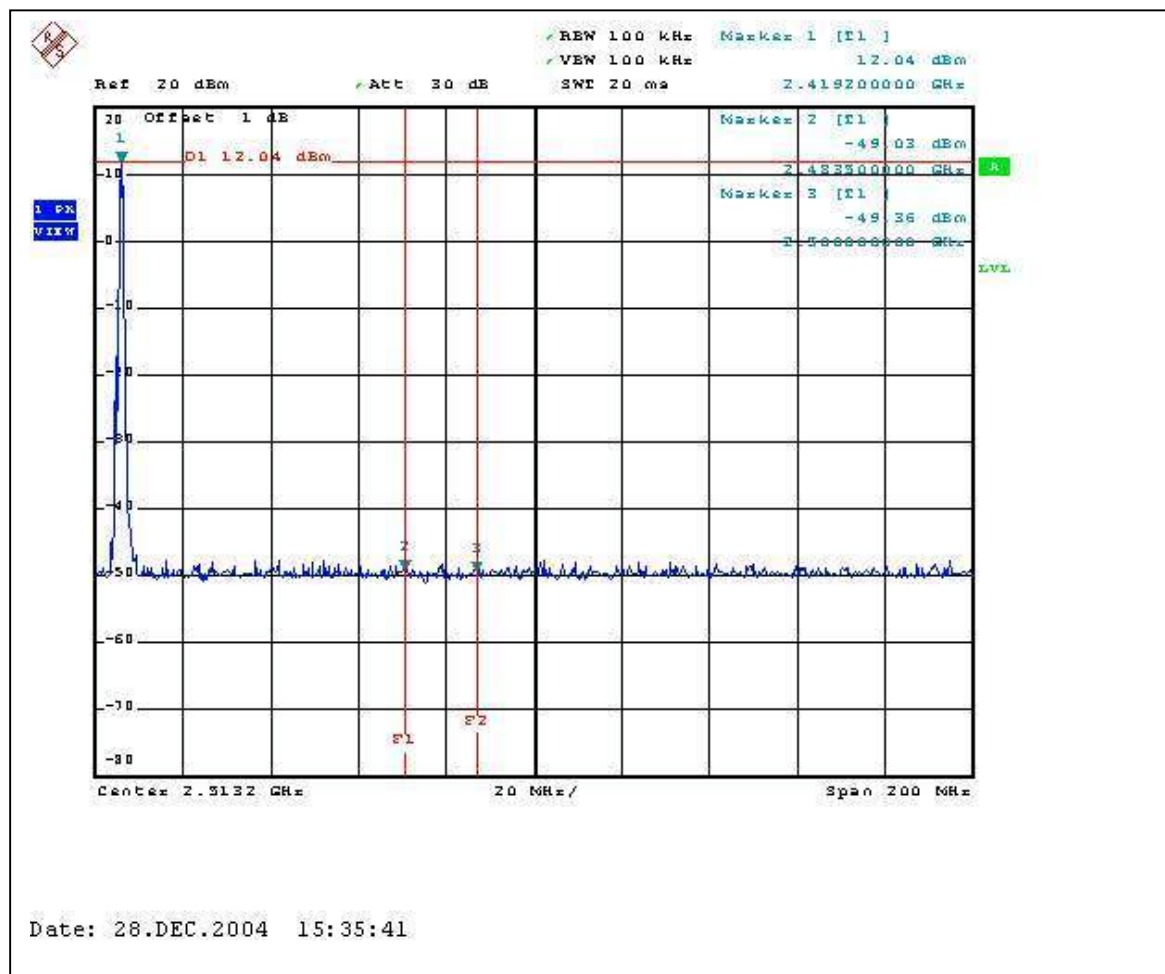
### 4.9.5 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

