



## **STC Test Report**

Date: 2015-09-08

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No. : DM120868

**Applicant:** Hong Kong China Electric Manufacture Co., Ltd.  
12/F Mongkok Harbour Centre, 638 Shanghai Street, Hong Kong

**Description of Sample(s):** Submitted sample(s) said to be  
Product: Fan Remoter  
Brand Name: N/A  
Model Number: RT01A  
FCC ID: ZJF-RT01A

**Date Sample(s) Received:** 2015-08-28

**Date Tested:** 2015-09-01 to 2015-09-06

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2014 and ANSI C63.4: 2009 for FCC Certification.

**Conclusion(s):** 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.

**Remark(s):** ---

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LONG Yun Jian, Along  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of  
STC (Dongguan) Company Limited

### **STC (Dongguan) Company Limited**

68 Fumin Nan Road, Dalang, Dongguan, China. (Zip Code : 523 770)

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### **1.0 General Details**

#### **1.1 Equipment Under Test [EUT] Description of Sample(s)**

Submitted sample(s) said to be

Product: Fan Remoter

Manufacturer: Zhongshan Kong Luen Wah Hoi Electrical  
Science and Technology Development Zone Ming Zhong Town  
Zhongshan, Guangdong, China

Brand Name: N/A

Model Number: RT01A

Rating: 12Vd.c. (Alkaline Battery 23A\*1)

#### **1.1.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a Fan Remoter of Hong Kong China Electric Appliance Manufacture Co., Ltd.. The EUT is a wireless remote control operating at 315.05MHz. Test was conducted under Tx mode.

#### **1.2 Date of Order**

2015-08-28

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

1 Sample

#### **1.4 Test Duration**

2015-09-01 to 2015-09-06

#### **1.5 Country of Origin**

China

#### **1.6 Antenna Details**

Antenna Type: Meader line antenna

Antenna Gain: 3dBi

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### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2014 and ANSI C63.4:2009 for FCC Certification.  
This is a manually operated transmitter, Press the button to start sending signals.

#### **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	N/A
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.231(a)	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20dB Bandwidth of Fundamental Emission	FCC 47CFR 15.231(c)	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Radiated Emissions**

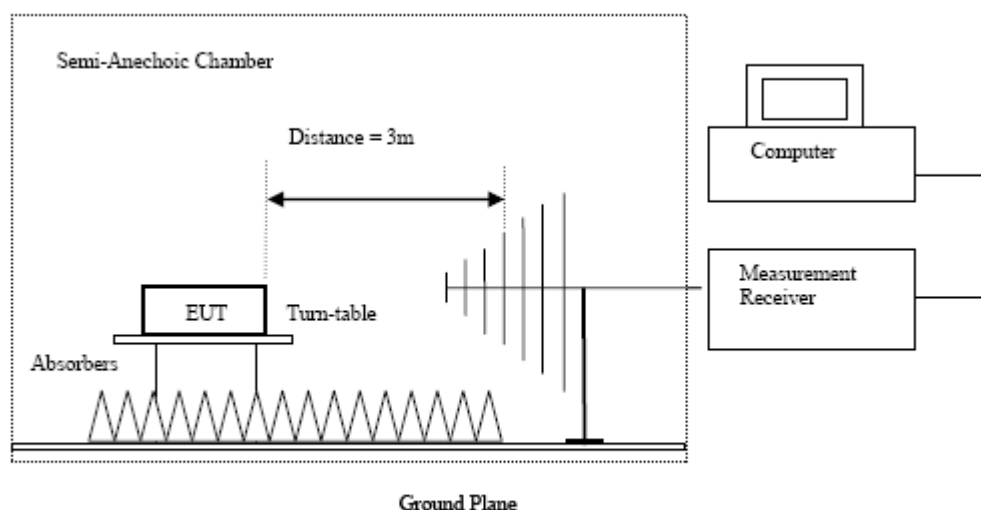
Test Requirement:	FCC 47CFR 15.231(a)
Test Method:	ANSI C63.4:2009
Test Date:	2015-09-01
Mode of Operation:	Tx mode

#### **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 STC (Dongguan) Company Ltd. 68 Fumin Nan Road, Dalang, Dongguan, Guangdong, PRC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 629686.

