



## STC Test Report

Date: 2014-02-25

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No. : HM168872

**Applicant (KMA001):** K-MARK INDUSTRIAL LIMITED.  
FLAT A, 7/F, MAI ON IND. BLDG., 17-21 KUNG YIP STREET, KWAI CHUNG, HONG KONG.

**Manufacturer:** K-MARK INDUSTRIAL LIMITED.  
FLAT A, 7/F, MAI ON IND. BLDG., 17-21 KUNG YIP STREET, KWAI CHUNG, HONG KONG.

**Description of Sample(s):** Submitted sample(s) said to be  
Product: Dog Silencer  
Brand Name: Good Life LLC  
Model Number: DS\_TX  
FCC ID: VEPGL-SILENCTX

**Date Sample(s) Received:** 2013-12-27, 2014-01-10, 2014-01-20

**Date Tested:** 2014-01-08 to 2014-02-24

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2013 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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Dr. LEE Kam Chuen  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

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### **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**

K-MARK INDUSTRIAL LIMITED.  
FLAT A, 7/F, MAI ON IND. BLDG., 17-21 KUNG YIP STREET, KWAI CHUNG, HONG  
KONG.

#### **Manufacturer**

K-MARK INDUSTRIAL LIMITED.  
FLAT A, 7/F, MAI ON IND. BLDG., 17-21 KUNG YIP STREET, KWAI CHUNG, HONG  
KONG.

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

Submitted sample(s) said to be

Product: Dog Silencer

Manufacturer: K-MARK INDUSTRIAL LIMITED.  
FLAT A, 7/F, MAI ON IND. BLDG., 17-21 KUNG YIP STREET,  
KWAI CHUNG, HONG KONG.

Brand Name: Good Life LLC

Model Number: DS\_TX

Rating: 12Vd.c. ("23A" size battery x 1)

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

The Equipment Under Test (EUT) is a K-MARK INDUSTRIAL LIMITED., Dog Silencer. The EUT is a 433MHz transmitter, when the buttons of EUT are pressed, a RF signal will be transmitted to Receiver.

#### **1.4 Date of Order**

2013-12-27, 2014-01-10, 2014-01-20

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

6 Samples

#### **1.6 Test Duration**

2014-01-08 to 2014-02-24

#### **1.7 Country of Origin**

Hong Kong

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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 2013 and ANSI C63.4:2009 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	N/A
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.231a	ANSI C63.4:2009	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions, 30MHz to 1GHz	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 (30 – 1000MHz)**

Test Requirement:	FCC 47CFR 15.231a
Test Method:	ANSI C63.4:2009
Test Date:	2014-02-24
Mode of Operation:	Tx on 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, 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.

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### **Spectrum Analyzer Setting:**

9KHz – 30MHz (Pk & Av)

RBW: 10kHz  
VBW: 30kHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

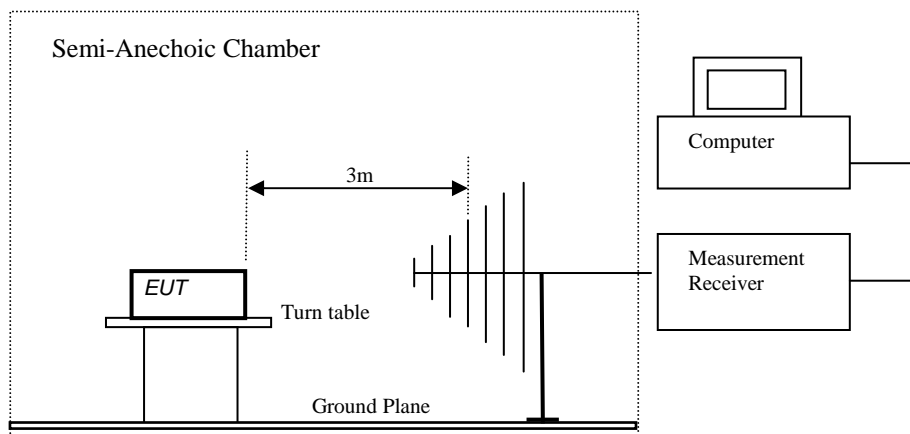
30MHz – 1GHz (QP)

