# APPLICATION CERTIFICATION

# On Behalf of Shenzhen San Fu Da Electronics Co., Ltd.

Wireless Thermometer Hygrometer Model No.: 608

FCC ID: VVG608TX

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# **Test Report Certification**

Applicant : Shenzhen San Fu Da Electronics Co., Ltd.Manufacturer : Shenzhen San Fu Da Electronics Co., Ltd.

EUT Description : Wireless Thermometer Hygrometer

(A) MODEL NO.: 608(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 12V

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.231: 2007 & ANSI 63.4: 2003

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.231 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test :	May 26-June 10, 2008				
Prepared by:	sky Long				
	(Engineer)				
Reviewer:	5eem =				
	(Quality Manager)				
Approved & Authorized Signer:	Martinh				
	(Manager)				

## 1. GENERAL INFORMATION

1.1.Description of Device (EUT)

**:** Wireless Thermometer Hygrometer

Model Number : 608

Memo : This device is a transmitter

Power Supply : DC 12V

Applicant : Shenzhen San Fu Da Electronics Co., Ltd.

Address : 6/F., Block B, Huali Industrial Building, District 28,

Baoan, Shenzhen, China

Manufacturer : Shenzhen San Fu Da Electronics Co., Ltd.

Address : 6/F., Block B, Huali Industrial Building, District 28,

Baoan, Shenzhen, China

Date of sample received: May 19, 2008

Date of Test : May 26-June 10, 2008

# 1.2.Description of Test Facility

EMC Lab : Listed by FCC

The Registration Number is 274801

Listed by Industry Canada

The Registration Number is IC4174

Accredited by China National Accreditation Committee

for Laboratories

The Certificate Registration Number is L0579

Name of Firm : Shenzhen Academy of Metrology& Quality Inspection

Site Location : Bldg. Metrology& Quality Inspection, Longzhu Road,

Nanshan, Shenzhen, Guangdong, P.R. China

## 1.3. Measurement Uncertainty

Conducted emission expanded uncertainty = 3.5 dB, k=2

Radiated emission expanded uncertainty = 4.5 dB, k=2

# 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment** 

Kind of equipment	Manufacturer	Туре	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.29.2009
EMI Test Receiver	Rohde&Schwarz	ESI26	838786/013	01.23.2009
Bilog Antenna	Schwarzbeck	VULB9163	9163-194	03.31.2009
Bilog Antenna	Chase	CBL6112B	2591	01.23.2009
Horn Antenna	Rohde&Schwarz	HF906	100013	01.23.2009
Spectrum Analyzer	Anritsu	MS2651B	6200238856	03.29.2009
Pre-Amplifier	Agilent	8447D	2944A10619	03.29.2009
L.I.S.N.	Rohde&Schwarz	ESH3-Z5	100305	03.29.2009
L.I.S.N.	Rohde&Schwarz	ESH3-Z5	100310	03.29.2009

# 3. SUMMARY OF TEST RESULTS

FCC Rules	<b>Description of Test</b>	Result
Section 15.207	Conducted Emission	Compliant
Section 15.231(e)	Radiated Emission	Compliant
Section 15.231(c)	20dB Bandwidth	Compliant
Section 15.231(e)	Release Time Silent period	Compliant

The product is a periodic operated weather station transmitter. Section 15.231 (a) and (b) are not applicable.

# 4. CONDUCTED EMISSION FOR FCC PART 15 SECTION

# 15.207(A)

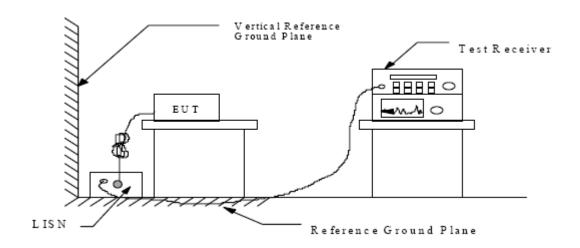
# 4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators



(EUT: Wireless Thermometer Hygrometer)

# 4.1.2. Shielding Room Test Setup Diagram



(EUT: Wireless Thermometer Hygrometer)

# 4.2. The Emission Limit For Section 15.207(a)

4.2.1 Radiation Emission Measurement Limits According to Section 15.207(a)

Frequency	Conducted Limit (dBμV)					
(MHz)	Quasi-peak	Average				
0.15 - 0.5	66 to 56*	56 to 46*				
0.5 - 5	56	46				
5 - 30	60	50				

<sup>\*</sup> Decreases with the logarithm of the frequency.

