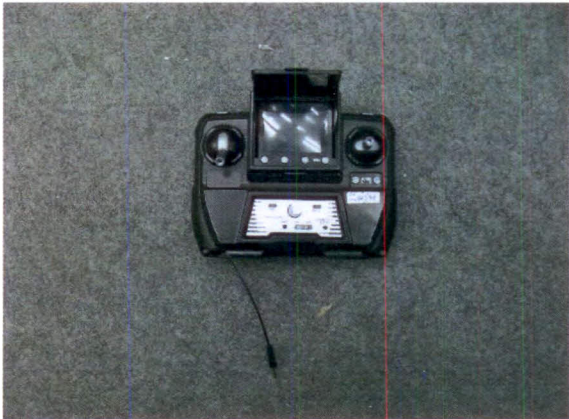




TEST REPORT No: (5212)188-1706

## TEST REPORT

To:	<b>SILVERLIT TOYS MANUFACTORY LIMITED</b>	To:	-
Attn:	Edmond Chan	Attn:	-
Address:	17 <sup>th</sup> Floor World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong	Address:	-
Fax:	28348797	Fax:	-
E-mail:	<a href="mailto:edmond@silverlit.com">edmond@silverlit.com</a>	E-mail:	-
Folder No.:	ITM-12JY032MTHS-B-A		
Factory name:	<b>SILVERLIT TOYS MANUFACTORY LIMITED</b>		
Location:	17 <sup>th</sup> Floor World Trade Centre, 280 Gloucester Road, Causeway Bay, Hong Kong		
Product:	2.4G Peregrine Eye RTV Model No.: 84627		
	Sample No:	HK120720/022	
	Test date:	July 25, 2012 to August 9, 2012	
	Test Requested:	FCC Part 15 - 2011	
	Test Method:	ANSI C63.4 - 2009	
	FCC ID:	OYK-TX0002G4-1209	
<b>The results given in this report are related to the tested specimen of the described electrical apparatus.</b>			
<b>CONCLUSION: The submitted sample was found to <u>COMPLY</u> with requirement of FCC Part 15 Subpart C.</b>			
Authorized Signature:			
			
Reviewed by: Keith Yeung		Approved by: Steven Tsang	
Date: October 16, 2012		Date: October 16, 2012	



**TEST REPORT No: (5212)188-1706**  
**Test Result Summary**

<b>EMISSION TEST</b>			
<b>Test requirement: FCC Part 15 - 2011</b>			
Test Condition	Test Method	Test Result	
		Pass	Failed
Radiated Emission Test, 9kHz to 40GHz	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Report Revision & Sample Re-submit History:**

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## TEST REPORT No: (5212)188-1706

### Location of the test laboratory

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

### List of measuring equipment

#### Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	18-OCT-2012
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	07-AUG-2012
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	16-SEP-2012
HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-692	16-SEP-2012
PREAMPLIFIER	SCHWARZBECK	BBV9718	9718-152	16-SEP-2012
OPEN AREA TEST SITE	BVCPS	N/A	N/A	10-JUL-2013
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	01-DEC-2012
COAXIAL CABLE	SUHNER	N/A	N/A	06-OCT-2012

#### Remarks:-

N/A : Not Applicable or Not Available

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

## TEST REPORT No: (5212)188-1706

### Equipment Under Test [EUT]

#### Description of Sample:

Model Name: 2.4G Peregrine Eye RTV  
Model Number: 84627  
Rating: 117Va.c., 60Hz (computer) /  
12Vd.c. ("AA" size battery x 8) /  
3.7Vd.c. ("rechargeable battery" x 1)

#### Description of EUT Operation:

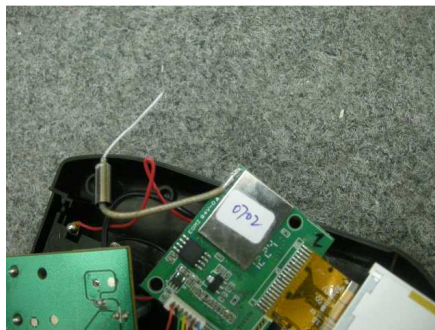
The Equipment Under Test (EUT) is a **SILVERLIT TOYS MANUFACTORY LIMITED** of Remote Control Transceiver. It is a 1 switch, 9 buttons and 2 sticks transceiver and operating at 2411.00MHz to 2468.00MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while buttons is being pressed or sticks are being pushed or pulled, Modulation by IC, and type is FHSS.

