



**FCC 47 CFR PART 95 SUBPART C**

**TEST REPORT**

**For**

**6 Channels Square Transmitter**

**Model: ET106B**

**Trade Name: ESKY**

*Issued to*

**Shenzhen Esky Trade Co., Ltd.  
4F, B Building, Light Industrial Product City,  
814, Liyuan Rd., Sunggang, Luohu,  
Shenzhen,  
China**

*Issued by*

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## 1. TEST RESULT CERTIFICATION

**Applicant:** Shenzhen Esky Trade Co., Ltd.  
4F, B Building, Light Industrial Product City, 814, Liyuan Rd.,  
Sunggang, Luohu, Shenzhen, China

**Equipment Under Test:** 6 Channels Square Transmitter

**Trade Name:** ESKY

**Model:** ET106B

**Date of Test:** June 4 ~ 23, 2005

| APPLICABLE STANDARDS         |                         |
|------------------------------|-------------------------|
| STANDARD                     | TEST RESULT             |
| FCC 47 CFR Part 95 Subpart C | No non-compliance noted |

### We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 95C.

The test results of this report relate only to the tested sample EUT identified in this report.

*Reviewed and Approved by:*

Clinton Kao  
Manager of the EMC testing Division  
Compliance Certification Services (SZ) Inc.



## 2. EUT DESCRIPTION

|                           |                                  |
|---------------------------|----------------------------------|
| <b>Product</b>            | 6 Channels Square Transmitter    |
| <b>Trade Name</b>         | ESKY                             |
| <b>Model Number</b>       | ET106B                           |
| <b>Model Discrepancy</b>  | N/A                              |
| <b>Power Supply</b>       | Powered by 8 pcs of AA batteries |
| <b>Frequency Range</b>    | 72MHz (Modulation type: FM)      |
| <b>Number of Channels</b> | 1 Channels                       |
| <b>Temperature Range</b>  | 0°C ~ +55°C                      |

**Remark:** This submittal(s) (test report) is intended for FCC ID: R6R-ESKYSZ06 filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 95, Subpart C Rules.



### **3. TEST METHODOLOGY**

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 Rules Part 95 Subpart C.

#### **3.1 EUT CONFIGURATION**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### **3.2 EUT EXERCISE**

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements under the FCC Rules Part 95 Subpart C.

#### **3.3 GENERAL TEST PROCEDURES**

##### **Conducted Emissions**

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

##### **Radiated Emissions**

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.

#### **3.4 MODIFICATION**

N/A

### 3.5 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                        | MHz                 | MHz             | GHz              |
|----------------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423      | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475 | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67        | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25        | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6           | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2         | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94        | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138           | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05      | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 -         | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.52525           | 2655 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 156.7 - 156.9       | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 162.0125 - 167.17   | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 167.72 - 173.2      | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 240 - 285           | 3600 - 4400     | ( <sup>2</sup> ) |
| 13.36 - 13.41              | 322 - 335.4         |                 |                  |

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

### 3.6 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis).

The worst emission was found in lie-down position (Y axis) and the worst case was recorded.



## **4. INSTRUMENT CALIBRATION**

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.



## **5. FACILITIES AND ACCREDITATIONS**

### **5.1 FACILITIES**

All measurement facilities used to collect the measurement data are located at

No. 6, Jinao industrial park, No.35 Jukeng Road, Dashuikeng Village, Guanlan Town, Baoan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

### **5.2 EQUIPMENT**

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### **5.3 LABORATORY ACCREDITATIONS AND LISTING**

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200577-0 to perform Electromagnetic Interference tests according to FCC PART 95 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.



## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

### 6.2 SUPPORT EQUIPMENT

| No. | Device Type | Brand | Model | Series No. | FCC ID | Data Cable | Power Cord |
|-----|-------------|-------|-------|------------|--------|------------|------------|
| 1   | N.A         |       |       |            |        |            |            |

**Remark:**

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*

## 7. FCC PART 95 REQUIREMENTS

### 7.1 FREQUENCY TOLERANCE MEASUREMENT

#### LIMIT

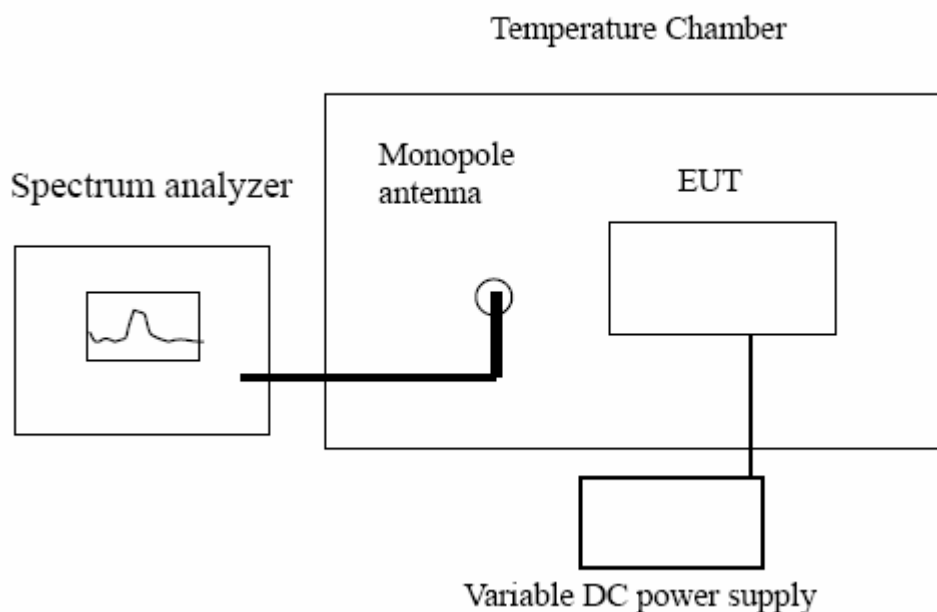
1. According to FCC Part 2 Section 2.1055(a)(1), the frequency stability shall be measured with variation of ambient temperature from  $-30$  to  $+50$  centigrade.
2. According to FCC Part 2 Section 2.1055(d)(2), for hand carried battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacture.
3. According to FCC Part 95 Section 95.623(c), the frequency tolerance must be maintained within 0.002%.

#### MEASUREMENT EQUIPMENT USED

| Name of Equipment   | Manufacturer | Model   | Serial Number | Calibration Due |
|---------------------|--------------|---------|---------------|-----------------|
| Spectrum Analyzer   | Advantest    | R3132   | 120901472     | 06/07/2006      |
| Temperature Chamber | Shihin       | BM50-CB | 908           | 06/29/2005      |
| DC Power Supply     | WYK          | WYK-605 | N/A           | 05/29/2005      |
| Low Loss Cable      | N/A          | N/A     | N/A           | N/A             |
| Monopole Antenna    | N/A          | N/A     | N/A           | N/A             |

**Remark:** Each piece of equipment is scheduled for calibration once a year.

#### Test Configuration





## **TEST PROCEDURE**

### **Frequency stability versus environmental temperature**

1. Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
2. Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1KHz and Video Resolution Bandwidth to 1KHz and Frequency Span to 50KHz. Record this frequency as reference frequency.
3. Set the temperature of chamber to 50 . Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
4. Repeat step 2 with a 10 decreased per stage until the lowest temperature -30 is measured, record all measured frequencies on each temperature step

### **Frequency stability versus input voltage**

1. Setup the configuration per figure 1 for frequencies measured at temperature if it is within 15 to 25 . Otherwise, an environment chamber set for a temperature of 20 shall be used. Install new battery in the EUT.
2. Set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1KHz and Video Resolution Bandwidth to 1KHz. Record this frequency as reference frequency.
3. For battery operated only device, supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency

## **TEST RESULTS**

*No non-compliance noted*

### **Test Data**

### **Frequency stability versus input voltage**

| Reference Frequency (MHZ) | Frequency measured at end point voltage | Frequency deviation (%) | Limit (%) |
|---------------------------|-----------------------------------------|-------------------------|-----------|
| 72.13000                  | 72.13040                                | 0.0004                  | 0.002     |