# 4.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.3.1. Wireless Thermometer Hygrometer (EUT)

Model Number : 608 Serial Number : N/A

Manufacturer : Shenzhen San Fu Da Electronics Co., Ltd.

# 4.4. Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in normal operated modes (TX) measure it.

#### 4.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

All the scanning waveforms are attached in Appendix I.

# 4.6. Power Line Conducted Emission Measurement Results

#### PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test:June 10, 2008Temperature:25°CEUT:Wireless Thermometer HygrometerHumidity:53%Model No.:608Power Supply:AC 120V/60HzTest Mode:TXTest Engineer:Joe

Test Line	Frequency MHz	Emission L QP	Emission Level(dBµV) QP AV		Limits(dBµV) QP AV		Margin(dBμV) QP AV	
Va	-	-	-	-	-	-	-	
Vb	-	-	-	-	-	-	-	

The spectral diagrams in appendix I display the measurement of un-weighted PK+AV values.

#### Note:

1. Remark "- " means that the emission level is too low to be measured.

# 5. THE FIELD STRENGTH OF RADIATION EMISSION

# 5.1.Block Diagram of Test Setup

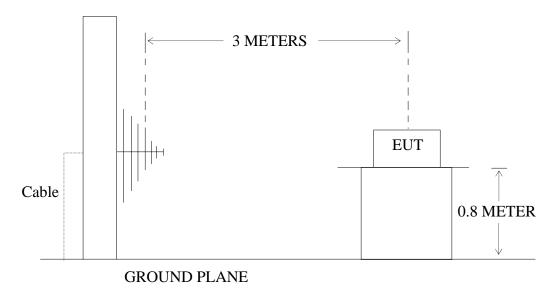
5.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Wireless Thermometer Hygrometer)

5.1.2. Anechoic Chamber Test Setup Diagram

# ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless Thermometer Hygrometer)

# 5.2. The Field Strength of Radiation Emission Measurement Limits

5.2.1 Radiation Emission Measurement Limits According to Section 15.231(e)

Frequency Range of Fundamental	Field Strength of Fundamental Emission [Average] [µV/m]	Field Strength of Spurious Emission [Average] [µV/m]		
[MHz] 40.66-40.70	1000	100		
70-130	500	50		
130-174	500 - 1500	50-150		
174-260	1500	150		
260-470	1500-5000	150-500		
Above 470	5000	500		

Where F is the frequency in MHz, The formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174MHz,  $\mu$ V/m at 3 meters=22.72727(F)-2454.545; For the band 260-470MHz,  $\mu$ V/m at 3 meters=16.6667(F)-2833.3333. The maximum permissible unwanted emission level is 20dB below the maximum permitted fundamental level.

5.2.2 Restricted Band Radiation Emission Measurement Limits According to FCC part 15 Section 15.205 and Section15.209.

# 5.3. Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1. Wireless Thermometer Hygrometer (EUT)

Model Number : 608 Serial Number : N/A

Manufacturer : Shenzhen San Fu Da Electronics Co., Ltd.

# 5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT and simulator as shown as Section 3.1.
- 5.4.2. Turn on the power of all equipment.
- 5.4.3. Let the EUT work in measuring modes (TX) measure it.

#### 5.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI 63.4 on radiated emission measurement.

The bandwidth of test receiver (R&S ESI26) is set at 120KHz in 30-1000MHz, and 1MHz in 1000-5000MHz.

The frequency range from 30MHz to 5000MHz is checked.

# 5.6. The Field Strength of Radiation Emission Measurement Results **PASS.**

The frequency range 30MHz to 5000MHz is investigated.

