

**SGS-CSTC Standards  
Technical Services Co., Ltd.**

588 West Jindu Road, Songjiang District, Shanghai, China

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Report No.: SHEMO080900264TXR  
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***EMC TEST REPORT***

**Application No.:** SHEMO080900264TXR  
**Applicant:** JIAXING SHENG TENG R/C MODEL PLANE CO., LTD.  
**Equipment under Test (EUT)**

**NOTE:** The following sample(s) submitted was/were identified on behalf of the client as

**EUT Name:** Model Control(Tactic TTX501)  
**Model No.:** Easy Fly, MX-2, Cessna 182, ROC, Edge 540, ASW28, DG1000, Piper J-3 cub, Fox, PTEROSAUR, Warbird(P-51, F-16, L-39), Boeing 787

**Serial No.:** Not supplied by client

**Standards:** CFR 47 part 2: 2007,  
CFR 47 Part 95: 2007,  
ANSI C63.4: 2003

**Date of Receipt:** 22 September 2008

**Date of Test:** 15 October 2008 to 20 October 2008

**Date of Issue:** 20 October 2008

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 2 of this report for further details.

Authorized Signature:



Tino Pan  
E&E Section Manager  
SGS-CSTC Co., Ltd.



Parker Liu  
E&E Project Engineer  
SGS-CSTC Co., Ltd

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

All test results in this report can be traceable to National or International Standards.

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## 1 Test Summary

• The EUT belongs to Radio Control (R/C) Radio Service device. It is a private, one-way, short distance non-voice communication remote device.				
Test	Test Requirement	Test Method	Limit / Severity	Result
Frequency stability	CFR 47 Part 95: 2007 §95.623 (c)	ANSI C63.4: 2003	0.002%	PASS
Effective Radiated Power	CFR 47 Part 95: 2007 §95.639 (b)(3)	ANSI C63.4: 2003	0.75W (28.75dBm)	PASS
Occupied bandwidth	CFR 47 Part 95: 2007 §95.635 (b)	ANSI C63.4: 2003	(1)(10)(11)(12)	PASS
Unwanted Radiation	CFR 47 Part 95: 2007 §95.635 (b)	ANSI C63.4: 2003	(1)(3)(7)(10) (11)(12)	PASS

RF: In this whole report RF means Radiated Frequency.

Statement: When measuring the ERP for the fundamental and spurious emissions, we used the substitution method of measurement as prescribed under TIA-603-C-2004.

### NOTE:

1. There are twelve models mentioned in this report, and they are same in Electronic or Electrical characters. Only the appearance is different. So we just have one of them tested. The tested model is Cessna182.
2. Since it is a narrow frequency span (72.510MHz ~ 72.790MHz), only one frequency 72.630MHz is selected for testing as representative.

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## 3 General Information

### 3.1 Client Information

Applicant: JIAXING SHENG TENG R/C MODEL PLANE CO., LTD.  
Address of Applicant: 103#FUXING WEST ROAD, DONGZHA INDUSTRIAL PARK,  
JIAXING, CHINA

### 3.2 General Description of E.U.T.

EUT Name: Model Control(Tactic TTX501)  
Model No.: Easy Fly, MX-2, Cessna 182, ROC, Edge 540, ASW 28, DG 1000, Piper J-3  
cub, Fox, PTEROSAUR, Warbird(P-51, F-16, L-39), Boeing 787  
Frequency Range: 72.510MHz ~ 72.790MHz  
Type of Emission: 8K00F1D  
Authorized Bandwidth: 8 kHz for RC Transmitter

### 3.3 Details of E.U.T.

EUT Power Supply: 12V DC (8\*1.5 AA BATTERY)

### 3.4 Description of Support Units

The EUT has been tested independently.

### 3.5 Standards Applicable for Testing

The customer requested EMC tests for a Model Control(Tactic TTX501).

The standard used was CFR 47 Part 95: 2007.

Table 1 : Tests Carried Out Under CFR 47 Part 95: 2007		
TEST ITEM		Status
CFR 47 Part 95: 2007 §95.623 (c)	Frequency stability	√
CFR 47 Part 95: 2007 §95.639 (b)(3)	Effective Radiated Power	√
CFR 47 Part 95: 2007 §95.635 (b)	Occupied bandwidth	√
CFR 47 Part 95: 2007 §95.635 (b)	Unwanted Radiation	√

× : Indicates that the test is not applicable,

√ : Indicates that the test is applicable

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### 3.6 Test Location

All tests were performed at:

SIMT EMC Laboratory, No.716 Yinshan Road, Shanghai, P.R.China  
Tel: +86 21 64701390 Fax: +86 21 64514252

### 3.7 Deviation from Standards

None.

### 3.8 Abnormalities from Standard Conditions

None.

### 3.9 Other Information Requested by the Customer

None.

### 3.10 Test Confident level

Test Confident level of **SIMT EMC Laboratory** is recognized, certified, or accredited by the following organizations:

#### **NVLAP – Lab Code: 200632-0**

SIMT EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST).  
NVLAP Code: 200632-0. Effective dates: 2008-01-01 through 2008-12-31.

