Test Report of FCC Part 15 C for FCC Certificate On Behalf of

TERS ELECTRONIC LTD

6th Floor, A2 Building, Huafeng Industrial Park at Hangcheng Road, Gu Shu, Xixiang Town, Bao'an District, Shenzhen 518126, China

Product description: Wireless Energy Monitor

Model No.: HA102, HA104, HA106, HA108

FCC ID: YO4-HA102

Prepared for: TERS ELECTRONIC LTD

6th Floor, A2 Building, Huafeng Industrial Park at Hangcheng Road, Gu

Shu, Xixiang Town, Bao'an District, Shenzhen518126, China

Prepared by: Bontek Compliance Laboratory Ltd

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1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: TERS ELECTRONIC LTD

Address of applicant: 6th Floor, A2 Building, Huafeng Industrial Park at Hangcheng Road,

Gu Shu, Xixiang Town, Bao'an District, Shenzhen518126, China

Manufacturer: TERS ELECTRONIC LTD

Address of manufacturer: 6th Floor, A2 Building, Huafeng Industrial Park at Hangcheng Road,

Gu Shu, Xixiang Town, Bao'an District, Shenzhen518126, China

General Description of E.U.T

Items	Description
EUT Description:	Wireless Energy Monitor
Trade Name:	mieo
Model No.:	HA102
Supplementary Model No.:	HA104, HA106, HA108
Rated Voltage	DC 4.5 V for 3AAA 1.5V battery ,and without adapter
Frequency range	433.89MHz
Number of channels	1
Antenna Type:	Built-in Antenna
Channel Separation	None
Product Class:	Low Power Communication Device Transmitter

^{*} The test data gathered are from the production sample provided by the manufacturer.

1.2 Test Standards

The following Declaration of Conformity report of EUT is prepared in accordance with

FCC Rules and Regulations Part 15 Subpart C Section 15.231

The objective of the manufacturer is to demonstrate compliance with the described above standards.

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1.3 Test Summary

For the EUT described above. The standards used were <u>FCC Part 15 Subpart C Section 15.231</u> for Emissions

Tests Carried Out Under FCC Part 15 Subpart C

Standard	Test Items	Status	Application
	Disturbance Voltage at The Mains Terminals	Х	Power by DC 4.5V battery
	Radiation Emission	$\sqrt{}$	
Part 15 Subpart C	20dB Bandwidth	$\sqrt{}$	
Section 15.231	Duty Cycle	$\sqrt{}$	
	Transmission time	$\sqrt{}$	
	Antennal requirement	$\sqrt{}$	

- $\sqrt{}$ Indicates that the test is applicable
- × Indicates that the test is not applicable

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

The maximum emission levels emanating from the device are compared to the <u>Part 15 Subpart C Section 15.231</u> limits for radiation emissions and the measurement results contained in this test report show that EUT is to be technically compliant with FCC requirements.

All measurement required was performed at Bontek Compliance Testing Laboratory Ltd at 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

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1.5 Test Facility

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

FCC - Registration No.: 338263

Bontek Compliance Testing Laboratory Ltd 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 338263, March 24, 2008.

IC Registration No.: 7631A

The 3m alternate test site of Bontek Compliance Testing Laboratory Ltd EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on August 2009.

TUV - Registration No.: UA 50145371-0001

Shenzhen Bontek Electronic Technology Co.,Ltd An assessment of the laboratory was conducted according to the Procedures and Conditions for EMC Test Laboratories with reference to EN ISO/IEC 17025 by a TUV Rheinland auditor. Audit Report NO. 17010783-001

CNAS - Registration No.: L3923

Bontek Compliance Testing Laboratory Ltd has been accredited by China National Accreditation Service for Conformity Assessment (CNAS) for the competence in the field of EMC and Safety testing with the Registration No.: L3923 on February, 2009.

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1.6 Test Equipment List and Details

Test equipments list of BONTEK COMPLIANCE TESTING LABORATORY LTD.