Date of Test:	May 26, 2008	Temperature:	26°C
EUT:	Wireless Thermometer Hygrometer	Humidity:	57%
Model No.:	608	Power Supply:	DC 12V
Test Mode:	TX	Test Engineer:	Andy

Frequency	Reading	Factor	Average	Result(dBµV/m)		Limit(dBµV/m)		Margin(dBμV/m)		Polarization
(MHz)	(dBµV/m)	Corr.	Factor		_					
	PEAK	(dB)	(dB)	AV	PEAK	AV	PEAK	AV	PEAK	
433.912	67.6	-16.1	-17.0	34.5	51.5	72.8	92.8	38.3	41.3	Horizontal
*1301.774	38.6	-7.2	-17.0	14.4	31.4	54	74	39.6	42.6	
433.912	65.1	-16.1	-17.0	32.0	49.0	72.8	92.8	40.8	43.8	
*135.503	52.8	-21.2	-17.0	14.6	31.6	43.5	63.5	28.9	31.9	Vertical
*1301.774	37.0	-7.2	-17.0	12.8	29.8	54	74	41.2	44.2	

The spectral diagrams in appendix 1 display the measurement of peak values with corrected factors counted

#### Note:

1. \*: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission Above 1000MHz and falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.

2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

3. FCC Limit for Average Measurement =  $16.6667(433.912)-2833.3333 = 4398.5478 \mu V/m = 72.8 dB \mu V/m$ 

.

# 6. 20DB OCCUPIED BANDWIDTH

# 6.1.Block Diagram of Test Setup

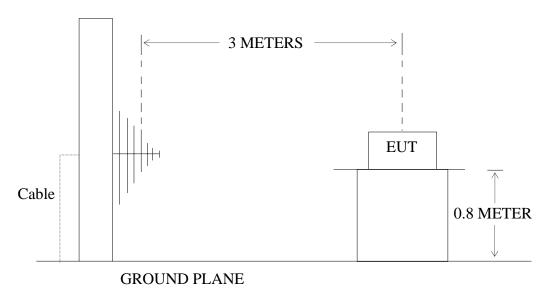
6.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Wireless Thermometer Hygrometer)

6.1.2. Anechoic Chamber Test Setup Diagram

# ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless Thermometer Hygrometer)

# 6.2. The Bandwidth of Emission Limit According To FCC Part 15 Section

15.231(c)

The bandwidth of emission shall be no wider than 0.25% of the center frequency. Therefore, the bandwidth of the emission limit is  $433\text{MHz} \times 0.25\% = 1082.5\text{KHz}$ . Bandwidth is determined at the two points 20 dB down from the top of modulated carrier.

# 6.3.EUT Configuration on Measurement

The following equipment are installed on the bandwidth of emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1. Wireless Thermometer Hygrometer (EUT)

Model Number : 608 Serial Number : N/A

Manufacturer : Shenzhen San Fu Da Electronics Co., Ltd.

# 6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT and simulator as shown as Section 4.1.
- 6.4.2. Turn on the power of all equipment.
- 6.4.3.Let the EUT work in measuring mode (TX) measure it.

## 6.5.Test Procedure

- 6.5.1. Set SPA Center Frequency = Fundamental frequency, RBW = 10kHz, VBW = 10kHz, Span = 300kHz.
- 6.5.2. Set SPA Max hold. Mark peak, -20dB

# 6.6. Measurement Result

# The EUT does meet the FCC requirement.

-20dB bandwidth = 46.2KHz < 1082.5KHz.

The spectral diagrams in appendix I.

# 7. DURATION TIME AND SILENT PERIOD MEASUREMENT

# 7.1.Block Diagram of Test Setup

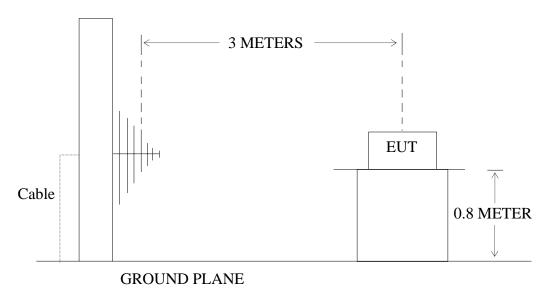
7.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Wireless Thermometer Hygrometer)

#### 7.1.2. Anechoic Chamber Test Setup Diagram

#### ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless Thermometer Hygrometer)

# 7.2. Duration Time and silent period measurement according to FCC Part 15

Section 15.231(e)

Section 15.231(e) In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

# 7.3.EUT Configuration on Measurement

The following equipment are installed on duration time and silent period measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1.Wireless Thermometer Hygrometer (EUT)

Model Number : 608 Serial Number : N/A

Manufacturer : Shenzhen San Fu Da Electronics Co., Ltd.