#### **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SIMT have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: 1153.  
Date of Registration: May 19, 2004. Valid until May 18, 2009

#### **CNAL – LAB Code: L0134**

SIMT EMC Laboratory has been assessed and in compliance with CNAL/AC01:2005 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements for the Competence of Testing Laboratories.)

#### **FCC – Registration No.: 142171**

SIMT EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 142171. Effective dates: November 30, 2005 through November 30, 2008. With the above and NVLAP, SIMT is an authorized test laboratory for the DoC process.

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## 4 Equipments Used during Test

Frequency Stability						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (yy-mm-dd)	Cal.Due date (yy-mm-dd)
1	SPECTRUM ANALYZER	R&S	FSP-30	/	2008.03.26	2009.03.25
2	VHAP PRECISION HALFWAVE DIPOLES	R&S	VHAP	1096 + 1097	2008.05.18	2009.05.17
3	UHAP PRECISION HALFWAVE DIPOLES	R&S	UHAP	1075 + 1076	2008.05.18	2009.05.17
4	TEMPERATURE& HUMIDITY BOX	KSON	THS-D2C- 100	K40723	2007.11.18	2008.11.17
5	DC POWER	GW-instek	GPS2303C	EF832649	/	/
6	Audio Analyzer	R&S	UPL 16	100018	2007.12.24	2008.12.23

Effective Radiated Power& Unwanted Radiation						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (yy-mm-dd)	Cal.Due date (yy-mm-dd)
1	HORN ANTENNA	R&S	HF 906	100023	2008.06.17	2009.06.16
2	BROADBAND ANTENNA	R&S	HL 562	100019	2008.06.17	2009.06.16
3	VHAP PRECISION HALFWAVE DIPOLES	R&S	VHAP	1096 + 1097	2008.05.18	2009.05.17
4	UHAP PRECISION HALFWAVE DIPOLES	R&S	UHAP	1075 + 1076	2008.05.18	2009.05.17
5	Audio Analyzer	R&S	UPL 16	100018	2007.12.24	2008.12.23
6	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2008.03.06	2009.03.05
7	10m Semi-Anechoic Chamber	FRANKONIA	/	/	2008.10.15	2009.10.14

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Occupied Bandwidth						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (yy-mm-dd)	Cal.Due date (yy-mm-dd)
1	HORN ANTENNA	R&S	HF 906	100023	2008.06.17	2009.06.16
2	BROADBAND ANTENNA	R&S	HL 562	100019	2008.06.17	2009.06.16
3	Audio Analyzer	R&S	UPL 16	100018	2007.12.24	2008.12.23
4	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2008.03.06	2009.03.05
5	10m Semi-Anechoic Chamber	FRANKONIA	/	/	2008.10.15	2009.10.14

General Equipment						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Barometer	Chang chun qi xiang	DYM3	0124	2008.06.06	2009.06.05
2	DMM	UNI-T	UT 222	45402866	2008.01.25	2009.01.24
3	Temperature, Humidity	Zhi cheng	ZC1-2	/	2008.07.06	2009.07.05

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## 5 Radio Technical Requirements Specification in CFR 47 Part 95: 2007

### 5.1 Transmitter Requirements

The EUT is a private, one-way, short distance non-voice communication remote device.

#### 5.1.1 Frequency stability

**Test Date:** 17 October 2008

**Test Method:** ANSI C63.4: 2003

**EUT Operation:**

Ambient: Temp.: 24 °C, Humid.: 45 % Press.: 1008 mBar

Test Procedure: The transmitter was placed in the temperature chamber at 25 degrees °C and allowed to stabilize for one hour. The transmitter was keyed ON for one minute during which four frequency readings were recorded at 15 second intervals. The worse case number was taken for temperature plotting. The assigned channel frequency was considered to be the reference frequency was considered to be the reference frequency. The temperature was then reduced to -30 degrees C after which the transmitter was again allowed to stabilize for one Hour. The transmitter was keyed ON for one minute, and again frequency readings were noted at 15 seconds intervals. The worst case Number was recorded for temperature plotting. This procedure was repeated in 10-degree increments up to + 50 degrees °C. Readings were also taken at the end point of the battery voltage of 12VDC.

##### 5.1.1.1 Requirements:

Temperature and voltage tests were performed to verify that the frequency remains within the .002%, 20 ppm specification limit.

##### 5.1.1.2 Measurement Record:

**Uncertainty:  $\pm 3\text{dB}$**



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Frequency of crystal: 72.630MHz

Reference Frequency: 72.632100 MHz

Temperature	Frequency (MHz)	PPM
-30°C	72.631395	-9.69
-20°C	72.631552	-7.54
-10°C	72.631740	-4.96
0°C	72.631985	-1.58
10°C	72.632032	-0.94
20°C	72.632122	0.30
30°C	72.632168	0.94
40°C	72.632475	5.16
50°C	72.632670	7.85

STATE	Frequency (MHz)	VOLTAGE	PPM
-15% BATTERY END POINT	72.632250	10.2VDC	2.07

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -9.69 to +7.85ppm. The maximum frequency variation with voltage was 2.07 ppm.