*(End point 7.21V)*

Frequency stability versus environmental temperature

| Reference frequency: 72.13MHz |              |                                                              |          |
|-------------------------------|--------------|--------------------------------------------------------------|----------|
| Limit: $\pm 0.002\%$          |              |                                                              |          |
| Environment temp<br>( )       | Power supply | Frequency deviation measured<br>with time elapse (10 minute) |          |
|                               |              | (MHz)                                                        | (%)      |
| 50                            | 12V          | 72.12920                                                     | -0.00084 |
| 40                            | 12V          | 72.12977                                                     | -0.00015 |
| 30                            | 12V          | 72.13000                                                     | 0        |
| 20                            | 12V          | 72.13000                                                     | 0        |
| 10                            | 12V          | 72.13020                                                     | 0.00015  |
| 0                             | 12V          | 72.13025                                                     | 0.00032  |
| -10                           | 12V          | 72.13028                                                     | 0.00034  |
| -20                           | 12V          | 72.13033                                                     | 0.00036  |
| -30                           | 12V          | 72.13036                                                     | 0.00038  |

## 7.2 EMISSION BANDWIDTH MEASUREMENT

### LIMIT

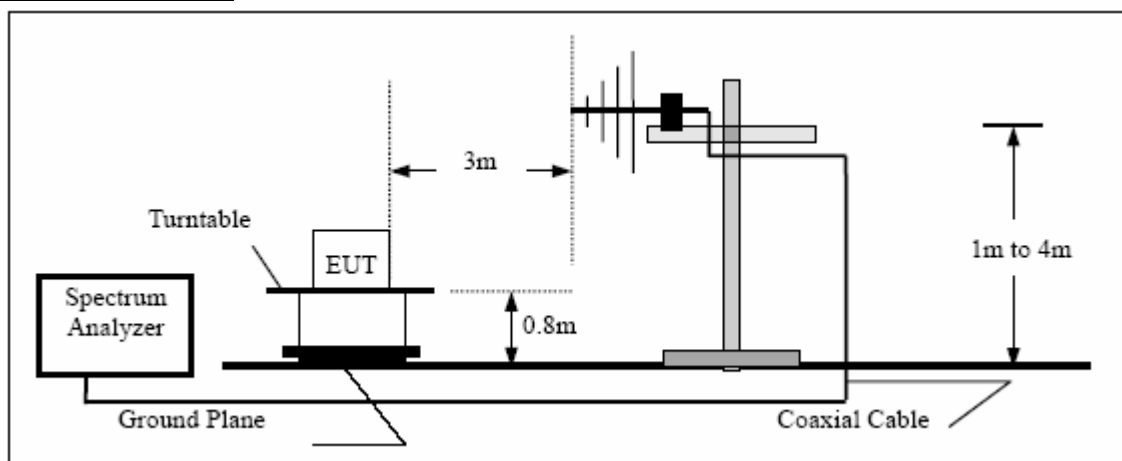
According to FCC Part 95 Section 95.633 (b): The authorized bandwidth for any emission type transmitted by an R/C transmitter is 8 KHz.

### MEASUREMENT EQUIPMENT USED

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|-------|---------------|-----------------|
| Spectrum Analyzer | Advantest    | R3132 | 120901472     | 06/07/2006      |
| EMI Test Receiver | HP           | 8546A | 3448A00232    | 06/07/2006      |
| Pre-amplifier     | HP           | 8447D | 2944A07999    | 06/07/2006      |
| Bi-log antenna    | EMCO         | 3142  | 910-1436      | 05/07/2006      |