RBW: 120kHz  
VBW: 120kHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

Above 1GHz (Pk & Av)

RBW: 3MHz  
VBW: 3MHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

### **Test Setup:**



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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] [ $\mu\text{V/m}$ ]	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 permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

### Results of Tx on mode: PASS

Field Strength of Fundamental Emissions						
Peak Value						
Frequency	Measured Level @ 3m	Correction Factor	Field Strength	Field Strength	Limit @ 3m	E-Field Polarity
MHz	$\text{dB}\mu\text{V/m}$	$\text{dB/m}$	$\text{dB}\mu\text{V/m}$	$\mu\text{V/m}$	$\mu\text{V/m}$	
434.06	54.5	18.9	73.4	4677.4	110,026.0	Vertical
868.19	28.9	26.3	55.2	575.4	11,002.6	Vertical
* 1300.60	30.2	29.8	60.0	1000.0	5,000.0	Horizontal
1737.47	23.5	32.6	56.1	638.3	11,002.6	Horizontal
2170.34	30.9	34.0	64.9	1757.9	11,002.6	Vertical
2607.21	21.7	34.5	56.2	645.7	11,002.6	Horizontal
3036.07	21.4	39.3	60.7	1083.9	11,002.6	Horizontal
3472.95	21.2	40.2	61.4	1174.9	11,002.6	Horizontal
* 3905.81	17.1	40.6	57.7	767.4	5,000.0	Horizontal
* 4342.69	17.8	41.9	59.7	966.1	5,000.0	Horizontal

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### Results of Tx on mode: PASS

Field Strength of Fundamental Emissions						
Average Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level @ 3m	Factor	Strength	Strength	@ 3m	Polarity
	dB $\mu$ V/m	dB/m	dB $\mu$ V/m	$\mu$ V/m	$\mu$ V/m	
434.06	39.7	18.9	58.6	851.1	11,002.6	Vertical
868.19	14.1	26.3	40.4	104.7	1,100.3	Vertical
* 1300.60	15.4	29.8	45.2	182.0	500.0	Horizontal
1737.47	8.7	32.6	41.3	116.1	1,100.3	Horizontal
2170.34	16.1	34.0	50.1	319.9	1,100.3	Vertical
2607.21	6.9	34.5	41.4	117.5	1,100.3	Horizontal
3036.07	6.6	39.3	45.9	197.2	1,100.3	Horizontal
3472.95	6.4	40.2	46.6	213.8	1,100.3	Horizontal
* 3905.81	2.3	40.6	42.9	139.6	500.0	Horizontal
* 4342.69	3.0	41.9	44.9	175.8	500.0	Horizontal

#### Remarks:

\*: Adjusted by Duty Cycle = -14.8dB

FCC Limit for Average Measurement =  $41.6667(434.062\text{MHz}) - 7083.3333 = 11,002.6\mu\text{V/m}$

+: 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 5.1dB

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

Frequency Range [MHz]	Field strength [microvolts/meter]	Measurement distance [meters]
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above960	500	3

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 of Tx on mode (9k – 30MHz): PASS**

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured Level	Correction Factor	Field Strength	Field Strength	Limit	E-Field Polarity
MHz	dB $\mu$ V	dB/m	dB $\mu$ V/m	$\mu$ V/m	$\mu$ V/m	
<b>Emissions detected are more than 20 dB below the FCC Limits</b>						

### **Results of Tx on mode (30MHz – 1000MHz): PASS**

Field Strength of Spurious Emissions						
Quasi-Peak Value						
Frequency	Measured Level	Correction Factor	Field Strength	Field Strength	Limit	E-Field Polarity
MHz	dB $\mu$ V	dB/m	dB $\mu$ V/m	$\mu$ V/m	$\mu$ V/m	
39.53	15.9	13.7	29.6	30.2	100.0	Horizontal
99.79	14.9	10	24.9	17.6	150.0	Horizontal
196.98	15.3	11.7	27.0	22.4	150.0	Horizontal
284.45	12.6	15	27.6	24.0	200.0	Horizontal
500.23	13.8	20.2	34.0	50.1	200.0	Horizontal
649.91	15.1	23.6	38.7	86.1	200.0	Horizontal

