





Report No: File reference No: ISO/IEC17025 Accredited Lab. FCC 0903014 2009-03-18

Applicant: Wireless Enivronment LLC

Product: RF Remote Switch

Model No: MB110

Trademark: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.231

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.231 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung Manager

Dated:

March 18,2009

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.:899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration No.: IC 5205A-01.

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1.0 General Details

1.1 Test Lab Details

Name :SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTDAddress:5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,
Shenzhen,CHINA.Telephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number: 899988For 3m & 10 m OATSSite Listed with Industry Canada of Ottawa, CanadaRegistration Number: IC: 5205A-01For 3m & 10 m OATS

1.2 Applicant Details

Applicant:	Wireless Environment LLC		
Address:	151 Innovation Drive, Elyria. Ohio 44035, United States		
Telephone:	877 298 9082		
Fax:	216 274 9666		

1.3 Description of EUT

r r	
Product:	RF Remote Switch
Brand Name:	Mr.Beams
Model Number:	MB110
Additional Model Name	N/A
Additional Trade Name	N/A
Rating:	6V DC input
Operation Frequency	433.92MHz
Antenna Designation	A permanent fixed antenna, designed as an indispensable part of the EUT.

1.4 Submitted Sample

1 Sample

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- 1.5 Test Duration 2009-03-03 to 2009-03-18
- 1.6 Test Uncertainty Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB
- 1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

2.0) Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date	
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2008-12-05	2009-12-04	
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2008-12-05	2009-12-04	
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2008-12-05	2009-12-04	
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2008-12-05	2009-12-04	
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2008-12-05	2009-12-04	
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2008-03-30	2009-03-29	
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2009-02-18	2010-02-17	
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2009-02-18	2010-02-17	
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2009-02-18	2010-02-17	
System Controller	СТ	SC100	-	2009-02-18	2010-02-17	
Printer	EPSON	PHOTO EX3	CFNH234850	2009-02-18	2010-02-17	
FM-AM Signal Generator	JUNG.JIN	SG-150M	389911177	2009-02-18	2010-02-17	
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2009-02-18	2010-02-17	

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Computer	IBM	8434	1S8434KCE99BLX LO*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2009-02-18	2010-02-17
Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2009-02-18	2010-02-17
CDN	EM TEST	CDN M2/M3	-	2009-02-18	2010-02-17
Attenuation	EM TEST	ATT6/75	-	2009-02-18	2010-02-17
Resistance	EM TEST	R100	-	2009-02-18	2010-02-17
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2009-02-18	2010-02-17
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2009-02-18	2010-02-17
Power Amplifier	AR	150W1000	300999	2009-02-18	2010-02-17
Field probe	Holaday	HI-6005	105152	2009-02-18	2010-02-17
Bilog Antenna	Chase	CBL6111C	2576	2009-02-18	2010-02-17
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2009-02-18	2010-02-17
3m OATS			N/A	2009-02-18	2010-02-17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2008-08-16	2009-08-15
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2008-07-03	2009-07-02

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3.0 **Technical Details**

3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted	N/A	N/A
	Emission Test		
ECC Deve 15, Development 15,200	General	DACC	Comuliar
FCC Part 15, Paragraph 15.209	Requirement	PASS	Compliant
	Radiated		
FCC Part 15, Paragraph 15.231 (b)	Emission Test	PASS	Compliant
FCC Part 15, Paragraph 15.231 (c)	20dB	PASS	Complian
	Bandwidth		
	Testing		
FCC Part 15, Paragraph 15.231 (a) (1)	Deactivate	PASS	Compliant
	Testing		

