



TEST REPORT No: (5211)221-0767

TEST REPORT

To:	SUPERTOYS INDUSTRIAL CO., LTD.											
Attn:	Robin Yeung / May Chong											
Address:	Unit 607-609, World Finance Centre North Tower, 19 Canton Road, T.S.T., Kowloon, H.K.											
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Folder No.:	BVCK11AU151MTHS-B											
Factory name:	HUIDONG COUNTY DALING SUPERTOYS INDUSTRIAL CO.,											
Location:	Da Ling Town Industrial District Huidong County Huizhou City, Guangdong Province China											
Product:	McMISSILE LAND TO SEA R/C MODEL: 7280											
		<table border="1"><tr><td>Sample No:</td><td>(5211)221-0767</td></tr><tr><td>Test date:</td><td>August 18, 2011</td></tr><tr><td>Test Requested:</td><td>FCC Part 15 – 2010</td></tr><tr><td>Test Method:</td><td>ANSI C63.4 - 2003</td></tr><tr><td>FCC ID:</td><td>KTU-7280RC01</td></tr></table>	Sample No:	(5211)221-0767	Test date:	August 18, 2011	Test Requested:	FCC Part 15 – 2010	Test Method:	ANSI C63.4 - 2003	FCC ID:	KTU-7280RC01
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Test date:	August 18, 2011											
Test Requested:	FCC Part 15 – 2010											
Test Method:	ANSI C63.4 - 2003											
FCC ID:	KTU-7280RC01											

The results given in this report are related to the tested specimen of the described electrical apparatus.

CONCLUSION: The submitted sample was found to COMPLY with requirement of FCC Part 15 Subpart C.

Authorized Signature:



Reviewed by: Keith Yeung

Date: August 22, 2011

Approved by: Steven Tsang

Date: August 22, 2011

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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

Radiated Emission

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	01-AUG-2012
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

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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TEST REPORT No: (5211)221-0767

Equipment Under Test [EUT]

Description of Sample:

Model Name: McMISSILE LAND TO SEA R/C

Model Number: 7280

Rating: 9Vd.c ("6F22" size battery x 1)

Description of EUT Operation:

The Equipment Under Test (EUT) is a SUPERTOYS INDUSTRIAL CO., LTD. of Radio Control toy. It is a 7 buttons transmitter and operating at 27.145MHz. The EUT continues to transmit buttons is being pressed, Modulation by IC, and type is pulse modulation.

The transmitter has different control:

1. "M" button – On / Off control
2. Upper button – Forward control
3. Lower button – Backward control
4. Left button – Leftward control
5. Right button – Rightward control
6. "LAND" button – Transform from Car to Boat
7. "SEA" button – Transform from Boat to Car

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 23cm 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.

Photo of Antenna



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TEST REPORT No: (5211)221-0767

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.227
Test Method: ANSI C63.4
Test Date(s): 2011-08-18
Temperature: 30.0 °C
Humidity: 73.0 %
Atmospheric Pressure: 100.7 kPa
Mode of Operation: Transmission mode
Tested Voltage: 9Vd.c. ("6F22" size battery x 1)

Test Procedure:

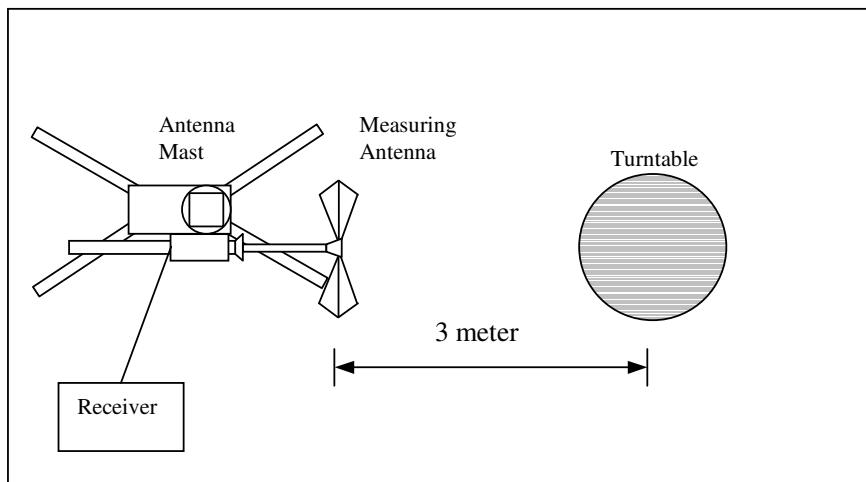
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003.

