

TIMCO ENGINEERING INC.

849 NW State Road 45
Newberry, Florida 32669
<http://www.timcoengr.com>
888.472.2424 F 352.472.2030 email: tei@timcoengr.com

Test Report

Product Name: 27 MHZ REMOTE CONTROL TRANSMITTER

FCC ID: AEKA60827

Applicant:

**TAIYO KOGYO CO., LTD.
FUKOKUSEIMEI BLDG. 6F, NO. 1-2-11
KAMINARIMON, TAITO-KU
TOKYO 111-0034
JAPAN**

Date Receipt: 9/8/2006

Date Tested: 9/11/2006

APPLICANT: TAIYO KOGYO CO., LTD.
FCC ID: AEKA60827
REPORT #: T\Taiyo_AEK\2580JT6\2580JT6TestReport.doc

COVER SHEET

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EMC Equipment List

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
3-Meter OATS	TEI	N/A	N/A	Listed 1/11/06	1/10/09
Antenna:	Eaton	94455-1	1057	CAL 12/12/05	12/12/07
Biconnical					
Antenna:	Eaton	94455-1	1096		Out for Cal
Biconnical					
Antenna:	Electro-Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Biconnical					
Analyzer Blue	HP	85650A	2811A01279	CAL 4/13/05	4/13/07
Tower Quasi- Peak Adapter					
Analyzer Blue	HP	85685A	2926A00983	CAL 9/5/05	9/5/07
Tower RF					
Preselector					
Analyzer Blue	HP	8568B	2928A04729 2848A18049	CAL 4/13/05	4/13/07
Tower					
Spectrum					
Analyzer					
LISN	Electro-Metrics	EM-7820	2682	CAL 4/28/05	4/28/07
Antenna: Log-	Eaton	96005	1243	CAL 12/14/05	12/14/07
Periodic					
Antenna:	ETS-Lindgren	6502	00062529	CAL 3/30/06	3/30/08
Active Loop					
Antenna:	EMC Test	EMCO 6512	9706-1211	CAL 4/27/06	4/27/08
Passive Loop	Systems				

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 using a HEWLETT PACKARD spectrum analyzer with a pre-selector. The bandwidth of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz. The ambient temperature of the UUT was 80°C with a humidity of 76%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS
33 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The unit under test was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

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NAME OF TEST: RADIATION INTERFERENCE

RULES PART NO.: 15.227

REQUIREMENTS: CARRIER FREQUENCY WILL NOT EXCEEDS 80 dBuV/m AT 3M.
OUT-OF-BAND EMISSIONS SHALL NOT EXCEED:

30 - 88 MHz	40.0 dBuV/M MEASURED AT 3 METERS
88 - 216 MHz	43.5 dBuV/M
216 - 960 MHz	46.0 dBuV/m
ABOVE 960 MHz	54.0 dBuV/m

TEST DATA:

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
27.20	29.1	H	0.40	34.15	63.65	16.35
27.20	41.1	V	0.40	34.15	75.65	4.35
54.40	15.8	H	0.51	11.20	27.51	12.49
54.41	18.9	V	0.51	11.72	31.13	8.87
81.59	3.1	H	0.60	6.79	10.49	29.51
81.60	9.3	V	0.60	7.05	16.95	23.05
108.78	7.9	H	0.66	12.36	20.92	22.58
108.79	16.0	V	0.66	12.56	29.22	14.28
136.02	4.2	V	0.69	12.96	17.85	25.65
163.18	3.5	H	0.75	14.32	18.57	24.93
190.37	5.8	V	0.86	17.40	24.06	19.44
217.57	8.6	V	0.94	11.32	20.86	25.14
244.78	8.7	V	0.99	12.19	21.88	24.12

SAMPLE CALCULATION: FSdBuV/m = MR (dBuV) + ACFdB.

All measurements below 30 MHz were taken using an EMC Test Systems Passive Loop Antenna.

TEST PROCEDURE: The procedure used was ANSI STANDARD C63.4-2003. The spectrum was scanned from 30 MHz to 1000 MHz. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The UUT was tested in 3 orthogonal planes.

