



## **STC Test Report**

Date : 2008-09-09

Page 1 of 21

No. : HM161935

**Applicant (WIC020):**

Winbel Co Ltd  
9C Fully Industrial Building, 6 Tsun Yip Lane, Kwun Tong  
Hong Kong

**Manufacturer:**

Winbel Co Ltd  
9C Fully Industrial Building, 6 Tsun Yip Lane, Kwun Tong  
Hong Kong

**Description of Samples:**

Product: Co Co Call Round Type Transmitter  
Brand Name: Co Co Call  
Model Number: WM109U40  
FCC ID: WDZCOCOCALL300

**Date Samples Received:**

2008-06-12, 2008-08-06, 2008-08-21

**Date Tested:**

2008-06-19 to 2008-08-25

**Investigation Requested:**

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2007 and ANSI C63.4:2003 for FCC Certification.

**Conclusions:**

The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

**Remarks:**

---

Dr. LEE Kam Chuen,  
ElectroMagnetic Compatibility Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)



## **STC Test Report**

Date : 2008-09-09

Page 2 of 21

No. : HM161935

### **CONTENT:**

Cover	Page 1 of 21
Content	Page 2-3 of 21
<b><u>1.0 General Details</u></b>	
1.1 Test Laboratory	Page 4 of 21
1.2 Applicant Details	Page 4 of 21
Applicant	
Manufacturer	
1.3 Equipment Under Test [EUT]	Page 5 of 21
Description of EUT operation	
1.4 Date of Order	Page 5 of 21
1.5 Submitted Samples	Page 5 of 21
1.6 Test Duration	Page 5 of 21
1.7 Country of Origin	Page 5 of 21
<b><u>2.0 Technical Details</u></b>	
2.1 Investigations Requested	Page 6 of 21
2.2 Test Standards and Results Summary	Page 6 of 21
<b><u>3.0 Test Results</u></b>	
3.1 Emission	Page 7-10 of 21
3.2 Bandwidth Measurement	Page 11-12 of 21

### **The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## **STC Test Report**

Date : 2008-09-09

Page 3 of 21

No. : HM161935

### **Appendix A**

List of Measurement Equipment

Page 13 of 21

### **Appendix B**

Duty Cycle Correction During 100 msec

Page 14-18 of 21

### **Appendix C**

Periodic Operation

Page 19 of 21

### **Appendix D**

Photographs

Page 20-21 of 21

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## **STC Test Report**

Date : 2008-09-09

Page 4 of 21

No. : HM161935

### **1.0 General Details**

#### **1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.  
EMC Laboratory  
10 Dai Wang Street, Taipo Industrial Estate  
New Territories, Hong Kong

Telephone: 852 2666 1888  
Fax: 852 2664 4353

#### **1.2 Applicant Details** **Applicant**

Winbel Co Ltd  
9C Fully Industrial Building, 6 Tsun Yip Lane, Kwun Tong Hong Kong

#### **Manufacturer**

Winbel Co Ltd  
9C Fully Industrial Building, 6 Tsun Yip Lane, Kwun Tong Hong Kong

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## **STC Test Report**

Date : 2008-09-09

Page 5 of 21

No. : HM161935

### **1.3 Equipment Under Test [EUT] Description of Sample**

Product: Co Co Call Round Type Transmitter  
Manufacturer: Winbel Co Ltd  
Brand Name: Co Co Call  
Model Number: WM109U40  
Rating: 3Vd.c. ("AA" size battery x 2)

#### **1.3.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a Winbel Co Ltd., Co Co Call Round Type Transmitter. The EUT continues to transmit while button is being pressed. It is button transmitter, Modulation by IC; and type of pulse modulation.

### **1.4 Date of Order**

2008-06-12, 2008-08-06, 2008-08-21

### **1.5 Submitted Sample(s):**

3 Samples

### **1.6 Test Duration**

2008-06-19 to 2008-08-25

### **1.7 Country of Origin**

China

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## **STC Test Report**

Date : 2008-09-09

Page 6 of 21

No. : HM161935

### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 2007 and ANSI C63.4:2003 for FCC Certification.