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 Fundamental [MHz]	Field Strength of Fundamental Emission [Peak] [μ V/m]	Field Strength of Fundamental Emission [Average] [μ V/m]
26.96 – 27.28	100,000 (100 dB μ V/m)	10,000 (80 dB μ V/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 (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
27.145	V/0°	9.6	41.1	100	-58.9

Detection mode: # Average

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
27.145	V/0°	9.6	**34.3	80	-45.7

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.456)$ = -6.8dB

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz
VBW = 300KHz

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TEST REPORT No: (5211)221-0767

Radiated Emissions (9kHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209
Test Method: ANSI C63.4
Test Date(s): 2011-08-18
Temperature: 30.0 °C
Humidity: 73.0 %
Atmospheric Pressure: 100.7 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 [MHz]	Quasi-Peak Limits [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)
54.290	H	6.7	20.5	40.0	-19.5
81.435	H	7.1	16.1	40.0	-23.9
108.580	H	12.0	20.2	43.5	-23.3
135.725	H	12.2	22.4	43.5	-21.1
162.870	H	10.6	19.9	43.5	-23.6
190.015	H	9.6	19.6	43.5	-23.9
217.160	H	9.9	21.5	46.0	-24.5
244.305	H	13.2	22.0	46.0	-24.0
271.450	H	13.2	22.8	46.0	-23.2
298.595	H	14.4	23.4	46.0	-22.6

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz

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TEST REPORT No: (5211)221-0767

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 (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
54.290	V	6.7	20.3	40.0	-19.7
81.435	V	7.1	16.4	40.0	-23.6
108.580	V	12.0	20.5	43.5	-23.0
135.725	V	12.2	21.8	43.5	-21.7
162.870	V	10.6	19.7	43.5	-23.8
190.015	V	9.6	19.8	43.5	-23.7
217.160	V	9.9	21.6	46.0	-24.4
244.305	V	13.2	22.3	46.0	-23.7
271.450	V	13.2	22.6	46.0	-23.4
298.595	V	14.4	23.8	46.0	-22.2

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz

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TEST REPORT No: (5211)221-0767

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): 2011-08-18
Temperature: 30.0 °C
Humidity: 73.0 %
Atmospheric Pressure: 100.7 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.

Limits for 26dB Bandwidth of Fundamental Emission:

Frequency [MHz]	26dB Bandwidth [KHz]	Limits [MHz]
27.1456	74.88	within 26.96 – 27.28

