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Test Report

Product Name: 49 MHz WIRELESS DEVICE - TX

FCC ID: N3ESPYBUG70068

Applicant:

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

Date Receipt: SEPTEMBER 15, 2003

Date Tested: SEPTEMBER 17, 2003

APPLICANT: WILD PLANET TOYS INC.

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Equipment List

Device 3/10-Meter OATS	Manufacturer TEI	Model N/A	Serial Number N/A	Cal/Char Date Listed 3/26/01	Due Date 3/26/04
3-Meter OATS	TEI	N/A	N/A	Listed 1/13/03	1/13/06
Biconnical Antenna	Eaton	94455-1	1057	CAL 3/18/03	3/18/05
Biconnical Antenna	Eaton	94455-1	1096	CAL 10/1/01	10/1/03
Biconnical Antenna	Electro- Metrics	BIA-25	1171	CAL 4/26/01	4/26/03
Blue Tower Quasi-Peak Adapter	НР	85650A	2811A01279	CAL 4/15/03	4/15/05
Blue Tower RF Preselector	HP	85685A	2926A00983	CAL 4/15/03	4/15/05
Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/15/03	4/15/05
LISN	Electro- Metrics	ANS-25/2	2604	CAL 10/9/01	10/9/03
LISN	Electro- Metrics	EM-7820	2682	CAL 3/12/03	3/12/05
Log-Periodic Antenna	Eaton	96005	1243	CAL 5/8/03	5/8/05
Log-Periodic Antenna	Electro- Metrics	EM-6950	632	CHAR 10/15/01	10/15/03
Log-Periodic Antenna	Electro- Metrics	LPA-25	1122	CAL 10/2/01	10/2/03
Log-Periodic Antenna	Electro- Metrics	LPA-30	409	CAL 3/4/03	3/4/05
Silver Tower Preamplifier	HP	8449B	3008A01075	CHAR 1/28/02	1/28/04
Silver Tower Quasi-Peak Adapter	HP	85650A	3303A01844	CAL 10/14/02	10/14/04
Silver Tower RF Preselector	НР	85685A	2620A00294	CAL 10/14/02	10/14/04
Silver Tower Spectrum Analyzer	НР	8566B Opt 462	3552A22064 3638A08608	CAL 10/14/02	10/14/04
Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CHAR 3/4/01	3/4/03
Tan Tower Quasi-Peak Adapter	НР	85650A	3303A01690	CAL 8/31/01	8/31/03
Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 8/31/01	8/31/03
Tan Tower Spectrum Analyzer	НР	8566B Opt 462	3138A07786 3144A20661	CAL 8/31/01	8/31/03

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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 Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

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

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.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSIC63.4-1992 with the EUT 40 cm from the vertical ground wall.

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APPLICANT: WILD PLANET TOYS INC.

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NAME OF TEST: RADIATION INTERFERENCE

RULES PART NO.: 15.235

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
MHz	dBuV		đВ	đВ	dBuV/m	
49.86	21.7	H	0.80	11.83	34.33	45.67
49.86	26.0	V	0.80	11.32	38.12	41.88
99.70	17.9	H	1.20	11.48	30.58	12.92
99.70	20.1	v	1.20	11.89	33.19	10.31
149.47	4.4	H	1.40	16.45	22.25	21.25
149.47	4.7	v	1.40	17.42	23.52	19.98
199.43	5.3	H	1.80	17.19	24.29	19.21
199.43	5.5	v	1.80	17.93	25.23	18.27
249.23	4.7	v	2.00	12.45	19.15	26.85
249.23	5.1	H	2.00	12.76	19.86	26.14
298.88	3.9	H	2.20	14.23	20.33	25.67
298.88	4.1	v	2.20	13.62	19.92	26.08
348.70	3.9	v	2.49	14.69	21.08	24.92
348.70	4.1	H	2.49	15.69	22.28	23.72
398.60	3.3	v	2.79	15.90	21.99	24.01
398.60	3.9	H	2.79	16.16	22.85	23.15

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: SEPTEMBER 17, 2003

APPLICANT: WILD PLANET TOYS INC.

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APPLICANT: WILD PLANET TOYS INC.

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NAME OF TEST: Occupied Bandwidth

RULES PART NO.: 15.235

REQUIREMENTS: he 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 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 5 kHz per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY: NAM NGUYEN DATE: SEPTEMBER 17, 2003

APPLICANT: WILD PLANET TOYS INC.

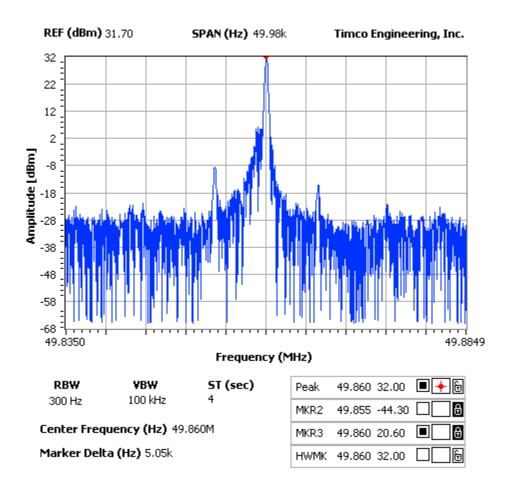
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OCCUPIED BANDWIDTH PLOT

NOTES: WILD PLANET TOYS INC. FCC ID: N3ESPYBUG70068 OCCUPIED BANDWIDTH PLOT



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