FCC-

TEST REPORT

REPORT NO.: 27499B/1/400F

No. 27499B/1/400F

Date: <u>2001-09-05</u> Page 2 of 11

FCC listed testlab acc. to Section 2.948 of the FCC - Rules

in compliance with the requirements of ANSI C63.4 - 1992

Product : ET Biker

Product Class: Low Power Communication Device

Receiver

Model : 90333

Importer: ECHO TOYS LTD

Manufacturer: ECHO TOYS LTD

No. 27499B/1/400F

Date: <u>2001-09-05</u> Page 3 of 11

TABLE OF CONTENTS

1. Cover s	heet
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- 2. Introduction
- 3. Table of Contents
- 4. Laboratory Report
- 5. Summary of Testresults
- 6. Test Equipment List
- 7. Radiated Emission Testprocedure (> 30MHz)
- 8. Radiated Emission Testprocedure (9kHz 30MHz)
- 9. Interference Radiation (Datasheet)
- 10. Cohere Plot at Fundamental Frequency
- 11. Notes for Radiation Measurement (acc. to ANSI C63.4 1992)

No. 27499B/1/400F

Date: 2001-09-05

Page 4 of 11

LABORATORY - REPORT

APPLICANT: ECHO TOYS LTD

ADDRESS: 8 A&B, Tai Ping Industrial Centre, Block 1

57 Ting Kok Road, Taipo, HONG KONG

DATE OF SAMPLE RECEIVED: 2001/08/09

DATE OF TESTING: 2001/08/25

DESCRIPTION OF SAMPLE:

Product: ET Biker

Product class: Low Power Communication Device Receiver

Manufacturer: ECHO TOYS LTD

Model number: 90333

Rating: DC 6V ('AA' Size Battery x 4)

Country of Origin: P.R. CHINA

INVESTIGATIONSMeasurements to the relevant clauses of F.C.C. Rules and Regulations

REQUESTED: Part 15 Subpart B – 'Unintentional Radiators'

RESULTS: See the attached test sheets

CONCLUSIONS From the measurement data obtained, the tested sample was considered

to have COMPLIED with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

Authorized Signature

Remark: Purpose of those tests in this report is to provide the applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under the FCC Equipment Authorization Program. The tests themselves are not Approval Tests

No. 27499B/1/400F

Date: 2001-09-05

Page 5 of 11

Summary of Test Results

Interference Radiation:

Test result: O.K.

Test data: See attached data sheet

Interference Voltage:

Test result: N.A. Test data: N.A.

PHOTOGRAPH OF THE SAMPLE



FCC – Test Report Date: 2001-09-05

No. 27499B/1/400F

Page 6 of 11

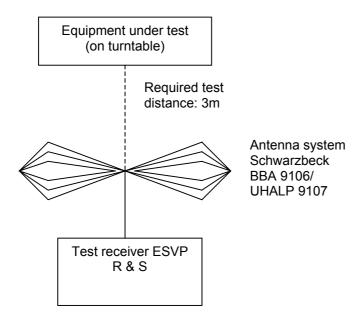
TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Remark	
Test Receiver	Rohde & Schwarz	ESH 3	863497/015	10KHz – 30MHz	
Test Receiver	Rohde & Schwarz	ESVP	860688/022	25MHz – 1,300 MHz	
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127		2 x 10A, 50Ω, 50μH 10KHz-30MHz	
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107		30MHz – 1000MHz	
Antenna Mast System	Schwarzbeck	AM9104		Max. 4 meters height	
Spectrum Analyzer with Q. Peak	Tektronix	2712	B023006	9KHz – 1.8GHz	
Interface for Spectrum 2712	Tektronix	TD3F14A			
Loop Antenna	Rohde & Schwarz	HFH2-Z2	871336/48	9KHz-30MHz	
Test Receiver	Rohde & Schwarz	ESH 3	892580/006	10KHz – 30MHz	
Test Receiver	Rohde & Schwarz	ESVP	863512/012	25MHz – 1,300 MHz	
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2			
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107		30MHz – 1000MHz	
Signal Generator	Rohde & Schwarz	SWS 2	879113/42	100KHz – 1040 MHz	
Digital Multimeter	Tektronix	DM2510G	DM- 2510GTW105 55	10KHz – 30MHz	
Turntable with Controller	Drehtisch	DT312		ф120 cm	

No. 27499B/1/400F

Date: <u>2001-09-05</u> Page 7 of 11

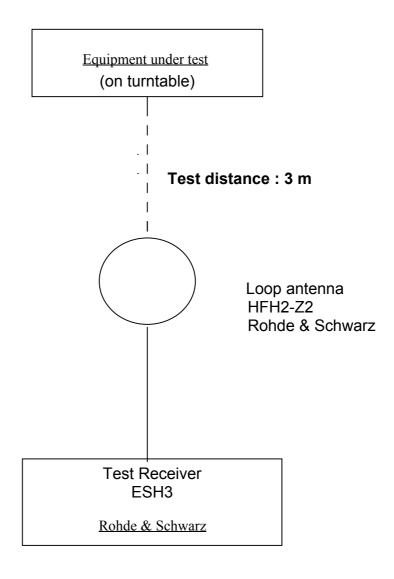
Radiated Emission Testprocedure (> 30MHz)