# 7.4. Operating Condition of EUT

- 7.4.1.Setup the EUT and simulator as shown as Section 6.1.
- 7.4.2. Turn on the power of all equipment.
- 7.4.3.Let the EUT work in measuring mode (TX) measure it.

## 7.5.Test Procedure

- 7.5.1. Set SPA Center Frequency = Fundamental frequency, RBW = 100kHz, VBW = 100kHz, Span = 0Hz.
- 7.5.2. Set EUT as normal operation.
- 7.5.3. Set SPA View. Delta Mark time.

# 7.6. Measurement Result

# The EUT does meet the FCC requirement.

Duration time = 0.963 second <1 second

Silent period = 31.08 seconds > 30 times the duration of the transmission > 10 seconds

The spectral diagrams in appendix I.

## 8. AVERAGE FACTOR MEASUREMENT

# 8.1.Block Diagram of Test Setup

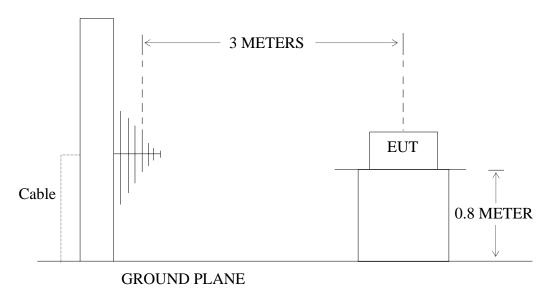
8.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Wireless Thermometer Hygrometer)

8.1.2. Anechoic Chamber Test Setup Diagram

#### ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: Wireless Thermometer Hygrometer)

# 8.2. Average factor Measurement according to ANSI 63.4: 2003

ANSI 63.4: 2003 Section 13.1.4.2 Devices transmitting pulsed emissions and subject to a limit requiring an average detector function for radiated emissions shall initially be measured with an instrument that uses a peak detector. A radiated emission measured with a peak detector may then be corrected to a true average using the appropriate factor for emission duty cycle. This correction factor relates the measured peak level to the average limit and is derived by averaging absolute field strength over one complete pulse train that is 0.1 s, or less, in length. If the pulse train is longer than 0.1 s, the average shall be determined from the average absolute field strength during the 0.1 s interval in which the field strength is at a maximum. Instructions on calculating the duty cycle of a transmitter with pulsed emissions are provided in ANSI 63.4 H.4, step j.

Average factor in  $dB = 20 \log (duty cycle)$ 

# 8.3.EUT Configuration on Measurement

The following equipment are installed on average factor Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.3.1. Wireless Thermometer Hygrometer (EUT)

Model Number : 608 Serial Number : N/A

Manufacturer : Shenzhen San Fu Da Electronics Co., Ltd.

# 8.4. Operating Condition of EUT

- 8.4.1. Setup the EUT and simulator as shown as Section 5.1.
- 8.4.2. Turn on the power of all equipment.
- 8.4.3.Let the EUT work in measuring mode (TX) measure it.

#### 8.5.Test Procedure

- 8.5.1. The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation.
- 8.5.2. Set SPA Center Frequency = Fundamental frequency, RBW = 100kHz, VBW = 100kHz, Span = 0Hz.
- 8.5.3. Set EUT as normal operation.
- 8.5.4. Set SPA View. Delta Mark time.

# 8.6. Measurement Result

# The duty cycle is simply the on time divided by the period:

Effective period of one cycle = 100msSum of pulse width =  $32 \times 0.44 ms$ = 14.08ms

Duty Cycle = 14.08 ms / 100 ms = 0.1408

Therefore, the average factor is found by 20log0.1408 = -17.0dB

The spectral diagrams in appendix I.