3.2 **Test Standards** FCC Part 15 Subpart C, Paragraph 15.231

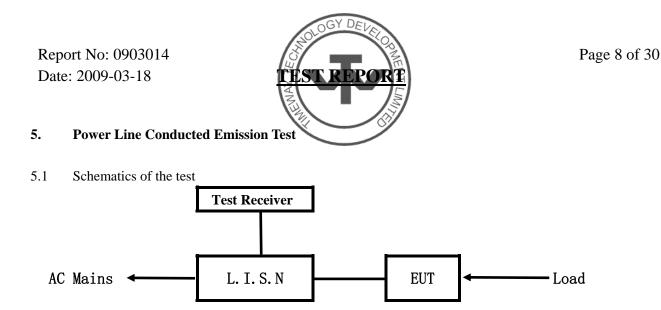
4.0 **EUT Modification**

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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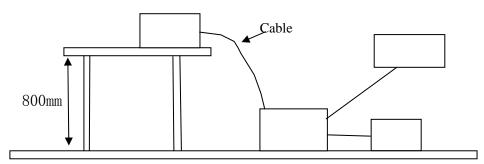


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
RF Remote 3P Sources Company Limited		MB110	W7DMB110
Switch			

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			
C. Peripherals			

Device Manufacturer Model FCC ID/DOC Cable N/A

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- 5.4 EUT Operating Condition Operating condition is according to ANSI C63.4 -2003.
- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Class A Limits (dB µ V)		Class B Limits (dB µ V)	
(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
$0.15~\sim~0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*
$0.50~\sim~5.00$	73.0	60.0	56.0	46.0
$5.00~\sim~30.00$	73.0	60.0	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: Owing to DC operation of EUT, this test item is not performed

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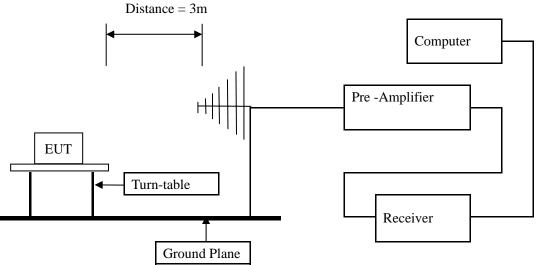
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6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.



Block diagram of Test setup

- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.231 Limit

Fundamental Frequency (MHz)	Field Strength of		Field Strength of Spurious	
	Fundamental		Emission	
	uV/m	dBuV/m	uV/m	dBuV/m
40.66-40.70	2250	67.04	225	47.04
70-130	1250	61.94	125	41.94
130-174	1250-3370	61.94-70.55	125-375	41.94-51.48
174-260	3750	71.48	375	51.48
260-470	3750-12500	71.48-81.94	375-1250	51.48-61.94
Above 470	12500	81.94	1250	61.94

Note: 1. RF Field Strength (dBuV) = $20 \log RF$ Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

4. Linear interpolations for frequency ranges 130-174MHz and 260-470MHz

5.the above field strength limits are specified at a distance of 3-meters and the tighter limits apply at the band edges

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

	_	
Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage $(dBuV) = 20 \log RF$ Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-4G, the final emission level got using PK detector. And Average =

peak(dBuV/m) - duty cycle(dB)

6. New batteries were installed in the equipment under test for radiated emission testing.

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6.5 **Test result**

Α **Fundamental and Harmonic Radiated Emission Data**

Product:	RF Remote Switch	Test Mode:	Keeping Tx transmitting
Test Item:	Fundamental Radiated Emission and Spurious Emission Data	Temperature:	25℃
Test Voltage:	6V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
433.92	88.68/75.68	Horizontal	100.82/80.82	-12.14/-5.14
433.92	79.28/66.28	Vertical	100.82/80.82	-21.54/-14.54
867.84	50.12 (PK)	Horizontal	80.82/60.82	-10.70
867.84	44.39 (PK)	Vertical	80.82/60.82	-16.43
1301.76	49.76 (PK)	Horizontal	80.82/60.82	-11.06
1301.76	42.16 (PK)	Vertical	80.82/60.82	-18.66
1735.68		Horizontal	80.82/60.82	
1735.68		Vertical	80.82/60.82	
2169.60		Horizontal	80.82/60.82	
2169.60		Vertical	80.82/60.82	
2603.52		Horizontal	80.82/60.82	
2603.52		Vertical	80.82/60.82	
3037.44		Horizontal	80.82/60.82	
3037.44		Vertical	80.82/60.82	
3471.36		Horizontal	80.82/60.82	
3471.36		Vertical	80.82/60.82	
3905.28		Horizontal	80.82/60.82	
3905.28		Vertical	80.82/60.82	
4339.2		Horizontal	80.82/60.82	
4339.2		Vertical	80.82/60.82	

Note: Average = peak(dBuV/m) – duty cycle(dB)

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adopt any other remedies which may be appropriate.