#### **2.2 Test Standards and Results Summary Tables**

<b>EMISSION Results Summary</b>					
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result	
				Pass	Failed
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.231a	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions, 30MHz to 1GHz	FCC 47CFR 15.209	ANSI C63.4:2003	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## STC Test Report

Date : 2008-09-09

Page 7 of 21

No. : HM161935

### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Radiated Emissions (30 – 1000MHz)**

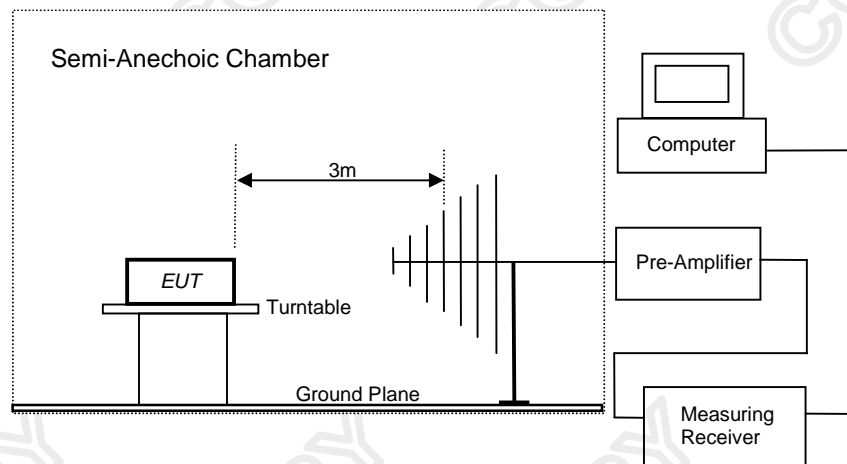
Test Requirement: FCC 47CFR 15.231a  
Test Method: ANSI C63.4:2003  
Test Date: 2008-08-25  
Mode of Operation: Tx mode

#### **Test Method:**

The sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. Measurements in both horizontal and vertical polarities were performed. 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, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\*: Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

#### **Test Setup:**



**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## STC Test Report

Date : 2008-09-09

Page 8 of 21

No. : HM161935

### Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.231a]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Average] [ $\mu\text{V/m}$ ]	Field Strength of Spurious Emission [Average] [ $\mu\text{V/m}$ ]
40.66-40.70	2,250	225
70-130	1,250	125
130-174	1,250 to 3,750 *	125 to 375 *
174-260	3,750	375
260-470	3,750 to 12,500 *	375 to 1,250 *
Above 470	12,500	1,250

\* Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz,  $\mu\text{V/m}$  at 3 meters =  $56.81818(F) - 6136.3636$ ; for the band 260-470 MHz,  $\mu\text{V/m}$  at 3 meters =  $41.6667(F) - 7083.3333$ . The maximum permissible unwanted emission level is 20dB below the maximum permitted fundamental level.

### Results:

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB $\mu\text{V}$	Correction Factor dB/m	Field Strength dB $\mu\text{V/m}$	Field Strength $\mu\text{V/m}$	Limit @3m $\mu\text{V/m}$	E-Field Polarity
315.00	60.4	16.1	76.5	6683.4	60,416.8	Horizontal

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dB $\mu\text{V}$	Correction Factor dB/m	Field Strength dB $\mu\text{V/m}$	Field Strength $\mu\text{V/m}$	Limit @3m $\mu\text{V/m}$	E-Field Polarity
315.00	54.0	16.1	70.1	3198.9	6,041.7	Horizontal

### The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage





## STC Test Report

Date : 2008-09-09

Page 9 of 21

No. : HM161935

### Results:

Field Strength of Spurious Emissions Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
630.00	13.9	23.1	37.0	70.8	6,041.7	Horizontal
945.10	9.6	26.5	36.1	63.8	6,041.7	Horizontal
1260.00	< 1.0	32.2	< 33.2	< 45.7	6,041.7	Vertical
+ 1575.00	< 1.0	38.8	< 39.8	< 97.7	5,000.0	Vertical
1890.00	< 1.0	17.4	< 18.4	< 8.3	6,041.7	Vertical
+ 2205.00	< 1.0	17.2	< 18.2	< 8.1	5,000.0	Vertical
2520.00	< 1.0	18.8	< 19.8	< 9.8	6,041.7	Vertical
+ 2835.00	< 1.0	19.7	< 20.7	< 10.8	5,000.0	Vertical
3150.00	< 1.0	20.6	< 21.6	< 12.0	6,041.7	Vertical

### Remarks:

Adjusted by Duty Cycle = -6.4dB

FCC Limit for Average Measurement =  $41.6667(315\text{MHz}) - 7083.3333 = 6,041.6772\mu\text{V/m}$   
+: Denotes restricted band of operation.  
Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 were not adjusted for averaging and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## STC Test Report