The transmitter has different control:

1. ON/OFF switch – ON/OFF control
2. Video recording button – video recording control
3. Photographing button – photographing control
4. UP button – display control
5. DOWN button – display control
6. ENTER button – display control
7. MENU/BACK button – display control
8. Display on/off button – display on/off control
9. Trimmer L button – turn the trim dial clockwise
10. Trimmer R button – turn the trim dial anticlockwise
11. Left stick – control upward and downward
12. Right stick – control direction

#### Antenna Requirement (Section 15.203)

The EUT is use of a permanently 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.



**TEST REPORT No: (5212)188-1706**

**Radiated Emissions (Fundamental)**

Test Requirement: FCC Part 15 Section 15.249  
 Test Method: ANSI C63.4  
 Test Date(s): 2012-08-09  
 Temperature: 25.0 °C  
 Humidity: 55.0 %  
 Atmospheric Pressure: 100.3 kPa  
 Mode of Operation: Transmission mode  
 Tested Voltage: 12Vd.c. ("AA" size battery x 8)

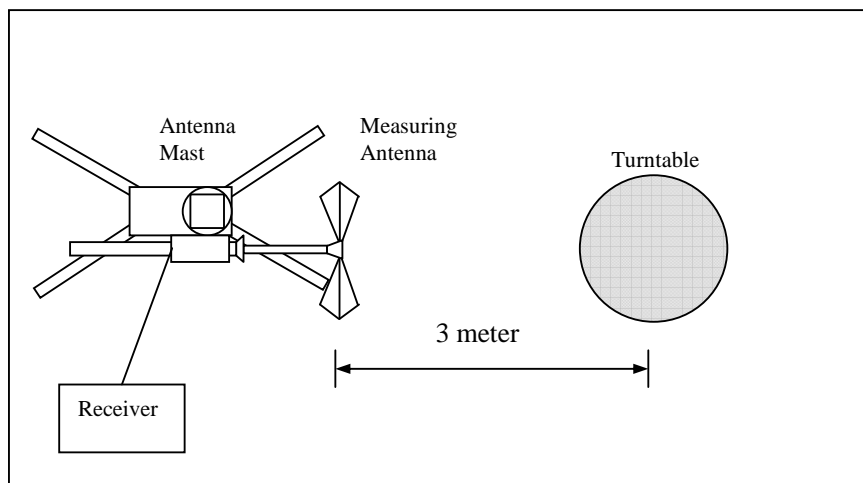
**Test Procedure:**

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**





**TEST REPORT No: (5212)188-1706**

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

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission (Average) [mV/m]	Field Strength of Harmonics Emission (Average) [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)
2411.00	H	-5.2	100.93	114.0	-13.07
2411.00	V	-5.2	108.61	114.0	-5.39

**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)
2411.00	H	-5.2	**86.2	94.0	-7.8
2411.00	V	-5.2	**93.91	94.0	-0.09

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

\*\*Duty Cycle Correction =  $20\text{Log}(0.184) = -14.7\text{dB}$ .

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz  
VBW = 1MHz



**TEST REPORT No: (5212)188-1706**

**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 (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
2438.00	H	-4.6	98.92	114.0	-15.08
2438.00	V	-4.6	107.37	114.0	-6.63

**Detection mode: # Average**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
2438.00	H	-4.6	**84.2	94.0	-9.8
2438.00	V	-4.6	**92.7	94.0	-1.3

**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 (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
2468.00	H	-4.3	107.07	114.0	-6.93
2468.00	V	-4.3	98.24	114.0	-15.76

**Detection mode: # Average**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
2468.00	H	-4.3	**92.4	94.0	-1.6
2468.00	V	-4.3	**83.5	94.0	-10.5

# 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(0.184) = -14.7dB.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz  
VBW = 1MHz



