SGS-CSTC Standards Technical Services Ltd.

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FEDERAL COMMUNICATIONS COMMISSION Laboratory Division
7435 Oakland Mills Road Columiba,MD 21046
May 31,2002

FCC TEST REPORT

Application No. : 02.06.0608E-1

Applicant : PLANET TOYS WORLDWIDE LTD

FCC ID : QG3200

Equipment under Test (EUT):

Name : Mini RC – Car Asst

Standards : FCC PART 15, SUBPART C : 2000

Date of Receipt : 14 June 2002

Date of Test : 25 June 2002

Date of Issue : 26 June 2002

Test Result :	**PASS ***

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Jerry Chen
EMC Laboratory
SGS-CSTC Ltd.

This device can be expected to comply with Part 15 of the FCC Rules Operation is subject to the following conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause

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3 General Information

3.1 Client Information

Applicant:	PLANET TOYS WORLDWIDE LTD
Address of Applicant:	1107 Chinachem Golden Plaza, 77 Mody Road, TST East, Kowloon, HK.
Name:	Mini RC – Car Asst

3.2 Details of E.U.T.

Power Supply:	4.5V DC (3 x 'AA' Batteries)
Power Cord:	N/A-

3.3 Description of Support Units

The EUT was tested as an independent unit.

3.4 Test Location

All tests were performed at:-

SGS-CSTC Standards Technical Services Ltd., Guangzhou Safety & EMC Laboratory, 1/F, Building No. 1, Agriculture Machinery Materials Company Warehouse Ltd., Wushan Road Shipai, Tianhe District, Guangzhou, China. P.C. 510630.

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SGS UK Certificate No.: L32

Frederal Communications Commission laboratory division

Registration number: 282399

3.5 Other Information Requested by the Customer

None.

4 Test Results

4.1 Test Instruments

Description	Manufacturer	Model No.	Asset No.	Date of Cal.
Temperature, Humidity & Barometer	Oregon Scientific	BA-888	EMC023	26-07-2001
Radiated Emissions CNE	LAPLACE	ERS-A	EMC025	27-04-1998
Bioconic Antenna	R & S	HK116	EMC047	14-12-2001
3M Semi-Anechoic Chamber	Frankonia	11.5 x 7.5 x 6 m^3	EMC1001	21-01-2002
0.8m Test Table	SGS-CSTC	N/A	EMC1003	N/A
EMI Receiver	R & S	ESCS30	EMC2001	13-11-2001
Spectrum Analyser	SCHAFFNER	R3261C+99	EMC071	26-07-2001
Log-Periodic Dipole Antenna	R & S	HL233	EMC2005	17-12-2001
Monitor System	HD-GmbH	N/A	EMC2008	N/A
Antenna Mask	HD-GmbH	AS620M	EMC2010	N/A
Turn-Table	HD-GmbH	DT430	EMC2014	N/A
Turn_Table & Mask Controller	ADVANTEST	HD-GmbH HD100	EMC2015	N/A
Coaxial Cable (12m)	R & S	HFU2-Z4	EMC3001	08-03-2002
EMI Test Software	R & S	ES-K1	EMC5001	N/A

4.2 E.U.T. Operation

Input voltage: 4.5 V DC (3 x 'AA' Batteries)

Operating Environment:

Temperature: 24.0 °C
Humidity: 52 % RH
Atmospheric Pressure: 1006 mbar

EUT Operation:

Test the EUT in On Mode.

4.3 Test Procedure & Measurement Data

4.3.1 Radiated Emissions

Test Requirement:	FCC Part15 C
Test Method:	Based on FCC Part15 C Section 15.235
Test Date:	25 June 2002
Measurement Distance:	3m (Semi-Anechoic Chamber)
Requirements:	Carrier frequency will not exceed 80dBuV/m AT 3m. Out of band emissions shall not exceed: 40.0 dBμV/m between 30MHz & 88MHz 43.5 dBμV/m between 88MHz & 216MHz 46.0 dBμV/m between 216MHz & 960MHz 54.0 dBμV/m above 960MHz
Detector:	Peak Scan (120kHz resolution bandwidth)

Test Procedure: The procedure uesd was ANSI Standard C63.4-1992. The receive was scanned from 30MHz to 1000MHz. When an emission was found, the table was roated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the horizontal and vertical polarities and the worst case emissions were reported.

The following Peak measurements were performed on the EUT on 25h June 2002:
Test the EUT in On Mode.