No.	Equipment	Manufacturer	Model No.	S/N	Calculator date	Calculator due date
1	EMI Test Receiver	R&S	ESCI	100687	2010-4-14	2011-4-13
2	EMI Test Receiver	R&S	ESPI	100097	2010-4-14	2011-4-13
3	Amplifier	HP	8447D	1937A02492	2010-4-14	2011-4-13
4	Single Power Conductor Module	FCC	FCC-LISN-5- 50-1-01- CISPR25	07101	2010-4-14	2011-4-13
5	Single Power Conductor Module	FCC	FCC-LISN-5- 50-1-01- CISPR25	07102	2010-4-14	2011-4-13
6	Power Clamp	SCHWARZBECK	MDS-21	3812	2010-4-14	2011-4-13
7	Positioning Controller	C&C	CC-C-1F	MF7802113	N/A	N/A
8	`Electrostatic Discharge Simulator	TESEQ	NSG437	125	2010-4-14	2011-4-13
9	Fast Transient Burst Generator	SCHAFFNER	MODULA6150	34572	2010-4-14	2011-4-13
10	Fast Transient Noise Simulator	Noiseken	FNS-105AX	31485	2010-4-14	2011-4-13
11	Color TV Pattern Genenator	PHILIPS	PM5418	TM209947	N/A	N/A
12	Power Frequency Magnetic Field Generator	EVERFINE	EMS61000-8K	608002	2010-4-14	2011-4-13
13	N/A	N/A	N/A	N/A	N/A	N/A
14	Capacitive Coupling Clamp	TESEQ	CDN8014	25096	2010-4-14	2011-4-13
15	High Field Biconical Antenna	ELECTRO- METRICS	EM-6913	166	2010-4-14	2011-4-13
16	Log Periodic Antenna	ELECTRO- METRICS	EM-6950	811	2010-4-14	2011-4-13
17	Remote Active Vertical Antenna	ELECTRO- METRICS	EM-6892	304	2010-4-14	2011-4-13
18	TRILOG Broadband Test-	SCHWARZBECK	VULB9163	9163-324	2010-4-14	2011-4-13

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	Antenna					
19	Horn Antenna	SCHWARZBECK	BBHA9120A	B08000991- 0001	2010-4-14	2011-4-13
20	Teo Line Single Phase Module	SCHWARZBECK	NSLK8128	D-69250	2010-4-14	2011-4-13
21	10dB attenuator	SCHWARZBECK	MTAIMP-136	R65.90.0001#06	2010-4-14	2011-4-13
22	Electric bridge	Zentech	100 LCR METER	803024	N/A	N/A
23	RF Current Probe	FCC	F-33-4	80	2010-4-14	2011-4-13
24	SIGNAL GENERATOR	HP	8647A	3349A02296	2010-4-14	2011-4-13
25	MICROWAVE AMPLIFIER	HP	8349B	2627A00994	2010-4-14	2011-4-13
26	Triple-Loop Antenna	EVERFINE	LLA-2	607004	2010-4-14	2011-4-13
27	CDN	FRANKONIA	M2+M3	A3027019	2009-10-20	2011-10- 19
28	6dB Attenuator	FRANKONIA	75-A-FFN-06	1001698	2009-10-20	2010-10- 19
29	EMV-Mess- Systeme GMBH	FRANKONIA	FLL-75	1020A1109	2009-10-20	2010-10- 19
30	EM Injection Clamp	FCC	F-203I-13mm	091536	2009-10-20	2010-10- 19
31	9KHz-2.4GHz Signal generator	MARCONI INSTRUMENTS	2024	112260/042	2009-10-20	2010-10- 19

2 - SYSTEM TEST CONFIGURATION

2.1 Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

2.2 EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software offered by manufacture, can let the EUT being normal operation.

2.3 Equipment Modifications

The EUT tested was not modified by Bontek.

