849 NW State Road 45 Newberry, Florida 32669 http://www.timcoengr.com

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Test Report

Product Name: 27 MHz WIRELESS REMOTE CONTROL TRANSMITTER

FCC ID: OKP0302

Applicant:

WOW WEE LIMITED
ENERGY PLAZA, SUITE 301A-C
92 GRANVILLE ROAD
TST EAST
HONG KONG

Date Receipt: OCTOBER 14, 2003

Date Tested: OCTOBER 23, 2003

APPLICANT: WOW WEE LIMITED

FCC ID: OKP0302

REPORT #: W\WOW_OKP\1429HT3\1429HT3TestReport.doc

COVER SHEET

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EMC Equipment List

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter	TEI	N/A	N/A	Listed 3/26/01	3/26/04
OATS					
3-Meter OATS	TEI	N/A	N/A	Listed 1/13/03	1/13/06
Biconnical	Eaton	94455-1	1057	CAL 3/18/03	3/18/05
Ante nna					
Biconnical	Eaton	94455-1	1096	CAL 10/1/01	10/1/03
Antenna					
Biconnical	Electro-	BIA-25	1171	CAL 4/26/01	4/26/03
Antenna	Metrics				
Blue Tower	HP	85650A	2811A01279	CAL 4/15/03	4/15/05
Quasi-Peak					
Adapter					
Blue Tower	HP	85685A	2926A00983	CAL 4/15/03	4/15/05
RF Preselector					
Blue Tower	HP	8568B	2928A04729	CAL 4/15/03	4/15/05
Spectrum			2848A18049		
Analyzer					
LISN	Electro-	ANS-25/2	2604	CAL 10/9/01	10/9/03
	Metrics				
LISN	Electro-	EM-7820	2682	CAL 3/12/03	3/12/05
	Metrics				
Log-Periodic Antenna	Eaton	96005	1243	CAL 5/8/03	5/8/05

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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 C63.4-1992 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:

ANSI STANDARD C63.4-1992 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	Meter	Ant.	Coax	Correction	Field	Margin
Frequency	Reading	Polarity	Loss	Factor	Strength	đВ
\mathtt{MHz}	dBuV		đВ	đВ	$\mathtt{dBuV/m}$	
27.15	45.0	H	0.31	13.96	59.27	20.73
27.15	55.2	v	0.31	12.42	67.93	12.07
54.29	16.1	H	0.84	10.34	27.28	12.72
54.29	18.9	v	0.84	9.93	29.67	10.33
81.40	18.4	v	1.06	8.46	27.92	12.08
81.40	19.4	H	1.06	8.96	29.42	10.58
108.50	9.7	H	1.23	11.12	22.05	21.45
108.50	10.3	v	1.23	11.36	22.89	20.61
135.65	16.0	H	1.34	14.43	31.77	11.73
135.65	20.8	v	1.34	15.03	37.17	6.33
162.89	7.6	H	1.50	16.67	25.77	17.73
162.89	7.7	v	1.50	17.77	26.97	16.53
190.02	6.7	v	1.72	14.91	23.33	20.17
190.02	12.8	H	1.72	14.21	28.73	14.77
217.20	8.3	v	1.87	11.36	21.53	24.47
217.20	13.8	H	1.87	12.11	27.78	18.22
244.35	10.5	v	1.98	12.16	24.64	21.36
244.35	14.8	H	1.98	12.52	29.30	16.70
271.49	18.4	H	2.09	13.72	34.21	11.79
271.49	21.0	v	2.09	12.82	35.91	10.09

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

TEST PROCEDURE: The procedure used was ANSI STANDARD C63.4-1992. 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.

TEST RESULTS: THE UNIT DOES MEET THE FCC REQUIREMENTS.

PERFORMED BY: NAM NGUYEN DATE: OCTOBER 23, 2003

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APPLICANT: WOW WEE LIMITED

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NAME OF TEST: Occupied Bandwidth

RULES PART NO.: 15.227

REQUIREMENTS: The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated to the general limits of 15.209.

TEST DATA:

THE GRAPH ON THE NEXT PAGE REPRESENTS THE EMISSIONS TAKEN FOR THE DEVICE.

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. The horizontal scale is set to 10 kHz per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY: NAM NGUYEN DATE: OCTOBER 23, 2003

APPLICANT: WOW WEE LIMITED

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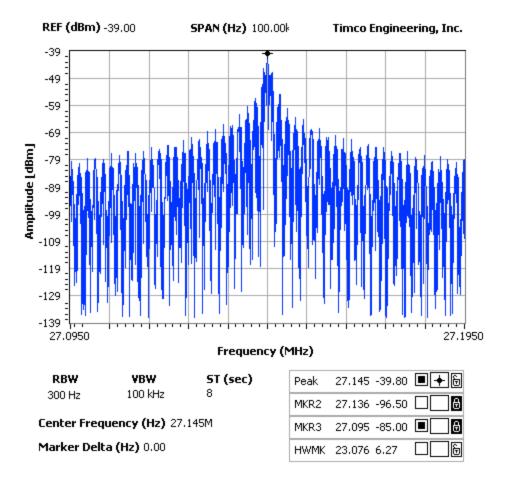
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OCCUPIED BANDWIDTH

NOTES:

WOW WEE LIMITED - 27 MHz WIRELESS R/C TOY - TX - FCC ID: OKP0302 OCCUPIED BANDWIDTH PLOT

FCC 15.227 Mask



APPLICANT: WOW WEE LIMITED

FCC ID: OKP0302