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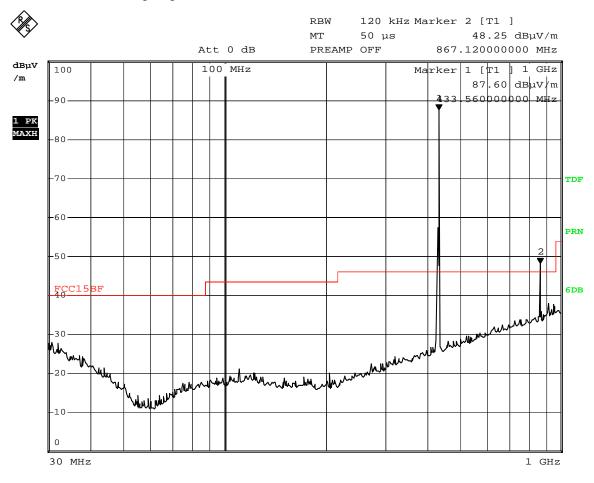
B. General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx Transmitting

Results: Pass

Please refer to following diagram for individual



Date: 13.MAR.2009 12:09:39

Frequency (MHz)	Level@3m (dB µ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
		Н	
		Н	

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B. General Radiated Emission Data and Harmonics Radiated Emission Data

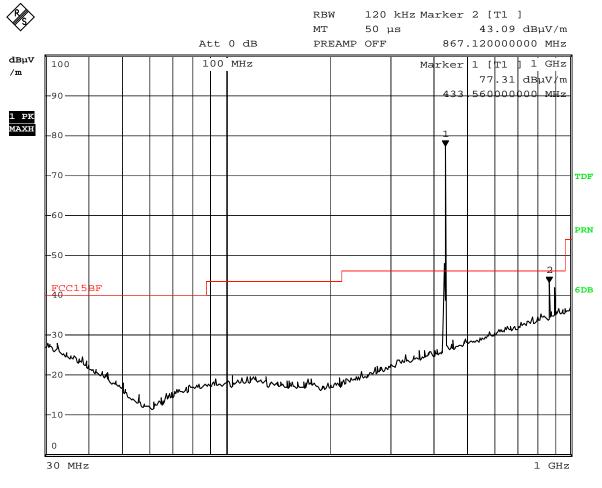
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx Transmitting

Results:

Pass

Please refer to following diagram for individual



Date: 13.MAR.2009 12:11:25

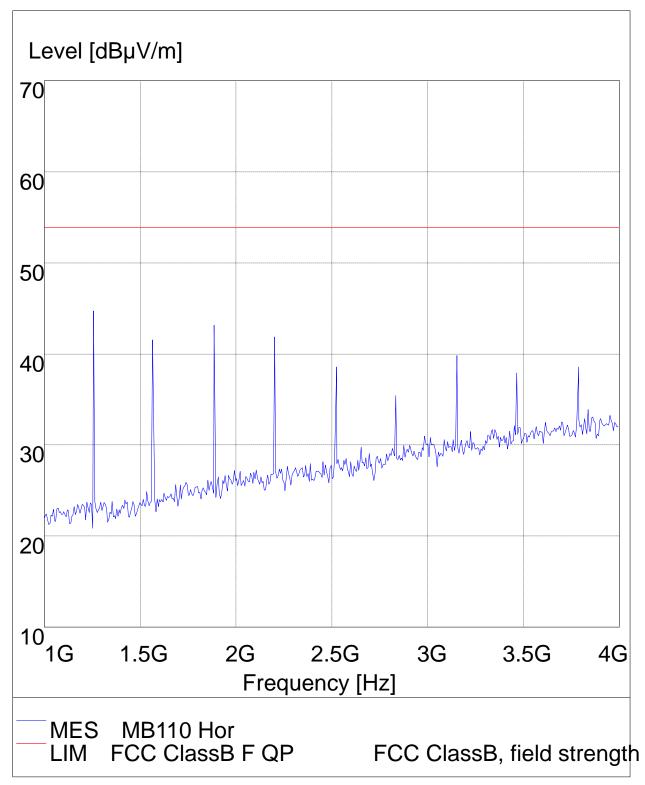
Frequency (MHz)	Level@3m (dB µ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
		V	