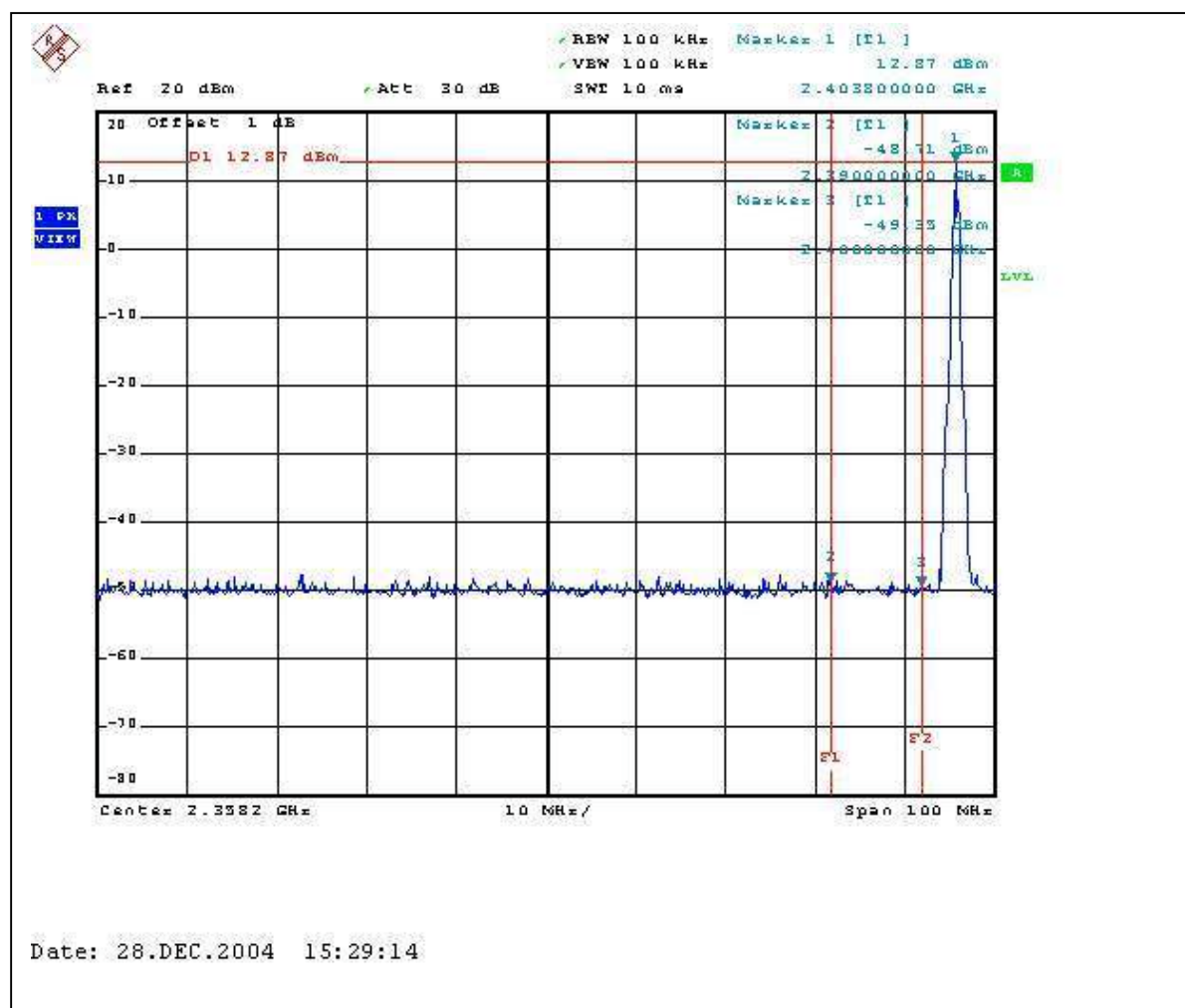
#### 4.9.6 TEST RESULTS (Ojo Personal Video Phone with Antenna 1)

Emissions radiated outside of the specified frequency bands, please refer pages form 13 to 21 for met the requirement of the general radiated emission limits in § 15.209.