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### Results of Tx on mode (1000MHz): PASS

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured Level	Correction Factor	Field Strength	Field Strength	Limit	E-Field Polarity
MHz	dB $\mu$ V	dB/m	dB $\mu$ V/m	$\mu$ V/m	$\mu$ V/m	
<b>Emissions detected are more than 20 dB below the FCC Limits</b>						

### Results of Tx on mode (Above 1000MHz): PASS

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured Level	Correction Factor	Field Strength	Field Strength	Limit	E-Field Polarity
MHz	dB $\mu$ V	dB/m	dB $\mu$ V/m	$\mu$ V/m	$\mu$ V/m	
<b>Emissions detected are more than 20 dB below the FCC Limits</b>						

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 30MHz to 1GHz 5.1dB

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

Test Requirement:	FCC 47 CFR 15.231a
Test Method:	ANSI C63.4:2009 (Section 13.1.7)
Test Date:	2014-02-24
Mode of Operation:	Tx 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.

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### Appendix A

#### List of Measurement Equipment

##### Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM276	BROADBAND HORN ANTENNA	A-INFOMW	JTXLB-10180-SF	J2031090903007	2013/03/23	2016/03/23
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-LINDGREN	FACT-3	--	2013/10/02	2014/10/02
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	2013/04/25	2015/04/25
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2013/05/07	2014/05/07
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2013/09/14	2014/09/14

#### Remarks:-

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

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### **Appendix B**

#### **Duty Cycle Correction During 100msec [FCC 47CFR 15.231(a)]**

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 1 long (4.8msec), 5 Mid. (1.7msec) and 8 short (0.6msec) pulses. Assuming any combination of short and long pulses may be obtained due to encoding the worse case transmit duty cycle would be considered  $20\log[(4.8\text{msec}+5\times 1.7\text{msec}+8\times 0.6\text{msec})/100\text{msec}]=-14.8\text{dB}$  duty cycle. Figure A through C show the characteristics of the pulse train for one of these function.

Remarks:

Duty Cycle Correction =  $20\log[(4.8\text{msec}+5\times 1.7\text{msec}+8\times 0.6\text{msec})/100\text{msec}]=-14.8\text{dB}$

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

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

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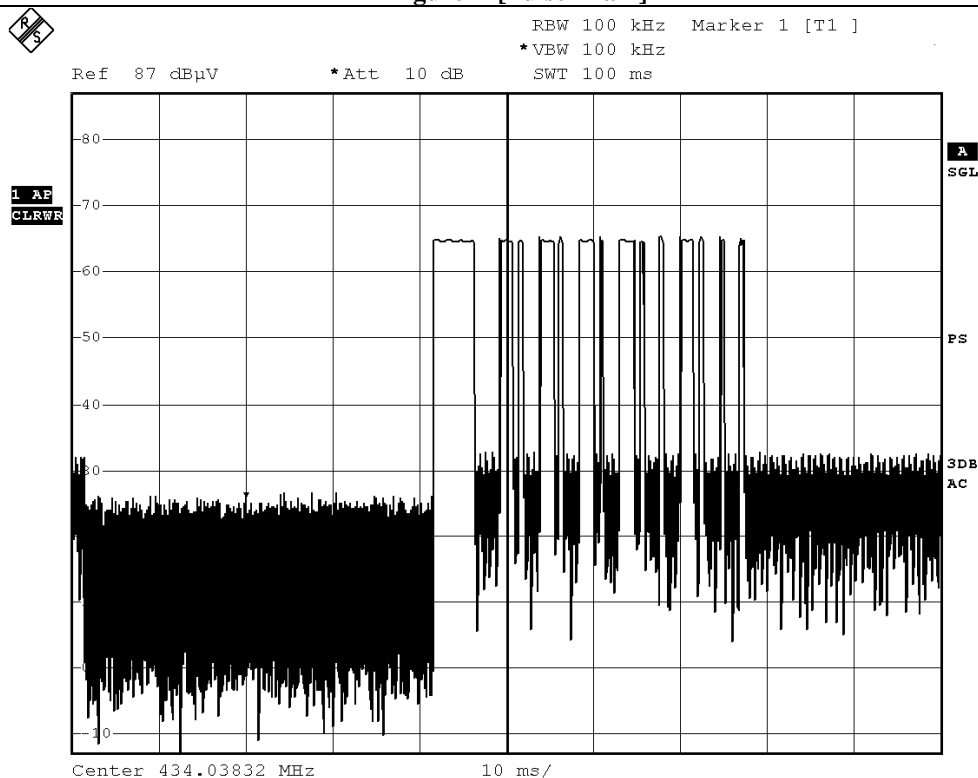
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Figure A [Pulse Train]



