

TEST REPORT

To:	NKOK, INC.	To:	-
Attn:	Lanny Halim	Attn:	
Address:	13668 E Valley Blvd G2 City of Industry C 91746	A Address:	-
Fax:	626-330-1199	Fax:	-
E-mail:	kohsche@nkok.com / lanny@nkok.com	E-mail:	-
Folder No .:		K10JY266MTHS-B-A1	21
Factory name:			
Location:			
Product:	n.	ly First R/C Vehicle Model: 80052	
		Sample No:	(5210)223-0375
		Test date:	July 23, 2010 To August 26, 2010
		Test Requested:	FCC Part 15 - 2008
		Test Method:	ANSI C63.4 - 2003
		FCC ID:	XQPFTB071049TX
The result	s given in this report are related to the te	sted specimen of the d	escribed electrical apparatus.
CONCLUSION:	The submitted sample was found to <u>CO</u>	MPLY with requirement	of FCC Part 15 Subpart C.
	Authorized	d Signature:	
Cley		In the	and
Reviewed by:	Keith Yeung A	Approved by: Steven T	sang
Date: Septeml	ber 13, 2010	Date: September 13, 20	010

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 mmu ches burgauwaritas com www.cps.bureauveritas.com

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Location of the test laboratory

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at :

BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

List of measuring equipment

naulateu Linission				
EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCS 30	100379	26-SEP-2010
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	02-AUG-2011
OPEN AREA TEST SITE	BVCPS	N/A	N/A	05-JULY-2011
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	06-JULY-2011
COAXIAL CABLE	SUHNER	N/A	N/A	07-DEC-2010

Radiated Emission

Remarks:-

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

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Equipment Under Test [EUT]

Description of Sample:

Model Name: My First R/C Vehicle Model Number: 80052 Rating: 9Vd.c ("6F22" size battery x 1)

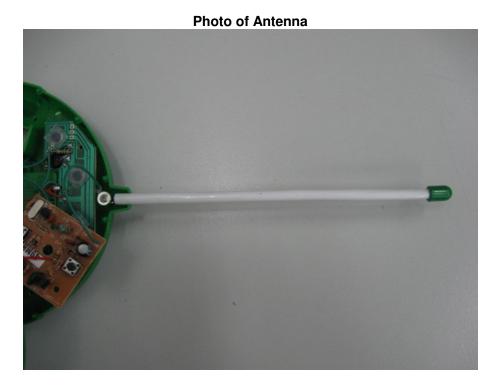
Description of EUT Operation:

The Equipment Under Test (EUT) is a NKOK, INC. of Radio Control toy. It is 2 buttons and 1 switch transmitter and operating at 49.86MHz. The EUT continues to transmit when buttons are being pressed, Modulation by IC, and type is pulse modulation. The transmitter has different control:

- 1. Left button control forward
- 2. Right button control turning
- 3. ON/OFF switch control ON / OFF

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 17cm long metal spring covered with rubber. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.



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Test Results

Radiated Emissions (Fundamental)

Test Requirement:	FCC Part 15 Section 15.235
Test Method:	ANSI C63.4
Test Date(s):	2010-08-26
Temperature:	31.0 °C
Humidity:	66.0 %
Atmospheric Pressure:	100.4 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	9Vd.c. ("6F22" size battery x 1)

Test Method:

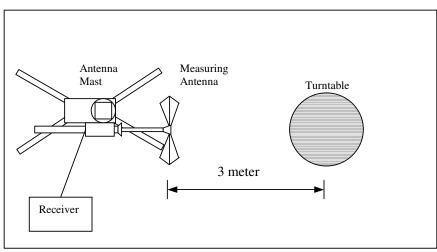
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 - 2003.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. 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, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Test Setup: Open Area Test Site



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.235]:

Frequency Range of	Field Strength of	Field Strength of	
Fundamental	Fundamental Emission	Fundamental Emission	
	[Peak]	[Average]	
[MHz]	[µV/m]	[µV/m]	
49.82 - 49.90	100,000 (100 dBµV/m)	10,000 (80 dBµV/m)	

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
49.861	Н	15.5	67.3	100	-32.7

Detection mode: # Average

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
49.861	Н	15.5	**63.4	80	-16.6

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.
**Duty Cycle Correction = 20Log(0.638) =-3.9dB

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz VBW = 300KHz

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Radiated Emissions (9kHz - 1GHz)

Test Requirement:	FCC Part 15 Section 15.209
Test Method:	ANSI C63.4
Test Date(s):	2010-08-26
Temperature:	31.0 °C
Humidity:	66.0 %
Atmospheric Pressure:	100.4 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	9Vd.c. ("6F22" size battery x 1)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range	Quasi-Peak Limits
[MHz]	[µV/m]
1.705-30	300
30-88	100
88-216	150
216-960	200
Above960	500