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## 5.1.2 Effective Radiated Power

**Test Date:** 20 October 2008

**Test Method:** ANSI C63.4: 2003

**EUT Operation:**

Ambient: Temp.: 24 °C, Humid.: 56 % Press.: 1006 mBar

**Test Procedure:**

1. Make the EUT transmitting at working frequency;
2. Adjust the Test transmitter signal to make the EUT RF power output at Maximum;
3. Set the spectrum analyzer: RBW=100KHz, VBW >= RBW (300KHz), Sweep = auto, 30M-1GHz; Detector Function = Peak, Trace = Max Hold. Mark the peak frequency.

4. Test the EUT ERP with the external antenna connected and put in vertical polarity;

The technique used to find the output power of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP emission levels of the EUT. The following test procedure as below:

- a) The EUT was powered ON and placed on a table in the chamber. The antenna of the transmitter was extended to its maximum length.
- b) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering the receive antenna and by rotating the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- c) Steps 1 and 2 were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- d) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- e) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2 is obtained for this set of conditions.
- f) The output power into the substitution antenna was then measured. The final ERP level was obtained with the correction of substitution antenna gain in dBd and cable loss.
- g) Steps e) and f) were repeated with both antennas vertical polarized.
- h) Three axis of the product were tested according to the procedure above to find the maximum level.

**Note:** the substitution antenna we used are dipole antennas, for details, please refer to equipment list.

### 5.1.2.1 Measurement Record:

**Uncertainty:  $\pm 3$ dB**

Frequency of crystal	Max Level	Limit
72.630MHz	-16.797dBm	28.75dBm (i.e. =0.75W)

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## 5.1.3 Occupied bandwidth

**Test Date:** 20 October 2008

**Test Method:** ANSI C63.4: 2003

**EUT Operation:**

Ambient: Temp.: 24 °C, Humid.: 56 % Press.: 1006 mBar

Test Procedure:

1. Make the EUT transmitting at its max output power with modulation;
2. Set the spectrum analyzer: RBW=300Hz, VBW  $\geq$  RBW (100KHz) , Span = 100KHz, Sweep = auto; Detector Function = Peak, Trace = Max Hold. Mark the peak frequency.

Test Result: PASS

### 5.1.3.1 Requirements:

( 1 )	At least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.
(10)	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.
(11)	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.
(12)	At least $56 + 10 \log_{10}(T)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250%.
95.633(b)	The authorized bandwidth for any emission type transmitted by an R/C transmitter is 8 kHz.

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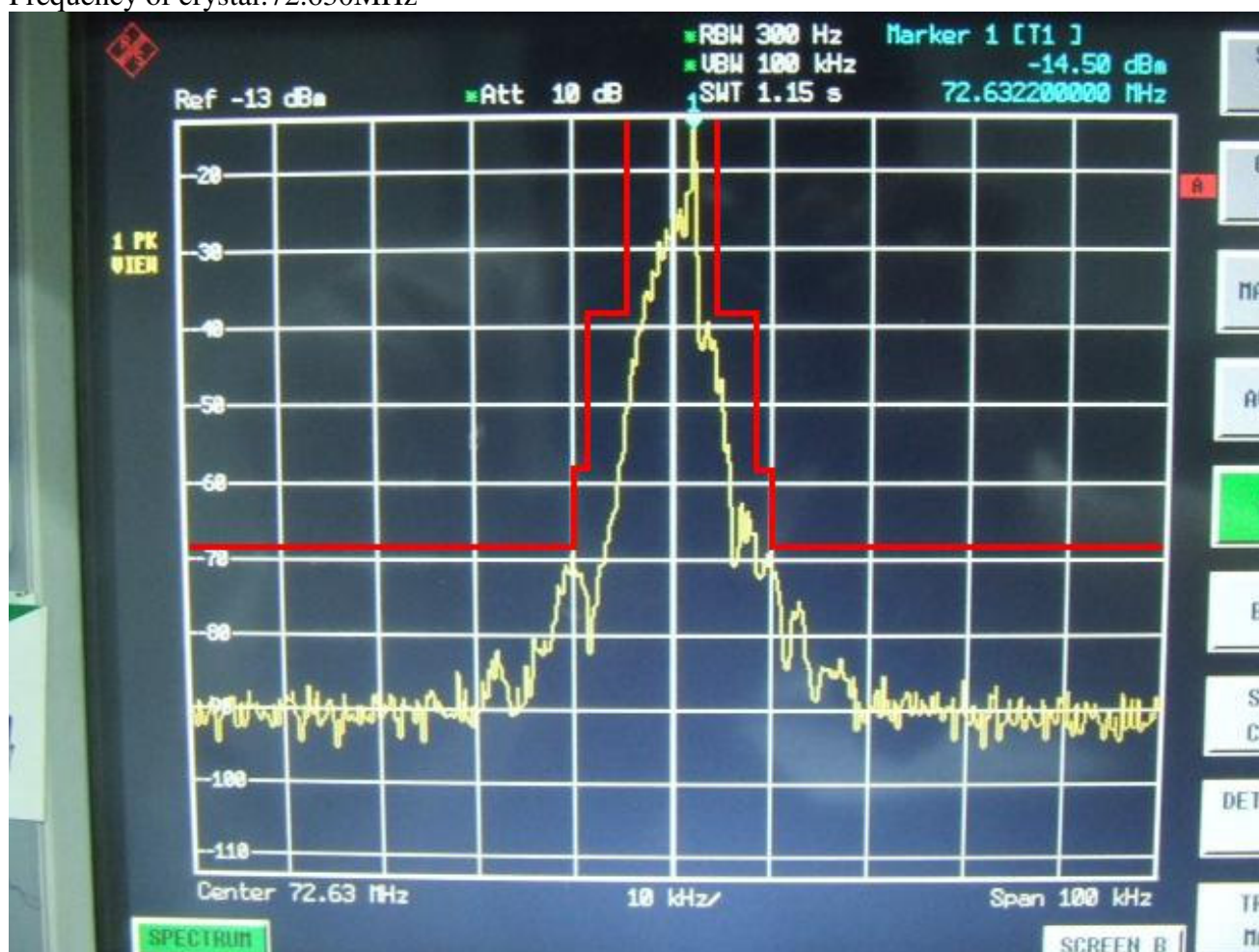
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### 5.1.3.2 Measurement Record:

