

TEST REPORT

| To: | NKOK, INC. | 1 | Го: | 1754 |
|--|---|----------------------|------------------------|------------------------------|
| Attn: Lanny Halim | | A | Attn: | - |
| Address: | 13668 E Valley Blvd G2 City of Industry CA 91746 | A | Address: | - |
| Fax: | 626-330-1199 | F | ax: | - |
| E-mail: | lanny@nkok.com | E | E-mail: | - |
| Folder No.: | BVC | CK11JY2 | 74MTHS-B | |
| | | | | |
| Factory name: | | | ē | |
| Location: | | 244 | 3 | |
| Product: | RC | C Halo Re Model N | each Ghost lo.: 725 | |
| | | | Sample No: | (5211)189-0285 |
| | | | Test date: | July 28, 2011 |
| | | Т | est Requested: | FCC Part 15 - 2010 |
| | <u>OEO</u> | | Test Method: | ANSI C63.4 - 2003 |
| | | | FCC ID: | XQPXH061127TX |
| The results | given in this report are related to the tes | sted spec | imen of the des | cribed electrical apparatus. |
| CONCLUSION | : The submitted sample was found to <u>CC</u> | OMPLY w | vith requirement | of FCC Part 15 Subpart C. |
| | Authorized | I Signature | e: | |
| | | | | |
| | | | | |
| (| Dell L | | for the | TO |
| Reviewed by: Keith Yeung Approved by: Steven Tsang | | | | sang |
| Date: August 3, 2011 Date: August 3, 2011 | | | | |
| 10 N.W. | | | | |

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 mmw cns bureauweritas 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 Ellission | | | | |
|------------------------|--------------|-----------|--------------|-----------------|
| EQUIPMENT | MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATION DUE |
| EMI TEST RECEIVER | R&S | ESCI | 100379 | 06-SEP-2011 |
| LOOP ANTENNA | ETS-LINDGREN | 6502 | 00102266 | 12-MAY-2012 |
| BILOG ANTENNA | SCHAFFNER | CBL6112D | 25229 | 02-AUG-2011 |
| OPEN AREA TEST SITE | BVCPS | N/A | N/A | 07-JUL-2012 |
| ANECHOIC CHAMBER | ALBATROSS | M-CDC | 80374004499B | 26-OCT-2011 |
| COAXIAL CABLE | SUHNER | N/A | N/A | 19-SEP-2011 |

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:RC Halo Reach GhostModel Number:725Rating:3Vd.c. ("AAA" size battery x 2)

Description of EUT Operation:

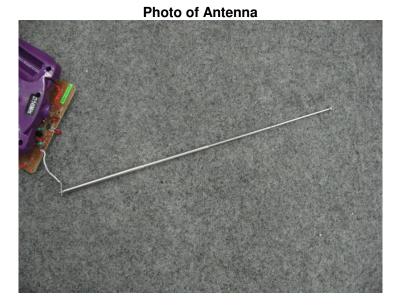
The Equipment Under Test (EUT) is a NKOK Inc. of Radio Control toy. It is 2 buttons transmitter and operating at 27.145MHz. The EUT continues to transmit while buttons are being pressed, Modulation by IC, and type is pulse modulation.

The transmitter has different control:

- 1. Left button Forward and Backward control
- 2. Right button Leftward and Rightward control

Antenna Requirement (Section 15.203)

The EUT is use of a screw-on type antenna. The antenna consists of 17cm long metal antenna. The antenna connector is custom-made and not be able to found in the market. It also cannot be replaced with other antenna other then the one bundled inside the package. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.



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Radiated Emissions (Fundamental)

| Test Requirement: | FCC Part 15 Section 15.227 |
|-----------------------|---------------------------------|
| Test Method: | ANSI C63.4 |
| Test Date(s): | 2011-07-28 |
| Temperature: | 33.0 °C |
| Humidity: | 62.0 % |
| Atmospheric Pressure: | 100.2 kPa |
| Mode of Operation: | Transmission mode |
| Tested Voltage: | 3Vd.c. ("AAA" size battery x 2) |

Test Procedure:

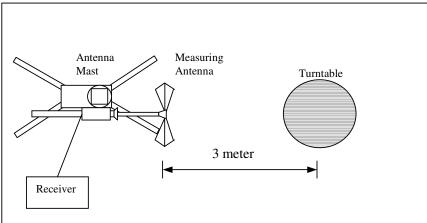
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 - 2003.