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
99.722	Н	11.9	35.4	43.5	-8.1
149.583	Н	13.7	26.8	43.5	-16.7
199.444	V	13.6	27.8	43.5	-15.7
249.305	Н	13.7	28.8	46.0	-17.2
299.166	Н	15.4	36.1	46.0	-9.9
349.027	Н	17.9	37.4	46.0	-8.6
398.888	Н	19.0	44.3	46.0	-1.7
448.749	V	19.1	43.7	46.0	-2.3
498.610	V	20.2	42.1	46.0	-3.9
548.471	Н	20.8	40.9	46.0	-5.1

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz VBW = 120KHz



26dB Bandwidth of Fundamental Emission

Test Requirement:	FCC 47 CFR 15.235
Test Method:	ANSI C63.4:2003 (Section 13.1.7)
Test Date(s):	2010-07-23
Temperature:	24.0 °C
Humidity:	49.0 %
Atmospheric Pressure:	101.5 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	9Vd.c. ("6F22" size battery x 1)

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.

Frequency		26dB Bandwidth	Limits			
	[MHz]	[KHz]	[MHz]			
	49.861	27.4	within 49.82-49.90			

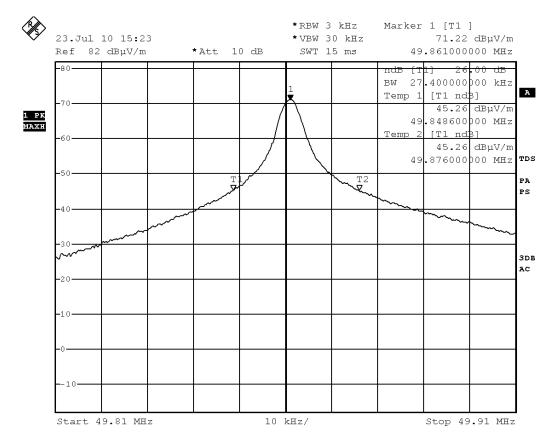
Limits for 26dB Bandwidth of Fundamental Emission:

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Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 23.JUL.2010 15:23:31

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Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (48.9msec) never exceeds a series of 52 (0.6msec) pulses. Assuming any combination of short or long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered (52x0.6msec) per 48.9msec=63.8% duty cycle. Figure A and B show the characteristics of the pulse train for one of these functions.

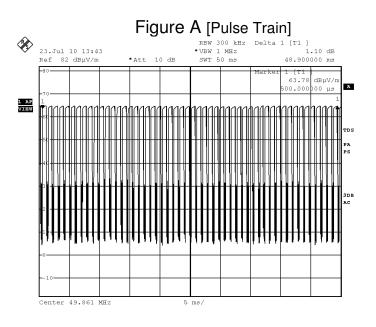
Remarks:

Duty Cycle Correction = 20Log(0.638) =-3.9dB

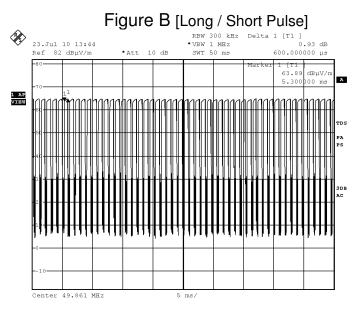
The following figures [Figure A to Figure B] show the characteristics of the pulse train for one of these functions.

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Date: 23.JUL.2010 13:43:33



Date: 23.JUL.2010 13:44:26

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Photographs of EUT

Front View of the product



Rear View of the product



Battery compartment

Battery Cover

0





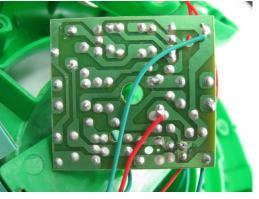


Inner Circuit Top View



Front View of the product (Internal)

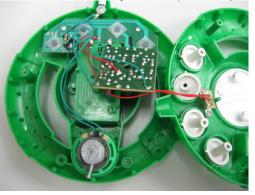
Inner Circuit Bottom View



Rear View of the product (Internal)



Antenna

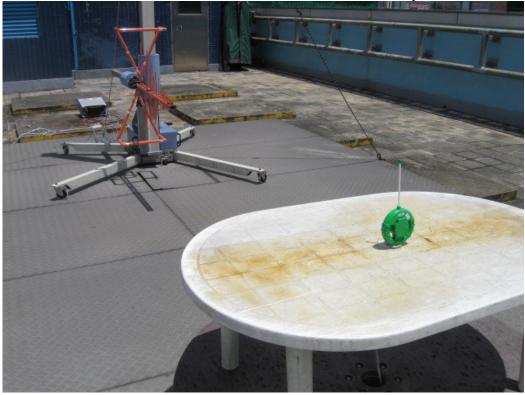




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***** End of Report *****

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