Uncertainty:  $\pm 3\text{dB}$

Frequency of crystal: 72.630 MHz



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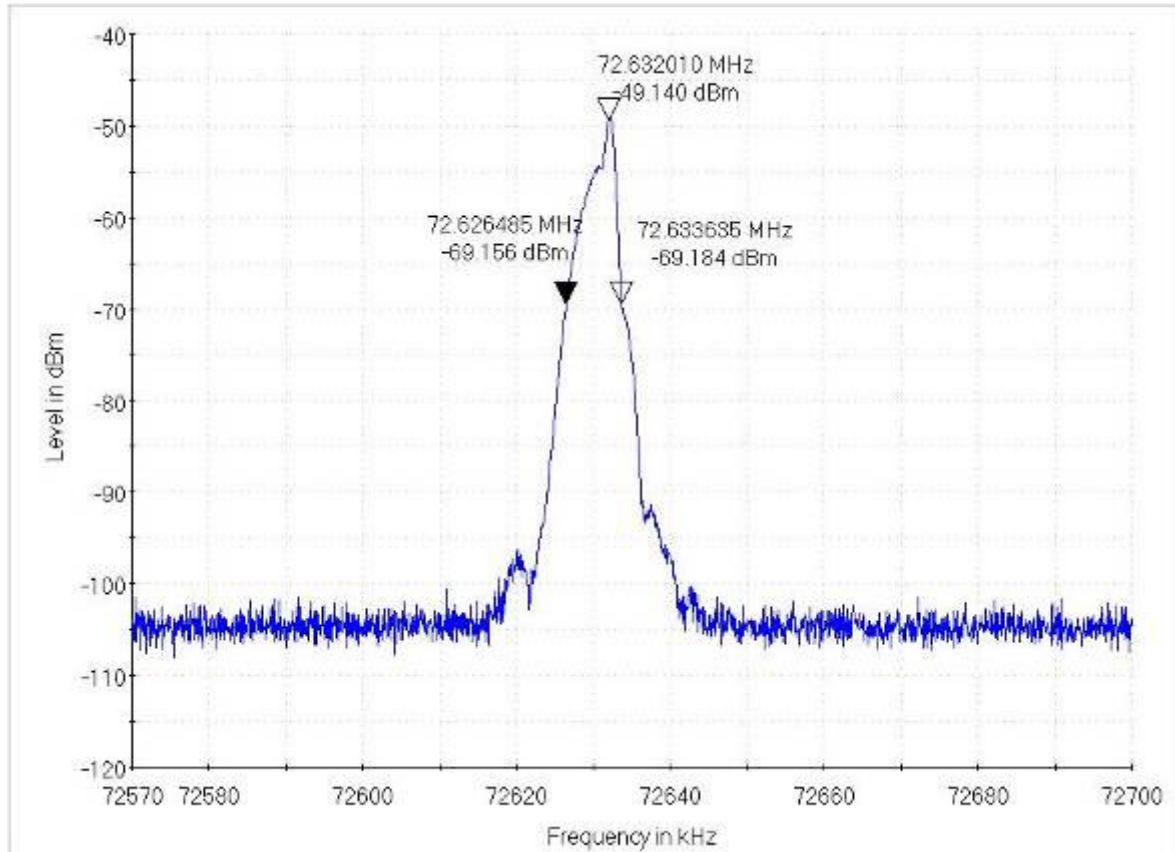
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-20dB emission bandwidth is 7.15kHz.

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## 5.1.4 Unwanted Radiation

**Test Date:** 20 October 2008

**Test Method:** ANSI C63.4: 2003

**EUT Operation:**

Ambient: Temp.: 24 °C, Humid.: 56 % Press.: 1006 mBar

Test Procedure:

1. Make the EUT transmitting at working frequency;
2. Adjust the Test transmitter signal to make the EUT RF power output at Maximum;
3. Set the spectrum analyzer: RBW=100KHz, VBW >= RBW ( 300KHz ) , Sweep = auto, 30M-1GHz; Detector Function = Peak, Trace = Max Hold. Mark the peak frequency.
4. Test the EUT ERP with the external antenna connected and put in vertical polarity;  
The technique used to find the output power of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP emission levels of the EUT.  
The following test procedure as below:
  - a) The EUT was powered ON and placed on a table in the chamber. The antenna of the transmitter was extended to its maximum length.
  - b) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering the receive antenna and by rotating the turntable. After the fundamental emission was maximized, a field strength measurement was made.
  - c) Steps 1 and 2 were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
  - d) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
  - e) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2 is obtained for this set of conditions.
  - f) The output power into the substitution antenna was then measured. The final measurement level was obtained with the correction of substitution antenna gain in dBd and cable loss.
  - g) Steps e) and f) were repeated with both antennas vertical polarized.
  - h) Three axis of the product were tested according to the procedure above to find the maximum level.