## TEST REPORT No: (5212)188-1706

### Radiated Emissions (Spurious Emission)

Test Requirement: FCC Part 15 Section 15.249  
Test Method: ANSI C63.4  
Test Date(s): 2012-08-09  
Temperature: 25.0 °C  
Humidity: 55.0 %  
Atmospheric Pressure: 100.3 kPa  
Mode of Operation: Transmission mode  
Tested Voltage: 12Vd.c. ("AA" size battery x 8)

### 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)
4822.000	H	5.5	68.32	74.0	-5.68
7233.000	H	12.4	58.65	74.0	-15.35
9643.500	H	15.1	54.20	74.0	-19.8
12054.375	H	17.5	53.00	74.0	-21.0
14465.250	H	22.1	52.30	74.0	-21.7
16876.125	H	30.8	51.40	74.0	-22.6
19287.000	H	31.8	53.70	74.0	-20.3
21697.875	H	32.3	52.70	74.0	-21.3
24108.750	H	33.7	54.50	74.0	-19.5
26519.625	H	34.6	58.20	74.0	-15.8

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz  
VBW = 1MHz





**TEST REPORT No: (5212)188-1706**

**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 (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
4822.000	V	5.5	67.80	74.0	-6.2
7233.000	V	12.4	55.10	74.0	-18.9
9643.500	V	15.1	53.50	74.0	-20.5
12054.375	V	17.5	52.00	74.0	-22.0
14465.250	V	22.1	51.80	74.0	-22.2
16876.125	V	30.8	52.10	74.0	-21.9
19287.000	V	31.8	53.30	74.0	-20.7
21697.875	V	32.3	53.90	74.0	-20.1
24108.750	V	33.7	55.50	74.0	-18.5
26519.625	V	34.6	57.80	74.0	-16.2

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz  
VBW = 1MHz



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## TEST REPORT No: (5212)188-1706

### 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 (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
4822.000	H	5.5	**53.6	54.0	-0.4
7233.000	H	12.4	**44.0	54.0	-10.0
9643.500	H	15.1	**39.5	54.0	-14.5
12054.375	H	17.5	**38.3	54.0	-15.7
14465.250	H	22.1	**37.6	54.0	-16.4
16876.125	H	30.8	**36.7	54.0	-17.3
19287.000	H	31.8	**39.0	54.0	-15.0
21697.875	H	32.3	**38.0	54.0	-16.0
24108.750	H	33.7	**39.8	54.0	-14.2
26519.625	H	34.6	**43.5	54.0	-10.5

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
4822.000	V	5.5	**53.1	54.0	-0.9
7233.000	V	12.4	**40.4	54.0	-13.6
9643.500	V	15.1	**38.8	54.0	-15.2
12054.375	V	17.5	**37.3	54.0	-16.7
14465.250	V	22.1	**37.1	54.0	-16.9
16876.125	V	30.8	**37.4	54.0	-16.6
19287.000	V	31.8	**38.6	54.0	-15.4
21697.875	V	32.3	**39.2	54.0	-14.8
24108.750	V	33.7	**40.8	54.0	-13.2
26519.625	V	34.6	**43.1	54.0	-10.9

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

\*\*Duty Cycle Correction =  $20\text{Log}(0.184) = -14.7\text{dB}$ .

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz  
VBW = 1MHz



**TEST REPORT No: (5212)188-1706**

**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 (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
4876.00	H	5.7	64.02	74.0	-9.98
7314.00	H	13.9	55.17	74.0	-18.83
9751.500	H	14.0	54.00	74.0	-20.0
12189.375	H	18.6	53.00	74.0	-21.0
14627.250	H	23.2	51.90	74.0	-22.1
17065.125	H	31.2	52.80	74.0	-21.2
19503.000	H	32.0	53.50	74.0	-20.5
21940.875	H	33.5	53.60	74.0	-20.4
24378.750	H	34.1	54.90	74.0	-19.1
26816.625	H	35.2	57.20	74.0	-16.8