**Remark:** Each piece of equipment is scheduled for calibration once a year.

### Test Configuration



### TEST PROCEDURE

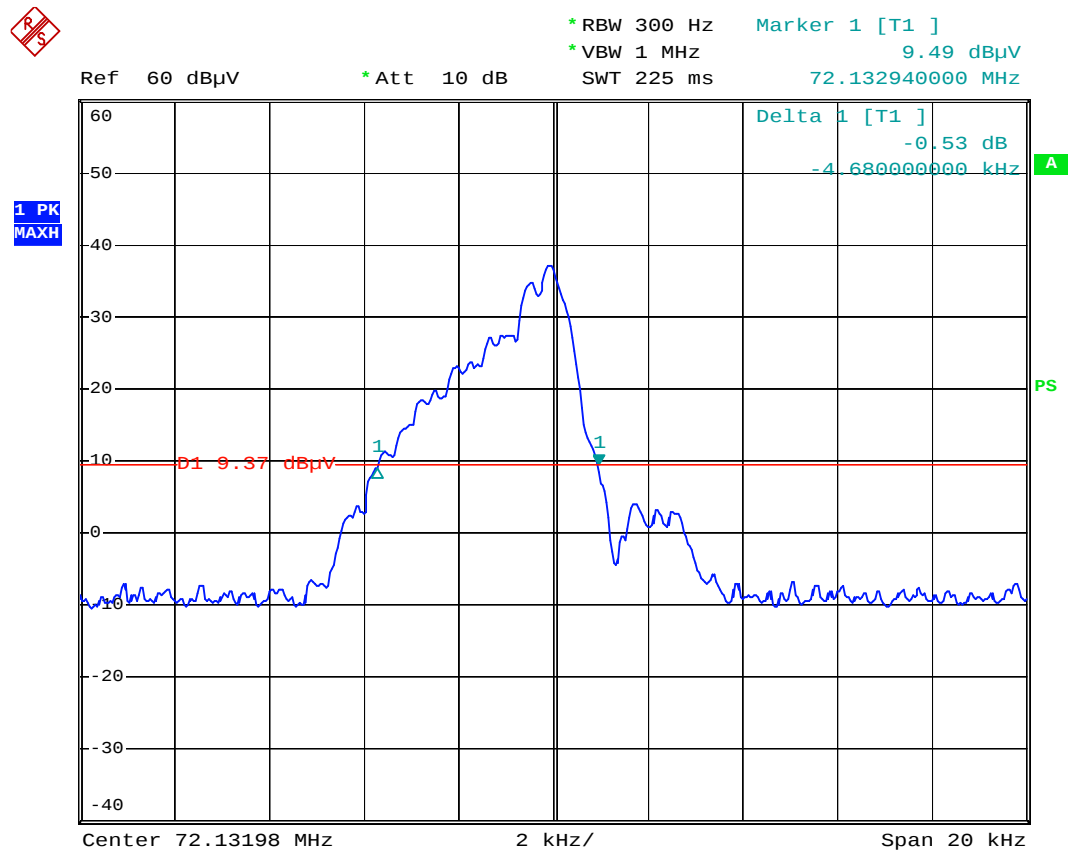
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency , RBW,VBW= 1KHz, Span =50KHz.
4. Set SPA Max hold. Mark peak, -26dB.

### TEST RESULTS

Refer to attach spectrum analyzer data chart.



## Emission Bandwidth



Date: 1.JUL.2005 05:06:50



## 7.3 UNWANTED RADIATION

### LIMIT

According to Section 95.635(b), the power of each unwanted emission shall be less than Transmitted Power as specified below:

