

TEST REPORT

To:	SILVERLIT TOYS MANUFACTORY L		-		
Attn:	Ms. May Choi / Mr. Nelson Ng /	Attn:	-		
Address:	Mr. Edmond / Ms. Angel Zhang 17 th Floor World Trade Centre, 280	Address:			
Address.	Gloucester Road, Causeway Bay,	Address.	-		
	Hong Kong				
Fax:	29162984	Fax:	-		
E-mail:	may@silverlit.com /	E-mail:	-		
	wt.mark-qa@silverlit.com /				
	nelson@silverlit.com /				
	edmond@silverlit.com / wt.angelzhang@silverlit.com /				
	wt.jim@silverlit.com				
Folder No.:					
Factory name:					
Location:					
Product:		Hover Racer Model No.: 82014			
		WOUEI NO.: 62014			
		Sample No:	(5212)333-0562		
2 N 1 1 1 1		Completite:	(02.2)000 0002		
		Test date:	December 13, 2012		
		Test Requested	: FCC Part 15 - 2011		
		Test Method:	ANSI C63.4 - 2009		
		FCC ID:	OYK-TX0002G4-1212		
The result	s given in this report are related to the t	ested specimen of the d	escribed electrical apparatus.		
CONCLUSION	N: The submitted sample was found to <u>(</u>	COMPLY with requireme	nt of FCC Part 15 Subpart C.		
	Authorize	ed Signature:			
4	0.10				
	LLA L	for al	(JI)		
Reviewed by	: Keith Yeung	Approved by: Steven	oproved by: Steven Tsang		
	nber 31, 2012	Date: December 31,			
	AS HONG KONG LIMITED – This report is intended	for your evolutive use Any convint or realize	ation of this report to or for any other person or entity, or u		
Kowloon Bay Of	ffice of our name or traden	nark, is permitted only with our prior written	permission. Our report is limited to the test samples identifi		
1/F Pacific Trade 2 Kai Hing Road	Kowloon Bay the lot from which a t	test sample was taken or any similar or identic	e or representative of the statistical quality or characteristics al product unless specifically and expressly noted. Our rep		
Kowloon, HONG Tel: +852 2331 0	kong additional testing of the	he samples or to notify us of any errors or om	ou shall have thirty days from receipt of this report to requisions relating to our report, provided, however, such not		
Fax: +852 2331 0	0889 shall constitute your u		raise. A failure to raise such issue within the prescribed ti is report, the tests conducted and the correctness of the rep		
www.cps.bureauv					

Page 1 of 22



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	17-OCT-2013		
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	13-AUG-2013		
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	12-SEP-2013		
OPEN AREA TEST SITE	BVCPS	N/A	N/A	09-JUL-2013		
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	30-NOV-2013		
COAXIAL CABLE	SUHNER	N/A	N/A	24-SEP-2013		

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: Model Number: Rating:

Hover Racer 82014 Remote: 9Vd.c. ("AA" size battery x 6) / Hover racer: 3.7Vd.c. ("rechargeable battery" x 1)

Description of EUT Operation:

The Equipment Under Test (EUT) is a **SILVERLIT TOYS MANUFACTORY LIMITED** of Remote Control Transceiver. It is a 1 switch, 1 button and 2 sticks transceiver and operating at 2402MHz to 2478MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while buttons is being pressed at the operate interface, Modulation by IC, and type is FHSS.

The transmitter has different control:

- 1. ON/OFF switch ON/OFF control
- 2. START/STOP button inflate the air bag skirt control
- 3. Left stick left motor control
- 4. Right stick right motor control

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 30mm long metal antenna. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.



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



Radiated Emissions (Fundamental)

Test Requirement:	FCC Part 15 Section 15.249
Test Method:	ANSI C63.4
Test Date(s):	2012-12-13
Temperature:	20.0 °C
Humidity:	59.0 %
Atmospheric Pressure:	100.3 kPa
Mode of Operation: Tested Voltage:	Transmission mode and Charge mode Remote: 9Vd.c. ("AA" size battery x 6) / Hover racer: 3.7Vd.c. ("rechargeable battery" x 1)

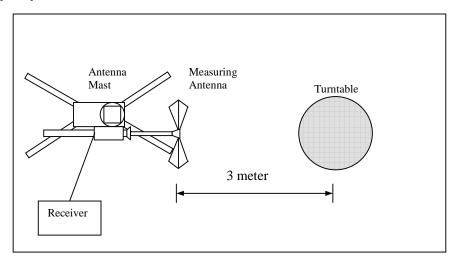
Test Procedure:

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.