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 15.227]:

| Frequency Range of | Field Strength of | Field Strength of |
|--------------------|----------------------|----------------------|
| Fundamental | Fundamental Emission | Fundamental Emission |
| | [Peak] | [Average] |
| [MHz] | [µV/m] | [µV/m] |
| 26.96 – 27.28 | 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) |
|--------------------|------------------------------------|---|-------------------------------------|-------------------------|----------------|
| 27.145 | V/0° | 9.6 | 58.2 | 100 | -41.8 |

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) |
|--------------------|------------------------------------|---|-------------------------------------|-------------------------|----------------|
| 27.145 | V/0° | 9.6 | **54.2 | 80 | -25.8 |

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(0.632) =-4.0dB

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz VBW = 300KHz



Radiated Emissions (9kHz - 1GHz)

| Test Requirement: | FCC Part 15 Section 15.209 |
|-----------------------|---------------------------------|
| Test Method: | ANSI C63.4 |
| Test Date(s): | 2011-07-28 |
| Temperature: | 33.0 °C |
| Humidity: | 62.0 % |
| Atmospheric Pressure: | 100.2 kPa |
| Mode of Operation: | Transmission mode |
| Tested Voltage: | 3Vd.c. ("AAA" size battery x 2) |

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 |

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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) |
|--------------------|-------------------|--|----------------------------------|-------------------------|----------------|
| 54.290 | Н | 6.7 | 31.8 | 40.0 | -8.2 |
| 81.435 | Н | 7.1 | 23.4 | 40.0 | -16.6 |
| 108.580 | Н | 12.0 | 22.6 | 43.5 | -20.9 |
| 135.725 | Н | 12.2 | 24.8 | 43.5 | -18.7 |
| 162.870 | Н | 10.6 | 23.7 | 43.5 | -19.8 |
| 190.015 | Н | 9.6 | 21.4 | 43.5 | -22.1 |
| 217.160 | Н | 9.9 | 22.3 | 46.0 | -23.7 |
| 244.305 | Н | 13.2 | 22.6 | 46.0 | -23.4 |
| 271.450 | Н | 13.2 | 24.5 | 46.0 | -21.5 |
| 298.595 | Н | 14.4 | 24.7 | 46.0 | -21.3 |

| 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) |
|--------------------|-------------------|--|----------------------------------|-------------------------|----------------|
| 54.290 | V | 6.7 | 31.7 | 40.0 | -8.3 |
| 81.435 | V | 7.1 | 22.9 | 40.0 | -17.1 |
| 108.580 | V | 12.0 | 21.9 | 43.5 | -21.6 |
| 135.725 | V | 12.2 | 24.5 | 43.5 | -19.0 |
| 162.870 | V | 10.6 | 23.5 | 43.5 | -20.0 |
| 190.015 | V | 9.6 | 20.6 | 43.5 | -22.9 |
| 217.160 | V | 9.9 | 22.2 | 46.0 | -23.8 |
| 244.305 | V | 13.2 | 21.8 | 46.0 | -24.2 |
| 271.450 | V | 13.2 | 23.8 | 46.0 | -22.2 |
| 298.595 | V | 14.4 | 24.0 | 46.0 | -22.0 |

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz VBW = 120KHz

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26dB Bandwidth of Fundamental Emission

| Test Requirement: | FCC 47 CFR 15.227 |
|-----------------------|----------------------------------|
| Test Method: | ANSI C63.4:2003 (Section 13.1.7) |
| Test Date(s): | 2011-07-27 |
| Temperature: | 33.0 °C |
| Humidity: | 62.0 % |
| Atmospheric Pressure: | 100.2 kPa |
| Mode of Operation: | Transmission mode |
| Tested Voltage: | 3Vd.c. ("AAA" size battery x 2) |

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.