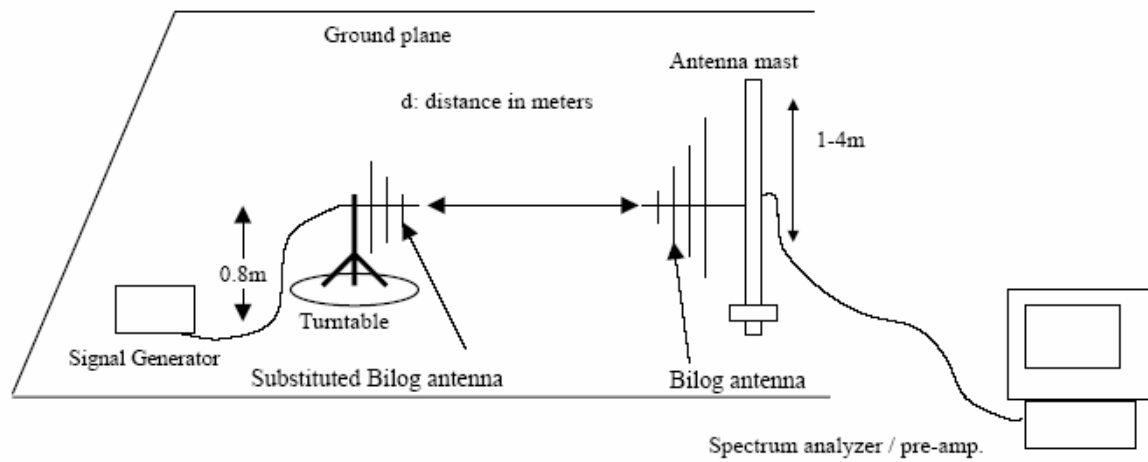
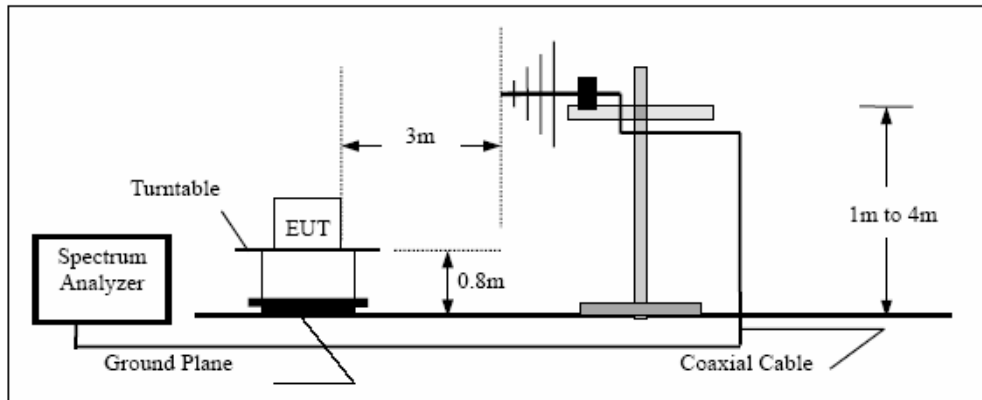
- 1 At least 25 db on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.
- 2 At least 45 db on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 125% of the authorized bandwidth.
3. At least 55 db on any frequency removed from the center of the authorized bandwidth by more than 125% up to and including 250% of the authorized bandwidth.
4. At least  $56 + 10 \log_{10}(TP)$  db on any frequency removed from the center of the authorized bandwidth by more than 250%.

### MEASUREMENT EQUIPMENT USED

| Name of Equipment | Manufacturer | Model   | Serial Number | Calibration Due |
|-------------------|--------------|---------|---------------|-----------------|
| Spectrum Analyzer | Advantest    | R3132   | 120901472     | 06/07/2006      |
| EMI Test Receiver | HP           | 8546A   | 3448A00232    | 06/07/2006      |
| Pre-amplifier     | HP           | 8447D   | 2944A07999    | 06/07/2006      |
| Bi-log Antenna    | EMCO         | 3142    | 9910-1436     | 06/07/2006      |
| Bi-log Antenna    | Schaffner    | CBL6143 | 5082          | 06/07/2006      |

**Remark:** Each piece of equipment is scheduled for calibration once a year.

## Test Configuration





## **TEST PROCEDURE**

1. The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
2. The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
3. The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
4. The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
5. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
6. The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
7. The maximum signal level detected by the measuring receiver shall be noted.
8. The measurement shall be repeated with the test antenna set to horizontal polarization.
9. Replace the antenna with a proper Antenna (substitution antenna).
10. The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
11. The substitution antenna shall be connected to a calibrated signal generator.
12. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
13. The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
14. The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
15. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
16. The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