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

Test Setup: Open Area Test Site



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



Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:

J							
Frequency Range of	Field Strength of	Field Strength of					
Fundamental	Fundamental Emission	Harmonics Emission					
	(Average)	(Average)					
[MHz]	[mV/m]	[µV/m]					
2400-2483.5	50	500					

Measurement Data

Test Result of (Transmission mode, Lowest frequency): 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)
2402.00	Н	-2.7	85.0	114.0	-29.0
2402.00	V	-2.7	78.6	114.0	-35.4

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)
2402.00	Н	-2.7	**76.1	94.0	-17.9
2402.00	V	-2.7	**69.7	94.0	-24.3

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(0.356) =--8.9dB.

Note: Field Strength includes Antenna Factor and Cable Loss. Receiver setting:

RBW = 1MHz

VBW = 1MHz

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 acompter or to explicit use a group or going includes the provided boungare, such parties to provide boungare, such parties of the set of th 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 failure 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.



Measurement Data

Test Result of (Transmission mode, Middle frequency): 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)
2440.00	Н	-2.7	85.8	114.0	-28.2
2440.00	V	-2.7	79.7	114.0	-34.3

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)
2440.00	Н	-2.7	**76.9	94.0	-17.1
2440.00	V	-2.7	**70.8	94.0	-23.2

Test Result of (Transmission mode, Highest frequency): 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)
2478.00	Н	-2.7	88.1	114.0	-25.9
2478.00	V	-2.7	81.4	114.0	-32.6

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)
2478.00	Н	-2.7	79.2	94.0	-14.8
2478.00	V	-2.7	72.5	94.0	-21.5

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(0.356) =-8.9dB.

Note: Field Strength includes Antenna Factor and Cable Loss. Receiver setting: RBW = 1MHz VBW = 1MHz

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



Radiated Emissions (Spurious Emission)

Test Requirement:	FCC Part 15 Section 15.249
Test Method:	ANSI C63.4
Test Date(s):	2012-12-13
Temperature:	20.0 °C
Humidity:	59.0 %
Atmospheric Pressure:	100.3 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	Remote: 9Vd.c. ("AA" size battery x 6)

Measurement Data

Test Result of (Transmission mode, Lowest frequency): 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)
4804.00	Н	6.3	36.4	74.0	-37.6
7206.00	Н	13.5	44.7	74.0	-29.3
9608.00	Н	13.2	41.5	74.0	-32.5
12010.00	Н	18.5	48.2	74.0	-25.8
14412.00	Н	19.2	49.0	74.0	-25.0
16814.00	Н	27.2	49.0	74.0	-25.0
19216.00	Н	28.7	50.9	74.0	-23.1
21618.00	Н	29.3	49.6	74.0	-24.4
24020.00	Н	30.5	52.2	74.0	-21.8
26422.00	Н	31.2	52.0	74.0	-22.0

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz VBW = 1MHz



Measurement Data

Test Result of (Transmission mode, Lowest frequency): 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)
4804.00	V	6.3	34.5	74.0	-39.5
7206.00	V	13.5	44.6	74.0	-29.4
9608.00	V	13.2	42.7	74.0	-31.3
12010.00	V	18.5	49.9	74.0	-24.1
14412.00	V	19.2	48.3	74.0	-25.7
16814.00	V	27.2	48.3	74.0	-25.7
19216.00	V	28.7	51.2	74.0	-22.8
21618.00	V	29.3	50.9	74.0	-23.1
24020.00	V	30.5	52.7	74.0	-21.3
26422.00	V	31.2	53.8	74.0	-20.2

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz VBW = 1MHz



Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

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)
4804.00	Н	6.3	**27.5	54.0	-26.5
7206.00	Н	13.5	**35.8	54.0	-18.2
9608.00	Н	13.2	**32.6	54.0	-21.4
12010.00	Н	18.5	**39.3	54.0	-14.7
14412.00	Н	19.2	**40.1	54.0	-13.9
16814.00	Н	27.2	**40.1	54.0	-13.9
19216.00	Н	28.7	**42.0	54.0	-12.0
21618.00	Н	29.3	**40.7	54.0	-13.3
24020.00	Н	30.5	**43.3	54.0	-10.7
26422.00	Н	31.2	**43.1	54.0	-10.9

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)
4804.00	V	6.3	**25.6	54.0	-28.4
7206.00	V	13.5	**35.7	54.0	-18.3
9608.00	V	13.2	**33.8	54.0	-20.2
12010.00	V	18.5	**41.0	54.0	-13.0
14412.00	V	19.2	**39.4	54.0	-14.6
16814.00	V	27.2	**39.4	54.0	-14.6
19216.00	V	28.7	**42.3	54.0	-11.7
21618.00	V	29.3	**42.0	54.0	-12.0
24020.00	V	30.5	**43.8	54.0	-10.2
26422.00	V	31.2	**44.9	54.0	-9.1

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(0.356) =--8.9dB.