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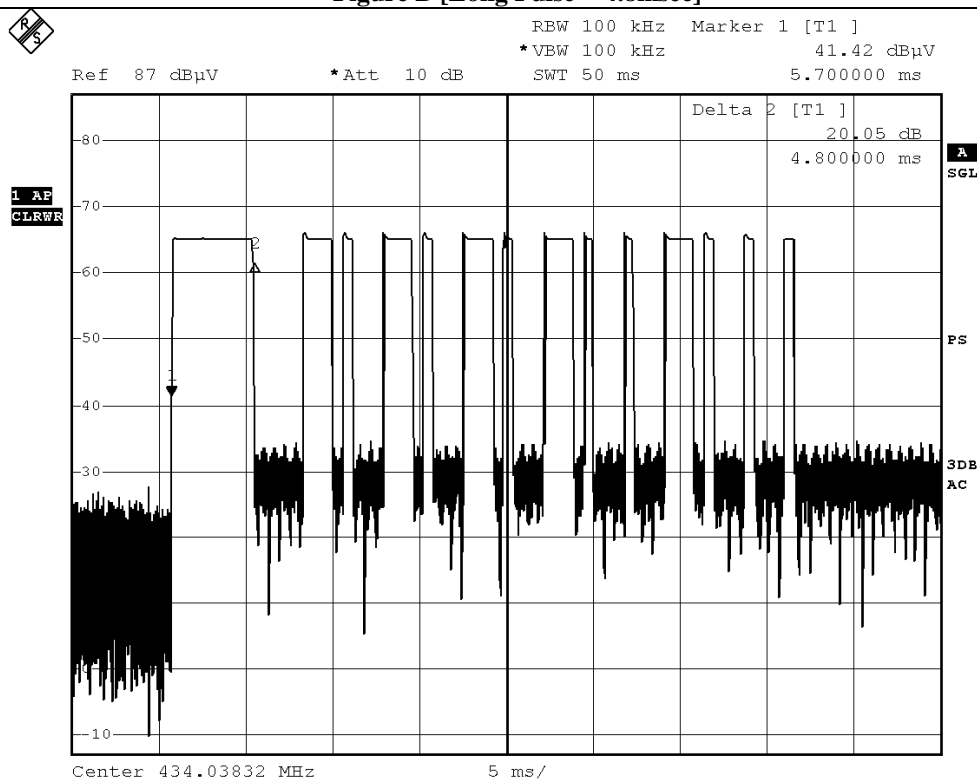
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**Figure B [Long Pulse = 4.8msec]**