Date : 2008-09-09

Page 10 of 21

No. : HM161935

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

Frequency Range [MHz]	Quasi-Peak Limits [ $\mu\text{V/m}$ ]
30-88	100
88-216	150
216-960	200
Above 960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### **Results :**

<b>Radiated Emissions Quasi-Peak</b>						
Frequency MHz	Measured Level @3m $\text{dB}\mu\text{V}$	Correction Factor $\text{dB/m}$	Field Strength $\text{dB}\mu\text{V/m}$	Field Strength $\mu\text{V/m}$	Limit @3m $\mu\text{V/m}$	E-Field Polarity
<b>Emissions detected are more than 20 dB below the FCC Limits</b>						

### **Remarks:**

No further spurious emissions found between lowest internal frequency and 30MHz

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.2dB

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## **STC Test Report**

Date : 2008-09-09

Page 11 of 21

No. : HM161935

### **3.2 20dB Bandwidth of Fundamental Emission**

Test Requirement:	FCC 47 CFR 15.231a
Test Method:	ANSI C63.4:2003 (Section 13.1.7)
Test Date:	2007-08-12
Mode of Operation:	On mode

#### **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.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## STC Test Report

Date : 2008-09-09

Page 12 of 21

No. : HM161935

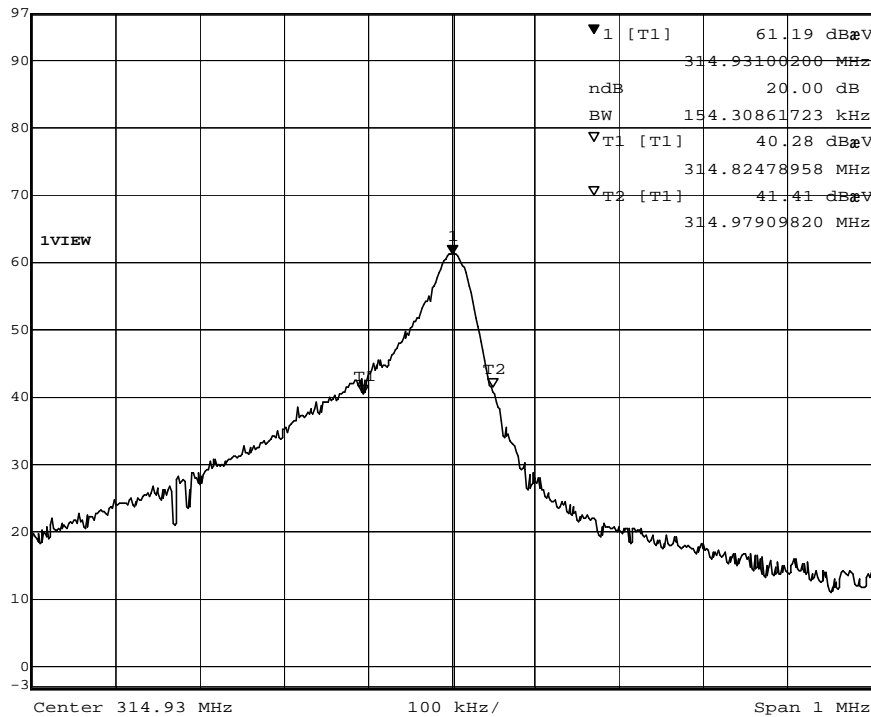
### Limits for 20 dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	20dB Bandwidth [KHz]	FCC Limits * [KHz]
314.9	134.31	787.75

\*: FCC Limit for Bandwidth measurement  
= (0.25%)(Center Frequency)  
= (0.0025)(314.9)  
= 787.75KHz

### 20dB Bandwidth of Fundamental Emission

Ref Lvl	Marker 1 [T1 ndB]	RBW	30 kHz	RF Att	0 dB
97 dBμV	ndB	VBW	30 kHz		
	BW	SWT	5 ms	Unit	dBμV



Date: 19.JUN.2008 16:21:00

### The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## **STC Test Report**

Date : 2008-09-09

Page 13 of 21

No. : HM161935

### **Appendix A**

#### **List of Measurement Equipment**

##### **Radiated Emission**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>	<b>DUE CAL</b>
EM020	HORN ANTENNA	EMCO	3115	4032	2006/07/11	2009/07/11
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3	--	2006/05/02	2009/05/02
EM174	BICONILOG ANTENNA	EMCO	3142C	00029071	2008/01/24	2009/01/24
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2008/06/16	2009/06/16
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2006/07/26	2009/07/26