PERFORMED BY: NAM NGUYEN

DATE: 9/11/2006

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NAME OF TEST: Occupied Bandwidth

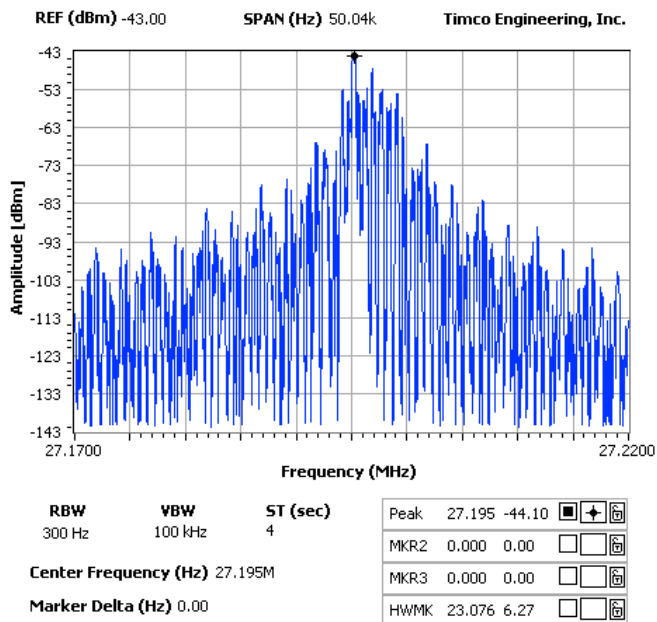
RULES PART NO.: 15.227

REQUIREMENTS: The field strength of any emissions appearing outside of 26.96 and 27.28MHz shall be attenuated to the general limits of 15.209.

TEST DATA:

NOTES:

TAIYO KOGYO CO., LTD. - FCC ID: AEKA60827
OCCUPIED BANDWIDTH PLOT



METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was taken. The vertical scale is set to 10 dB per division.

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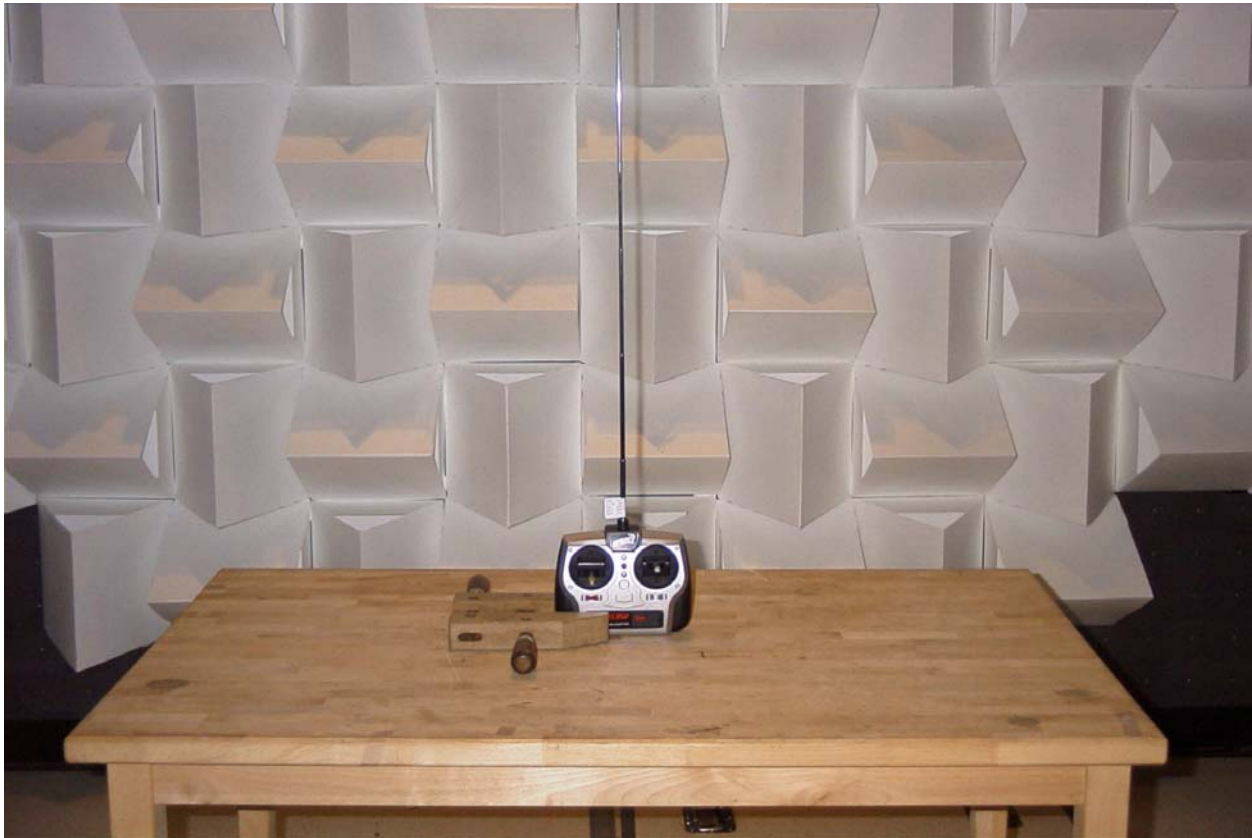
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TEST SET UP PICTURE



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