Note: Field Strength includes Antenna Factor and Cable Loss. Receiver setting: RBW = 1MHz VBW = 1MHz

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



Measurement Data

Test Result of (Transmission mode, Middle frequency): 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)
4880.00	Н	6.3	35.4	74.0	-38.6
7320.00	Н	13.5	46.3	74.0	-27.7
9760.00	Н	13.2	43.6	74.0	-30.4
12200.00	Н	18.5	49.0	74.0	-25.0
14640.00	Н	19.2	48.6	74.0	-25.4
17080.00	Н	27.2	49.7	74.0	-24.3
19520.00	Н	28.7	50.7	74.0	-23.3
21960.00	Н	29.3	51.3	74.0	-22.7
24400.00	Н	30.5	53.2	74.0	-20.8
26840.00	Н	31.2	53.8	74.0	-20.2

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB V/m)	Limit at 3m (dB V/m)	Margin (dB)
4880.00	V	6.3	35.0	74.0	-39.0
7320.00	V	13.5	44.9	74.0	-29.1
9760.00	V	13.2	42.8	74.0	-31.2
12200.00	V	18.5	48.6	74.0	-25.4
14640.00	V	19.2	48.2	74.0	-25.8
17080.00	V	27.2	49.7	74.0	-24.3
19520.00	V	28.7	50.2	74.0	-23.8
21960.00	V	29.3	50.6	74.0	-23.4
24400.00	V	30.5	51.4	74.0	-22.6
26840.00	V	31.2	54.1	74.0	-19.9

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz VBW = 1MHz

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



Measurement Data

Test Result of (Transmission mode, Middle frequency): PASS

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)
4880.00	Н	6.3	**26.5	54.0	-27.5
7320.00	Н	13.5	**37.4	54.0	-16.6
9760.00	Н	13.2	**34.7	54.0	-19.3
12200.00	Н	18.5	**40.1	54.0	-13.9
14640.00	Н	19.2	**39.7	54.0	-14.3
17080.00	Н	27.2	**40.8	54.0	-13.2
19520.00	Н	28.7	**41.8	54.0	-12.2
21960.00	Н	29.3	**42.4	54.0	-11.6
24400.00	Н	30.5	**44.3	54.0	-9.7
26840.00	Н	31.2	**44.9	54.0	-9.1

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)
4880.00	V	6.3	**26.1	54.0	-27.9
7320.00	V	13.5	**36.0	54.0	-18.0
9760.00	V	13.2	**33.9	54.0	-20.1
12200.00	V	18.5	**39.7	54.0	-14.3
14640.00	V	19.2	**39.3	54.0	-14.7
17080.00	V	27.2	**40.8	54.0	-13.2
19520.00	V	28.7	**41.3	54.0	-12.7
21960.00	V	29.3	**41.7	54.0	-12.3
24400.00	V	30.5	**42.5	54.0	-11.5
26840.00	V	31.2	**45.2	54.0	-8.8

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(0.356) =--8.9dB.

Note: Field Strength includes Antenna Factor and Cable Loss. RBW = 1MHz Receiver setting: VBW = 1MHz

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



Measurement Data

Test Result of (Transmission mode, Highest frequency): 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)
4956.00	Н	6.3	35.9	74.0	-38.1
7434.00	Н	13.5	47.1	74.0	-26.9
9912.00	Н	13.2	43.9	74.0	-30.1
12390.00	Н	18.5	48.6	74.0	-25.4
14868.00	Н	19.3	51.7	74.0	-22.3
17346.00	Н	31.1	52.8	74.0	-21.2
19824.00	Н	31.9	54.4	74.0	-19.6
22302.00	Н	32.8	53.9	74.0	-20.1
24780.00	Н	34.1	56.5	74.0	-17.5
27258.00	Н	34.8	56.3	74.0	-17.7

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)
4956.00	V	6.3	36.6	74.0	-37.4
7434.00	V	13.5	46.1	74.0	-27.9
9912.00	V	13.2	42.9	74.0	-31.1
12390.00	V	18.5	51.2	74.0	-22.8
14868.00	V	19.3	52.3	74.0	-21.7
17346.00	V	31.1	53.6	74.0	-20.4
19824.00	V	31.9	53.6	74.0	-20.4
22302.00	V	32.8	55.0	74.0	-19.0
24780.00	V	34.1	57.3	74.0	-16.7
27258.00	V	34.8	56.6	74.0	-17.4