**Note:** the substitution antenna we used are dipole antennas, for details, please refer to equipment list.

### 5.1.4.1 Requirements:

At least  $56 + 10 \log_{10}(T)$  dB on any frequency removed from the center of the authorized bandwidth by more than 250%.

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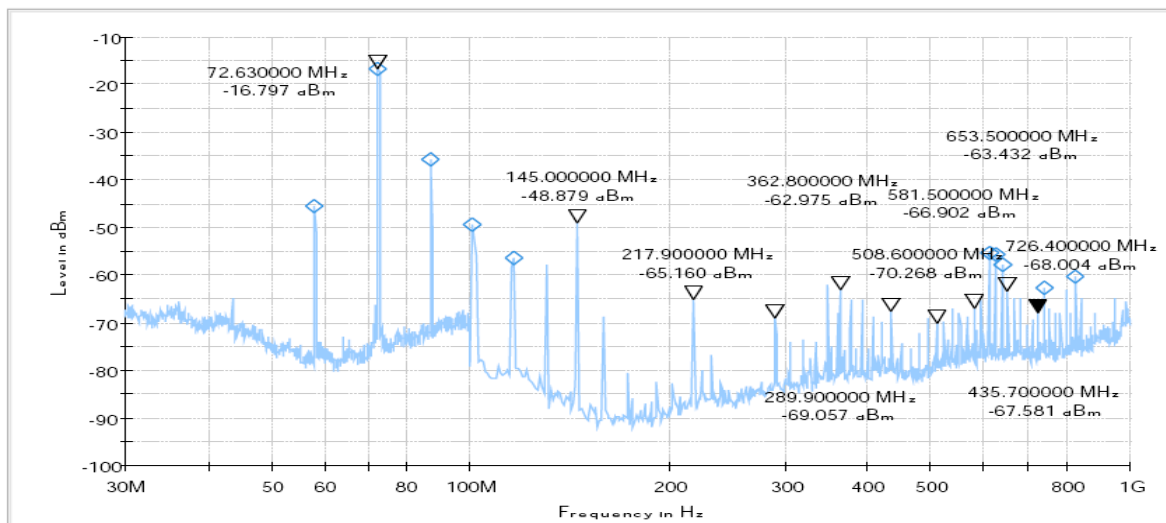
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Frequency of crystal	Requirement
72.630MHz	$56 + 10 \log_{10}(0.0000209) = 9.2\text{dB}$

## 5.1.4.2 Measurement Record:

Uncertainty:  $\pm 3\text{dB}$

Frequency of crystal: 72.630MHz			
Emission Frequency (MHz)	Polarity Antenna	Level(dBm)	dB Below Carrier(dBc)
72.630000	V	-16.797	0.00
145.000000	V	-48.879	32.082
217.900000	V	-65.160	48.363
289.900000	V	-69.057	52.260
362.800000	V	-62.975	46.178
435.700000	V	-67.581	50.784
508.600000	V	-70.268	53.471
581.500000	V	-66.902	50.105
653.500000	V	-63.432	46.635
726.400000	V	-68.004	51.207



Preview Measurement Detector 1      Data Reduction Detector 1 [1]

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### 5.2 Photographs

Effective Radiated Power & Occupied bandwidth & Unwanted Radiation





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**EUT Constructional Details**



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Crystal access panel is permanently glued shut in manufacturing.

