

TEST REPORT

To:	KIDDESIGNS INC.		To:	,-
Attn:	KH Ming / Sammi Tsui		Attn:	-
Address:	504-6, HARBOUR CENTRE, TOWER 2 HOK CHEUNG STREET, HUNG HOM, KOWLOON, HONG KONG.	2, 8	Address:	-
Fax:	2333-3839		Fax:	-
E-mail:	khming@comtrad-ind.com / sammitsui@comtrad-ind.com		E-mail:	-
Folder No.:				
Factory Name:				
Location:				
Product:			y Handheld Walkie (Brand Name: MAF	
			Sample No:	(5214)006-1227
	1 1.		Test Date(s):	January 13, 2014
	PARAMETERS DE L'ANNE L'		Test Requested:	FCC Part 15 – 2012
	10 10		Test Method:	ANSI C63.4 – 2009
			FCC ID:	IAJ202
The results g	iven in this report are related to the te	sted sp	ecimen of the des	cribed electrical apparatus.
CONCLUSION:	The submitted sample was found to Co	OMPLY	with requirement	of FCC Part 15 Subpart C.
	Authorized	Signati	ure:	
(Je	AL		or law	
Reviewed by: Ke			ed by: Steven Tsar	ng
Date: January 2	2, 2014	Date: January 22, 2014		

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 www.cps.bureauveritas.com

This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A fallure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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Test Result Summary

EMISSION TEST						
Test requirement: FCC Part 15 – 2012	Test requirement: FCC Part 15 – 2012					
Test Condition Test Method Test Result						
rest Condition	rest Method	Pass	Failed			
Radiated Emission Test,	ANSI C63.4	\boxtimes				
9kHz to 1GHz						

Report Revision & Sample Re-submit History:

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Test Laboratory & Test Instruments List

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009. 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

Test Instrument List

Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	28-JAN-2014
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	11-SEP-2014
OPEN AREA TEST SITE	BVCPS	N/A	N/A	08-JUL-2014
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	05-FEB-2014
COAXIAL CABLE	SUHNER	RG214	N/A	23-SEP-2014

Remarks: -

N/A: Not Applicable or Not Available

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



Equipment Under Test [EUT]

Description of Sample:

Model Name: Guardians of the Galaxy Handheld Walkie Talkies

Model Number: GG-202

The Amazing Spider-man2 Handheld Walkie Talkies / Transformers Additional Model Name:

Handheld Walkie Talkies / Skylanders Walkie Talkies

Additional Model Number: SM-202 / TF-202 / SK-202

Additional Model information: Declare the Circuit, PCB layout and Electrical parts of the products are

identical to the basic model, except the model number and outlook.

6Vd.c. ("LR44" size battery x 4) Rating:

Description of EUT Operation:

The Equipment Under Test (EUT) is a KIDDESIGNS INC. of Radio Control toy. The transceiver is 1 button and 1 switch transceiver and operating at 49.86MHz. The EUT continues to transmit while "Talk Button" was pressed, Modulation by IC, and type is amplitude modulation.

The transmitter has different control:

- 1. Switch ON / OFF control
- 2. Button press to talk

Antenna Requirement

The EUT is use of a permanently antenna. The antenna consists of 10cm long metal spring covered with rubber. The antenna is not replaceable or user serviceable. The requirement of S15.203 are met. There are no deviations or exceptions to the specifications.







Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.235

Test Method: ANSI C63.4
Test Date(s): 2014-01-13

Temperature: 13.0 °C Humidity: 70.0 % Atmospheric Pressure: 101.1 kPa

Mode of Operation: Transmission mode

Tested Voltage: 6Vd.c. ("LR44" size battery x 4)

Test Method:

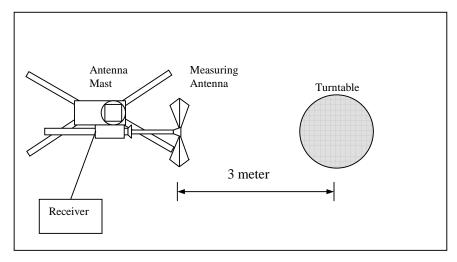
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 - 2009.

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)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
49.86	Н	10.5	62.2	100	-37.8
49.86	V	10.5	63.2	100	-36.8

Detection mode: Average

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)
49.86	Н	10.5	59.8	80	-20.2
49.86	V	10.5	61.5	80	-18.5

Note: Field Strength includes Antenna Factor and Cable Loss.