**TEST RESULTS***No non-compliance noted***Test Data**

| Frequency (MHz) | Reading level (dBuv) | Antenna Polarization | S.G. (dBm) | Cable loss (dB) | Ant.Gain (dBd) | Emission level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|----------------------|----------------------|------------|-----------------|----------------|----------------------|-------------|-------------|
| 72.13           | 97.45                | H                    | 1.5        | 0.85            | -1.24          | -0.59                | 28.75       | -29.34      |
| 144.1           | 61.63                | H                    | -36.31     | 1.19            | -0.24          | -37.74               | -26         | -11.74      |
| 216.3           | 68.19                | H                    | -30.26     | 1.45            | 1.16           | -30.55               | -26         | -4.55       |
| 288.4           | 55.78                | H                    | -37.18     | 1.67            | 2.16           | -36.69               | -26         | -10.69      |
| 360.5           | 61.48                | H                    | -35.03     | 1.88            | 2.46           | -34.45               | -26         | -8.45       |
| 433             | 64.7                 | H                    | -31.09     | 2.11            | 2.56           | -30.64               | -26         | -4.64       |
|                 |                      |                      |            |                 |                |                      |             |             |
| 72.13           | 98.94                | V                    | 0.59       | 0.85            | -1.24          | -1.5                 | 28.75       | -30.25      |
| 144.1           | 65.57                | V                    | -32.54     | 1.19            | -0.24          | -33.97               | -26         | -7.97       |
| 216.3           | 67.48                | V                    | -30.38     | 1.45            | 1.16           | -30.67               | -26         | -4.67       |
| 288.4           | 65.42                | V                    | -30.81     | 1.67            | 2.16           | -30.32               | -26         | -4.32       |
| 360.5           | 63.82                | V                    | -31.4      | 1.88            | 2.46           | -30.82               | -26         | -4.82       |
| 433             | 64.92                | V                    | -29.77     | 2.11            | 2.56           | -29.32               | -26         | -3.32       |

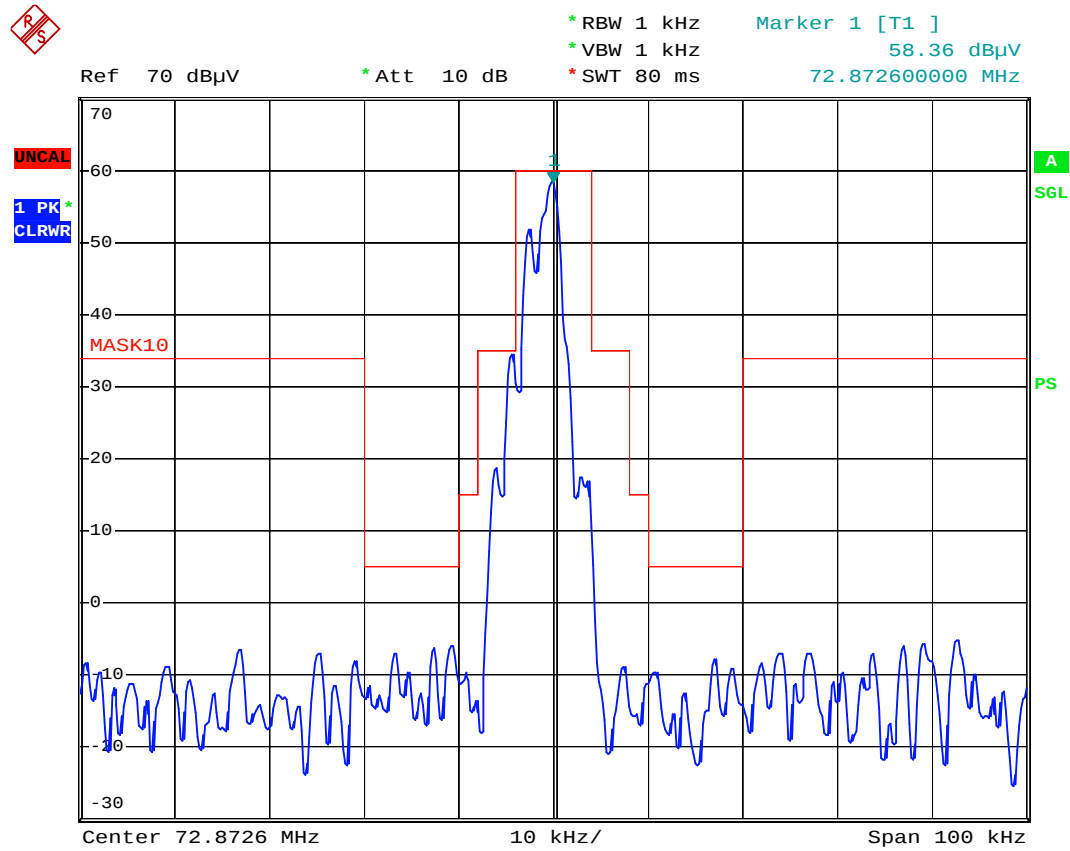
emission level(dBm) = S.G output power(dBm) - losses(dB) + antenna gain(dBd)