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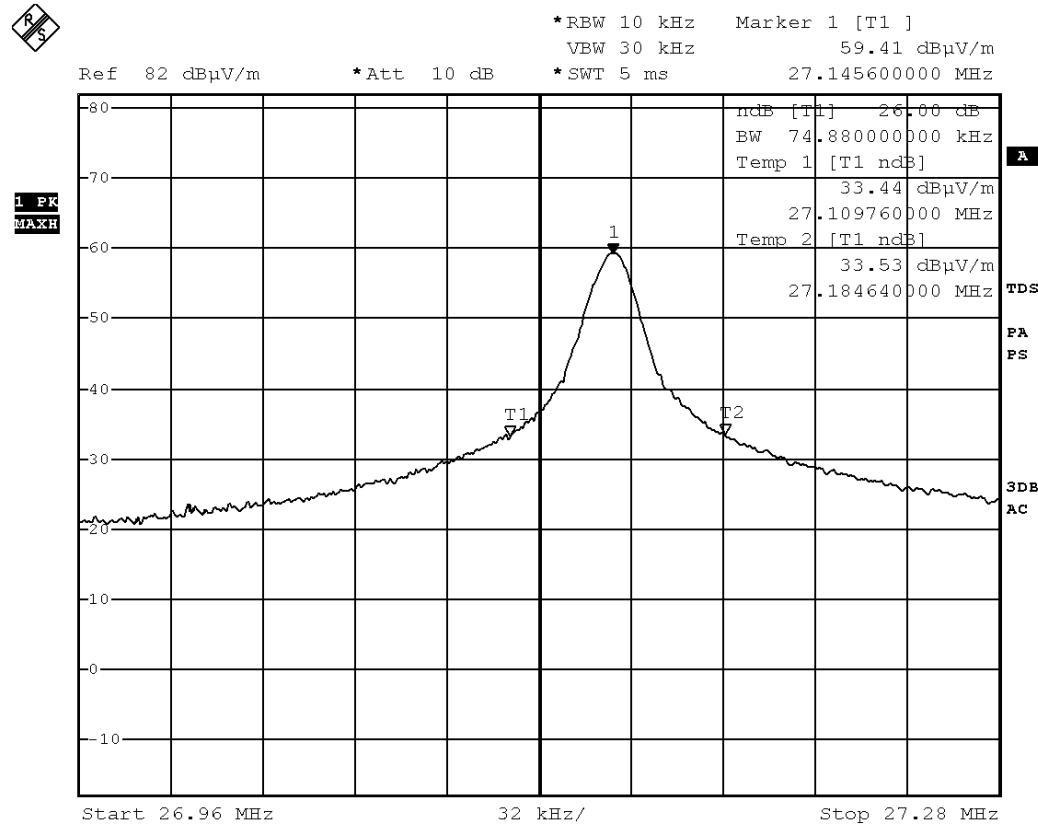
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Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 18.AUG.2011 14:30:04

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Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (34.2msec) never exceeds a series of 6 long (1.6msec) and 10 short (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 (6x1.6msec) + (10x0.6msec) per 34.2msec=45.6% duty cycle. Figure A through C show the characteristics of the pulse train for one of these functions.

Remarks:

Duty Cycle Correction = $20\log(0.456) = -6.8\text{dB}$

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

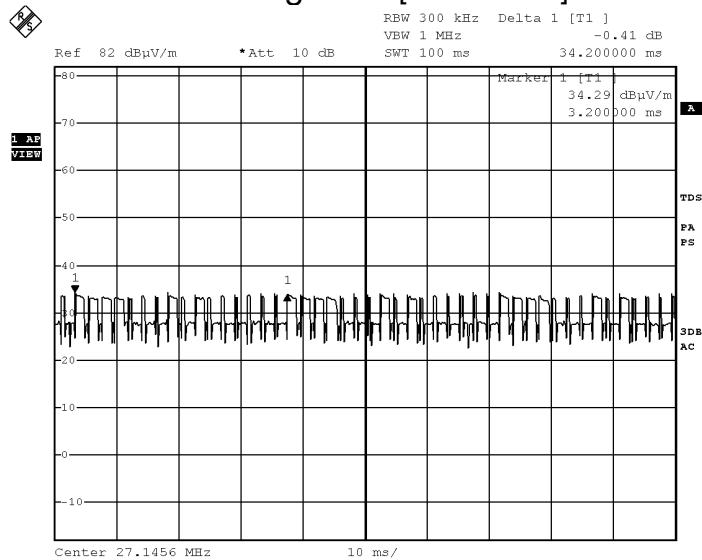
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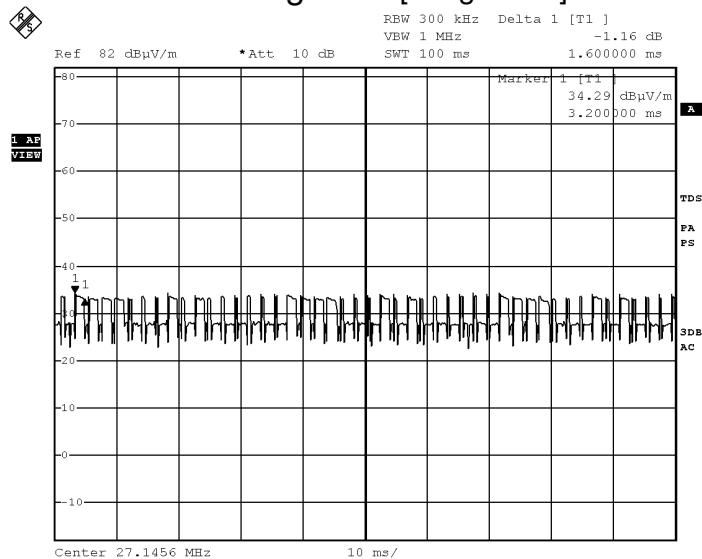
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Figure A [Pulse Train]