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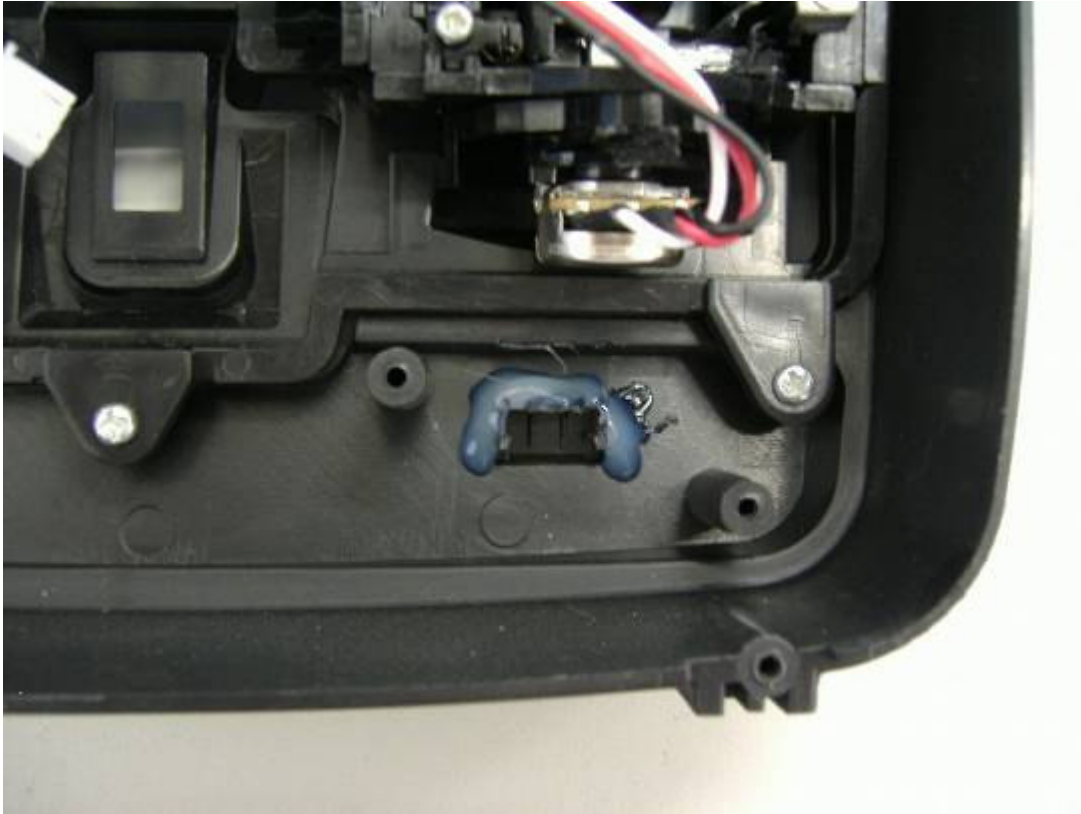
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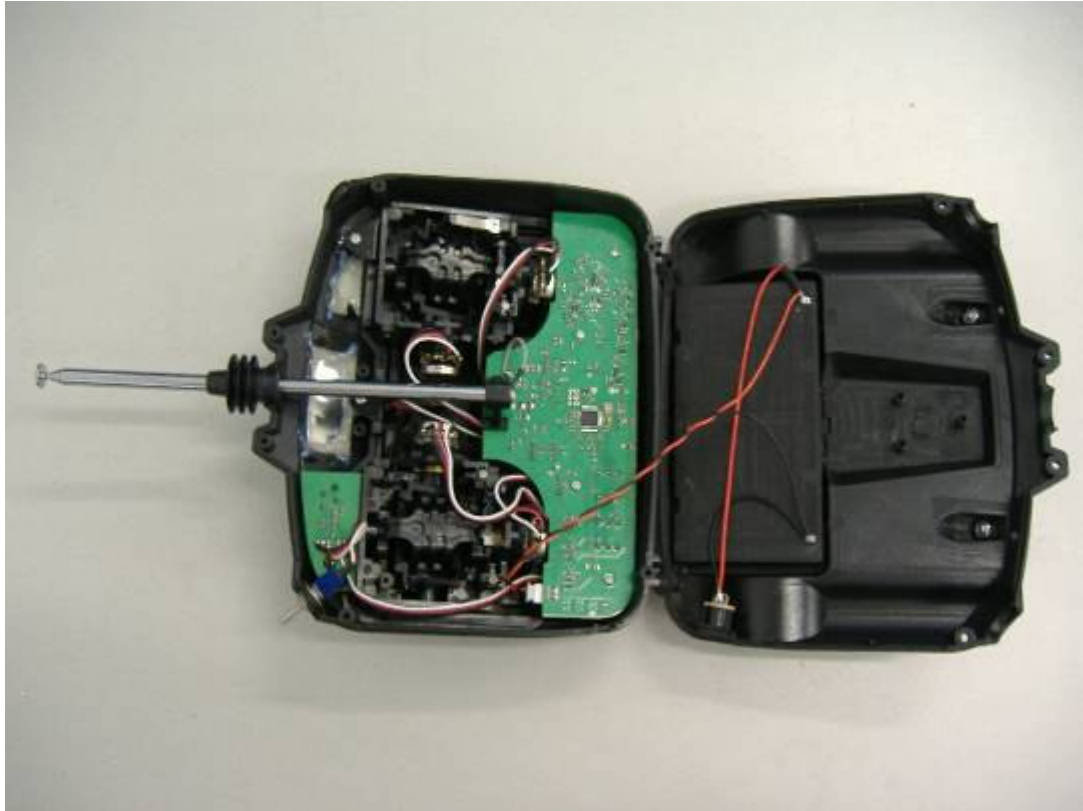