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
4876.00	V	5.7	66.98	74.0	-7.02
7314.00	V	13.9	54.87	74.0	-19.13
9751.500	V	14.0	54.20	74.0	-19.8
12189.375	V	18.6	53.80	74.0	-20.2
14627.250	V	23.2	51.20	74.0	-22.8
17065.125	V	31.2	53.50	74.0	-20.5
19503.000	V	32.0	52.50	74.0	-21.5
21940.875	V	33.5	55.40	74.0	-18.6
24378.750	V	34.1	55.20	74.0	-18.8
26816.625	V	35.2	57.60	74.0	-16.4

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz  
VBW = 1MHz



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## TEST REPORT No: (5212)188-1706

### 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 (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
4876.00	H	5.7	**49.3	54.0	-4.7
7314.00	H	13.9	**40.5	54.0	-13.5
9751.500	H	14.0	**39.3	54.0	-14.7
12189.375	H	18.6	**38.3	54.0	-15.7
14627.250	H	23.2	**37.2	54.0	-16.8
17065.125	H	31.2	**38.1	54.0	-15.9
19503.000	H	32.0	**38.8	54.0	-15.2
21940.875	H	33.5	**38.9	54.0	-15.1
24378.750	H	34.1	**40.2	54.0	-13.8
26816.625	H	35.2	**42.5	54.0	-11.5

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
4876.00	V	5.7	**52.3	54.0	-1.7
7314.00	V	13.9	**40.2	54.0	-13.8
9751.500	V	14.0	**39.5	54.0	-14.5
12189.375	V	18.6	**39.1	54.0	-14.9
14627.250	V	23.2	**36.5	54.0	-17.5
17065.125	V	31.2	**38.8	54.0	-15.2
19503.000	V	32.0	**37.8	54.0	-16.2
21940.875	V	33.5	**40.7	54.0	-13.3
24378.750	V	34.1	**40.5	54.0	-13.5
26816.625	V	35.2	**42.9	54.0	-11.1

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

\*\*Duty Cycle Correction =  $20\text{Log}(0.184) = -14.7\text{dB}$ .

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz  
VBW = 1MHz

**TEST REPORT No: (5212)188-1706**

**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 (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
4936.00	H	5.7	63.09	74.0	-10.91
7404.00	H	14.7	55.93	74.0	-18.07
9873.000	H	12.9	53.10	74.0	-20.9
12341.250	H	19.5	54.20	74.0	-19.8
14809.500	H	25.1	57.60	74.0	-16.4
17277.750	H	33.4	53.90	74.0	-20.1
19746.000	H	34.7	55.90	74.0	-18.1
22214.250	H	35.6	56.70	74.0	-17.3
24682.500	H	36.8	59.00	74.0	-15.0
27150.750	H	37.5	60.60	74.0	-13.4

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
4936.00	V	5.7	64.77	74.0	-9.23
7404.00	V	14.7	55.48	74.0	-18.52
9873.000	V	12.9	52.40	74.0	-21.6
12341.250	V	19.5	53.50	74.0	-20.5
14809.500	V	25.1	56.20	74.0	-17.8
17277.750	V	33.4	53.60	74.0	-20.4
19746.000	V	34.7	56.70	74.0	-17.3
22214.250	V	35.6	56.00	74.0	-18.0
24682.500	V	36.8	57.40	74.0	-16.6
27150.750	V	37.5	60.00	74.0	-14.0

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz  
VBW = 1MHz



**TEST REPORT No: (5212)188-1706**

**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 (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
4936.00	H	5.7	**48.4	54.0	-5.6
7404.00	H	14.7	**41.2	54.0	-12.8
9873.000	H	12.9	**38.4	54.0	-15.6
12341.250	H	19.5	**39.5	54.0	-14.5
14809.500	H	25.1	**42.9	54.0	-11.1
17277.750	H	33.4	**39.2	54.0	-14.8
19746.000	H	34.7	**41.2	54.0	-12.8
22214.250	H	35.6	**42.0	54.0	-12.0
24682.500	H	36.8	**44.3	54.0	-9.7
27150.750	H	37.5	**45.9	54.0	-8.1