#### **Test Setup:**



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used.

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

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Average] [μV/m]	Field Strength of Spurious Emission [Average] [μV/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

<sup>1</sup>Linear interpolations.

The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

### Results of Tx mode: PASS

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
315.05	38.6	15.9	54.5	529.1	60,451.3	Vertical

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
630.10	20.8	22.1	42.9	139.5	6,045.1	Vertical
+ 1575.25	14.1	31.8	45.9	196.1	5,000.0	Vertical
1890.30	8.9	35.6	44.5	168.1	6,045.1	Vertical

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### Results of Tx mode: PASS

Field Strength of Fundamental Emissions						
Average Value						
Frequency	Measured Level @3m	Correction Factor	Field Strength	Field Strength	Limit @3m	E-Field Polarity
MHz	dBμV	dB/m	dBμV/m	μV/m	μV/m	
315.05	28.1	15.9	44.0	157.9	6,045.1	Vertical

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured Level @3m	Correction Factor	Field Strength	Field Strength	Limit @3m	E-Field Polarity
MHz	dBμV	dB/m	dBμV/m	μV/m	μV/m	
630.10	10.3	22.1	32.4	41.6	604.5	Vertical
+ 1575.25	3.6	31.8	35.4	58.5	500.0	Vertical
1890.30	-1.6	35.6	34.0	50.2	604.5	Vertical

### Remarks:

FCC Limit for Fundamental Average Measurement =  $41.67(315.05)-7083=6045.1\mu\text{V/m}$

+: 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.

\*: Adjusted by Duty Cycle = -10.5dB

Duty Cycle Correction = -20dB, if the calculation duty cycle correction > -20dB

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty (30MHz – 1GHz): 4.6dB

(1GHz – 18GHz): 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	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.

### Result of Tx mode (9kHz - 30MHz): PASS

Emissions detected are more than 20 dB below the limit line(s).

### Results of Tx mode (30MHz – 1GHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
30.6	Horizontal	32.5	40.0	42.2	100
863.3	Horizontal	42.7	46.0	136.5	200
31.5	Vertical	30.3	40.0	32.7	100
532.4	Vertical	37.1	46.0	71.6	200

### Results of Tx mode (Above 1GHz): PASS

Radiated Emissions Peak Value					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
1206.0	Horizontal	38.1	74.0	80.4	5012

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty: 9kHz - 30MHz): 3.3dB

(30MHz – 1GHz): 4.6dB

(1GHz – 18GHz): 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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

Test Requirement:	FCC 47 CFR 15.231(c)
Test Method:	ANSI C63.4:2009 (Section 13.1.7)
Test Date:	2015-09-09
Mode of Operation:	Tx 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.

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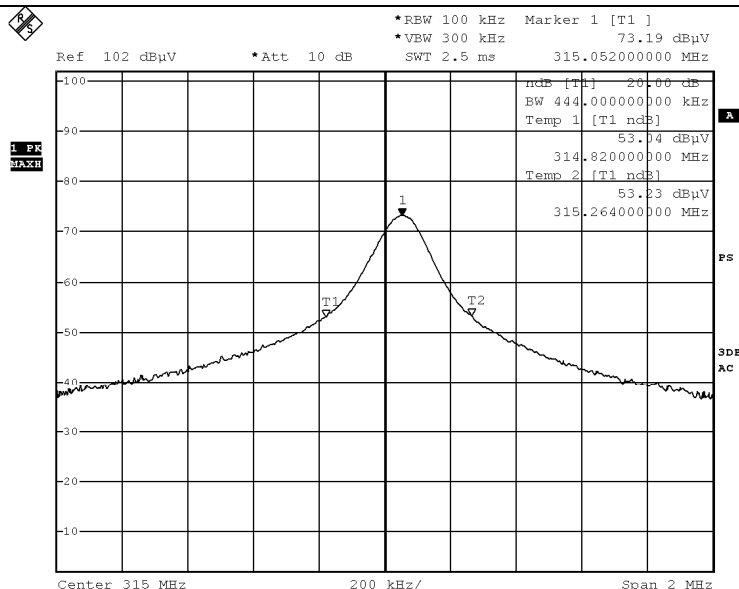
No. : DM120868

