

TIMCO ENGINEERING INC.

849 NW State Road 45

Newberry, Florida 32669

<http://www.timcoengr.com>

888.472.2424 F 352.472.2030 email: sid@timcoengr.com



Test Report

Product Name: WIRELESS DEVICE TX

FCC ID: N3ETRACKER70108T

Applicant:

**WILD PLANET TOYS INC.
98 BATTERY STREET, SUITE 300
SAN FRANCISCO CA. 94111**

Date Receipt: 5/17/2005

Date Tested: 5/17/2005

APPLICANT: WILD PLANET TOYS INC.

FCC ID: N3ETRACKER70108T

REPORT #: W\Wild_N3E\1069HT5\1069HT5TestReport.doc

COVER SHEET

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EXHIBITS INCLUDING:

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BLOCK DIAGRAM
SCHEMATIC
LABEL SAMPLE
LABEL LOCATION
PARTS LIST
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CIRCUIT DESCRIPTION
EXTERNAL PHOTOGRAPHS
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EMC Equipment List

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date or Status
3-Meter OATS	TEI	N/A	N/A	Listed 1/13/03	1/12/06
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 9/23/03	9/23/05
Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 9/23/03	9/23/05
Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 9/23/03	9/23/05
Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 9/23/03	9/23/05
Biconnical Antenna	Eaton	94455-1	1096	CAL 8/17/04	8/17/06
BiconiLog Antenna	EMCO	3143	9409-1043	No Cal Required	
Log-Periodic Antenna	Electro-Metrics	LPA-25	1122	CAL 8/26/04	8/26/06
Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	153	CAL 9/26/03	9/26/05
Double-Ridged Horn Antenna	Electro-Metrics	RGA-180	2319	CAL 12/29/04	12/29/06
Horn Antenna *(at 3 meters)	Electro-Metrics	EM-6961	6246	CAL 3/31/03	3/31/05
Horn Antenna *(at 10 meters)	Electro-Metrics	EM-6961	6246	CAL 6/4/03	6/4/05
Termaline Wattmeter	Bird Electronic Corporation	611	16405	CAL 7/16/04	7/16/06
Termaline Wattmeter	Bird Electronic Corporation	6104	1926	CAL 7/16/04	7/16/06
Oscilloscope	Tektronix	2230	300572	CAL 7/3/03	7/3/05
Temperature Chamber	Tenney Engineering	TTRC	11717-7	CHAR 1/22/03	1/22/05
AC Voltmeter	HP	400FL	2213A14499	CAL 7/19/04	7/19/06
Peak Power Meter	HP	8900C	2131A00545	CAL 7/2/03	7/2/05
Power Sensor	Agilent Technologies	84811A	2551A02705	CAL 7/2/03	7/2/05

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Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date or Status
Power Meter	HP	432A	1141A07655	CAL 4/11/05	4/11/07
Power Sensor	HP	478A	72129	CAL 4/11/05	4/11/07
Power Meter And Sensor	Bird	4421-107 & 4022	0166 & 0218	CAL 4/16/03	4/16/05
Digital Thermometer	Fluke	2166A	42032	CAL 7/19/04	7/19/06
Thermometer	Extech	4028	14871-2	CAL 3/7/03	3/7/05
Frequency Counter	HP	5352B	2632A00165	CAL 8/3/04	8/3/06
Frequency Counter	HP	5385A	2730A03025	CAL 4/15/05	4/15/07
Service Monitor	IFR	FM/AM 500A	5182	CAL 11/05/04	11/5/06
Signal Generator	HP	8640B	2308A21464	CAL 8/26/04	8/26/06
Sweep Generator	Wiltron	6648	101009	CAL 4/15/03	4/15/05
Sweep Generator	Wiltron	6669M	007005	CAL 3/3/03	3/3/05
Modulation Analyzer	HP	8901A	3435A06868	CAL 9/5/04	11/22/06
Audio Generator	B&K Precision	3010	8739686	CHAR 12/1/04	12/1/06
Frequency Counter	HP	5385A	3242A07460	CAL 4/15/05	4/15/07
Amplifier	HP	11975A	2738A01969	No Cal Required	
Measuring Tape-20M	Kraftixx	0631-20		CHAR 2/1/04	2/1/06
Measuring Tape-7.5M	Kraftixx	7.5M PROFI		CHAR 2/1/04	2/1/06
Compliance Test System - AC Power Source	California Instruments	1251RP	L05865	CAL 2/25/04	2/25/06
Compliance Test System - PACS-1 Module	California Instruments	PACS-1	X71484	CAL 2/25/04	2/25/06
Amplifier	Amplifier Research	10W1000B	23117	No Cal Required	
Field Monitor	Amplifier Research	FM5004	22288	No Cal Required	

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Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date or Status
Standard Gain Horn 1.0-2.4 GHz	Polarad	CA-L	235	No Cal Required	
Standard Gain Horn 2.14-4.34 GHz	Polarad	CA-S	203	No Cal Required	
Standard Gain Horn 3.95-5.85 GHz	Scientific- Atlanta Inc.	11A-3.9	8448CG	No Cal Required	
AC Voltmeter	HP	400F	0950A05433	CAL 8/13/03	8/13/05
Electric Field Sensor	Amplifier Research	FP6001	302504	CAL 8/23/04	8/23/06
Electric Field Sensor	Amplifier Research	FP6001	302510	CAL 6/1/04	6/1/06
RF Power Amplifier	Ophir RF, Inc.	5150F	1041	CHAR 10/31/03	10/31/05
3-Meter Anechoic Chamber	Panashield	N/A	N/A	Listed 5/12/04	5/11/07
Digital Multimeter	Fluke	77III	79510408	CAL 7/19/04	7/19/06
Signal Generator	HP	8648C	3847A04696	CAL 9/27/04	9/27/06

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TEST PROCEDURES

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. In the frequency range 10 kHz to 30 MHz the RBW was 10 kHz and from 30-1000 MHz the RBW 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.