##### **Line Conducted**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>	<b>DUE CAL</b>
EM197	LISN	EMCO	4825/2	1193	2007/10/30	2009/10/30
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2008/06/16	2009/06/16
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057-99A	2008/01/23	2009/01/23

#### **Remarks:-**

CM     Corrective Maintenance  
N/A    Not Applicable or Not Available  
TBD    To Be Determined

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## STC Test Report

Date : 2008-09-09

Page 14 of 21

No. : HM161935

### Appendix B

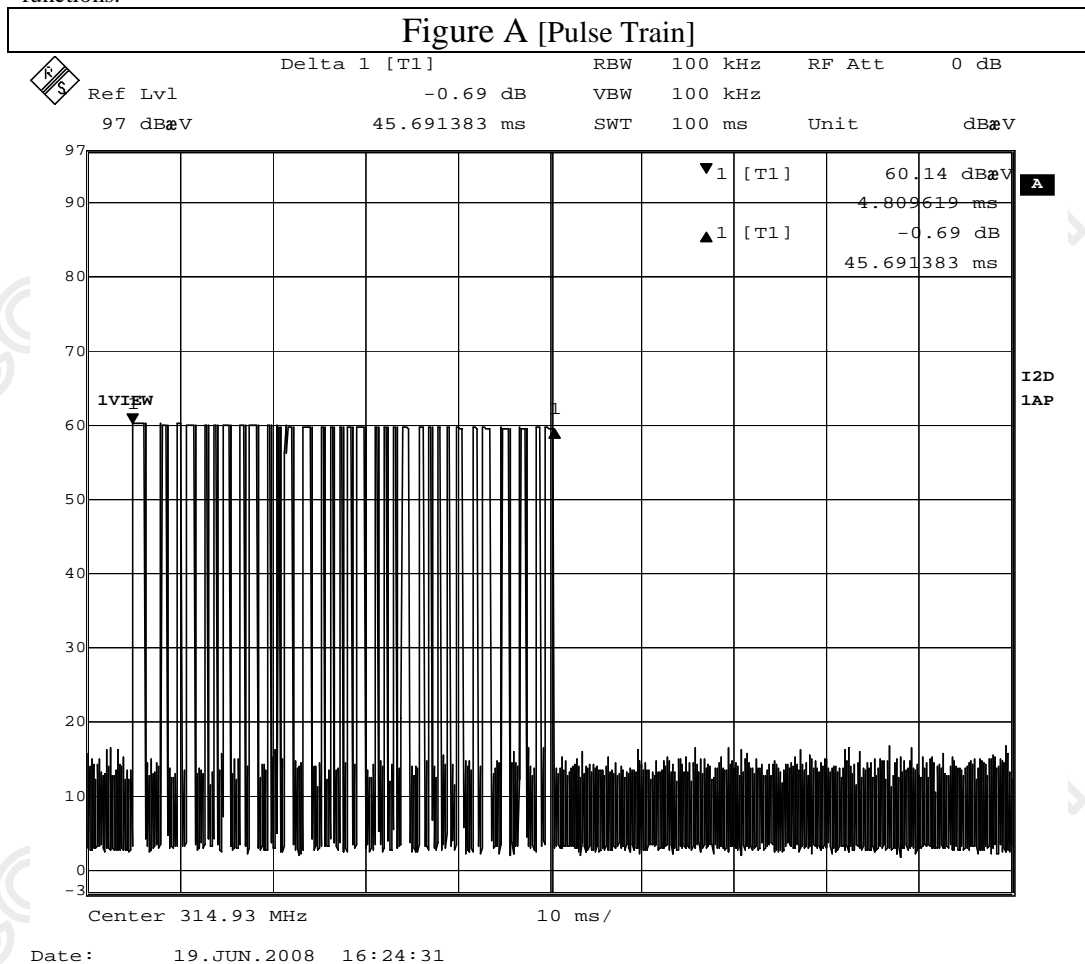
#### Duty Cycle Correction During 100msec

Each function key sends a different series of characters, but each packet period (45.3msec) never exceeds a series of 13 long (0.962msec) or 20 short (0.481msec) pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered  $(13 \times 0.962) + (20 \times 0.481) \text{ msec per } 45.3 \text{ msec} = 48.8\% \text{ duty cycle}$ . Figure A through D show the characteristics of the pulses train for one of these functions.