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz VBW = 1MHz

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



Measurement Data

Test Result of (Transmission mode, Highest frequency): PASS

Detection mode: #Average

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB V/m)	Limit at 3m (dB V/m)	Margin (dB)
4956.00	Н	6.3	**27.0	54.0	-27.0
7434.00	Н	13.5	**38.2	54.0	-15.8
9912.00	Н	13.2	**35.0	54.0	-19.0
12390.00	Н	18.5	**39.7	54.0	-14.3
14868.00	Н	19.3	**42.8	54.0	-11.2
17346.00	Н	31.1	**43.9	54.0	-10.1
19824.00	Н	31.9	**45.5	54.0	-8.5
22302.00	Н	32.8	**45.0	54.0	-9.0
24780.00	Н	34.1	**47.6	54.0	-6.4
27258.00	Н	34.8	**47.4	54.0	-6.6
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)
4956.00	V	6.3	**27.7	54.0	-26.3
7434.00	V	13.5	**37.2	54.0	-16.8
9912.00	V	13.2	**34.0	54.0	-20.0
12390.00	V	18.5	**40.1	54.0	-13.9
14868.00	V	19.3	**42.3	54.0	-11.7
17346.00	V	31.1	**43.4	54.0	-10.6
19824.00	V	31.9	**44.7	54.0	-9.3
22302.00	V	32.8	**46.1	54.0	-7.9
24780.00	V	34.1	**48.4	54.0	-5.6
27258.00	V	34.8	**47.7	54.0	-6.3

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(0.356) =--8.9dB.

Note: Field Strength includes Antenna Factor and Cable Loss. Receiver setting: RBW = 1MHz

VBW = 1MHz

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



Measurement Data

Test Result of (Charge mode): PASS

Detection mode: #Peak

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)	
Emissions detected are more than 20 dB below the limit line(s)					

Note: Field Strength includes Antenna Factor and Cable Loss.



Frequency range of Fundamental Emission

Test Requirement:	FCC 47 CFR 15.249
Test Method:	ANSI C63.4 (Section 13.1.7)
Test Date(s):	2012-12-13
Temperature:	28.0 °C
Humidity:	71.0 %
Atmospheric Pressure:	100.5 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	Remote: 9Vd.c. ("AA" size battery x 6)

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.

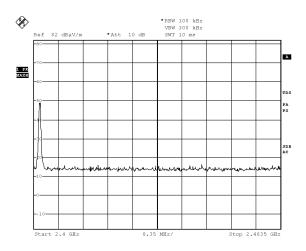
Limits for Frequency range of Fundamental Emission:

Frequency	FCC Limits
[MHz]	[MHz]
2402.00 - 2480.00	2400 – 2483.5

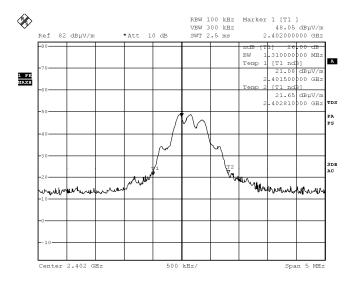


Measurement Data :

Test Result of Frequency Range of Fundamental Emission: PASS Lowest Frequency – 2402.00MHz



Test Result of 26dB Bandwidth of Fundamental Emission: PASS Lowest Frequency – 2402.00MHz

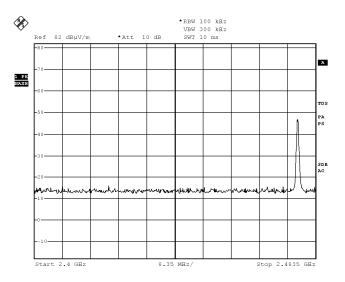


BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com

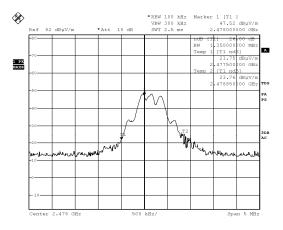


Measurement Data :

Test Result of Frequency Range of Fundamental Emission: PASS Highest Frequency – 2480.00MHz



Test Result of 26dB Bandwidth of Fundamental Emission: PASS Highest Frequency – 2478.00MHz



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



Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 89 pulses (0.4msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered ($89^{\circ}0.4$) per 100msec = 35.6% duty cycle.

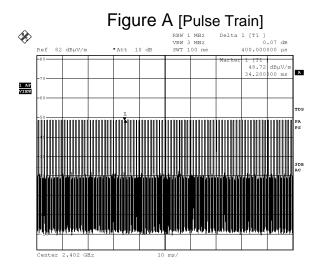
Remarks:

Duty Cycle Correction = 20Log(0.356) = -8.9dB

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



Measurement Data :





Photographs of EUT

Front View of the product



Inner Circuit Top View

Inner Circuit Top View

Rear View of the product



Inner Circuit Bottom View



Internal View of Product





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



Photographs of EUT

Internal View of Product



Battery compartment



Battery Cover









Measurement of Radiated Emission Test Set Up



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

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