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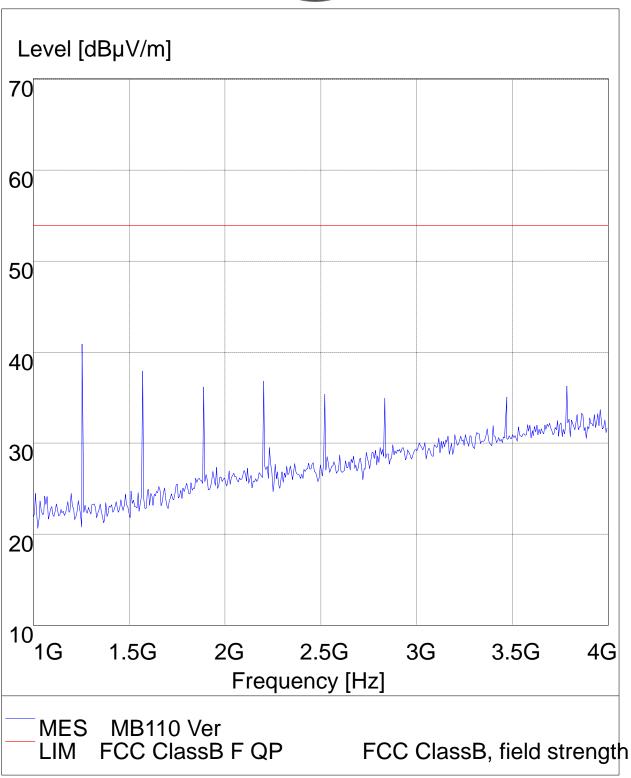
Test Plot above 1G



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7.0 20dB Bandwidth Testing

7.1 Requirement

Per 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

7.2 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

7.3 Test Data

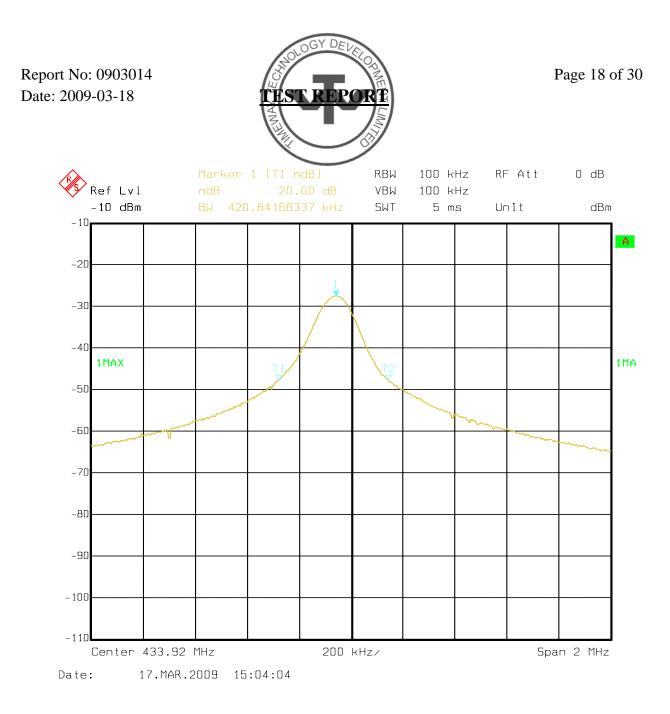
Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (MHz)	Result
433.92	420.84	1.08	Pass

Limit=Frequency x 0.25%=433.92 x 0.25%=1.08MHz

Refer to attached plots:

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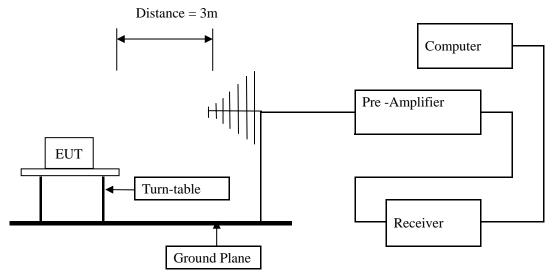


8.0 Deactivate Test

8.1 Requirement

Per 15.231(a) (1), a manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

8.2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing The deactivation test was performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.4 - 2003. The specification used was the FCC 15.231(a) limits.