Remarks:

Duty Cycle Correction =  $20\text{Log}(0.488) = -6.4\text{dB}$

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



**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Tai Po Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



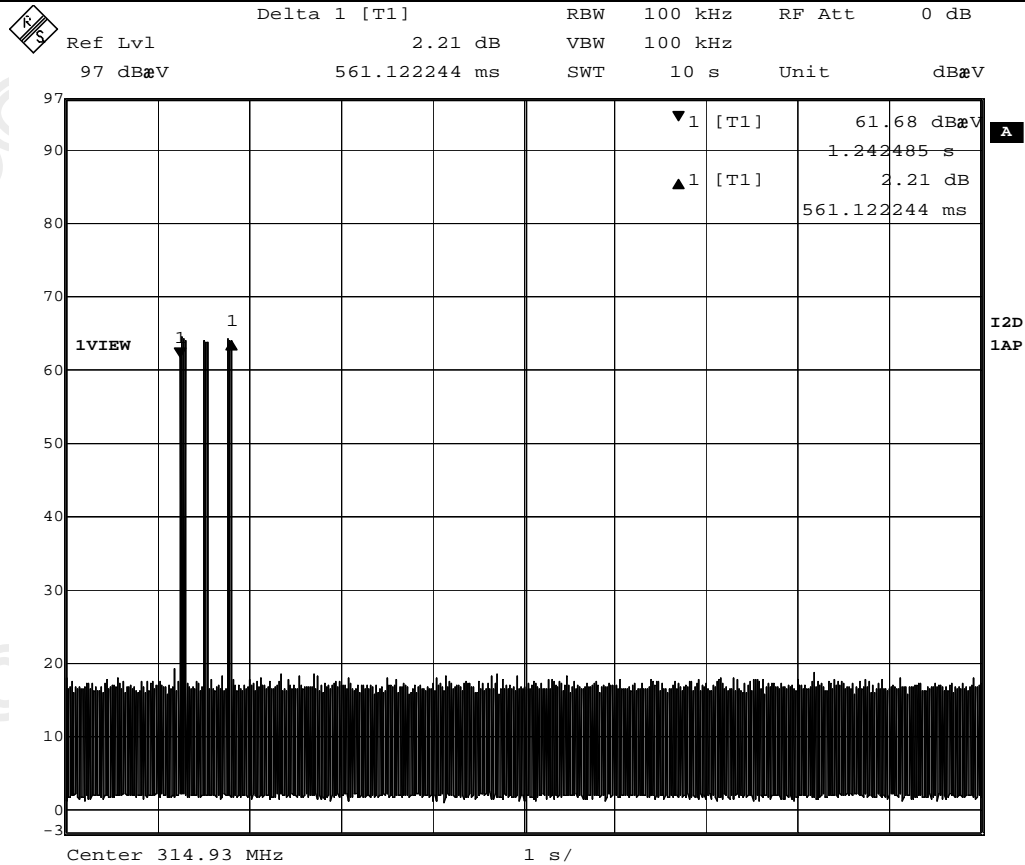
## STC Test Report

Date : 2008-09-09

Page 15 of 21

No. : HM161935

Figure B [Transmission after activation]