Date: 18.AUG.2011 14:43:28

Figure B [Long Pulse]



Date: 18.AUG.2011 14:43:44

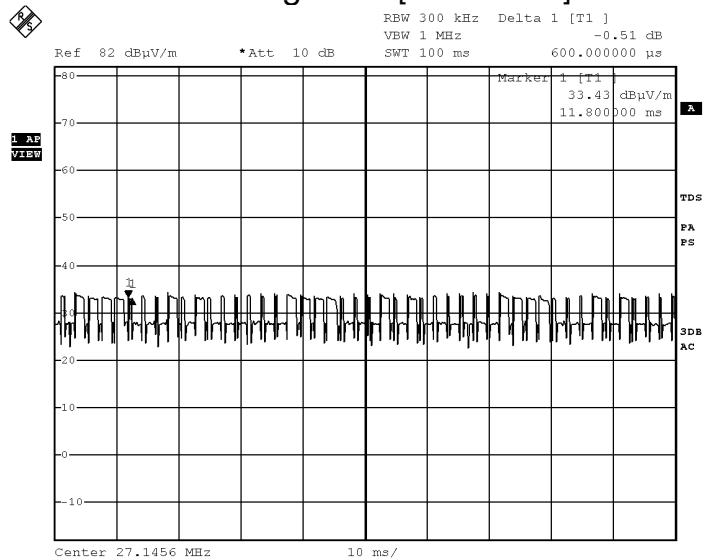
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Figure C [Short Pulse]



Date: 18.AUG.2011 14:44:00

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Photographs of EUT

Front View of the product



Rear View of the product



Battery compartment



Battery Cover



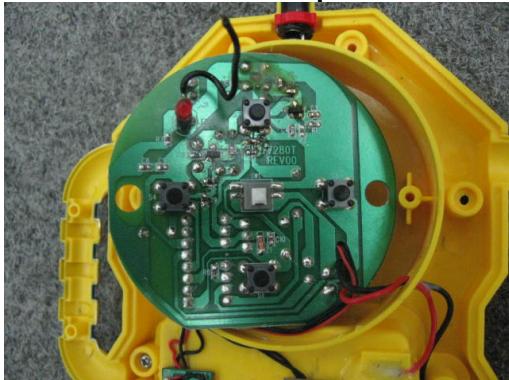
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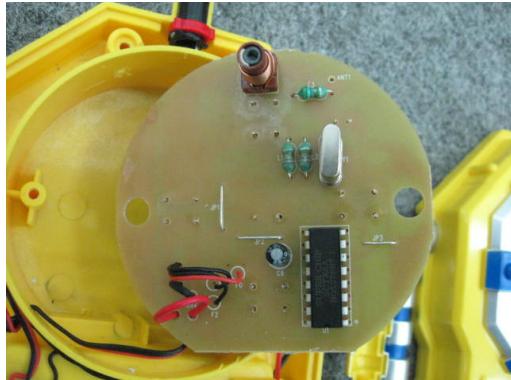


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Inner Circuit Top View



Inner Circuit Bottom View



Front View of the product (Internal)



Rear View of the product (Internal)



Antenna



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TEST REPORT No: (5211)221-0767

Measurement of Radiated Emission Test Set Up



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

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