RBW = 100KHzReceiver setting:

VBW = 300KHz



Radiated Emissions (9kHz - 1GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method: **ANSI C63.4**

Test Date(s): 2014-01-13

13.0 °C Temperature: Humidity: 70.0 % Atmospheric Pressure: 101.1 kPa

Mode of Operation: Transmission mode

Tested Voltage: 6Vd.c. ("LR44" size battery x 4)

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

F					
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)
99.72	Н	11.7	34.6	43.5	-8.9
149.58	Н	10.9	37.6	43.5	-5.9
199.44	Н	9.9	39.9	43.5	-3.6
249.30	Н	12.8	36.7	46.0	-9.3
299.16	Н	13.6	26.9	46.0	-19.1
349.02	Н	15.6	31.4	46.0	-14.6
398.88	Н	17.3	32.1	46.0	-13.9
448.74	Н	17.7	25.8	46.0	-20.2
498.60	Н	18.8	26.3	46.0	-19.7
548.46	Н	20.2	28.0	46.0	-18.0

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)
99.72	V	11.7	34.2	43.5	-9.3
149.58	V	10.9	37.3	43.5	-6.2
199.44	V	9.9	39.4	43.5	-4.1
249.30	V	12.8	37.4	46.0	-8.6
299.16	V	13.6	25.6	46.0	-20.4
349.02	V	15.6	28.1	46.0	-17.9
398.88	V	17.3	30.9	46.0	-15.1
448.74	V	17.7	25.0	46.0	-21.0
498.60	V	18.8	26.2	46.0	-19.8
548.46	V	20.2	30.9	46.0	-15.1

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz

VBW = 120KHz

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Test Results

Radiated Emissions (30MHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.109

Test Method: ANSI C63.4
Test Date(s): 2014-01-13

Temperature: 13.0 °C Humidity: 70.0 % Atmospheric Pressure: 101.1 kPa

Mode of Operation: Receiver mode

Tested Voltage 6Vd.c. ("LR44" size battery x 4)

Test Method:

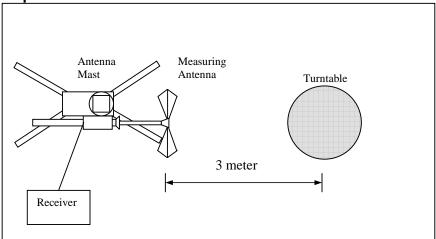
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 - 2009.

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 Radiated Emission: FCC Part 15.109

Frequency Range	Limits
[MHz]	[dBµV/m @ 3m]
30-88	40.0
88-216	43.5
216-960	46.0
Above 960	54.0

Measurement Data

Test Result of (Receiver 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)
49.42	Н	10.5	32.8	40.0	-7.2
98.84	Н	11.7	22.2	43.5	-21.3
148.26	Н	10.9	20.6	43.5	-22.9
197.68	Н	9.9	20.1	43.5	-23.4
247.10	Н	12.8	22.1	46.0	-23.9
296.52	Н	13.6	21.5	46.0	-24.5

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)
49.42	V	10.5	33.9	40.0	-6.1
98.84	V	11.7	20.5	43.5	-23.0
148.26	V	10.9	20.4	43.5	-23.1
197.68	V	9.9	20.2	43.5	-23.3
247.10	V	12.8	22.1	46.0	-23.9
296.52	V	13.6	21.7	46.0	-24.3

Note: Field Strength includes Antenna Factor and Cable Loss.

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

During the test shall be used to radiate an unmodulated CW signal to a superregenerative receiver at its operating frequency in order to "cohere" or to resolve the individual components of the characteristic of the characteristic broadband emissions from such a receiver. The level of the signal may need to be increased for this to occur.



26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.235

Test Method: ANSI C63.4

Test Date(s): 2014-01-13

 $\begin{array}{ll} \mbox{Temperature:} & 13.0\ ^{\circ}\mbox{C} \\ \mbox{Humidity:} & 70.0\ \% \\ \mbox{Atmospheric Pressure:} & 101.1\ \mbox{kPa} \end{array}$

Mode of Operation: Transmission mode

Tested Voltage: 6Vd.c. ("LR44" size battery x 4)

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.

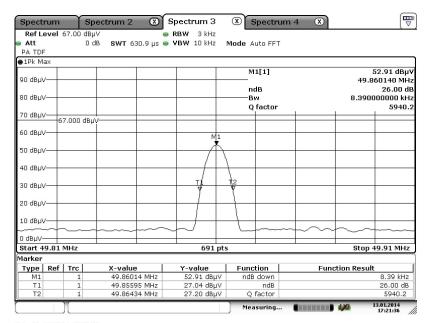
Limits for 26dB Bandwidth of Fundamental Emission:

Frequency	26dB Bandwidth	Limits
[MHz]	[KHz]	[MHz]
49.86014	8.39	within 49.82-49.90



Measurement Data

Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 13.JAN.2014 17:21:36



Photographs of EUT

Front View of the product



Rear View of the product



Battery compartment



Battery Cover





Photographs of EUT

Front View of the product (Internal)



Rear View of the product (Internal)



Inner Circuit Top View



Inner Circuit Bottom View









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