Date: 19.JUN.2008 16:30:16

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



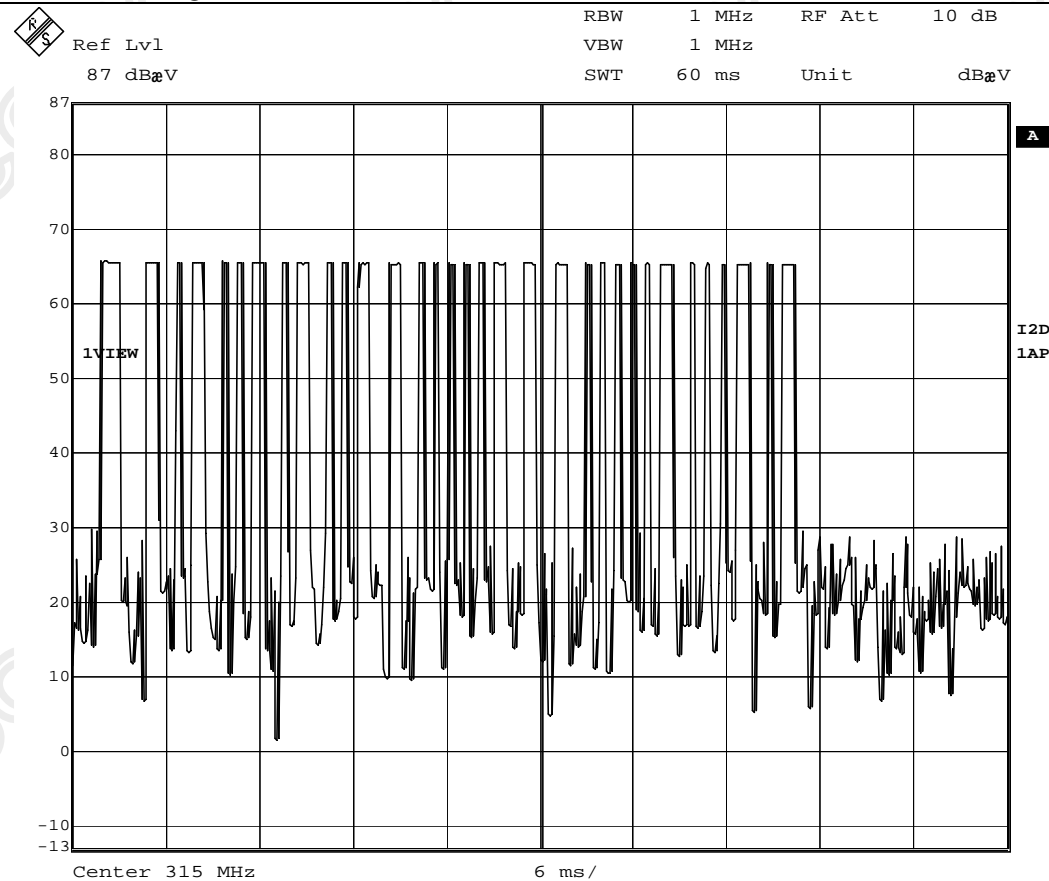
## STC Test Report

Date : 2008-09-09

Page 16 of 21

No. : HM161935

Figure C [13 long pulses and 20 short pulses within 45.69ms]



Date: 12.NOV.2008 10:35:18

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage





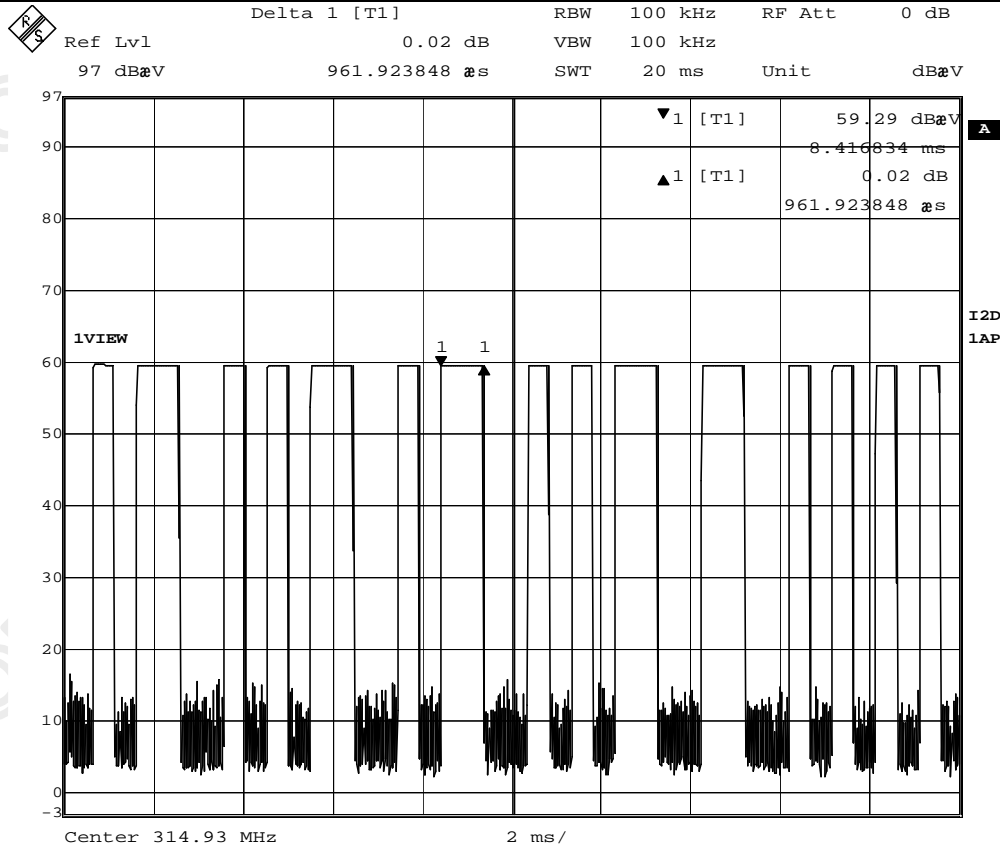
## STC Test Report

Date : 2008-09-09

Page 17 of 21

No. : HM161935

Figure D [Long Pulse]



