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FEDERAL COMMUNICATIONS COMMISSION
Registration number: 282399

Report No.: SZEMO051201669RFF(I)
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FCC ID : PKG81060RC49

TEST REPORT

Application No. : SZEMO051201669RF(SGS SZ NO.: SZTYR051201526/EL)
Applicant : May Cheong Toy Products Fty. Ltd.
Supplier : Maisto International Inc.
FCC ID : PKG81060RC49

Fundamental Frequency : 49.860MHz

Equipment under Test (EUT):

EUT Name: 1:24 Radio Control 1967 Ford Mustang GT
Item No.: 81061
Labelled Age Grading: 8 Years+
Country of Origin: China

Standards : FCC PART 15, SUBPART C : 2004
Section 15.235

Date of Receipt : 29 December 2005

Date of Test : 30 December 2005 to 06 January 2006

Date of Issue : 12 January 2006

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo
Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All test results in this report can be traceable to National or International Standards.



2 Test Summary

Test	Test Requirement	Stanadard Paragraph	Result
Radiated Emission (30MHz to 1000MHz)	FCC PART 15 :2004	Section 15.235	PASS
Occupied Bandwidth	FCC PART 15 :2004	Section 15.235	PASS

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.



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4 General Information

4.1 Client Information

Applicant: May Cheong Toy Products Fty. Ltd.
Address of Applicant: 12/F, Empire Centre, 68 Mody Road, Tsimshatsui East, Kowloon.

4.2 Details of E.U.T.

EUT Name: 1:24 Radio Control 1967 Ford Mustang GT
Item No.: 81061
Serial No.: Not supplied by client

4.3 Description of Support Units

The EUT was tested as an independent unit: a 49.860MHz radio transmitter.

4.4 Test Location

All tests were performed at:
SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, 198 KEZHU Road,
SCIENTECH Park Guangzhou Economic & Technology Development District, Guangzhou,
Guangdong, CHINA, P.C. 510663.

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

4.5 Other Information Requested by the Customer

None.



4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP – Lab Code: 200611-0**
SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. Effective through December 31, 2005.
- **ACA**
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.
- **VCCI**
The 3m Semi-anechoic chamber and Shielded Room (11.5m x 4m x 4m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1599 and C-1706 respectively.
Date of Registration: June 01, 2005. Valid until February 22, 2008.
- **SGS UK (Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**
Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.
- **CNAL – LAB Code: L0141**
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.
- **FCC – Registration No.: 282399**
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorised test laboratory for the DoC process.
- **Industry Canada (IC)**
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5169.



5 Test Results

5.1 Test Instruments

RE in Chamber					
Item	Test Equipment	Manufacturer	Serial No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	SEL0017	28-04-2005	27-04-2006
2	EMI Test Receiver	Rohde & Schwarz	100249	22-09-2005	21-09-2006
3	EMI Test software	AUDIX	E3	N/A	N/A
4	Coaxial cable	SGS	SEL0028	30-05-2005	29-05-2006
5	Coaxial cable	SGS	SEL0027	30-05-2005	29-05-2006
6	BiConiLog Antenna	ETS-LINDGREN	00042673	11-01-2005	10-01-2006
7	BiConiLog Antenna	ETS-LINDGREN	00042670	11-01-2005	10-01-2006

5.2 E.U.T. Operation

Input voltage: 9V DC (1*9.0V '6F22' Size Battery) for the transmitter.

Operating Environment:

Temperature: 25.0 °C

Humidity: 56 % RH

Atmospheric Pressure: 1003 mbar

EUT Operation:

Test the EUT in transmitting mode.

5.3 Test Procedure & Measurement Data

5.3.1 Radiated Emissions

Test Requirement: FCC Part15 C Section 15.235

Test Method: ANSI C63.4

Test Date: 04 January 2006

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)



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Test Procedure: The procedure used was ANSI Standard C63.4-2003. The receiver was scanned from 30MHz to 1000MHz. When an emission was found, the table was rotated 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 performed a pre-test three orthogonal planes. The worst case emissions were reported.

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.

The following measurements were performed on the modified modified EUT on 04 January 2006:
Test the EUT in transmitting mode.