2.4 Basic Test Setup Block Diagram

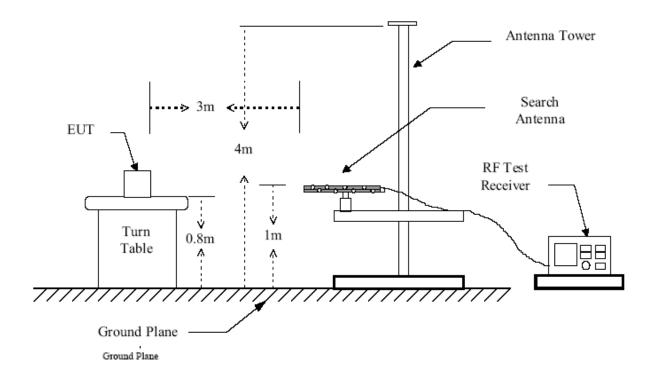


Figure 1: Frequencies measured below 1 GHz configuration

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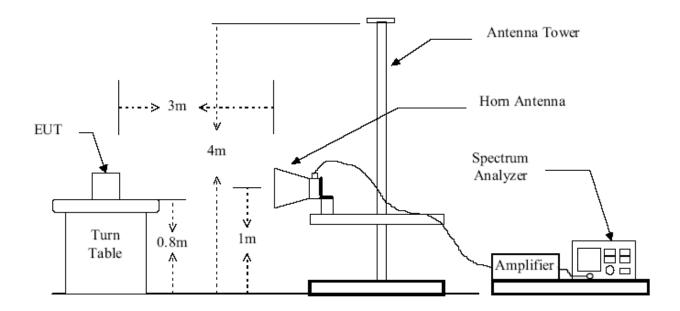


Figure 2: Frequencies measured above 1 GHz configuration

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3- RADIATED DISTURBANCES

3.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is <u>+</u>4.0 dB.

3.2 Limit of Radiated Disturbances

According to 15.231(b), the field strength of emissions from Intentional Radiators operated under this section shall not exceed the following:

Fundamental	Field Strength of		ndamental Field Stre		Field St	rength of
Frequency	Fundamental		Spu	rious		
(MHz)	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)		
40.66 - 40.70	67.04	2,250	47.04	225		
70 - 130	61.94	1,250	41.94	125		
130 - 174	* 61.94 - 71.48	* 1,250 -3,750	* 41.94 - 51.48	* 125 - 375		
174 - 260	71.48	3,750	51.48	375		
260 - 470	* 71.48 - 81.94	* 3,750 - 12,500	* 51.48 - 61.94	* 375 - 1,250		
above 470	81.94	12,500	61.94	1,250		

^{**} linear interpolations

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, uV/m at 3 meters = 56.81818(F) - 6136.3636; for band 260-470 MHz, uV/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

3.3 EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part 15 Subpart B limits.

The EUT was placed on the center of the test table. In the frequency range below 1 GHz, Ultra-Broadband Antenna horn-antenna is used. In the frequency range above 1 GHz horn-antenna is used. Test setup refer to **Section 2.5 Basic Test Setup Block Diagram** of this report.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

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3.4 Test Receiver Setup

According to FCC Part 15 rule, the frequency was investigated from 30 to 4000 MHz. During the radiated emission test, the test receiver was set with the following configurations:

Test Receiver Setting for frequency range below 1000MHz:

Test Receiver Setting for frequency range above 1000MHz:

Detector......Peak
IF Band Width.....1MHz

Antenna Position:

Height......1m to 4m

Polarity......Horizontal and Vertical

3.5 Test Procedure

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

- 1). Configure the EUT according to ANSI C63.4:2003.
- 2). The EUT was placed on the top of the turntable 0.8 meter above ground.
- 3). The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 4). Power on the EUT and all the supporting units.
- 5). The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 6). The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
- 7). For each suspected emission, the antenna tower was scanned (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 8). Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode. Then all data was recorded in the peak detection mode. Quasi-peak readings performed only when an emission was found to be marginal (within -10 dB $_{\mu}$ V of specification limits), and are distinguished with a "QP" in the data plots.

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3.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude Indicated reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Transd.