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

Frequency Range [MHz]	20dB Bandwidth [kHz]	FCC Limits * [kHz]
315.05	444.0	787.625

\*: FCC Limit for Bandwidth measurement  
= (0.25%)(Center Frequency)  
= (0.0025)(315.05)  
= 787.625kHz

### 20dB Bandwidth of Fundamental Emission



BMP

Date: 2.SEP.2015 18:23:08

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### **Appendix A**

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

<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>
EMD004	LISN	ROHDE & SCHWARZ	ESH3-Z5	100102	2015.3.24	2016.3.24
EMD022	EMI Test Receiver	ROHDE & SCHWARZ	ESCS30	100314	2015.3.24	2016.3.24
EMD035	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100441	2015.3.24	2016.3.24
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB 26	100388	2015.3.24	2016.3.24
EMD041	TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	100261	2015.3.24	2016.3.24
EMD061	Biconilog Antenna	ETS.LINDGREN	3142C	00060439	2014.11.29	2016.11.29
EMD062	Double-Ridged Waveguide (1GHz – 18GHz)	ETS.LINDGREN	3117	00075933	2014.11.15	2015.11.15
EMD084	MULTI-DVICE CONTROLLER	ETS.LINDGREN	2090	00060107	N/A	N/A
EMD088	Video Contol Unit	ETS.LINDGREN	Y21953A	2601073	N/A	N/A
EMD093	Monitor	ViewSonic	VA9036	Q8X064201876	N/A	N/A
EMD102	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707454	N/A	N/A
EMD103	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707455	N/A	N/A
EMD105	FACT-3 EMC Chamber	ETS.LINDGREN	FACT-3	3803	N/A	N/A
EMD106	Shielding Room #1	ETS.LINDGREN	RFD-100	3802	N/A	N/A
	100V Insertion Unit	ROHDE & SCHWARZ	URV5-Z4	100464	2015.3.24	2016.3.24
EMD113	Pre-Amplifier	ROHDE & SCHWARZ	N/A	1129588	2015.3.24	2016.3.24
EMD124	Loop Antenna	ETS-Lindgren	6502	00104905	2014.04.28	2016.04.28
EMD131	Standard Gain Horn Antenna (18GHz – 26.5GHz)	Chengdu AINFO Inc.	JXTXLB-42-15-C-KF	J2021100721001	2015.06.27	2017.06.27

#### **Remarks:-**

N/A Not Applicable

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### Appendix B

#### Duty Cycle Correction During 100msec

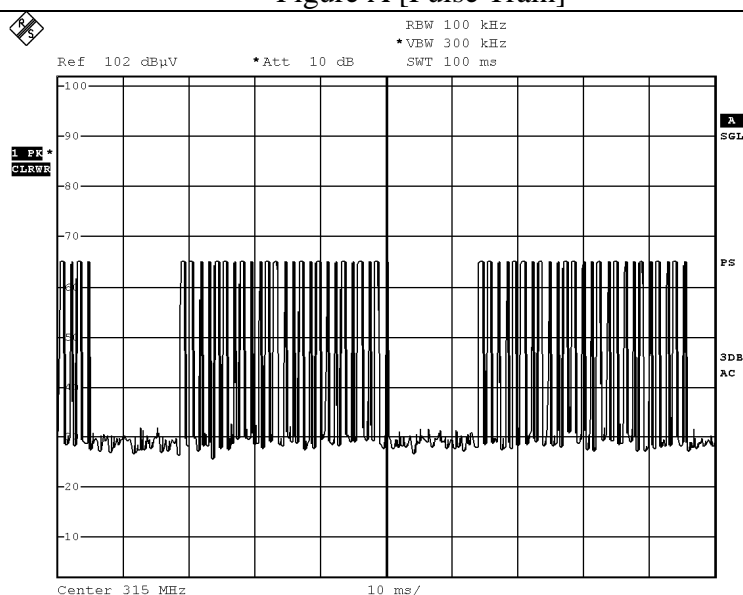
Each packet period (100msec) never exceeds a series of 26 (0.76msec) long and 28 (0.36msec) short pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered  $(0.76*26+0.36*28)$  msec per 100msec = 29.84% duty cycle. Figure A through D shows the characteristics of the pulses train for one of these functions.