Intentional emission

Test Frequency (MHz)	Peak (dB μ V/m)		Limits (dB μ V/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
49.860	75.60	51.55	100.0	24.40	48.45

Test Frequency (MHz)	Average (dB μ V/m)		Limits (dB μ V/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
49.860	71.30	49.23	80.0	8.70	30.77



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Other emissions

Test Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
	Vertical		Vertical
99.72	16.38	43.50	27.12
149.58	7.33	43.50	36.17
199.44	8.87	43.50	34.63
249.30	9.95	46.00	36.05
299.16	11.74	46.00	34.26
349.02	13.30	46.00	32.70
398.88	14.88	46.00	31.12
448.74	15.79	46.00	30.21

Test Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
	Horizontal		Horizontal
99.72	9.76	43.50	33.74
149.58	8.08	43.50	35.42
199.44	8.15	43.50	35.35
249.30	10.25	46.00	35.75
299.16	12.05	46.00	33.95
349.02	13.19	46.00	32.81
398.88	15.25	46.00	30.75
448.74	15.42	46.00	30.58

Remark:

According to 15.35 (b) When average radiated emission measurements are specified in the regulations, including emission measurements below 1000 MHz, there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules, e.g., see Section 15.255.

Test Results: The unit does meet the FCC Part 15 C Section 15.235 requirements.

5.3.2 Occupied Bandwidth

Test Requirement: FCC Part15 C Section 15.235

Test Method: ANSI C63.4

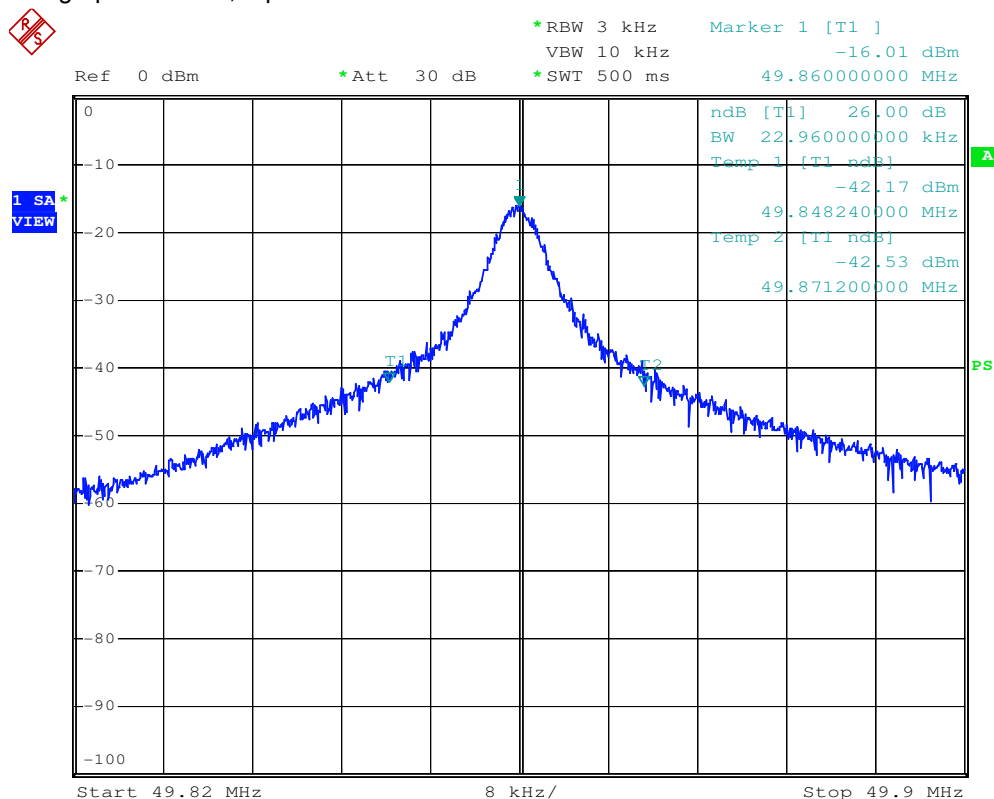
Operation within the band 49.82 – 49.90 MHz

Test Date: 30 December 2005

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. The field strength of any emissions removed by more than 10 kHz from the band edges shall not exceed the general radiated emission limits in Section 15.209.

Method of measurement: The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector. The vertical Scale 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.



Date: 30.DEC.2005 14:34:52

The results: The unit does meet the FCC Part 15 C Section 15.235 requirements.



5.3.3 Photographs - Radiated Emission Test Setup in Chamber

5.3.4 Photographs - EUT Constructional Details