Transd.= Antenna Factor + Cable Factor - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB μ V means the emission is 7dB μ V below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. -Limit

3.7 Radiated Emissions Test Result

Temperature (°C) : 22~23	EUT: Wireless Energy Monitor
Humidity (%RH): 50~54	M/N: HA102
Barometric Pressure (mbar): 950~1000	Operation Condition: Continuous transmitting

Test plots see following pages

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433.89 MHz Tx in operation							
Maximum Frequency		Pos	Emission and			Limit	Margin
(MHz)	Polarity	m	Deg°	Transd	dBµV/m	dBμV/m	dBµV/m
42.456	V	1.85	156.0	20.8	22.32	40.00	17.68
59.322	V	1.40	90.0	21.5	21.45	40.00	18.55
94.351	V	1.60	105.0	23.2	22.33	40.00	17.67
433.93	V	1.65	65.0	23.1	58.43	80.82	22.39
867.78	V	1.95	155.0	23.5	32.54	46.00	13.46
1301.67	V	1.30	85.0	24.1	31.65	60.82	29.17
1735.56	V					60.82	
2169.45	V					60.82	
2603.34	V					60.82	
3037.23	V					60.82	
Maximum Frequency		Pos	Emission and			Limit	Margin
(MHz)	Polarity	m	Deg°	Transd	dBµV/m	dBμV/m	dBµV/m
42.456	Н	1.35	165.0	20.8	24.36	40.00	15.64
59.322	Н	1.55	175.0	21.5	21.32	40.00	18.68
94.351	Н	1.65	85.0	23.2	20.41	40.00	19.59
433.93	Н	1.15	45.0	23.1	55.76	80.82	25.06
867.78	Н	1.45	135.0	23.5	33.43	46.00	12.57
1301.67	Н	1.75	90.0	24.1	31.08	60.82	29.74
1735.56	Н	1.85	30.0	24.1	30.21	60.82	30.61
2169.45	Н					60.82	
2603.34	Н					60.82	
3037.23	Н					60.82	

Remark:

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⁻⁻⁻ Means that The emission level of the rest measuring harmonic up to 5GHz are so low below applicable limit in operation mode, so the result were not recorded.

4-20dB BANDWIDTH

4.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ±4.0 dB.

4.2 Limit of 20dB Bandwidth

In accordance with Part15.231(c), the fundamental frequency bandwidth was kept within 0.25% of the center frequency for devices operating>70MHz and <900MHz.

Fundamental Frequency	Limit of 20dB Bandwidth
(MHz)	(kHz)
433.89	433890x0.0025=1084.7

4.3 EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2009.

The EUT was placed on the center of the nonmetal table which is 0.8 meter above a grounded turntable. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

4.4 Test Procedure

- 1) Turn on the transmitter, and set it to transmit the pulse train continuously.
- 2) Set Test Receiver into spectrum analyzer mode, Tune the spectrum analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth(RBW) to 10kHz and video bandwidth(VBW) to 10kHz, then select Peak function to scan the channel frequency.
- 3) The 20dB bandwidth was measured and recorded.

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

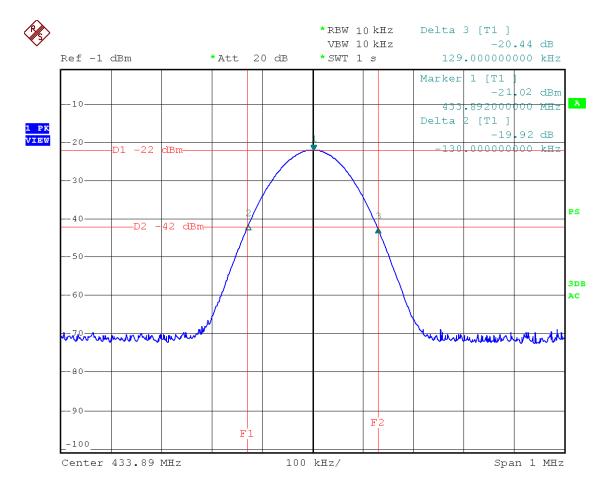
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4.5 Emissions within Band Edges Test Result

Temperature (°C) : 22~23	EUT: Wireless Energy Monitor
Humidity (%RH): 50~54	M/N: HA102
Barometric Pressure (mbar): 950~1000	Operation Condition: Continuous transmitting

Test plots see following pages

Fundamental Frequency (MHz)	20dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/Fail
433.89	259	1084.7	Pass



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5- Duty Cycle

5.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ± 4.0 dB.