8.3 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

8.4 Test Data

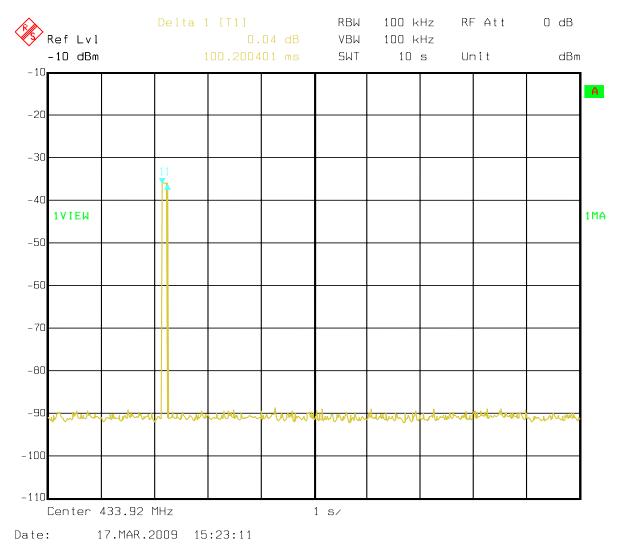
Refer to attached plots:

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9.0 Duty Cycle

9.1 Limit

Nil (No dedicated limit specified in the Rules).

9.2 Test Procedure

1. Place the EUT on the table and set it in transmitting mode.

2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

- 3. Set center frequency of spectrum analyzer=operating frequency.
- 4. Set the spectrum analyzer as RBW, VBW=100kHz, Span=0Hz, Adjust Sweep=70ms.
- 5. Repeat above procedures until all frequency measured were complete.

9.3 Test Data

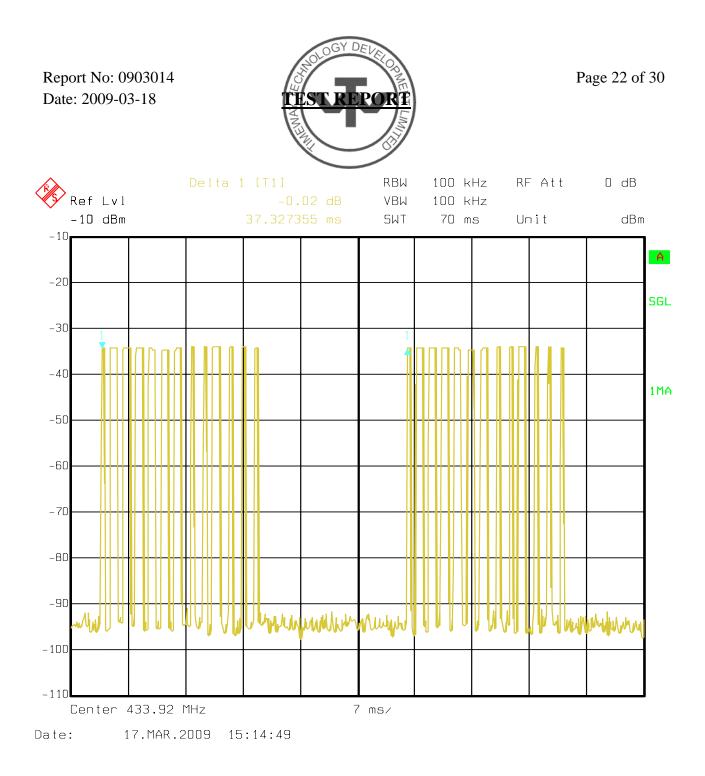
$$\begin{split} Tp &= 37.327 \text{ ms} \\ Ton_1 &= 0.373*6 = 2.238 \text{ (ms)} \\ Ton_2 &= 0.874*7 = 6.118 \text{ (ms)} \\ Ton &= Ton_1 + Ton_2 = 8.356 \\ Factor &= 20*\log (Ton / Tp) = 20*\log (8.356/37.327) = -13dB \end{split}$$