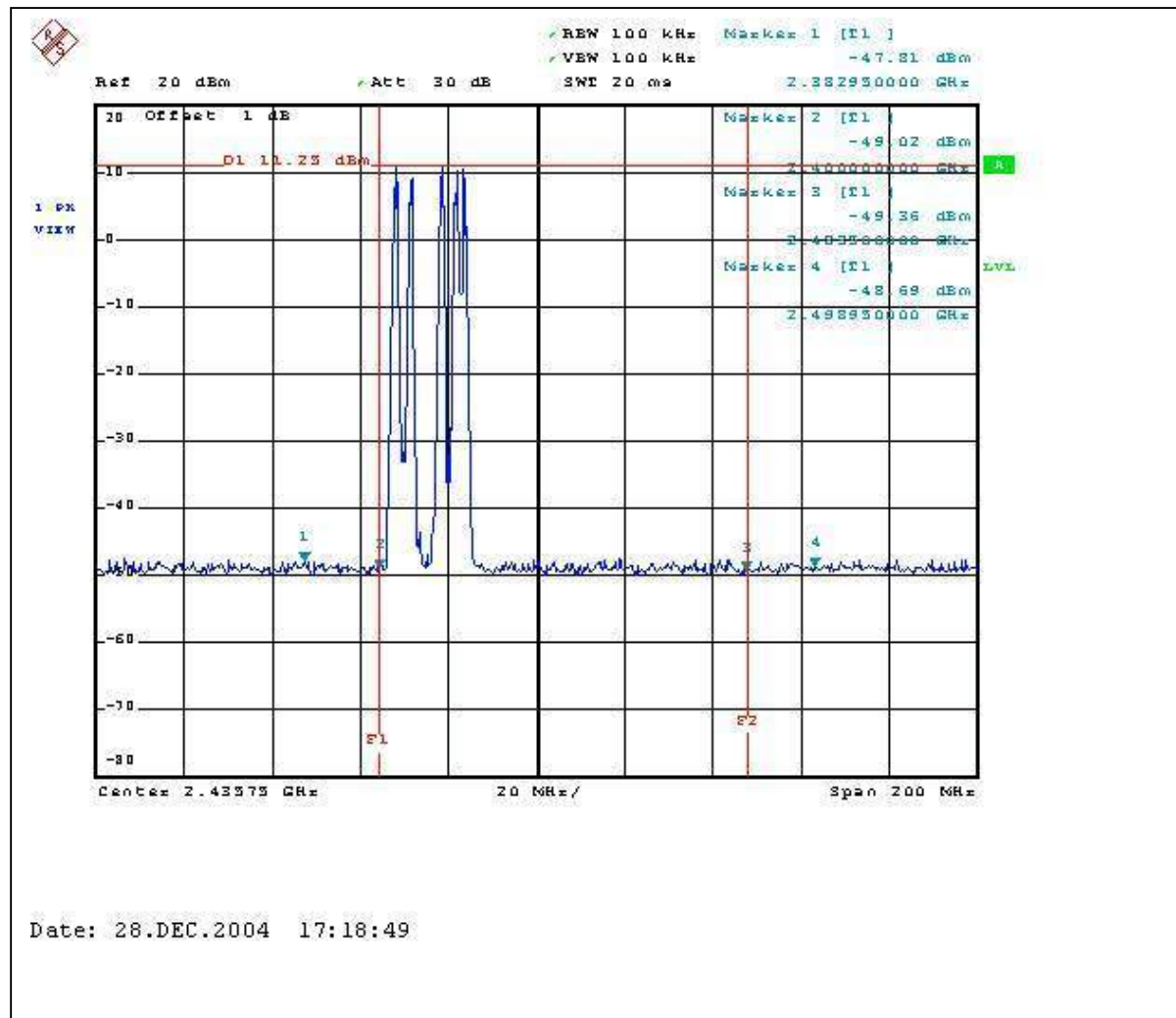
#### Static-CH 0



## Static-CH 9



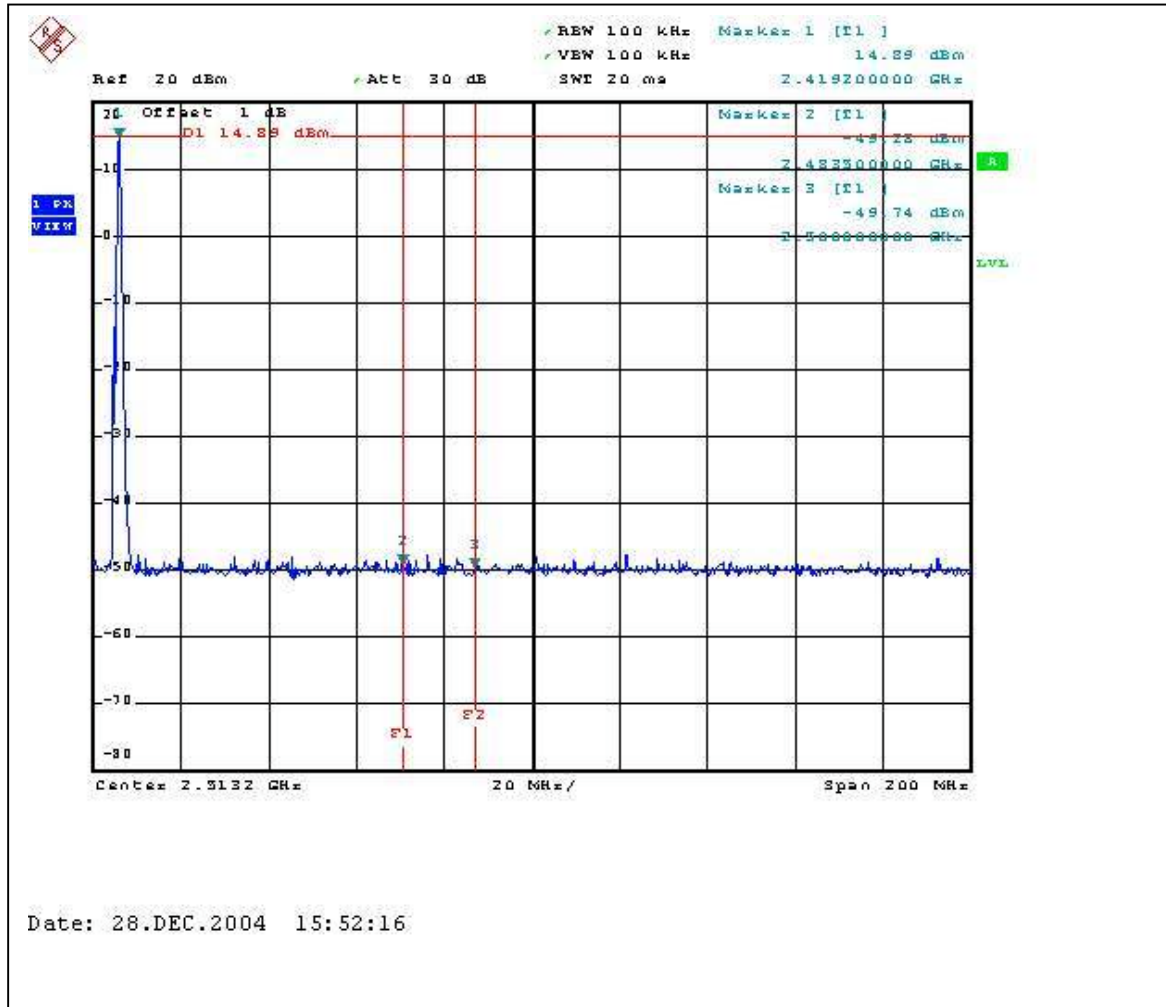