# APPENDIX I (Test Curves)

#### CONDUCTION EMISSION STANDARD FCC PART15B 10. Jun 08 10:51

EUT: Wireless Thermometer hygrometer M/N:608

Manuf: SAN FU DA
Op Cond: TX
Operator: Joe
Test Spec: Vb 120V/60Hz
Comment: Tem25\*C Humi53%

Report No.:ATE20080885 Sample No.:081755

Scan Settings (3 Ranges)

 Final Measurement: x QP / + AV
 Transducer No. Start
 Stop
 Name

 Meas Time:
 1 s
 1 gk
 30M
 confac

Meas Time: 1 s Subranges: 16 Acc Margin: 10dB

dBu∀ 80 70 QΡ 60 ΑV 50 40 30 20 10 Marrander 0.15 10 MHz PAGE 1

# CONDUCTION EMISSION STANDARD FCC PART15B 10. Jun 08 11:05

EUT: Wireless Thermometer hygrometer M/N:608

Manuf: SAN FU DA Op Cond: TX Operator: Joe Va 120V/60Hz Test Spec: Tem25°C Humi53%

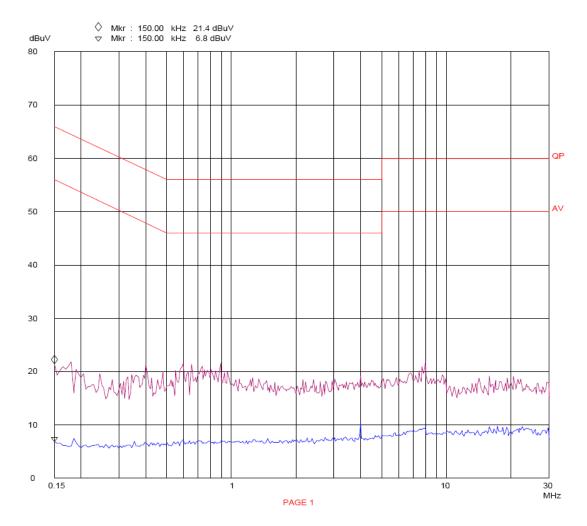
Report No.:ATE20080885 Sample No.:081755

#### Scan Settings (3 Ranges)

-- Frequencies -----||----- Receiver Settings -----Start Stop 150k 2M 2M 10M

Transducer No. Start Stop Name
1 9k 30M confac Final Measurement: x QP / + AV Meas Time: 1 s Subranges: 16

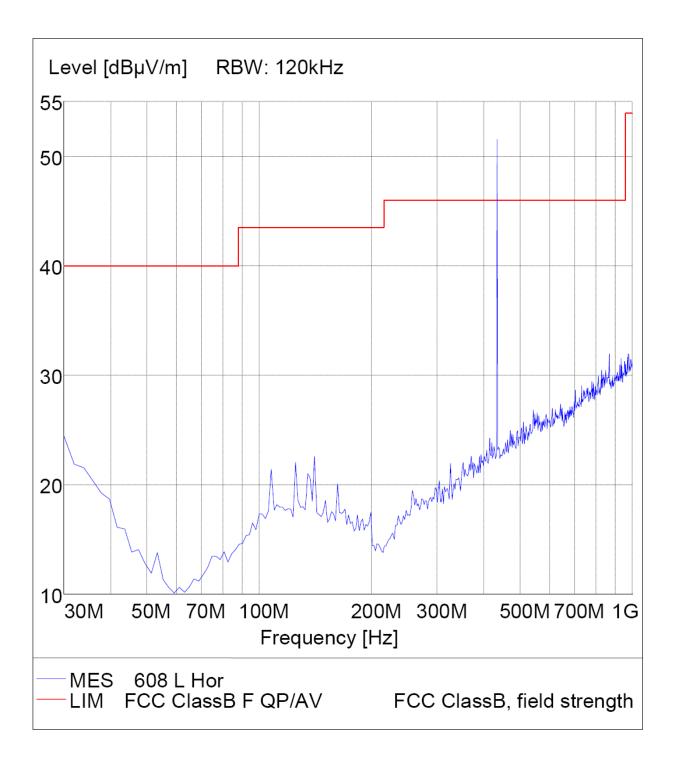
Acc Margin: 10dB



#### FCC Part 15

EUT: Wireless Thermometer Hygrometer M/N: 608 Manufacturer: Shenzhen San Fu Da Electronics Co., Ltd.

