No.: MH183589

Applicant (DOL003):	Kid Galaxy INC 150 Dow Street, Tower2, Unit 425B Manchester, NH03101.U.S.A.				
Manufacturer:	Dongguan Lung Cheong Toys Co., Ltd Zhou Wu Industrial District, Dong Guan City, Guang Dong Province, China				
Description of Sample(s):	Submitted sample Product: Brand Name: Model Number: FCC ID:	s(s) said to be Mini Slick Drifter-orange World of Wheels 10170 QEADRIFTER27T			
Date Sample(s) Received:	2009-11-23				
Date Tested:	2009-11-25, 2009-11-26				
Investigation Requested:	Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2008 and ANSI C63.4:2003 for FCC Certification.				
Conclusion(s):	The submitted product <u>COMPLIED</u> with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.				
Remark(s):					

Remark(s):

Dr. LEE Kam Chuen, Authorized Signatory ElectroMagnetic Compatibility Department For and on behalf of The Hong Kong Standards and Testing Centre Ltd.

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd. EMC Laboratory 10 Dai Wang Street, Taipo Industrial Estate New Territories, Hong Kong

Telephone:	852 2666 1888
Fax:	852 2664 4353

1.2 Applicant Details

Applicant

Kid Galaxy INC 150 Dow Street, Tower2, Unit 425B Manchester, NH03101.U.S.A.

Manufacturer

Dongguan Lung Cheong Toys Co., Ltd Zhou Wu Industrial District, Dong Guan City, Guang Dong Province, China

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1.3 Equipment Under Test [EUT] Description of Sample(s)

Product:	Mini Slick Drifter-orange
Manufacturer:	Dongguan Lung Cheong Toys Co., Ltd
Brand Name:	World of Wheels
Model Number:	10170
Rating:	3Vd.c("AAA" size battery x 2)

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Kid Galaxy INC, Mini Slick Drifter-orange. The EUT is a transmitter of radio control toy. The transmitter was operating with joystick, the EUT continues to transmit while one of the joystick is being pressed, It is pulse transmitter, Modulation by IC, and type is pulses modulation.

1.4 Date of Order

2009-11-23

1.5 Submitted Sample(s):

2 Samples

1.6 Test Duration

2009-11-25, 2009-11-26

1.7 Country of Origin

China

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2.0 <u>Technical Details</u>

2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2008 and ANSI C63.4:2003 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary								
Test Condition	Test Requirement	Test Method	Class /	Т	est Result			
			Severity	Pass	Failed	N/A		
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.227	ANSI C63.4:2003	N/A	\boxtimes				
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	\boxtimes				

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions (30 – 1000MHz)

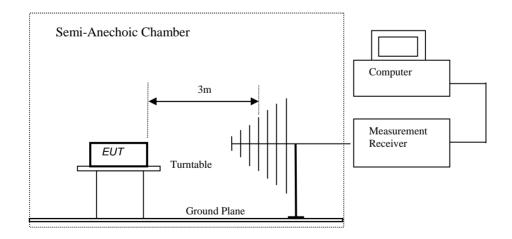
Test Requirement:	FCC 47CFR 15.227
Test Method:	ANSI C63.4:2003
Test Date:	2009-11-26
Mode of Operation:	Tx mode

Test Method:

The sample was placed 0.8m above the ground plane of semi-anechoic chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

*: Semi-anechoic chamber located on the STC (Dongguan) Company Ltd. 68 Fumin Nan Road, Dalang, Dongguan, Guangdong, PRC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 629686.