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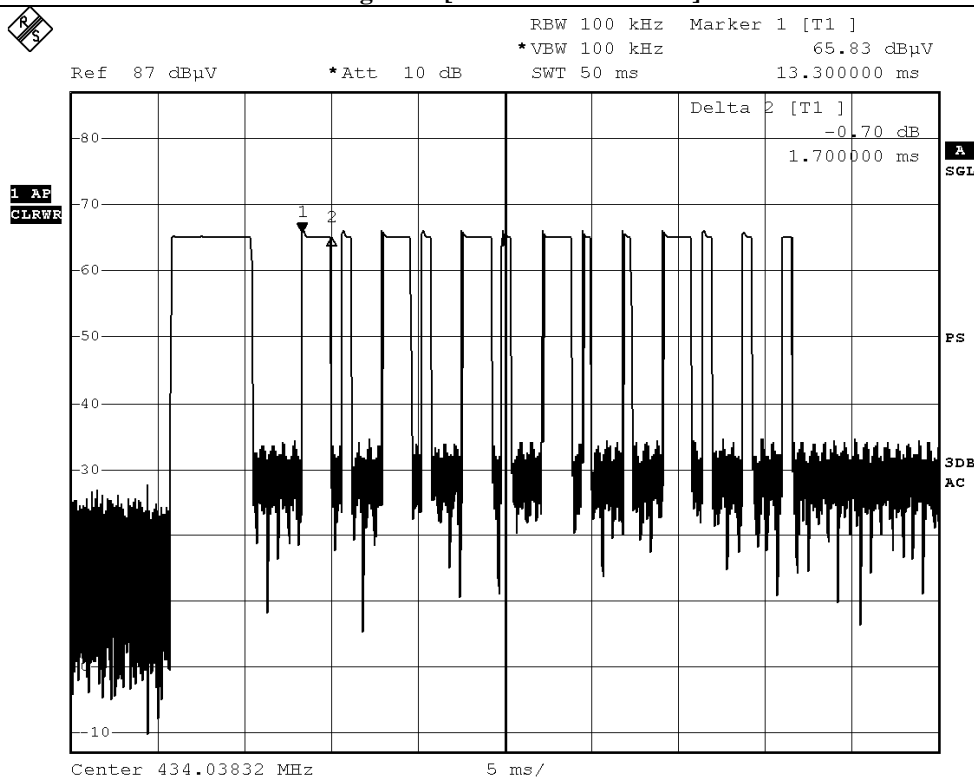
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Figure C [Mid. Pulse = 1.7msec]



Date: 22.FEB.2014 09:21:59

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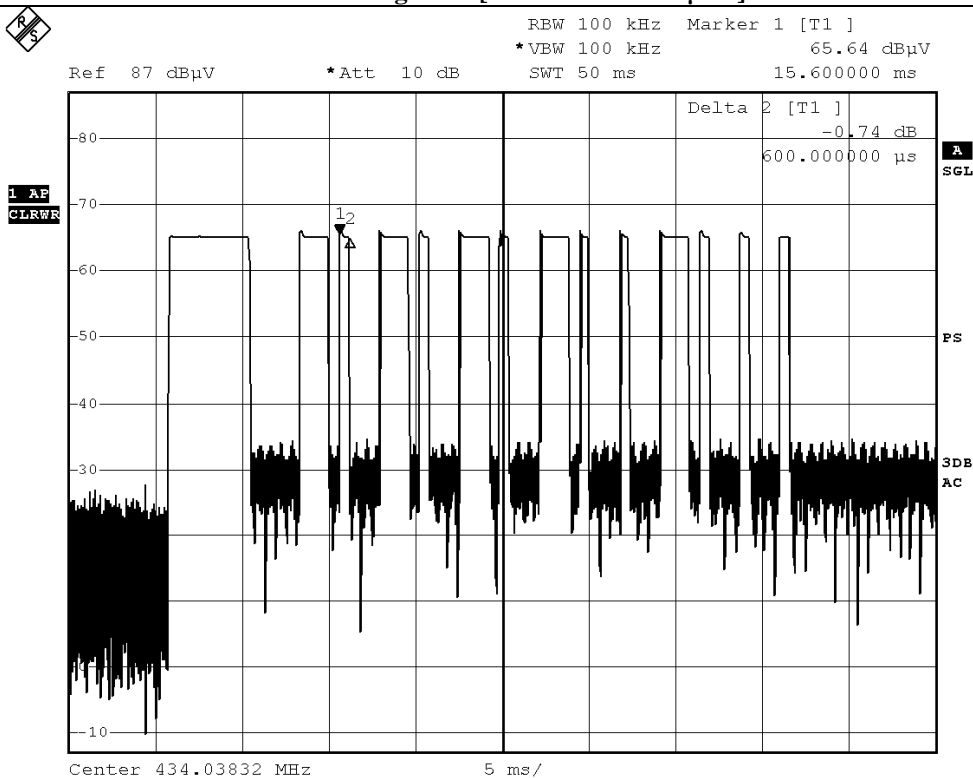
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**Figure D [Short Pulse = 600µsec]**