Operating Condition: TX
Test Site: ATC EMC Lab.SAC
Operator: Feng Test Specification: Horizontal Comment : DC 12V



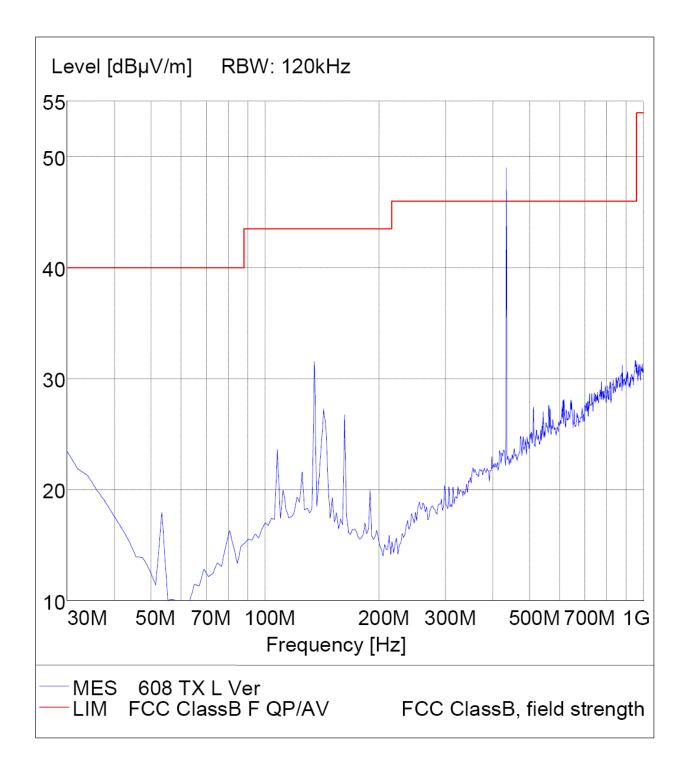
#### FCC Part 15

EUT: Wireless Thermometer Hygrometer M/N: 608 Manufacturer: Shenzhen San Fu Da Electronics Co., Ltd.

Operating Condition: TX

Test Site: ATC EMC Lab.SAC Operator: Feng

Operator: Feng
Test Specification: Vertical
Comment: DC 12V



#### FCC Part 15

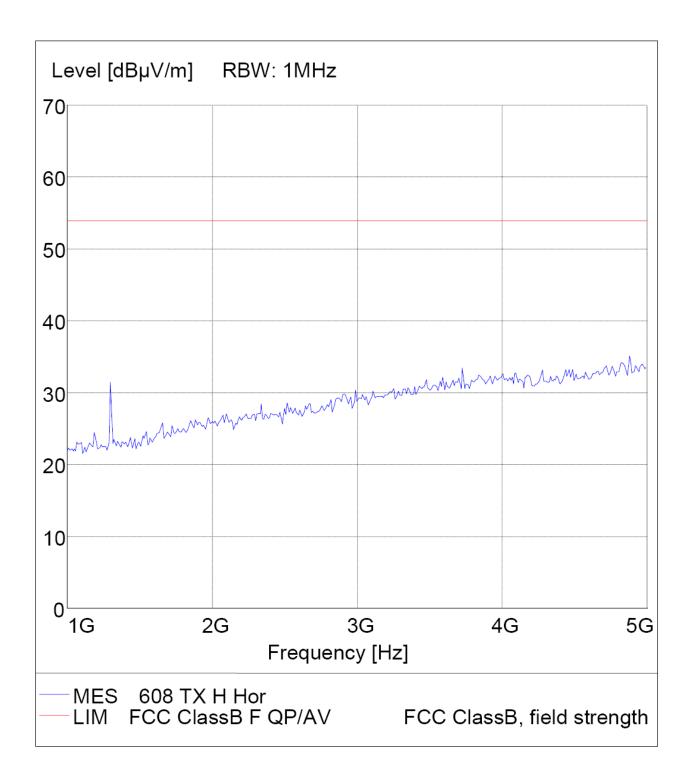
EUT: Wireless Thermometer Hygrometer M/N: 608 Manufacturer: Shenzhen San Fu Da Electronics Co., Ltd.