Limit (dBm)= 56-10log10 (TP) = -26

—



## Test Plot



Date: 27.JUL.2005 02:16:21

## 7.4 MAXIMUM TRANSMITTER POWER

### LIMIT

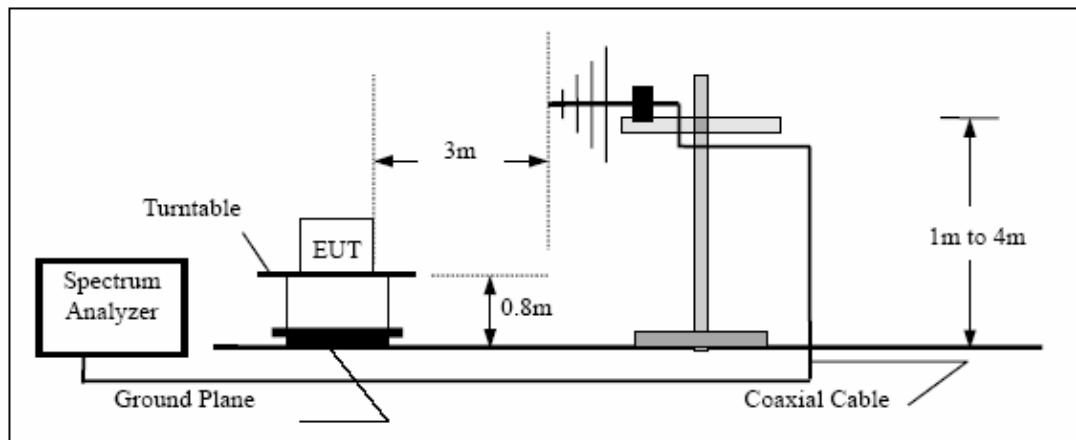
According to FCC Part 95 Section 95.639(b), under any condition of modulation, the R/C transmitter operates in the 72-76MHz frequency band shall not exceed a carrier power of 0.75W.

### MEASUREMENT EQUIPMENT USED

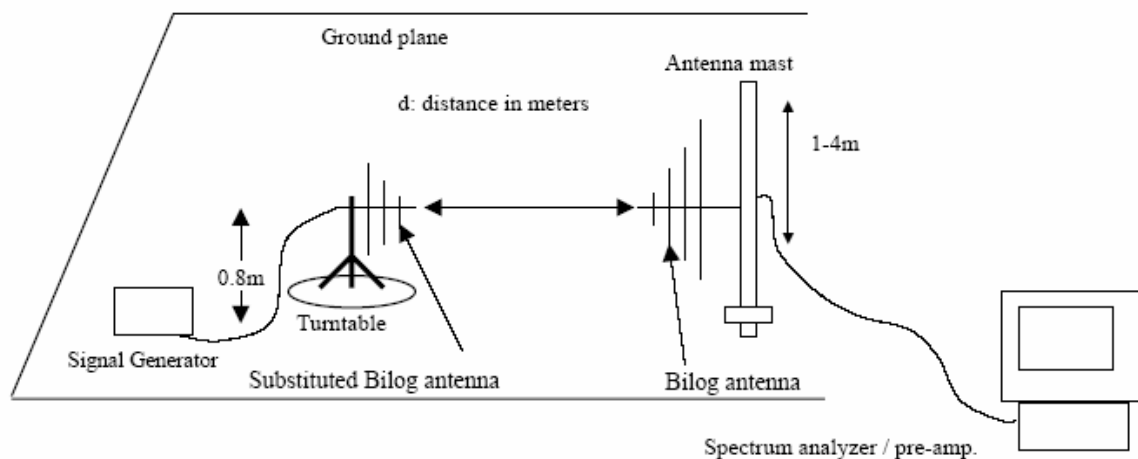
| Name of Equipment | Manufacturer | Model   | Serial Number | Calibration Due |
|-------------------|--------------|---------|---------------|-----------------|
| Spectrum Analyzer | Advantest    | R3132   | 120901472     | 06/07/2006      |
| EMI Test Receiver | HP           | 8546A   | 3448A00232    | 06/07/2006      |
| Pre-amplifier     | HP           | 8447D   | 2944A07999    | 06/07/2006      |
| Bi-log Antenna    | EMCO         | 3142    | 9910-1436     | 06/07/2006      |
| Bi-log Antenna    | Schaffner    | CBL6143 | 5082          | 06/07/2006      |