Date: 22.FEB.2014 09:22:16

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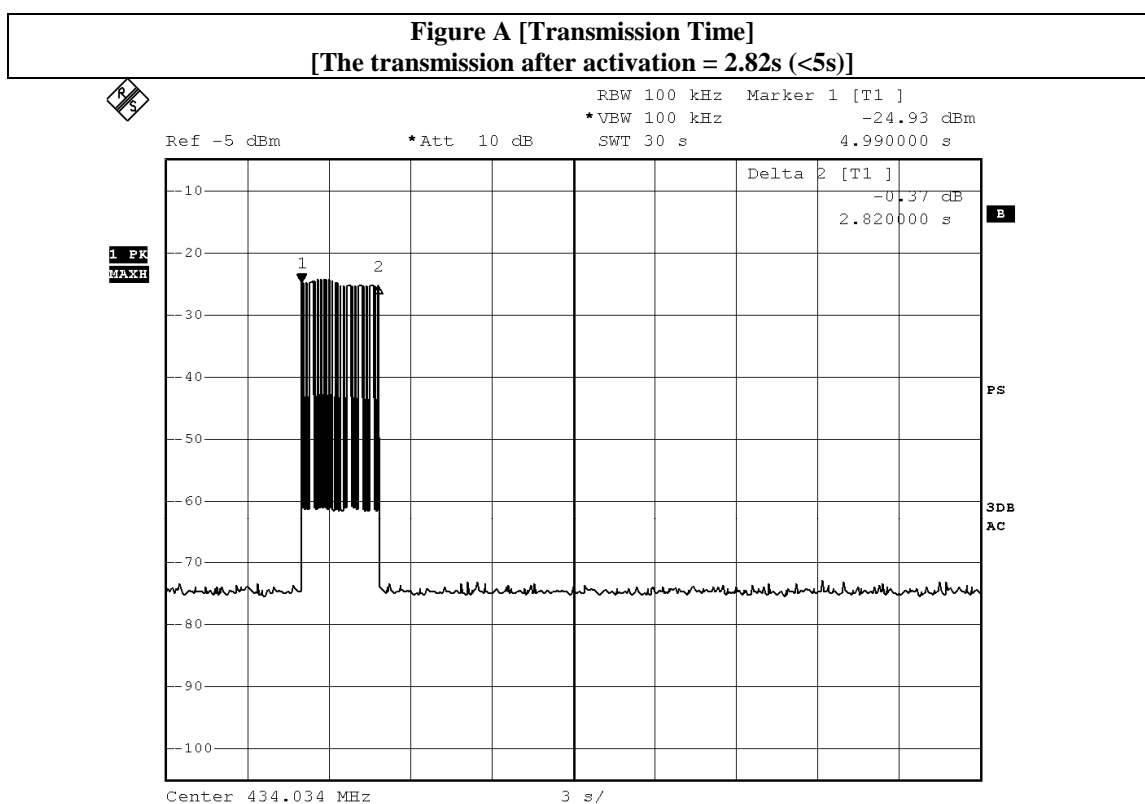
No. : HM168872

### Appendix C

#### Manual Operation [FCC 47CFR 15.231(a)]

The EUT will cease transmission within 3 seconds upon being released.