5.2 EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2009.

The EUT was placed on the center of the nonmetal table which is 0.8 meter above a grounded turntable. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level.

5.3 Test Procedure

- 1) The EUT was placed on a turntable which is 0.8m above ground plane.
- 2) Set EUT operating in continuous transmitting mode
- 3) Set Test Receiver into spectrum analyzer mode, Tune the spectrum analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth(RBW) to 1000kHz and video bandwidth(VBW) to 1000kHz, Span was set to 0Hz.
- 4) The Duty Cycle was measured and recorded.

5.4 Measurement Result

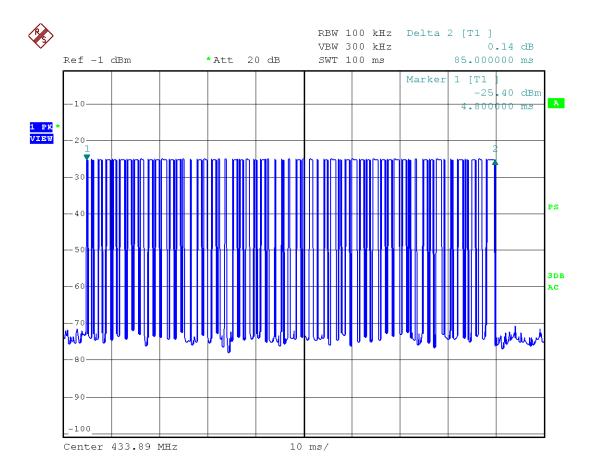
Temperature (°C) : 22~23	EUT: Wireless Energy Monitor	
Humidity (%RH): 50~54	M/N: HA102	
Barometric Pressure (mbar): 950~1000	Operation Condition: Continuous transmitting	

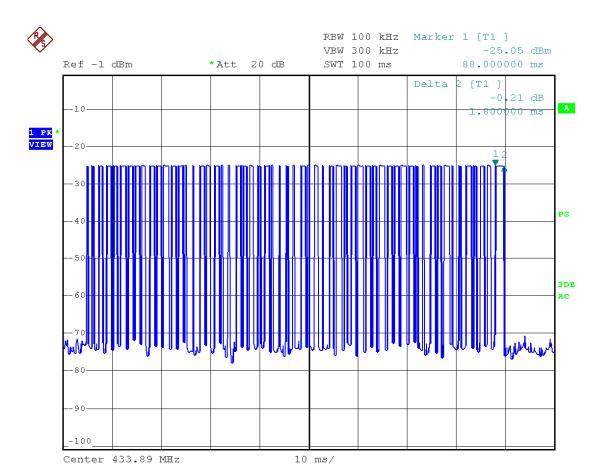
Test plots see following pages

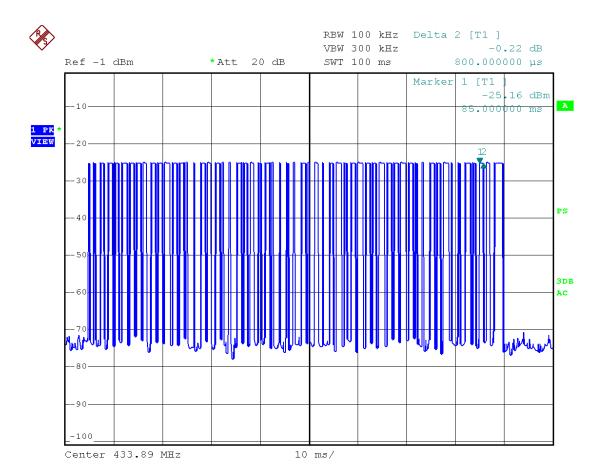
Total Pulse Time of Transmitter = 1.8 msec×1 + 0. 8msec×36+0.4msec×20= 38.6msec