Refer to attached plots for details:

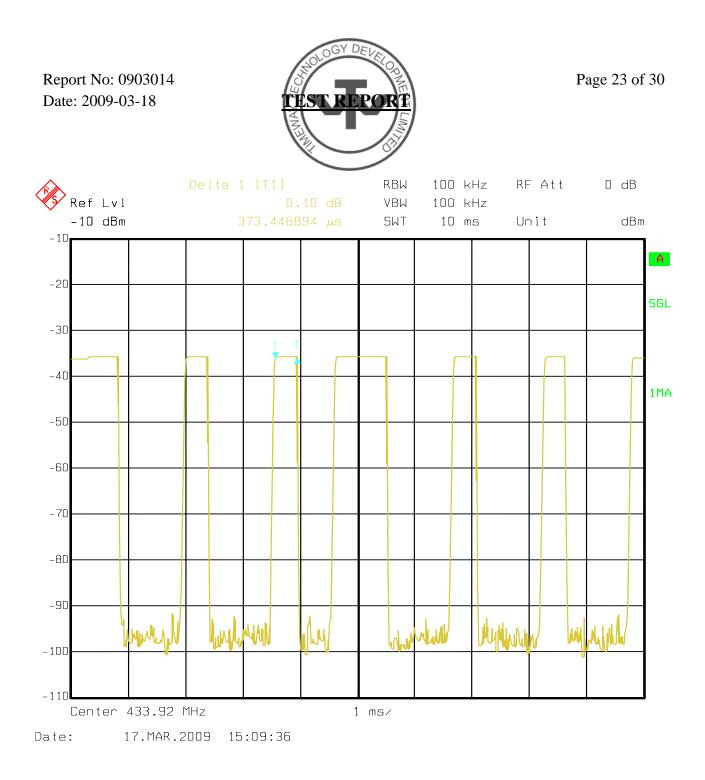
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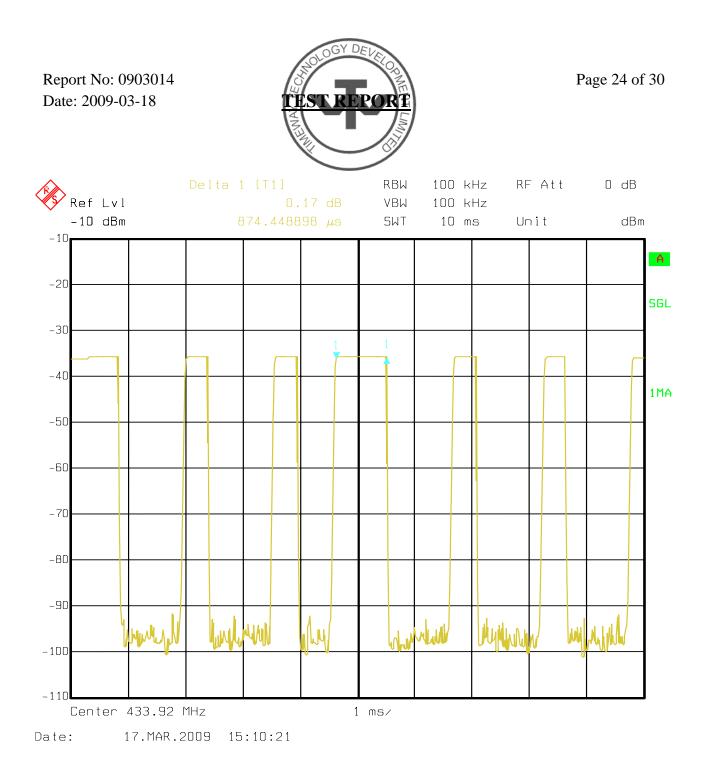
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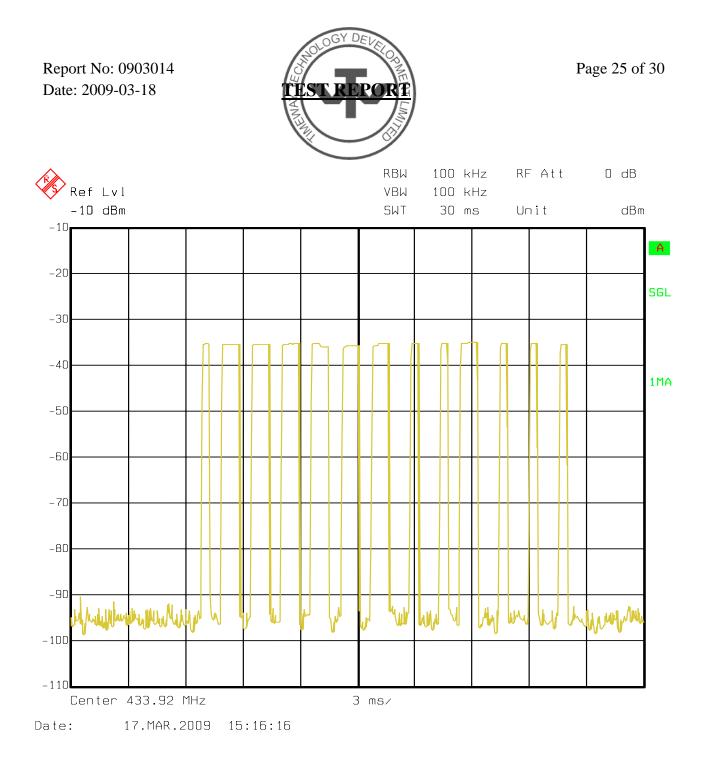
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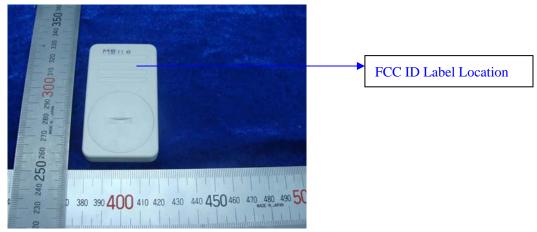
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FCC ID: W7DMB110