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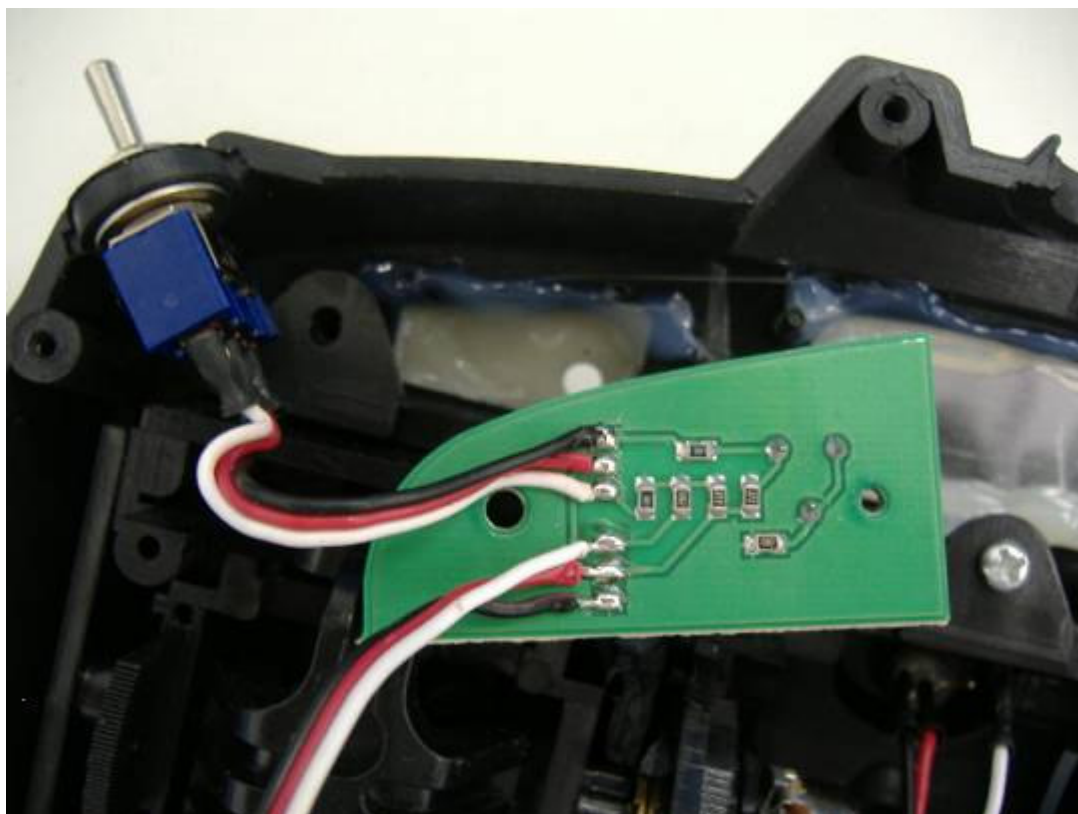
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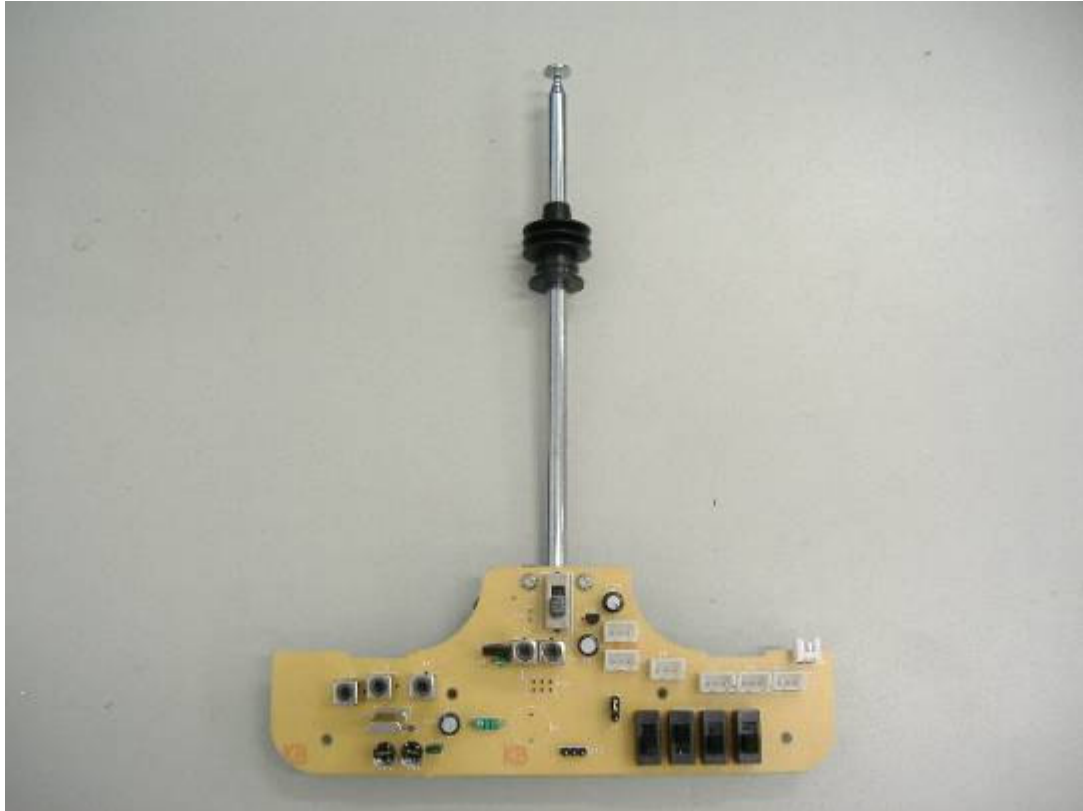
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