## Dynamic



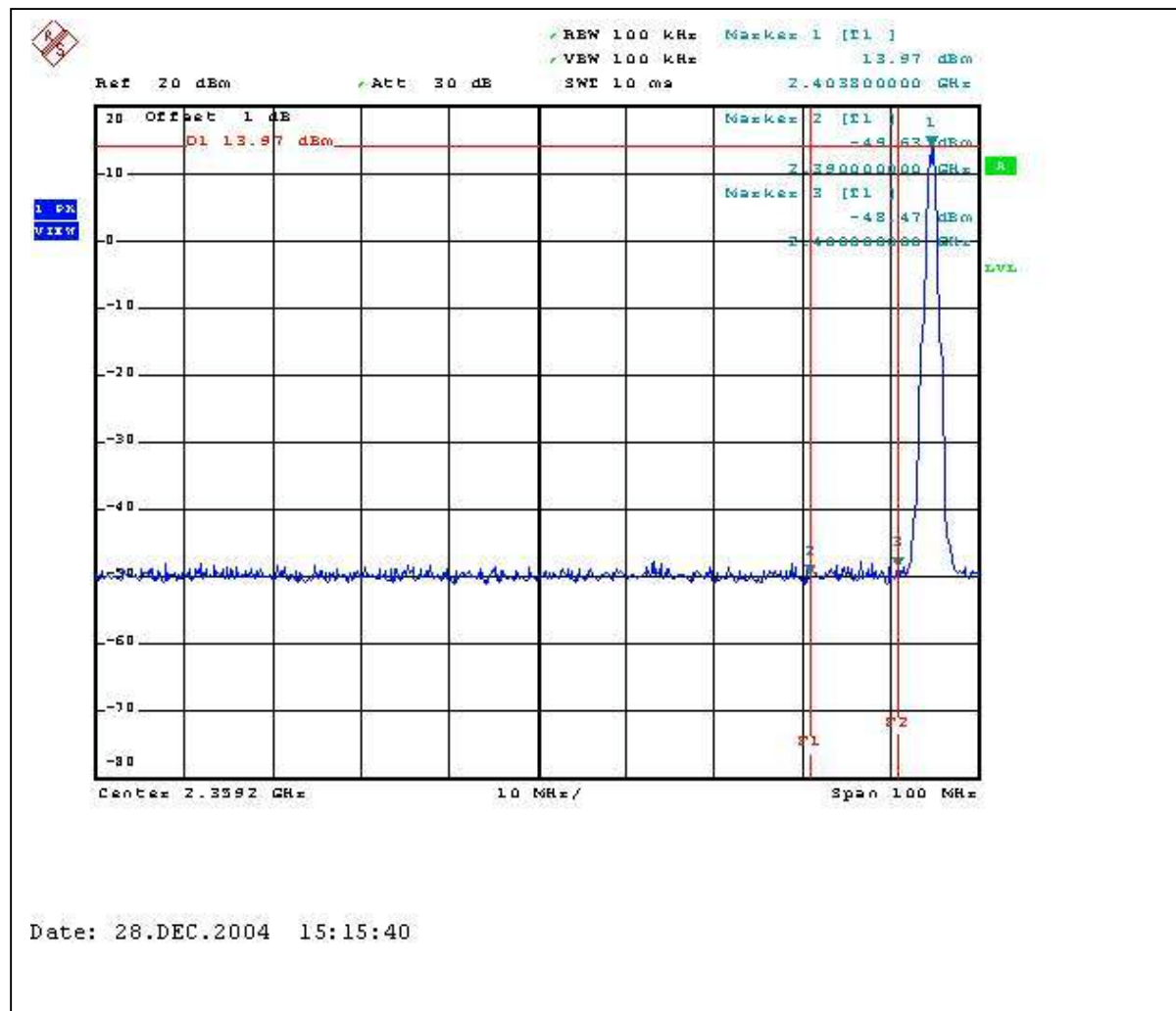
#### 4.9.7 TEST RESULTS (Ojo Personal Video Phone with Antenna 2)

Emissions radiated outside of the specified frequency bands, please refer pages form 13 to 21 for met the requirement of the general radiated emission limits in § 15.209.