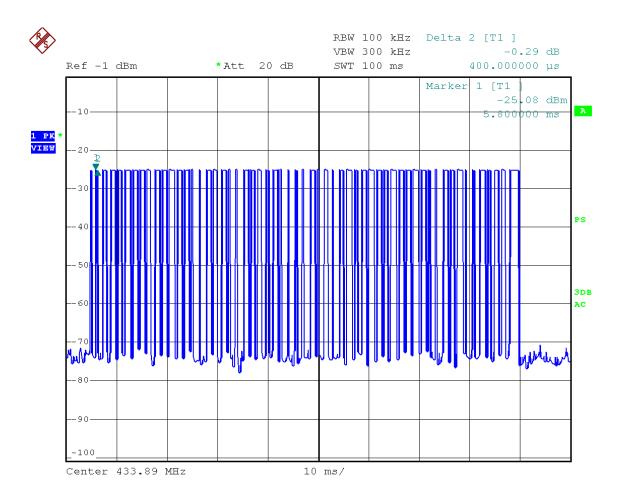
The Duty Cycle= $20*\log(38.6/85) = -6.85dB$

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6- Transmission Time

6.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is +4.0 dB.

6.2 EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2009.

The EUT was placed on the center of the nonmetal table which is 0.8 meter above a grounded turntable. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level.

6.3 Test Procedure

- 3) The EUT was placed on a turntable which is 0.8m above ground plane.
- 4) Set EUT operating in continuous transmitting mode
- 3) Set Test Receiver into spectrum analyzer mode, Tune the spectrum analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth(RBW) to 1000kHz and video bandwidth(VBW) to 1000kHz, Span was set to 0Hz.
- 5) The Transmission time was measured and recorded.

6.4 Limit of Transmission time

In accordance with 15.231(a)(3):Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

Fundamental Frequency	Limit of Transmission
(MHz)	(S/hour)
433.89	2

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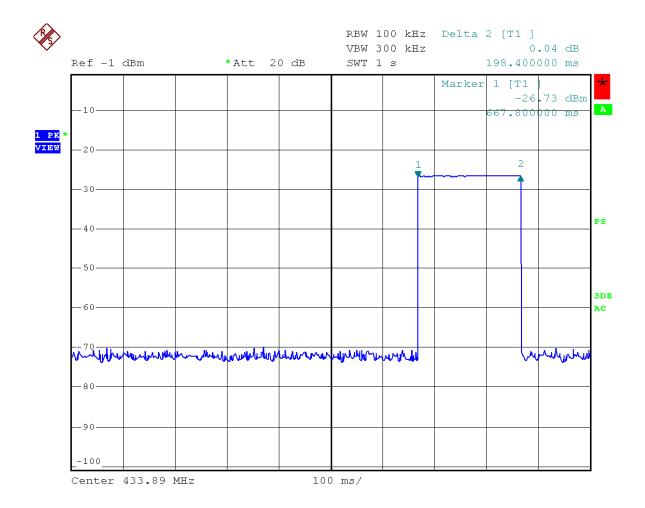
6.5 Transmission Time Test Result

Temperature ($^{\circ}$) : 22~23	EUT: Wireless Energy Monitor	
Humidity (%RH): 50~54	M/N: HA102	
Barometric Pressure (mbar): 950~1000	Operation Condition: Continuous transmitting	

Test plots see following pages

Through 2 hours observation, the longest individual transmissions time as below, and the numbers of individual transmissions in 1 hour is not exceed 6; the total time is not exceed 6*0.1984(S), so that it less than 2(s).

Fundamental Frequency (MHz)	Transmission time (S/hour)	Maximum Limit (S/hour)	Pass/Fail
433.89	0.1984*6=1.2104	2	Pass



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7- ANTENNA REQUIREMENT

7.1 Standard Applicable

Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

7.2 Antenna Connected Construction

The antenna connector is designed with permanent attachment and no consideration of replacement.

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