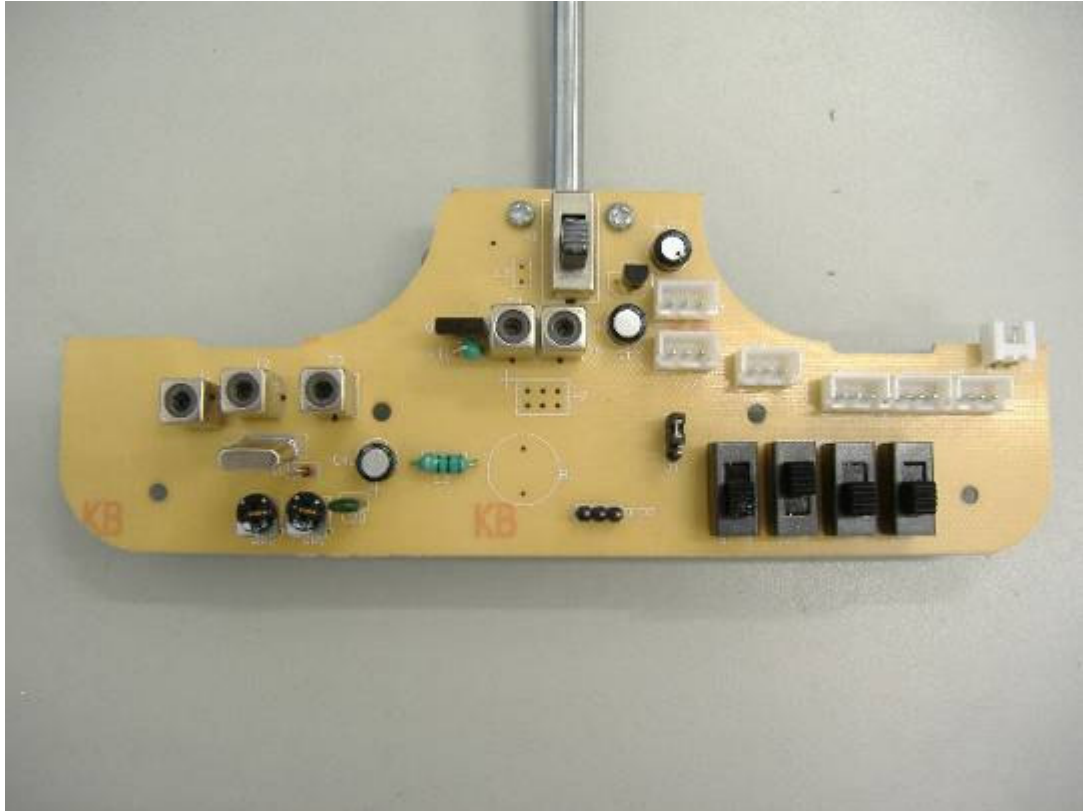
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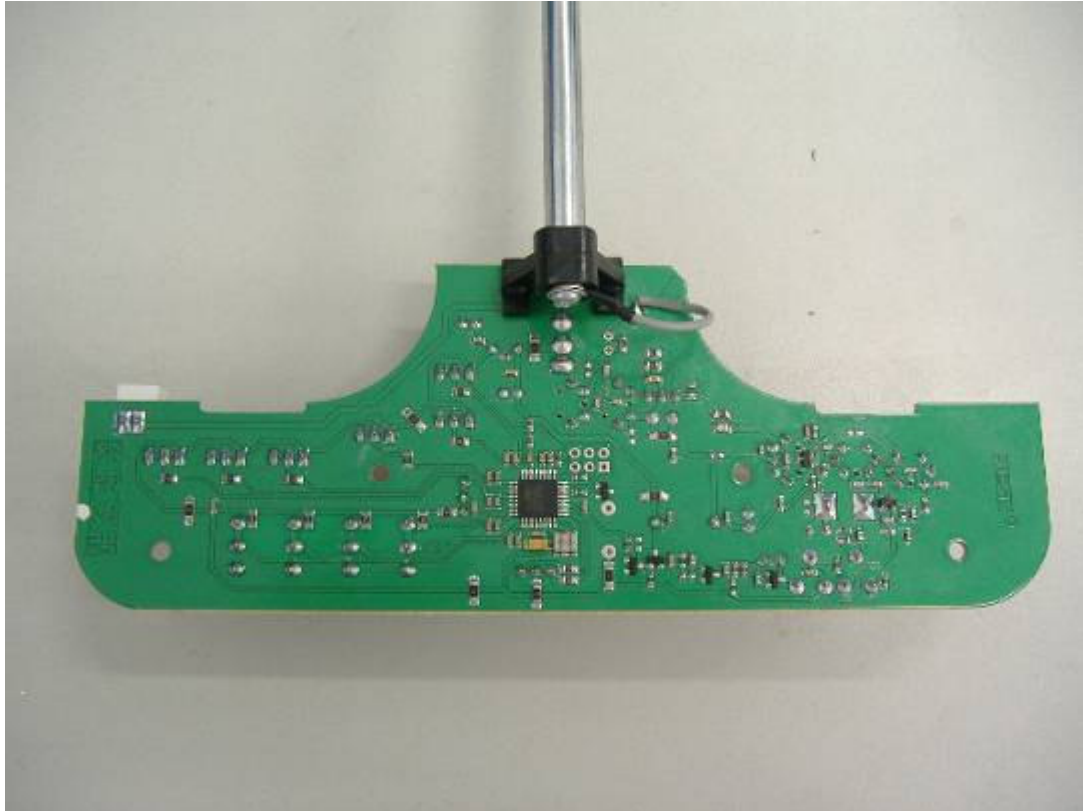
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