No. 1 Workshop, M-10, Middle Section, Science & Technology Park, District Shenzhen, China 518057 Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Email: sgs_internet_operations@sgs.com FEDERAL COMMUNICATIONS COMMISSION Registration number: 282399

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TEST REPORT

Application No. :	SZEMO090401989ET (SGS SZ NO. SZTYR090401146/EL)
Applicant:	Dickie Toys Hong Kong Ltd./ Dickie Spielzeug GmbH & Co. KG
Applicant Address:	19/F Prudential Tower, The Gateway, Harbour City, 21 Canton Road, TST, HK
Fundamental Frequency :	27.145MHz
Equipment Under Test (El	JT):
Name:	DICKIE RC-TOY
Model No.:	NLB27116TX
Standards:	FCC PART 15, SUBPART C : 2008 Section 15.227
Date of Receipt:	29 April 2009
Date of Test:	01 to 07 May 2009
Date of Issue:	08 May 2009
Test Result :	PASS *

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

Authorized Signature:

Robinson Lo Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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.



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2 Test Summary

Test	Test Requirement	Standard Paragraph	Result
Radiated Emission (30MHz to 1000MHz)	FCC PART 15 :2008	Section 15.227	PASS
Occupied Bandwidth	FCC PART 15 :2008	Section 15.215	PASS

.Remark:

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

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



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4 General Information

4.1 Details of E.U.T.

Name:	DICKIE RC-TOY
Model No.:	NLB27116TX
Power Supply:	9.0V(1*9.0V"6F22"Size Battery)
Power Cord:	N/A-

4.2 Description of Support Units

The EUT was tested as an independent unit: a 27MHz radio transmitter.

4.3 Test Location

All tests were performed at:

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, District Shenzhen, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 No tests were sub-contracted.

4.4 Other Information Requested by the Customer

None.



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4.5 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.

• 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.

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.

CNAS L0167

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 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 authorized test laboratory for the DoC process.

Industry Canada (IC)

The 3m/10m Alternate 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.: 4620B-1.

Date of Registration: Jan 15, 2007. Valid until Jan 15, 2009

• VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460 and C-2584 respectively.

This certificate is valid until September 14.2009



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5 Test Results

Test Instruments

	RE in Chamber						
ltem	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	12-12-2008	11-12-2009	
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A	
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	17-06-2009	
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2008	11-08-2009	
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2008	17-06-2009	
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2008	11-08-2009	
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	12-08-2008	11-08-2009	
9	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2008	17-06-2009	
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	18-06-2008	17-06-2009	
11	Band filter	Amindeon	82346	SEL0094	18-06-2008	17-06-2009	
12	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15-06-2008	14-06-2009	



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5.1 E.U.T. Operation

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1012 mbar
EUT Operation:	Test the EUT in transmitting mode.

5.2 Test Procedure & Measurement Data

5.2.1 Radiated Emissions

Test Requirement:	FCC Part15 C Section 15.227				
Test Method:	ANSI C63.4				
Measurement Distance:	3m (Semi-Anechoic Chamber)				
Requirements:	Carrier Power will not exceed 80dBuV/m at 3m (Average).				
	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:	9KHz to 30MHz RBW=9KHz VBW=30KHz				
	30MHz to 1000MHz RBW=100KHz VBW=300KHz				
	Above 1000MHz RBW=1MHz VBW=3MHz				
Test Procedure:	 The EUT is placed on a turntable, which is 0.8m above ground plane. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. 				
	3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.				
	 Maximum procedure was performed on the six highest emissions to ensure EUT compliance. 				
	 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. 6. Repeat above procedures until the measurements for all frequencies are complete. 				
	7. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.				

27.145MHz Mode

Test Procedure: For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.4 section 8.2.1. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.



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Intentional emission

Test Frequency	Peak (d	dBμV/m)	Limits	Marg	in (dB)
(MHz)	Vertical	Horizontal	(dBµV/m)	Vertical	Horizontal
27.145	66.77	65.45	100.00	33.23	34.55

Test Frequency	Average (dBµV/m)		Limits	Marg	in (dB)
(MHz)	Vertical	Horizontal	(dBµV/m)	Vertical	Horizontal
27.145	54.58	47.05	80.00	25.42	32.95

Other emissions

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)
54.250	0.80	7.64	28.08	50.38	30.74	40.00	-9.26
59.125	0.80	7.27	28.06	31.21	11.22	40.00	-28.78
78.625	1.06	7.61	28.00	33.05	13.72	40.00	-26.28
102.025	1.21	9.00	27.86	29.52	11.87	43.50	-31.63
160.525	1.34	9.59	27.38	29.50	13.05	43.50	-30.45

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)
54.250	0.80	7.92	28.08	29.06	9.70	40.00	-30.30
90.325	1.10	8.71	27.95	27.30	9.16	43.50	-34.34
148.825	1.32	8.91	27.46	28.17	10.94	43.50	-32.56
258.025	1.71	12.47	26.88	28.45	15.75	46.00	-30.25
343.825	2.04	15.28	27.05	27.55	17.82	46.00	-28.18

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 15.227 requirements.

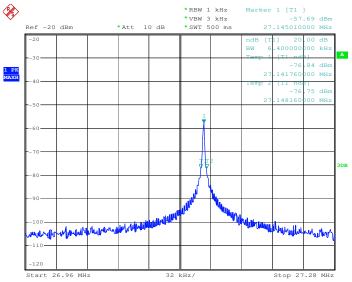


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5.2.2 Occupied Bandwidth

Test Requirement: Test Method:	FCC Part 15 C Section 15.215 (C) ANSI C63.4 Operation within the band 26.960 – 27.280 MHz
Requirements:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Method of	The useful radiated emission from the EUT was detected by the
measurement:	spectrum analyser with peak detector. The vertical Scale is set to 10dB
	per division. The horizontal scale is set to 32KHz per division.



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

Date: 6.MAY.2009 09:55:00