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)
4936.00	V	5.7	**50.1	54.0	-3.9
7404.00	V	14.7	**40.8	54.0	-13.2
9873.000	V	12.9	**37.7	54.0	-16.3
12341.250	V	19.5	**38.8	54.0	-15.2
14809.500	V	25.1	**41.5	54.0	-12.5
17277.750	V	33.4	**38.9	54.0	-15.1
19746.000	V	34.7	**42.0	54.0	-12
22214.250	V	35.6	**41.3	54.0	-12.7
24682.500	V	36.8	**42.7	54.0	-11.3
27150.750	V	37.5	**45.3	54.0	-8.7

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

\*\*Duty Cycle Correction = 20Log(0.184) = -14.7dB.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz  
VBW = 1MHz



## TEST REPORT No: (5212)188-1706

### Radiated Emissions (30MHz – 2.4GHz)

Test Requirement: FCC Part 15 Section 15.209  
Test Method: ANSI C63.4  
Test Date(s): 2012-07-13  
Temperature: 29.0 °C  
Humidity: 67.0 %  
Atmospheric Pressure: 100.2 kPa  
Mode of Operation: Remote charge mode  
Tested Voltage: 3.7Vd.c. ("rechargeable battery" x 1)

#### Limits for Radiated Emissions [FCC 47 CFR 15.209]:

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



**TEST REPORT No: (5212)188-1706**

**Measurement Data**

**Test Result of (Remote charge mode, battery operated): PASS**

**Detection mode: Quasi-Peak**

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
51.64	H	27.6	40.0	-12.4
68.28	H	26.4	40.0	-13.6
144.28	H	25.8	43.5	-17.7
241.96	H	22.0	46.0	-24.0
388.16	H	26.1	46.0	-19.9
587.52	H	29.7	46.0	-16.3

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
51.64	V	27.1	40.0	-12.9
68.28	V	26.2	40.0	-13.8
144.28	V	21.6	43.5	-21.9
241.96	V	22.5	46.0	-23.5
388.16	V	26.9	46.0	-19.1
587.52	V	31.2	46.0	-14.8

Note: Field Strength includes Antenna Factor and Cable Loss.





## TEST REPORT No: (5212)188-1706

### Frequency range of Fundamental Emission

Test Requirement: FCC 47 CFR 15.249  
Test Method: ANSI C63.4:2009 (Section 13.1.7)

Test Date(s): 2012-07-13  
Temperature: 30.0 °C  
Humidity: 69.0 %  
Atmospheric Pressure: 100.3 kPa  
Mode of Operation: Transmission mode  
Tested Voltage: 12Vd.c. ("AA" size battery x 8)