Operating Condition: TX

Test Site: ATC EMC Lab.SAC

Operator: Feng

Test Specification: Horizontal Comment: DC 12V



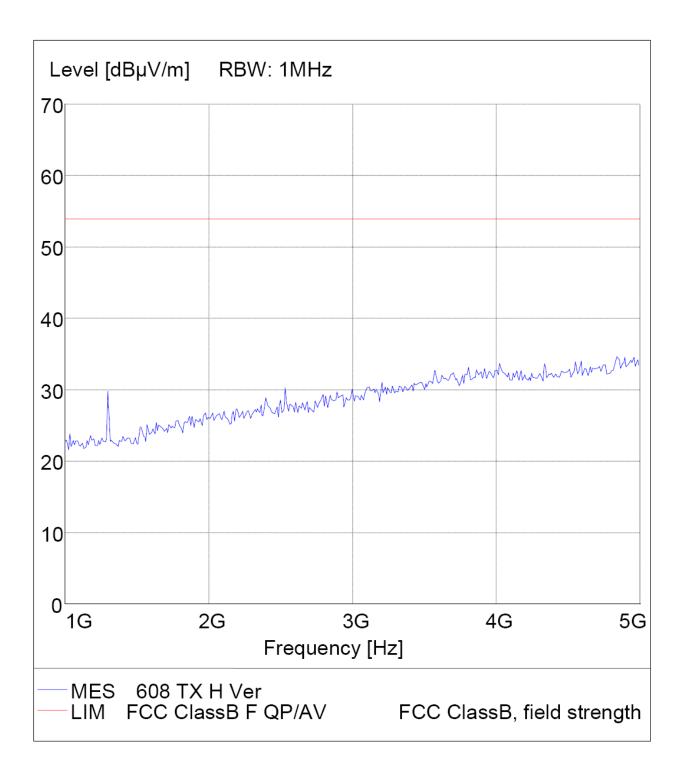
#### FCC Part 15

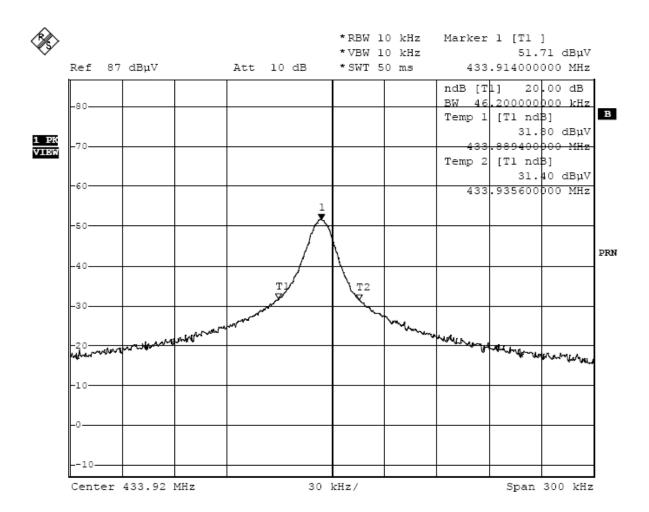
EUT: Wireless Thermometer Hygrometer M/N: 608
Manufacturer: Shenzhen San Fu Da Electronics Co., Ltd.