Remarks:

Duty cycle factor =  $20\text{Log} [(0.76*26+0.36*28)/100] = -10.5\text{dB}$

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

Figure A [Pulse Train]



BMP

Date: 2.SEP.2015 19:06:10

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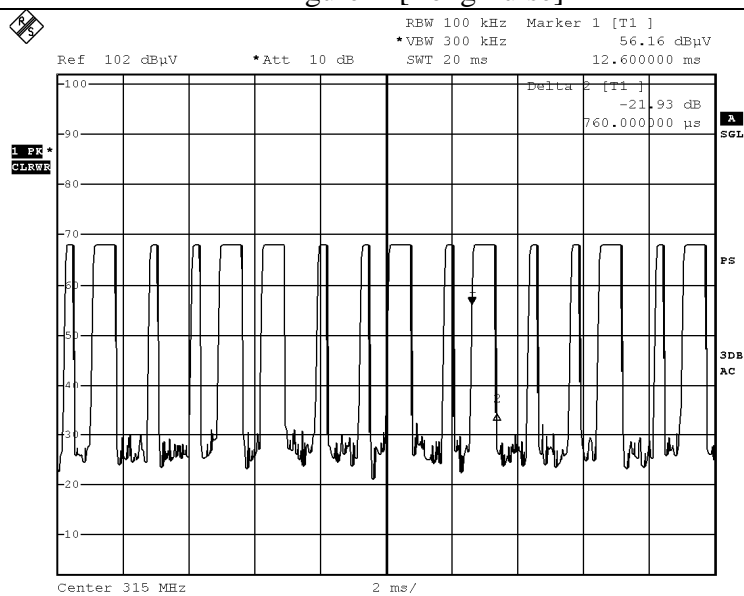
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Figure B [Long Pulse]



BMP

Date: 2.SEP.2015 18:55:15

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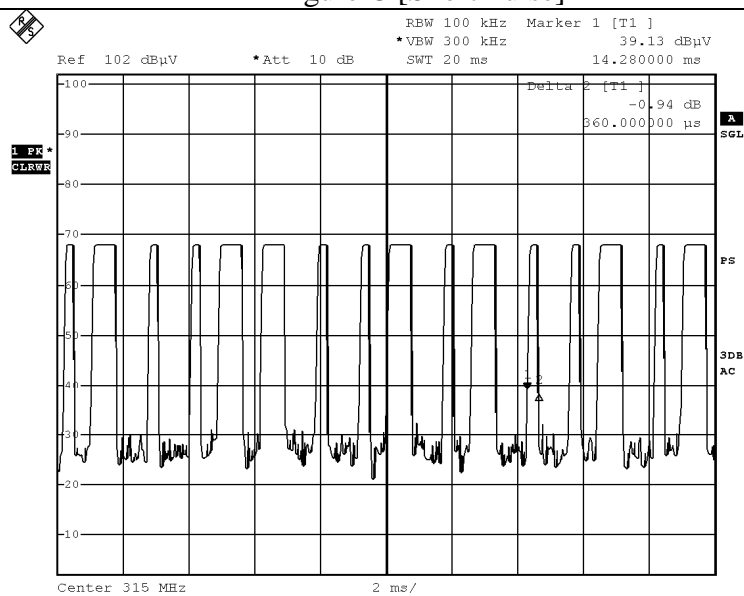
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Figure C [Short Pulse]



BMP

Date: 2.SEP.2015 18:55:50

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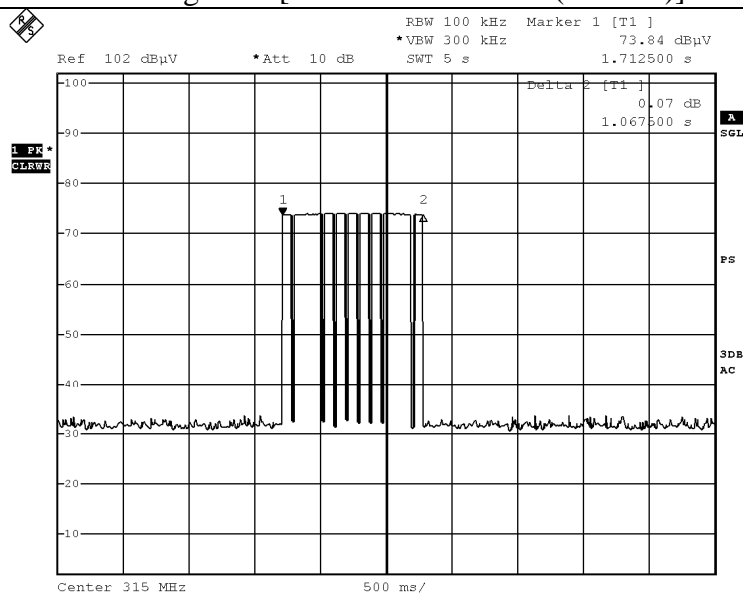
No. : DM120868

