



## SGS-CSTC Standards Technical Services Co., Ltd.

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Report No.: SZEMO080603019TXF (R)  
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FCC ID: U2F30040801R4

# FCC Test Report

**Application No.:** SZEMO080603019TX  
**Applicant:** RIDEMAKERZ LLC.  
**Equipment Under Test (EUT):**  
EUT Name: RC car  
Item No.: 3004  
FCC ID: U2F30040801R4  
**Standards:** FCC PART15 SUBPART B:2007  
**Date of Receipt:** 30 June 2008  
**Date of Test:** 30 June to 22 July 2008  
**Date of Issue:** 23 July 2008

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo  
Laboratory Manager

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## 2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2007	ANSI C63.4:2003	Class B	PASS

Remark:

New batteries were installed in the EUT during all tests.

The three channels of the EUT has the same carried frequency 49.860MHz, with only different of the modulation signal code.

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## **4 General Information**

### **4.1 Client Information**

Applicant: RIDEMAKERZ LLC.

Address of Applicant: 1930 INNERBELT BUSINESS CENTER DR. ST. LOUIS, MISSOURI 63114.

### **4.2 Details of E.U.T.**

Power Supply: 6.0V DC ( 4\* 1.5 " AA" Size Batteries) for Rx.

### **4.3 Description of Support Units**

The EUT has been tested as an independent unit.

### **4.4 Standards Applicable for Testing**

The customer requested FCC tests for a receiver for a 49MHz transmitter.

The standard used was FCC PART 15, SUBPART B, CLASS B (2007)

### **4.5 Test Location**

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663

Tel: +86 20 8215 5555 Fax: +86 20 8207 5059

No tests were sub-contracted.

### **4.6 Deviation from Standards**

None.

### **4.7 Abnormalities from Standard Conditions**

None.

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## 5 Equipments Used during Test

R&TTE RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2007	15-06-2009
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2007	11-12-2008
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	01-06-2008	31-05-2009
5	Coaxial cable	SGS	N/A	SEL0027	01-06-2008	31-05-2009
6	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2007	11-08-2008
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	27-06-2007	26-06-2008
8	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15-06-2007	14-06-2008

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## 6 Test Results

### 6.1 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	FCC Part15 B
Test Method:	ANSI C63.4
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Class:	Class B
Limit:	40.0 dB $\mu$ V/m between 30MHz & 88MHz 43.5 dB $\mu$ V/m between 88MHz & 216MHz 46.0 dB $\mu$ V/m between 216MHz & 960MHz 54.0 dB $\mu$ V/m above 960MHz
Detector:	Peak for pre-scan (120kHz resolution bandwidth) Quasi-Peak if maximised peak within 6dB of limit

#### 6.1.1 E.U.T. Operation

Operating Environment:			
Temperature:	23.0 °C	Humidity:	52 % RH
		Atmospheric Pressure:	1015 mbar
EUT Operation:	Test the EUT in On Mode.		

#### 6.1.2 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.



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Vertical:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
320.03	1.97	14.63	26.88	48.63	38.35	46.00	-7.65
339.43	2.03	15.16	27.02	52.44	42.61	46.00	-3.39
442.25	2.38	16.74	27.54	51.20	42.78	46.00	-3.22
488.81	2.56	17.80	27.68	46.93	39.61	46.00	-6.39
696.39	2.89	21.58	27.29	33.32	30.50	46.00	-15.50

Horizontal:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
324.88	1.98	14.80	26.92	51.39	41.25	46.00	-4.75
364.65	2.11	15.78	27.19	51.40	42.10	46.00	-3.90
403.45	2.21	16.31	27.42	50.52	41.62	46.00	-4.38
463.59	2.46	17.41	27.60	38.94	31.21	46.00	-14.79
727.43	2.98	21.61	27.18	37.60	35.01	46.00	-10.99

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