No. 27499B/1/400F

Date: <u>2001-09-05</u> Page 8 of 11

Radiated Emission Test Procedure (9kHz - 30MHz)



Unintentional Radiators

Date: <u>2001-08-25</u> Page 9 of 11

Measurement of Radiated Emissions Acc: FCC Part 15 Subpart B

Application no.: 27499B/1/400F

 Model:
 90333

 Applicant:
 ECHO TOYS LTD

Sample no.: 1

Set under test: ET Biker

Connected sets: -

Operating mode: Receiver - Power "On"

Test Equipment

Receiver: ESVP Rohde & Schwarz

Antenna: - Schwarzbeck BBA 9106

- Schwarzbeck UHALP 9107 - Rohde & Schwarz HFH2-Z2

Frequency (MHz)	Но	rz. Reading dΒ(μV)		Vert. Reading dB(μV)	Antenna Factor (dB)		loriz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
30	<	16	٧	16	18.4	<	34.4	< 34.4	40.0
50	<	16	٧	16	11.7	<	27.7	< 27.7	40.0
100	<	16	٧	16	10.3	<	26.3	< 26.3	43.5
300	<	16	٧	16	20.0	<	36.0	< 36.0	46.0
500	<	16	٧	16	19.7	<	35.7	< 35.7	46.0
700	<	16	٧	16	22.4	<	38.4	< 38.4	46.0
1000	<	16	٧	16	26.5	<	42.5	< 42.5	54.0

Remark: All frequencies in the required range have been scanned and only those

significant and representative readings are reported above. All emissions not reported above are all well below the limit.

No. 27499B/1/400F

Date: 2001-09-05

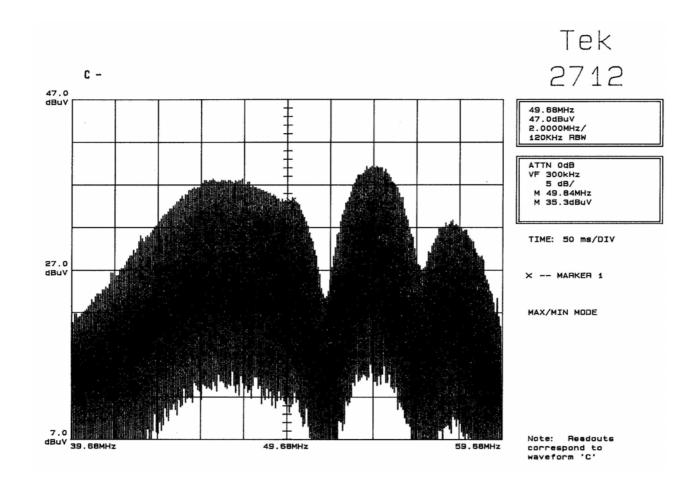
Page 10 of 11

Cohere Plot at fundamental frequency

Sample location: Less than 0.5m from the measuring antenna

Applied signal: - 60dBm (non-modulated, 49.86 MHz)

Remark: Self-cohere



No. 27499B/1/400F

Date: <u>2001-09-05</u> Page 11 of 11

Notes for Radiation Measurement

1. Measurement facility:

Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules.

2. Distance between the EUT and measuring antenna:

3 meters.

3. Measuring instrumentations:

Rohde & Schwarz ESVP Test Receiver (20 - 1300 MHz) with a CISPR weighting QP detector, 6 dB bandwidth set at 120 KHz.

4. Measuring antenna:

Broad-band antenna for the frequency range 30 - 300 MHz and frequency range 300 - 1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the Antenna Factor for measurement data. The antennas are capable of measuring both horizontal and vertical polarizations.

Loop antenna for the frequency range 9KHz – 30MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the measurement data. The center of the loop 1 m above the ground plane, positioned with its plane vertical at the specified distance and rotated about its vertical axis and placed horizontal for maximum response at each azimuth about the EUT.

5. Frequency range scanned:

The frequency range 30 - 1000 MHz has been scanned. Readings of the highest emissions relating to the limit were reported as above.

6. Arrangement of EUT:

During the test, the sample was operated at rated supply voltage and arranged for maximum emissions. To find the maximum emission, the antenna was raised from 1 to 4 meters and was stopped at the maximum emission point.

7. Measuring Procedure:

In **accordance** with the relevant sections of the American National Standards Institute (ANSI) C63.4-1992 'Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz'.