## Appendix C

**Manual Operated Transmitter Transmission Time [FCC 47CFR 15.231(a)]**

According to FCC 47CFR15.231 (a). A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter 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.

Figure D [Transmission Period(1.0675s)]



Date: 2.SEP.2015 18:27:45

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#### **Photographs of EUT**

**Front View of the product**



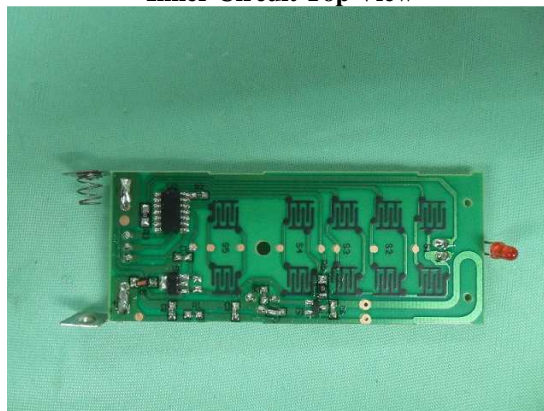
**Rear View of the product**



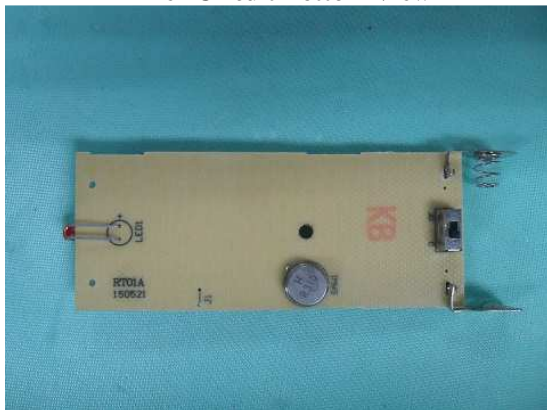
**Inside View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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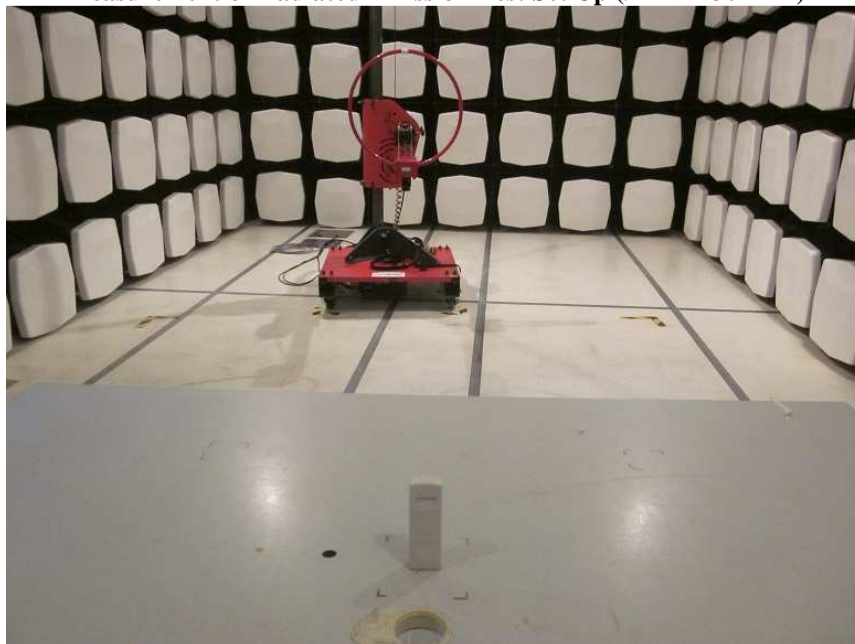
Date: 2015-09-08