Test Setup:



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.227]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Fundamental Emission
	[Peak]	[Average]
[MHz]	$[\mu V/m]$	[µV/m]
26.96-27.28	100,000	10,000

Results of Tx mode: PASS

Field Strength of Fundamental Emissions								
	Peak Value							
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dBμV	dB/m	dBµV/m	μV/m	μV/m			
27.145	47.10	18.6	65.7	1,927.5	100,000	Vertical		

Field Strength of Fundamental Emissions Average Value								
Frequency	Measured	Adjusted by	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Duty Cycle	Factor	Strength	Strength		Polarity	
MHz	dBµV	dB	dB/m	dBµV/m	μV/m	μV/m		
27.145	43.0	-4.1	18.6	61.6	1,202.3	10,000	Vertical	

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation. Calculated measurement uncertainty: 30MHz to 1GHz 5.1dB

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Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [µV/m]	
30-88	100	
88-216	150	
216-960	200	
Above960	500	

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Tx mode: PASS

Radiated Emissions Quasi-Peak								
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field		
	Level @3m	Factor	Strength	Strength		Polarity		
MHz	dBµV	dB/m	dBµV/m	μV/m	μV/m			
54.29	< 1.0	9.2	< 10.2	< 3.2	100	Vertical		
81.44	< 1.0	9.3	< 10.3	< 3.3	100	Vertical		
108.58	< 1.0	11.9	< 12.9	< 4.4	150	Vertical		
135.73	< 1.0	14.0	< 15.0	< 5.6	150	Vertical		
162.87	< 1.0	14.5	< 15.5	< 6.0	150	Vertical		
190.02	< 1.0	17.2	< 18.2	< 8.1	150	Vertical		
217.16	< 1.0	17.3	< 18.3	< 8.2	200	Vertical		
244.31	< 1.0	19.1	< 20.1	< 10.1	200	Vertical		
271.45	< 1.0	20.6	< 21.6	< 12.0	200	Vertical		

Remarks:

No further spurious emissions found between lowest internal frequency and 30MHz.

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

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3.2 20dB Bandwidth of Fundamental Emission

Test Requirement:	FCC 47 CFR 15.227
Test Method:	ANSI C63.4:2003 (Section 13.1.7)
Test Date:	2009-11-25
Mode of Operation:	Tx mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

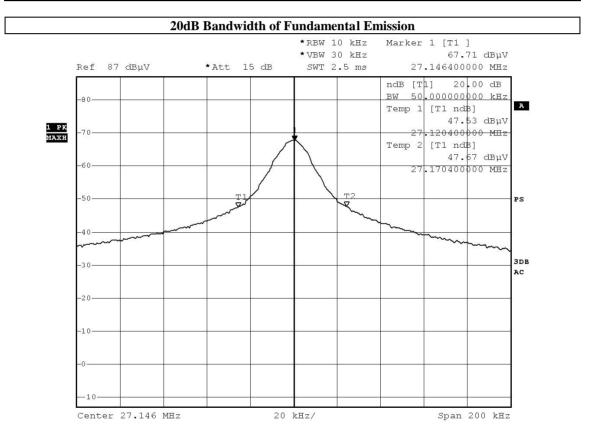
As Test Setup of clause 3.1.1 in this test report.

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Limits for 20dB Bandwidth of Fundamental Emission:

Frequency Range	20dB Bandwidth	FCC Limits
[MHz]	[KHz]	[MHz]
27.146	50.00	within 26.96-27.28



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Appendix A

List of Measurement Equipment

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3		2008/12/01	2011/12/01
EM083	STCOATS				2008/12/08	2011/12/08
EM174	BICONILOG ANTENNA	EMCO	3142B	1671	2008/01/24	2010/01/24
EM194	BICONILOG	EMCO	3142B	1795	2008/09/08	2010/09/08
EM229	EMI Test Receiver	R&S	ESIB40	100248	2009/09/27	2010/09/27
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2009/07/26	2011/07/26