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 C63.4-2003 Section 8.2.1 MEASUREMENT PROCEDURES: The EUT was placed on a non-conducting table 80 cm above the ground plane with the EUT located in the center of the table. With the antenna vertical a preliminary scan was done at 1 meters distance, the EUT was moved to a 3.0-meter distance and the antenna height varied and also placed in a horizontal position. The frequency was scanned from 9.0 kHz to 1.0 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. The EUT was measured in three (3) orthogonal planes. The unit was measured at TIMCO ENGINEERING, INC. located at 849 N.W. State Road 45 Newberry, Florida 32669.

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APPLICANT: WILD PLANET TOYS INC.
FCC ID: N3ETRACKER70108T
NAME OF TEST: RADIATION INTERFERENCE
RULES PART NO.: 15.109(a) and 15.209
REQUIREMENTS: CARRIER FREQUENCY WILL NOT EXCEED 2400/F (kHz) AT 300 METERS – OR 99.24 dBuV/m @ 3 METERS.

OUT-OF-BAND EMISSIONS SHALL NOT EXCEED THE LEVEL OF THE FUNDAMENTAL.

9 to 490 KHz:	2400/F (kHz) uV/m @ 300 METERS
490 to 1705 KHz:	24000/F (kHz) uV/m @ 30 METERS
1705 to 30 MHz:	29.54 dBuV/M @ 30 METERS
30 to 88 MHz:	40.00 dBuV/M @ 3 METERS
88 to 216 MHz:	43.50 dBuV/M
216 to 960 MHz:	46.02 dBuV/M
ABOVE 960 MHz:	54.00 dBuV/M

TEST DATA:

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
0.262	5.6	H	0.00	58.85	64.45	34.79

There were no other emissions noted.

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

TEST PROCEDURE: The procedure used was ANSI C63.4-2003. The frequency was scanned from 9.0 kHz to 1.0 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. The EUT was measured in three (3) orthogonal planes. The unit was measured at TIMCO ENGINEERING, INC. located at 849 N.W. State Road 45 Newberry, Florida 32669.

TEST RESULTS: THE UNIT DOES MEET THE FCC REQUIREMENTS.

PERFORMED BY: NAM NGUTEN

DATE: 5/20/2005

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NAME OF TEST: Occupied Bandwidth

RULES PART NO.: 15.209

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 at least 26 dB below the level of the un-modulated carrier or to the general limits of 15.209, whichever permits the higher emission levels.

THE GRAPH ON THE FOLLOWING 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 above photo was taken. The vertical scale is set to -10 dBm per division. The horizontal scale is set to 5 kHz per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY: NAM NGUYEN

DATE: 5/20/2005

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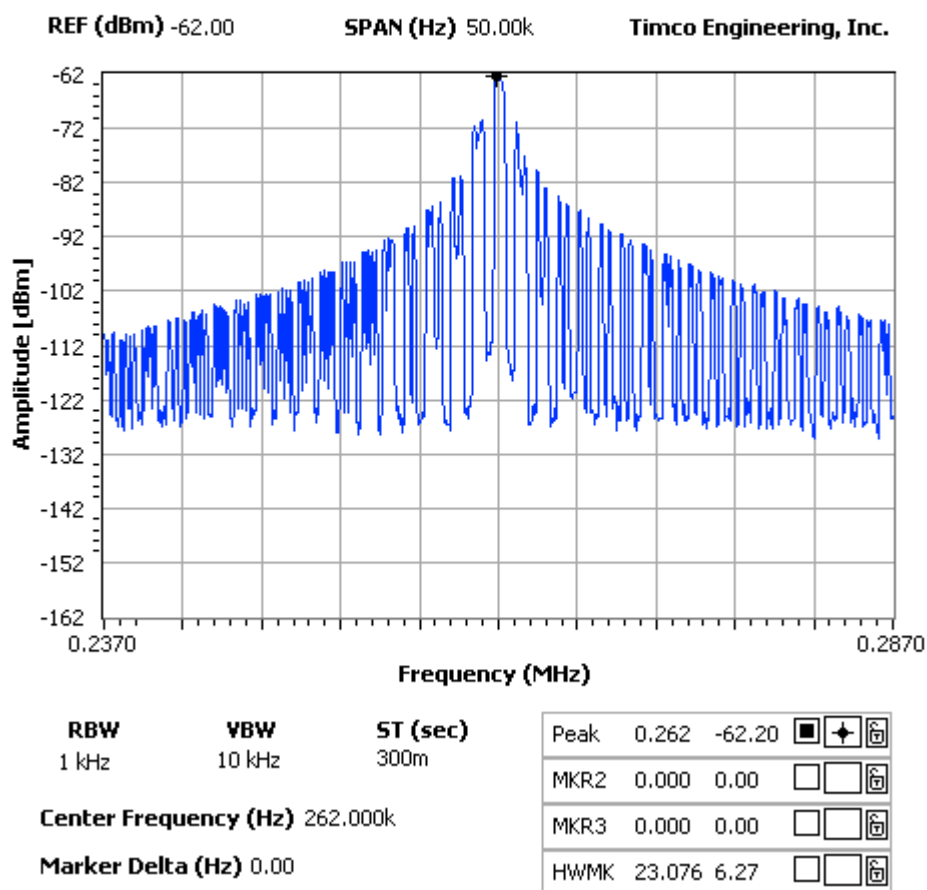
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NOTES:

WILD PLANET TOYS INC. - FCC ID: N3ETRACKER70108T

OCCUPIED BANDWIDTH PLOT



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