#### 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 [MHz]	FCC Limits [MHz]
2410.875 – 2468.250	2400 – 2483.5

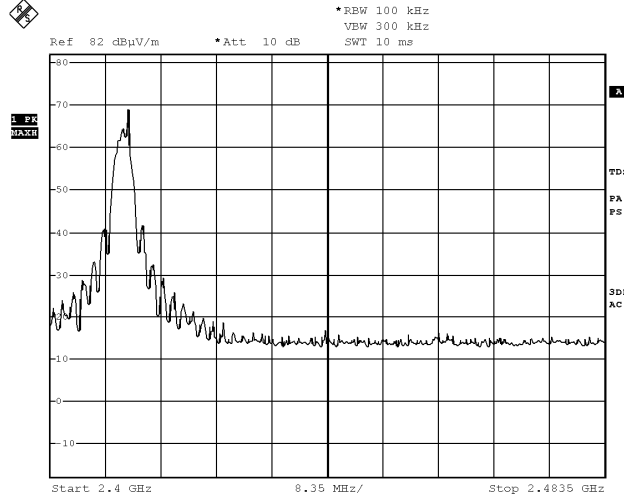


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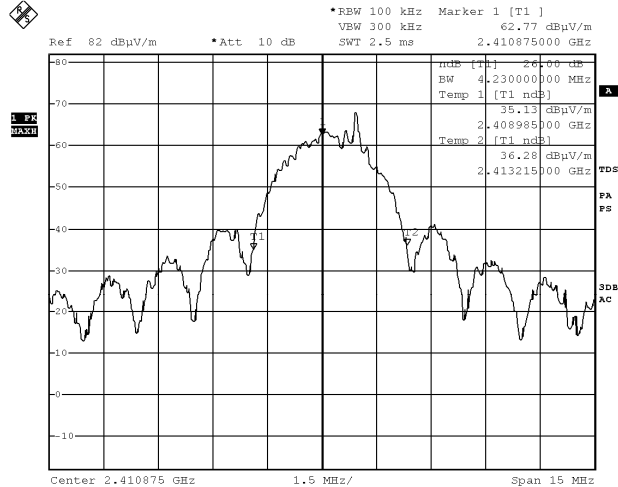
Measurement Data :

Test Result of Frequency Range of Fundamental Emission: PASS
Lowest Frequency – 2410.875MHz



Date: 13.JUL.2012 11:44:16

Test Result of 26dB Bandwidth of Fundamental Emission: PASS
Lowest Frequency – 2410.875MHz



Date: 13.JUL.2012 11:45:00

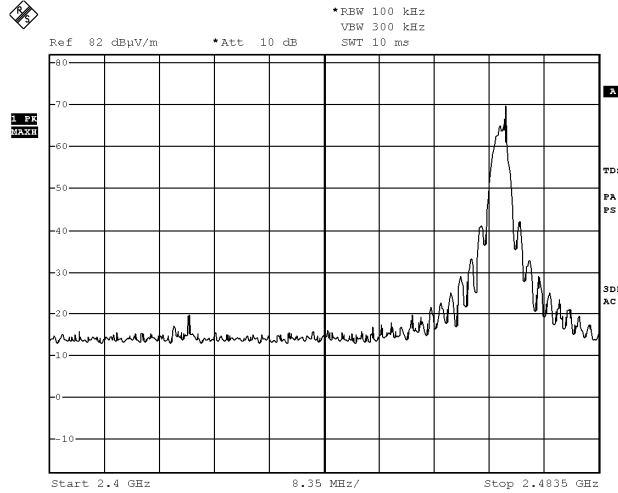


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TEST REPORT No: (5212)188-1706

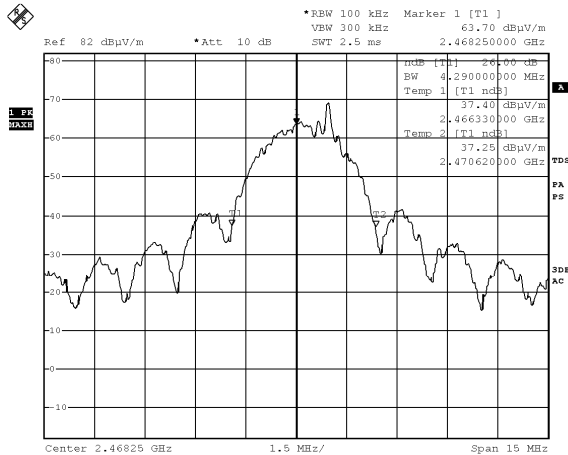
Measurement Data :

Test Result of Frequency Range of Fundamental Emission: PASS
Highest Frequency – 2468.25MHz



Date: 13.JUL.2012 15:37:15

Test Result of 26dB Bandwidth of Fundamental Emission: PASS
Highest Frequency – 2468.25MHz



Date: 13.JUL.2012 15:38:06

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## TEST REPORT No: (5212)188-1706

### Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 1 pulse (18.4msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered (18.4) per 100msec = 18.4% duty cycle.