**Remark:** Each piece of equipment is scheduled for calibration once a year.

### Test Configuration



### SUBSTITUTION METHOD:





## **TEST PROCEDURE**

1. On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
2. The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
3. The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
4. The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
5. The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
6. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
7. The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
8. The maximum signal level detected by the measuring receiver shall be noted.
9. Replace the antenna with a proper Antenna (substitution antenna).
10. The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
11. The substitution antenna shall be connected to a calibrated signal generator.

The instrument setting used during the measurement procedure is as follow:

|           |            |                            |           |
|-----------|------------|----------------------------|-----------|
| HP 8546A  |            |                            |           |
| RW=120KHz | VBW=300KHz | C.F.=fundamental frequency | SPAN 5MHz |

|                 |            |                         |           |
|-----------------|------------|-------------------------|-----------|
| ADVANTEST R3132 |            |                         |           |
| RW=100KHz       | VBW=100KHz | C.F.=Max peak frequency | SPAN 0MHz |

**TEST RESULTS***No non-compliance noted***Test Data**

| Freq.<br>(MHz) | Ant.<br>Polarity | Reading<br>(dBuV) | S.G.<br>(dBm) | Ant.<br>Gain<br>(dBd) | Cable<br>Loss<br>(dB) | Corrected<br>Power |       | Limit<br>(W) |
|----------------|------------------|-------------------|---------------|-----------------------|-----------------------|--------------------|-------|--------------|
|                |                  |                   |               |                       |                       | (dBm)              | (mW)  |              |
| 72.13          | H                | 97.75             | 1.5           | -1.24                 | 0.85                  | -0.59              | 0.87  | 0.75         |
| 72.13          | V                | 98.54             | 0.59          | -1.24                 | 0.85                  | -1.5               | 0.707 | 0.75         |



## **7.5 AUTHORIZED OPERATION CHANNELS**

### **REQUIREMENT**

According to FCC Part 95 Section 95.207, the authorized operation channels for model aircrafts are located on the frequencies from 72.01 to 72.99 with the interval of 20KHz,

### **OBSERVATION & EVALUATION**

The EUT designed as a model aircraft controller with the operation frequency on 72.13 MHz accordance with the requirement above

## **7.6 EMISSION TYPE**

### **REQUIREMENT**

According to FCC Part 95 Section 95.631(b) : An R/C transmitter may transmit any appropriate non-voice emission which meets the emission limitations of §95.633.

### **OBSERVATION AND EVALUATION**

The EUT is solely used to control model aircraft without transmitting any voice emission and it has been tested to comply with the emission limitation of §95.633.

## **7.7 ANTENNA OF THE TRANSMITTER**

### **REQUIREMENT**

According to FCC Part 95 Section 95.647, the antenna of each R/C station transmitting in 72-76MHz band, must be an integral part of the transmitter. The antenna must have no gain and must be vertically polarized.

### **OBSERVATION AND EVALUATION**

The antenna is designed as a fixed, non-user replaceable with no gain and vertically polarized unit integrated to EUT.



## **7.8 POWER CAPABILITY**

### **REQUIREMENT**

According to FCC Part 95 Section 95.649, no R/C unit shall incorporate provisions for increasing its transmitter power to any level in excess of the limits specified in §95.639

### **OBSERVATION AND EVALUATION**

All the components employed by EUT have the power capability less than 0.75W either being assembled or individual.

## **7.9 CRYSTAL CONTROL**

### **REQUIREMENT**

According to FCC Part 95 Section 95.651, all transmitters used in Personal Radio Services must be crystal controlled, except an R/C station that transmits in 26-27 MHz frequency band.

### **OBSERVATION AND EVALUATION**

The crystal is not accessible to user.

## **APPENDIX 1**

### **PHOTOGRAPHS OF TEST SETUP**

#### **Radiated Emission Set up Photos**