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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11.0. Photo of testing

- 11.1 Conducted test View-N/A
- 11.2 Radiated emission test view



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11.3 Photo for the EUT

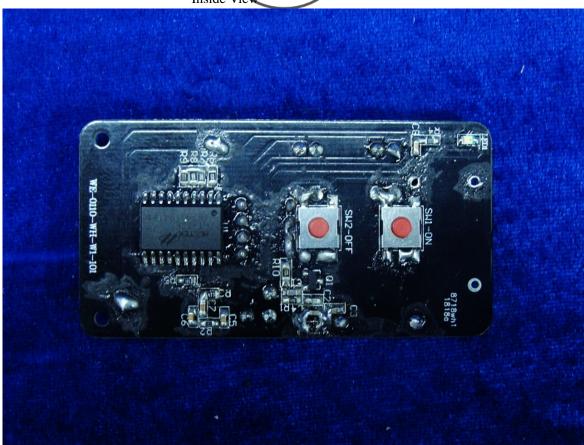


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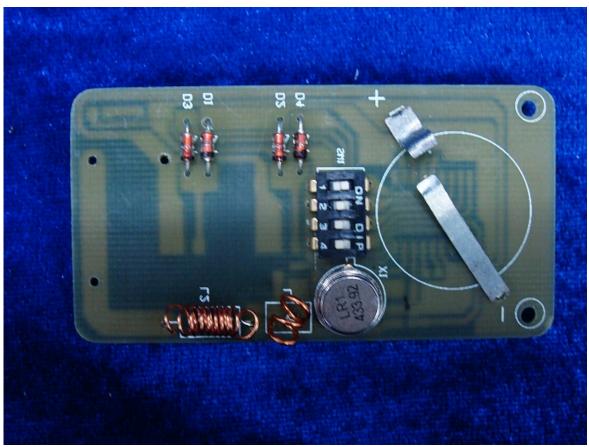


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End of the report

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