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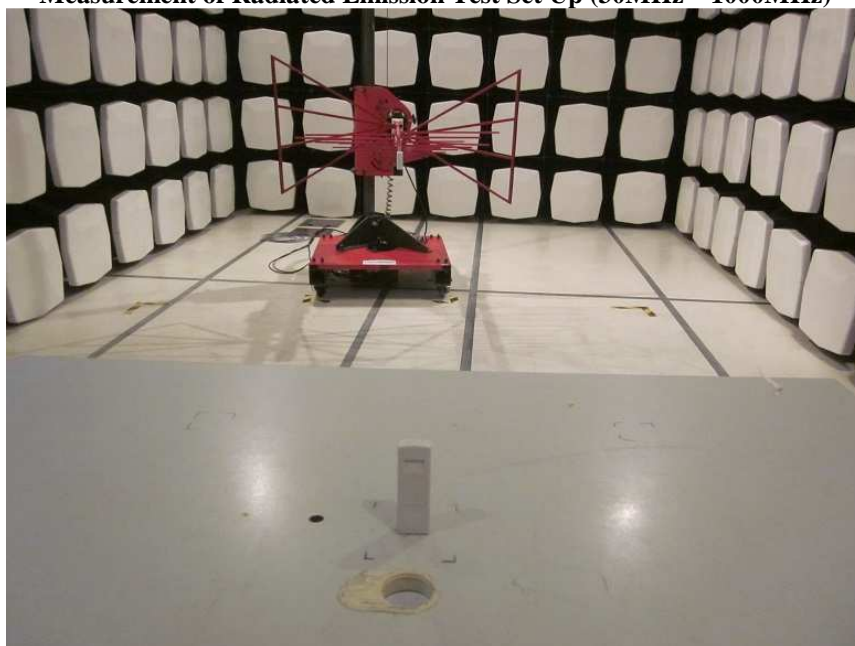
No. : DM120868

### **Photographs of EUT**

**Measurement of Radiated Emission Test Set Up (9kHz – 30MHz)**



**Measurement of Radiated Emission Test Set Up (30MHz – 1000MHz)**



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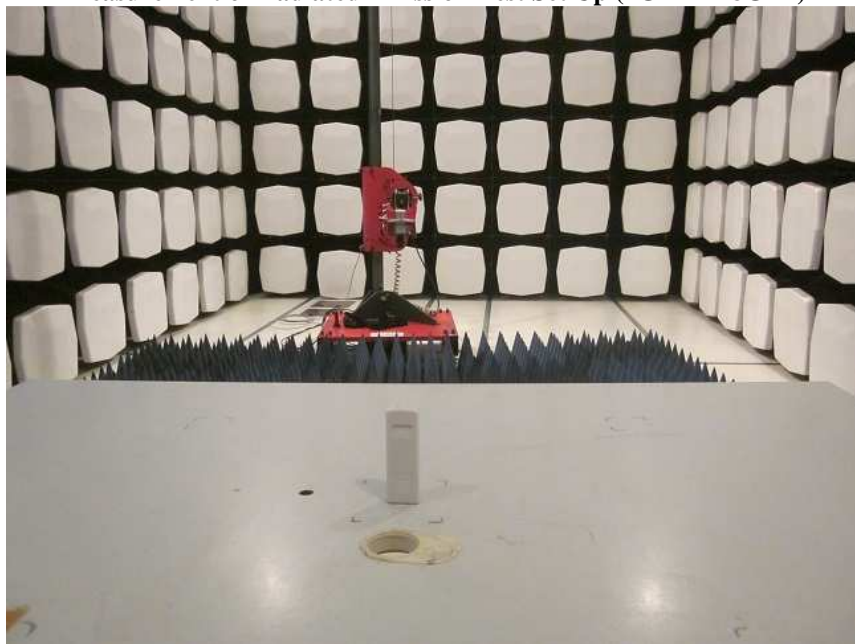
Date: 2015-09-08

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No. : DM120868

### **Photographs of EUT**

**Measurement of Radiated Emission Test Set Up (1GHz – 18GHz)**



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

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