Date: 19.JUN.2008 16:26:21

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



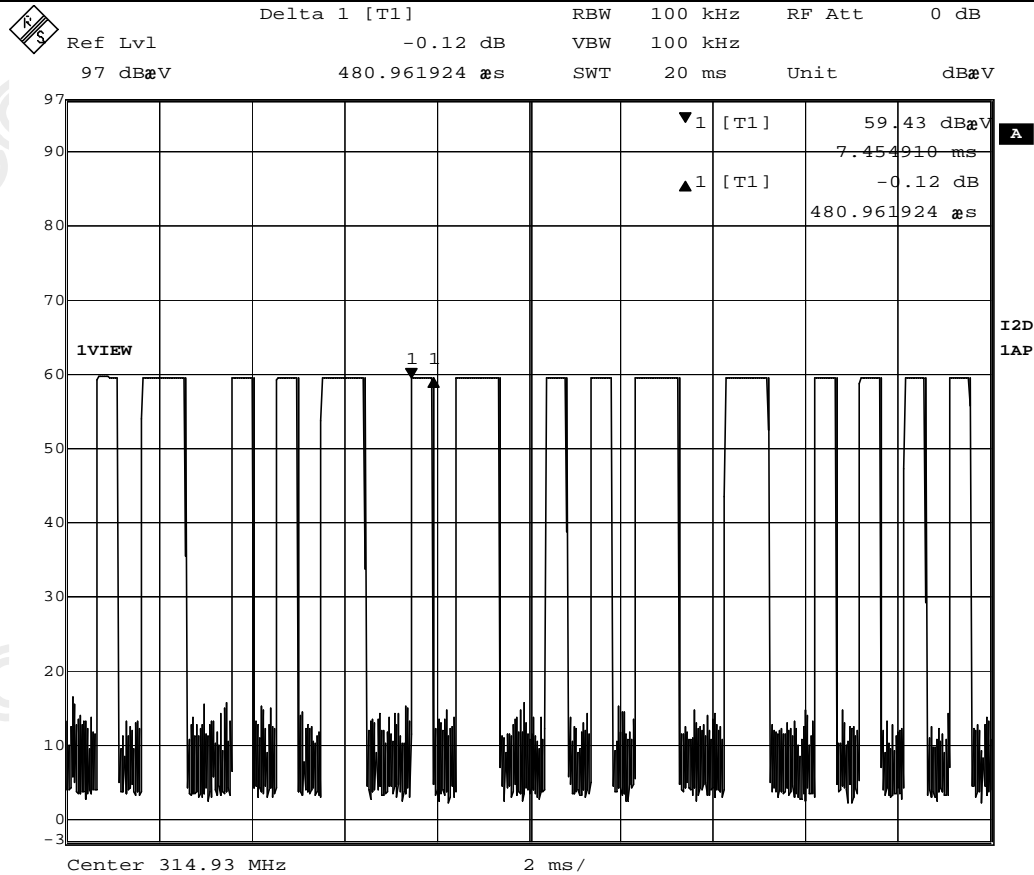
## STC Test Report

Date : 2008-09-09

Page 18 of 21

No. : HM161935

Figure E [Short Pulse]



Date: 19.JUN.2008 16:27:22

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Tai Po Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## **STC Test Report**

Date : 2008-09-09

Page 19 of 21

No. : HM161935

### **Appendix C**

#### **Periodic Operation [FCC 47CFR 15.231(a2)]**

According to FCC 47CFR15.231 (a2). A transmitter automatically activated must automatically deactivate within not more than 5 seconds of being released. The EUT ceases transmission almost immediately upon being released and appears to finish the current packet being transmitted. Therefore the longest period of time the transmitter should take to deactivate is a packet length.