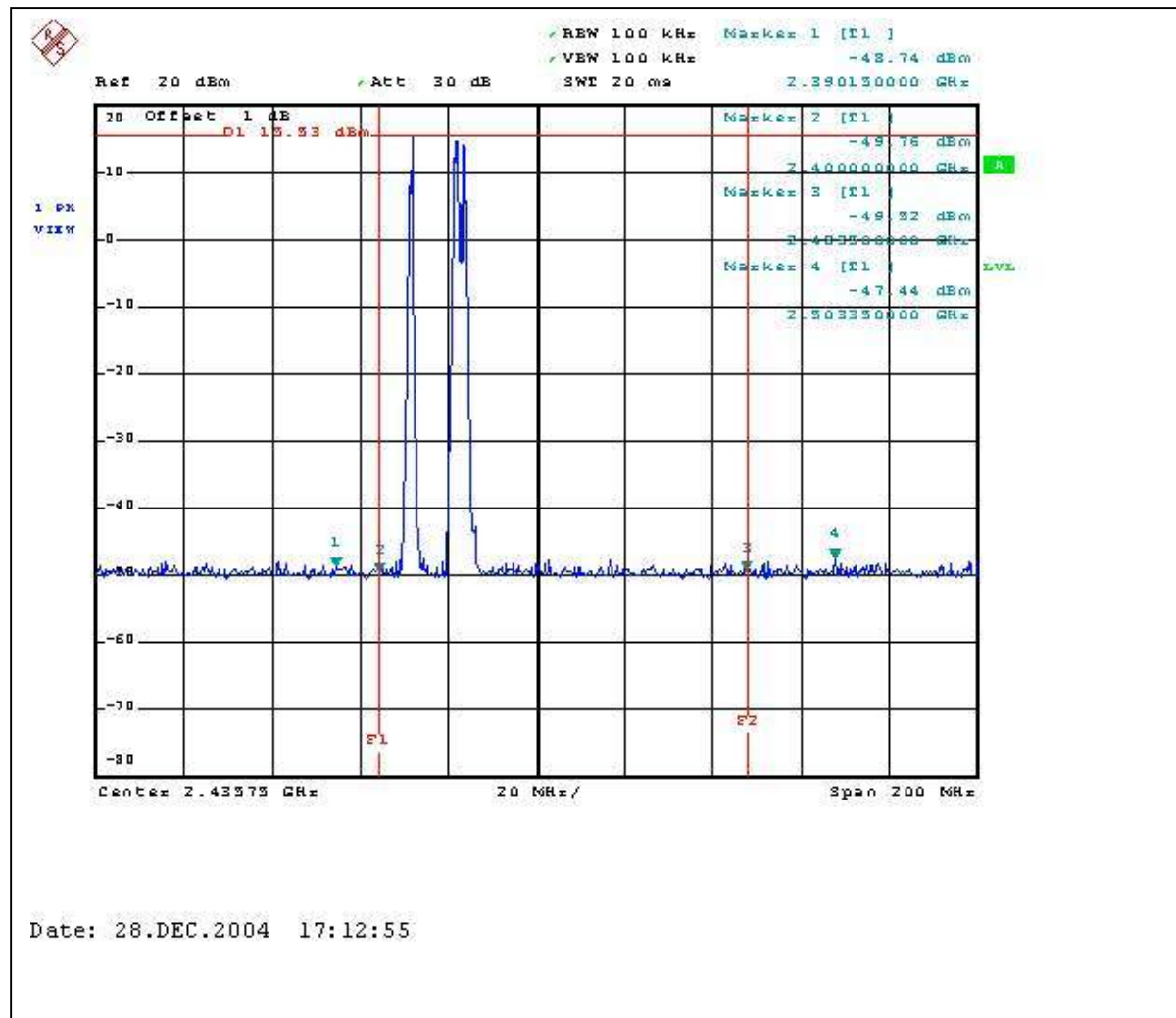
##### Static-CH 0



## Static-CH 9



## Dynamic



## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

### CONDUCTED EMISSION TEST



### RADIATED EMISSION TEST (Below 1 GHz)



# RADIATED EMISSION TEST (Above 1 GHz- Ojo Personal Video Phone)



RADIATED EMISSION TEST (Above 1 GHz- Cordless Handset)



## 6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:

|                    |                      |
|--------------------|----------------------|
| <b>USA</b>         | FCC, NVLAP, UL, A2LA |
| <b>Germany</b>     | TUV Rheinland        |
| <b>Japan</b>       | VCCI                 |
| <b>Norway</b>      | NEMKO                |
| <b>Canada</b>      | INDUSTRY CANADA, CSA |
| <b>R.O.C.</b>      | CNLA, BSMI, DGT      |
| <b>Netherlands</b> | Telefication         |
| <b>Singapore</b>   | PSB, GOST-ASIA (MOU) |
| <b>Russia</b>      | CERTIS (MOU)         |

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: [www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml).

If you have any comments, please feel free to contact us at the following:

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**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

The address and road map of all our labs can be found in our web site also.

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