Radiated Emission

Remarks:-

- CM Corrective Maintenance
- N/A Not Applicable or Not Available

TBD To Be Determined

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Appendix B

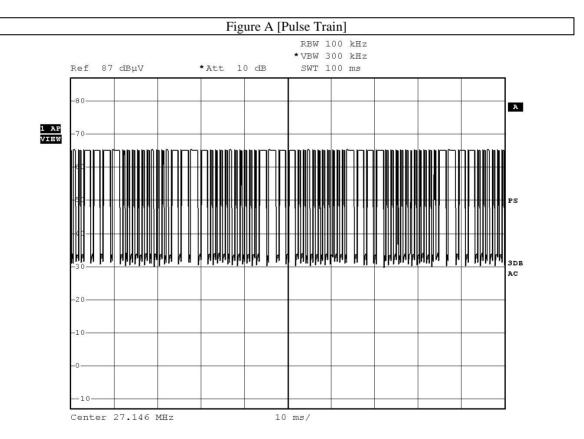
Duty Cycle Correction During 100msec

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 20 long pulses (1.68msec) and 48 short pulses (0.6msec). Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered (20x1.68msec)+(48x0.6msec) per 100msec=-4.1dB duty cycle. Figure A through C show the characteristics of the pulse train for one of these functions.

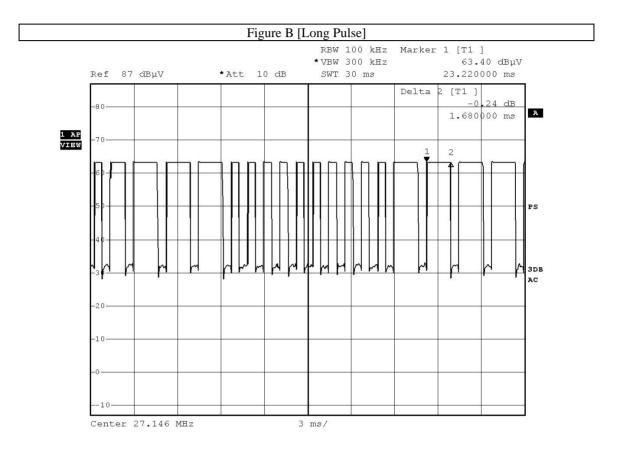
Remarks:

Duty Cycle Correction = -4.1dB

The following figures [Figure A to Figure C] show the characteristics of the pulse train for one of these functions.

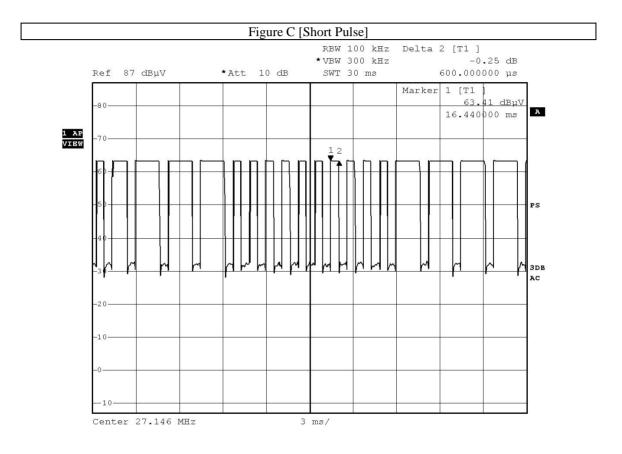


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Appendix C

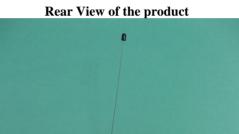
Photographs of EUT

Front View of the product

Inner Circuit Top View

Inner Circuit Bottom View

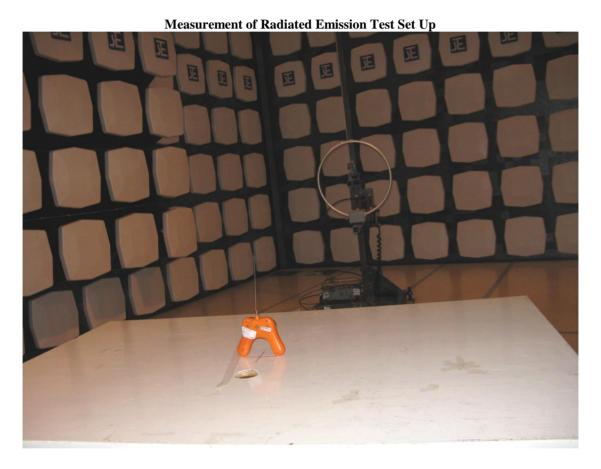




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Photographs of EUT



***** End of Test Report *****

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