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## **STC Test Report**

Date : 2008-09-09

Page 20 of 21

No. : HM161935

### **Appendix D**

#### **Photographs of EUT**

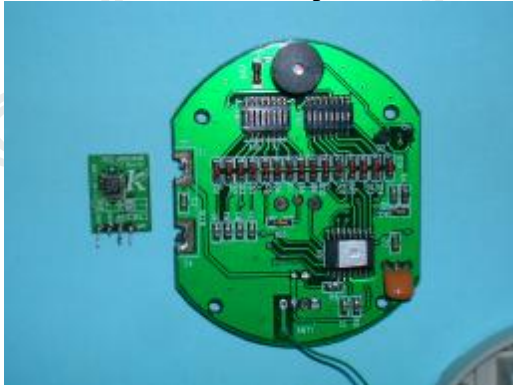
**Front View of the product**



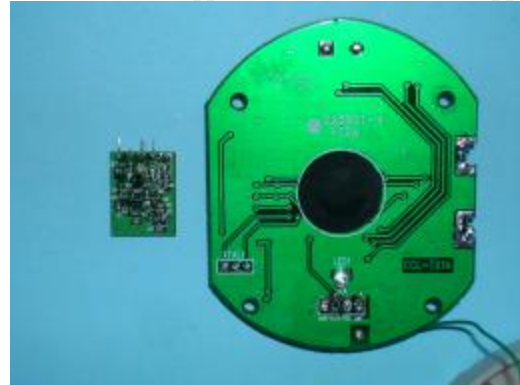
**Rear View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Taiipo Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage



## **STC Test Report**

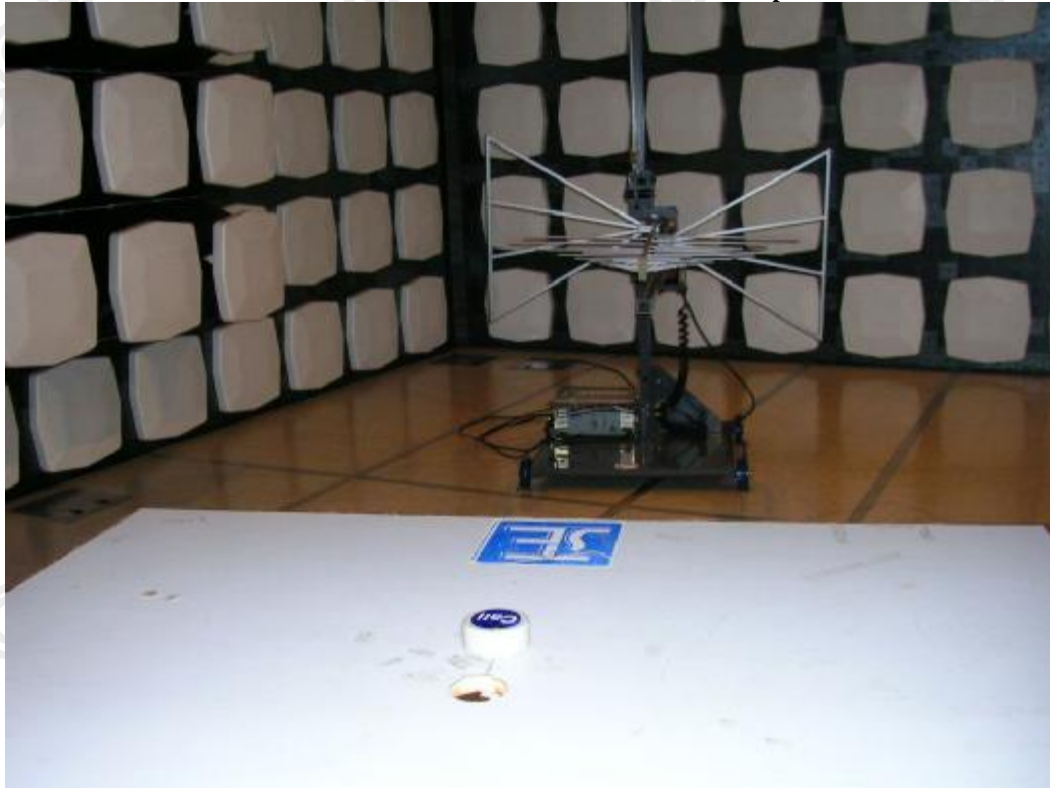
Date : 2008-09-09

Page 21 of 21

No. : HM161935

### **Photographs of EUT**

**Measurement of Radiated Emission Test Set Up**



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

**The Hong Kong Standards and Testing Centre Ltd.**

10 Dai Wang Street, Tai Po Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2664 4353 Homepage: [www.hkstc.org](http://www.hkstc.org) E-mail: [hkstc@hkstc.org](mailto:hkstc@hkstc.org)

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Ltd.  
For Conditions of Issuance of this test report, please refer to the overleaf or Homepage