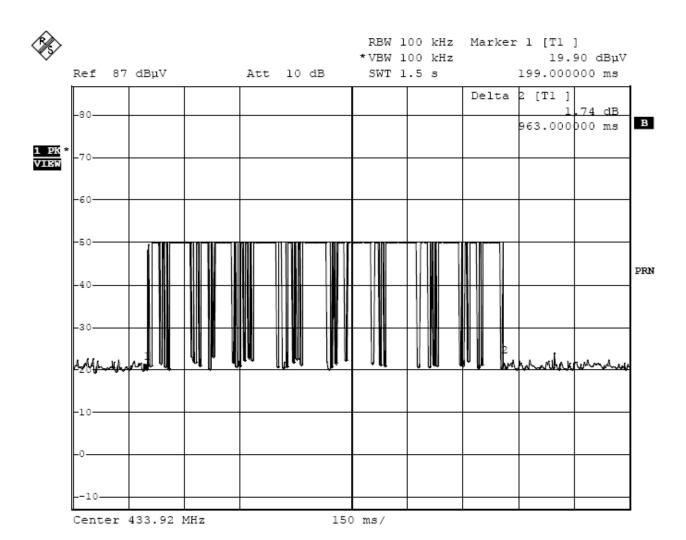
Operating Condition: TX

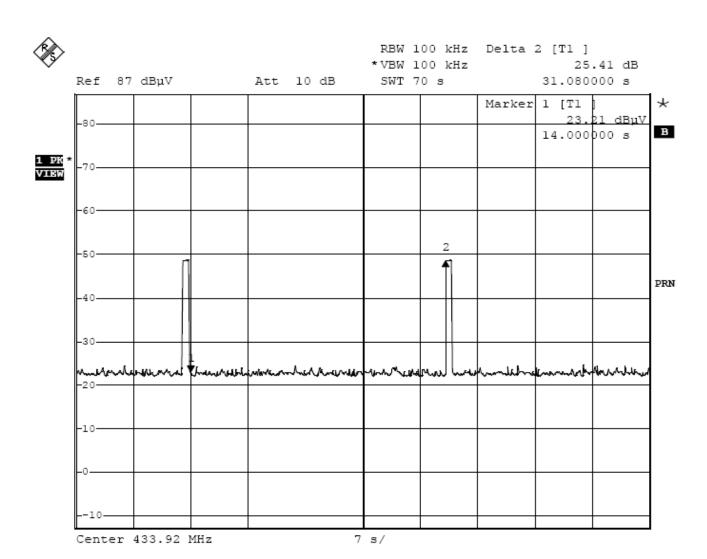
Test Site: ATC EMC Lab.SAC

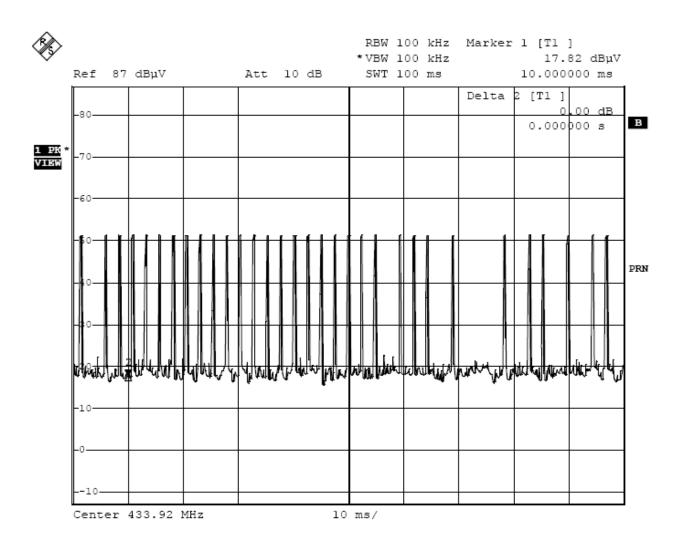
Operator: Feng
Test Specification: Vertical
Comment: DC 12V



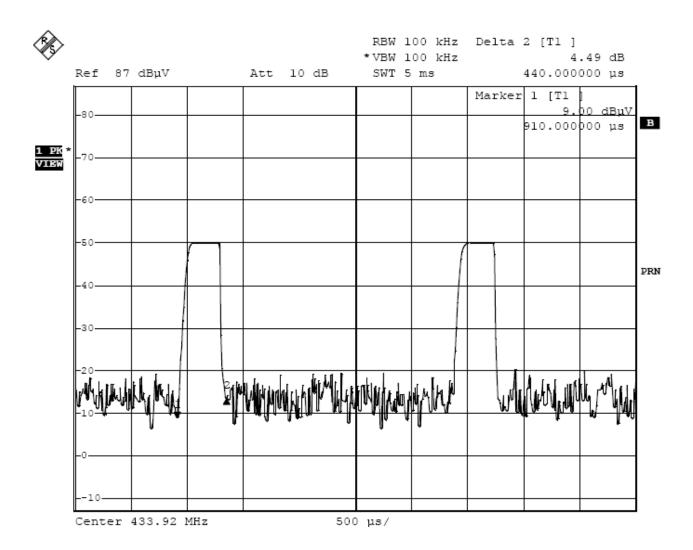








It sums of 32 'on' signals at 100ms.



The graph show the duration of 'on' signal. From marker 1 to marker 2, duration is 0.44ms.