Remarks:

Duty Cycle Correction =  $20\text{Log}(0.184) = -14.7\text{dB}$

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

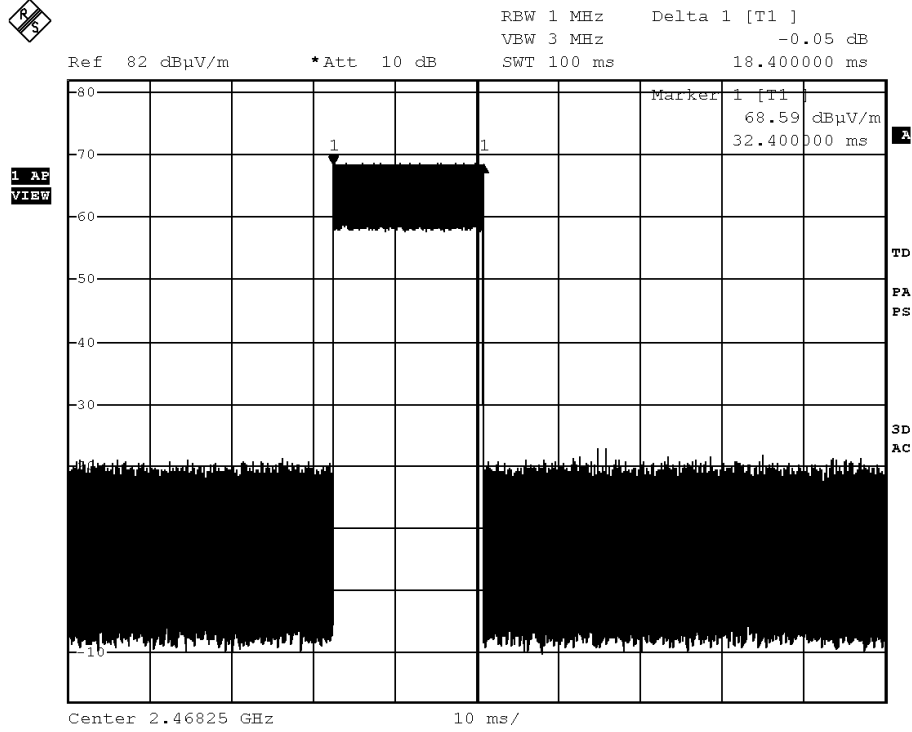


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Measurement Data :

Figure A [Pulse Train]



Date: 13.JUL.2012 15:39:49

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**Photographs of EUT**

**Front View of the product**



**Front View of the product**



**Side View of the product**



**Side View of the product**



**Battery Compartment**



**Battery Cover**





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## TEST REPORT No: (5212)188-1706

### Photographs of EUT

Internal View of the product



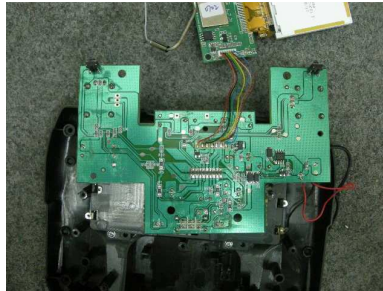
Internal View of the product



Inner Circuit View



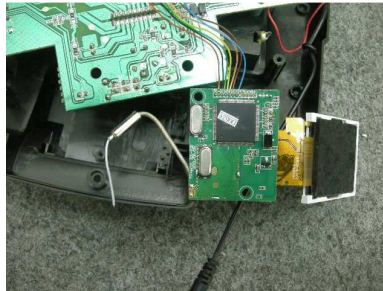
Inner Circuit View



Inner Circuit View



Inner Circuit View



**TEST REPORT No: (5212)188-1706**

**Photographs of EUT**

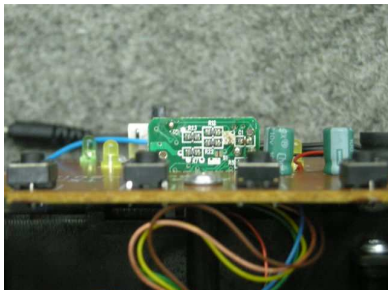
**Inner Circuit View**



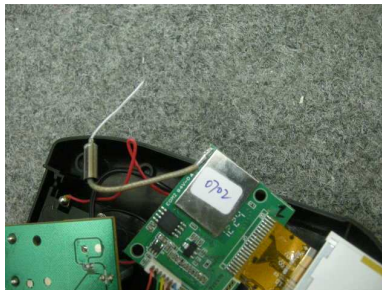
**Inner Circuit View**



**Inner Circuit View**



**Antenna**





**TEST REPORT No: (5212)188-1706**

**Measurement of Radiated Emission Test Set Up**



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