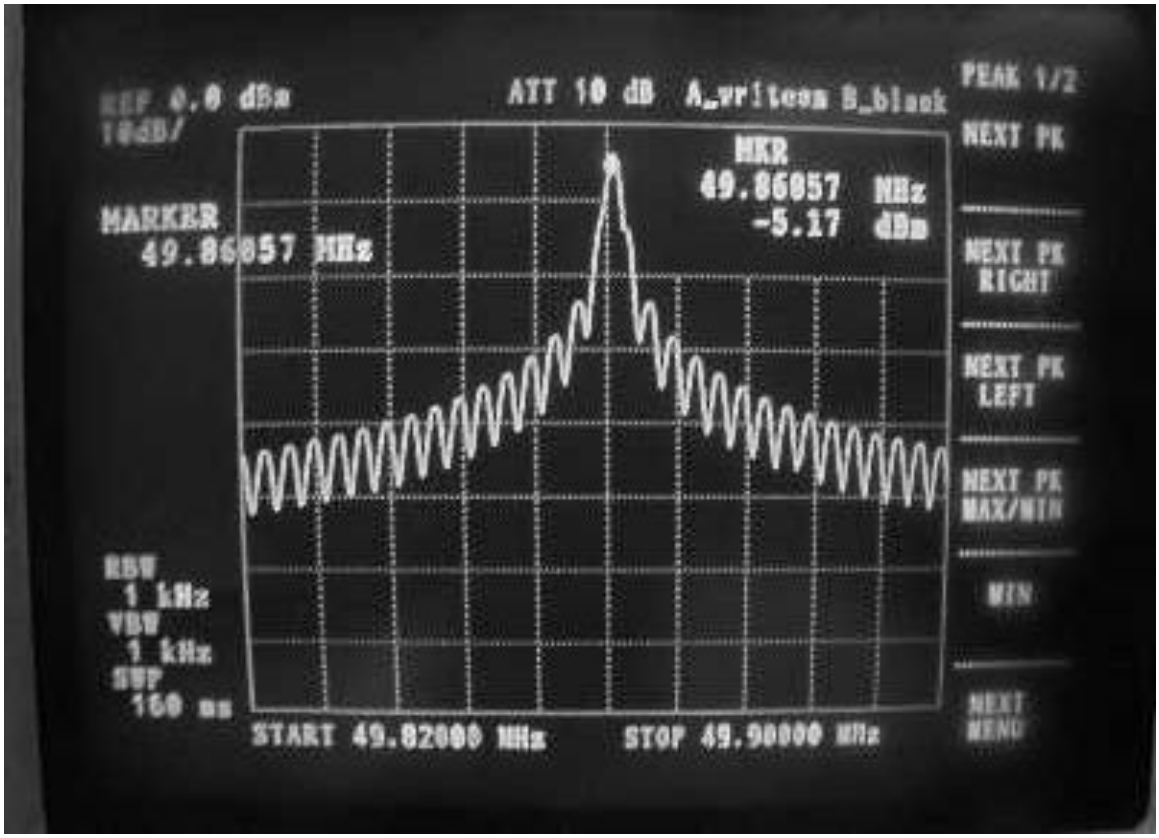
Test Frequency (MHz)	Test Level (dBuV/m)		Limits (dBuV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
49.860	73.9	45.4	80.0	6.1	34.6
99.720	29.4	20.4	43.5	14.1	23.1
149.580	24.5	25.4	43.5	19.0	18.1
199.440	28.4	27.3	43.5	15.1	16.2
249.300	28.9	23.8	46.0	17.1	22.2
299.160	31.2	22.4	46.0	14.8	23.6
349.020	36.0	31.0	46.0	10.0	15.0
398.880	34.2	30.2	46.0	11.8	15.8
448.740	33.4	29.8	46.0	12.6	16.2
498.600	32.4	31.0	46.0	13.6	15.0

Test Results: The unit does meet the FCC requirements.

4.3.2 Occupied Bandwidth

Test Requirement:	FCC Part15 C
Test Method:	Based on FCC Part15 C Section 15.235: Operation within the band 49.82 – 49.90 MHz
Test Date:	25 June 2002
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 unmodulated carrier or to the general limits in Section 15.209, whichever permits the higher emission levels.
Method of measurement:	A small sample of the transmitter output was fed into the S\pectrum Analyzer and the attached plot was taken. The vertical is set to –10dB per division. The horizontal scale is set to 5KHz per division.

The graph as below, represents the emissions take for this device.



The results: The unit does meet the FCC requirements.

4.4 Photographs - Radiated Emission Test Setup in Chamber

5 Photographs - EUT Constructional Details