Figure A



Date: 25.FEB.2014 14:02:43

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Date: 2014-02-25

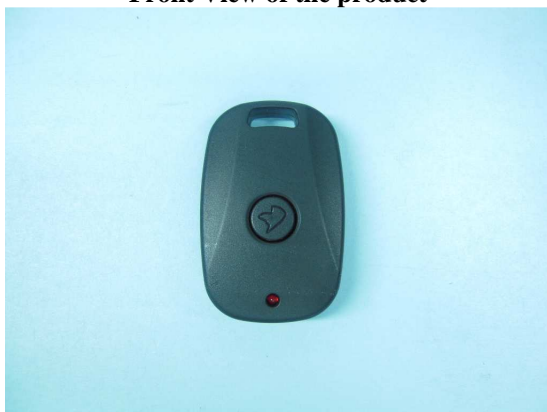
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### Appendix D

#### Photographs of EUT

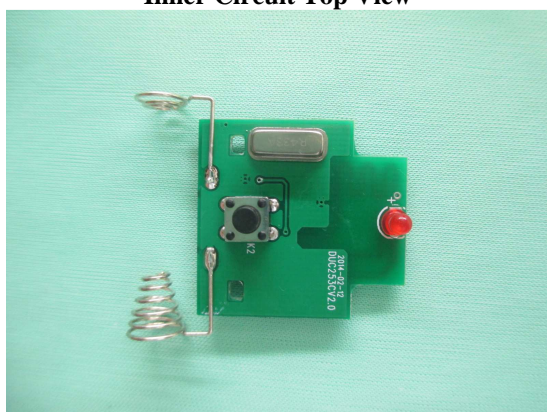
**Front View of the product**



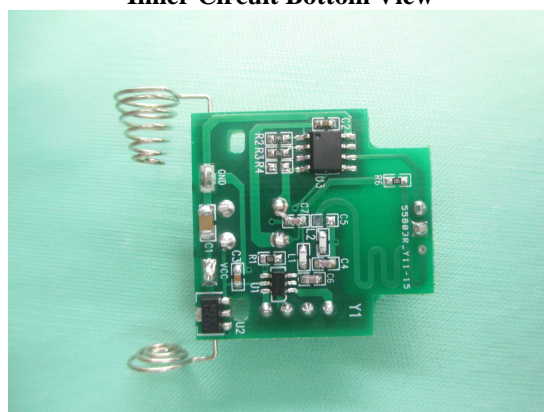
**Rear View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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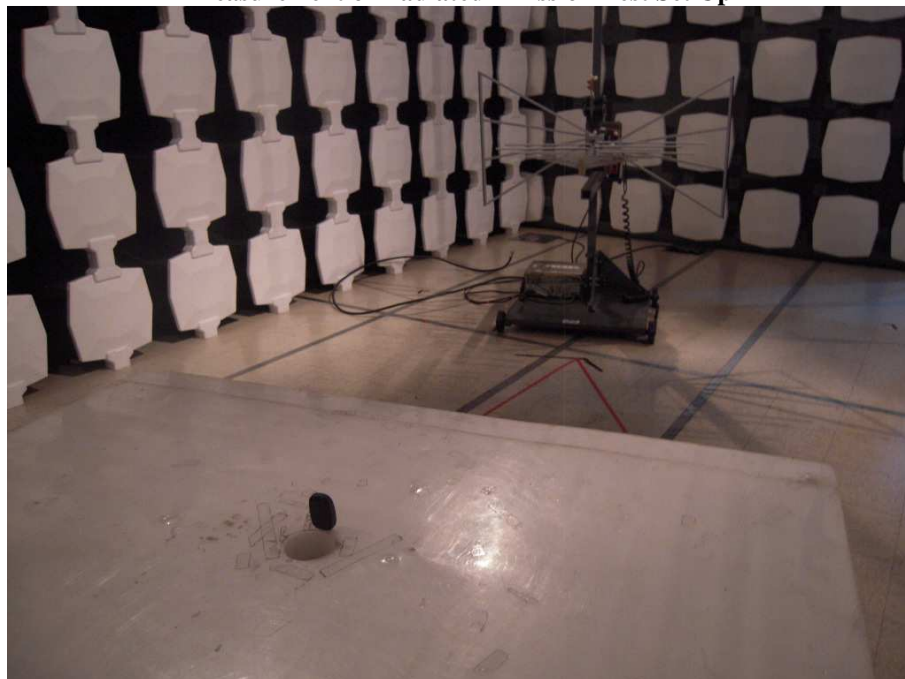
Date: 2014-02-25

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### **Photographs of EUT**

**Measurement of Radiated Emission Test Set Up**



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

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