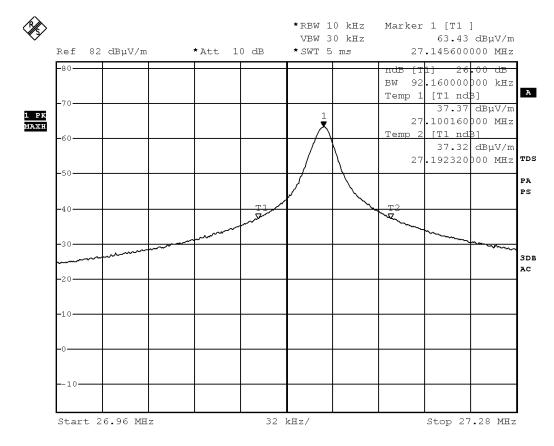
Limits for 26dB Bandwidth of Fundamental Emission:

| Frequency | 26dB Bandwidth | Limits | | | |
|-----------|----------------|----------------------|--|--|--|
| [MHz] | [KHz] | [MHz] | | | |
| 27.1456 | 92.16 | within 26.96 – 27.28 | | | |



Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 27.JUL.2011 11:35:11

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Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (17.4msec) never exceeds a series of 4 long (1.5msec) and 10 short (0.5msec) pulses. Assuming any combination of short or long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered (4x1.5msec) + (10x0.5msec) per 17.4msec=63.2% duty cycle. Figure A to C show the characteristics of the pulse train for one of these functions.

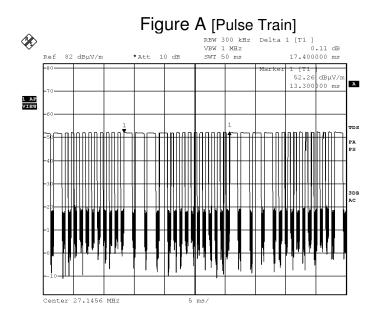
Remarks:

Duty Cycle Correction = 20Log(0.632) =-4.0dB

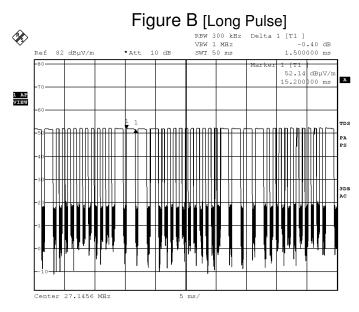
The following figures [Figure A to Figure C] show the characteristics of the pulse train for one of these functions.

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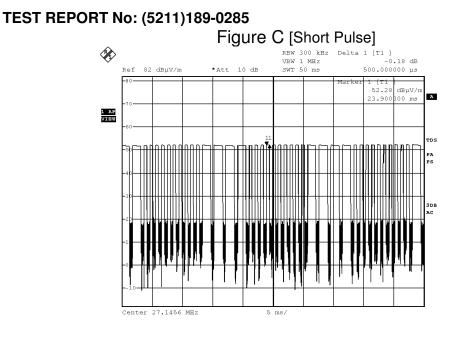
Date: 27.JUL.2011 11:36:19



Date: 27.JUL.2011 11:37:08

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Date: 27.JUL.2011 11:37:36

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Photographs of EUT

Front View of the product



Battery compartment

Rear View of the product



Battery Cover

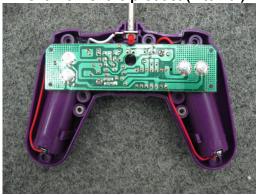




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Front View of the product (Internal)



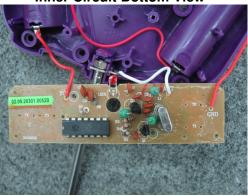
Inner Circuit Top View

Rear View of the product (Internal)



Inner Circuit Bottom View





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Measurement of Radiated Emission Test Set Up



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

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