# FCC 47 CFR PART 15 SUBPART C AND ANSI C63.10:2013 TEST REPORT

For

915 Mhz Wireless IR repeater system

Model : A-1369

Issued for

Ten-Tronics Co., Ltd.

No.33, Lane 347, Chung-San S. Road, Young-Kang City, Tainan, Taiwan

Issued by

Compliance Certification Services Inc. Hsinchu Lab. No.989-1, Wenshan Rd., Shangshan Village, Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.) TEL: +886-3-5921698 FAX: +886-3-5921108

> http://www.ccsrf.com E-Mail : service@ccsrf.com

Issued Date: July 22, 2015



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# **Revision History**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	07/22/2015	Initial Issue	All Page 27	Michelle Chiu

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# **1. TEST REPORT CERTIFICATION**

Applicant :		Ten-Tronics Co., Ltd.
Address	:	No.33, Lane 347, Chung-San S. Road, Young-Kang City,
		Tainan, Taiwan
Equipment Under Test :		915 Mhz Wireless IR repeater system
Model	:	A-1369
Tested Date	:	July 02 ~ 17, 2015

APPLICABLE STANDARD			
Standard	Test Result		
FCC Part 15 Subpart C AND	PASS		
ANSI C63.10:2013 & ANSI C63.4:2014			

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

In

Sb. Lu Sr. Engineer

Reviewed by:

Gundam Lin Sr. Engineer

FCC ID : 2ACIA-TTBT004

# 2. EUT DESCRIPTION

Product Name	915 Mhz Wireless IR repeater system	
Model Number	A-1369	
Identify Number	T150702L04	
Received Date	July 02, 2015	
Frequency Range	915MHz	
Transmit Power	57.68 dBuV/m	
Channel Number	1 Channels	
Type of Modulation	FSK	
Antenna Type	Spring Antenna, Antenna Gain : 2 dBi	
Power Rating	5Vdc	
Test Voltage	120Vac, 60Hz	
DC Power Cable Type	Non-shielded cable, $1.8m \times 2$ (Non-detachable)	
I/O Port	EUT 1(TX) : Power Port × 1, IR Port × 1	
	EUT 2(RX) : Power Port × 1, IR Port × 1	
Signal Cable	Non-shielded IR cable, $2.9m \times 3$ (Detachable)	

#### **Power Adapter :**

No.	Manufacturer	Model No.	Power Input	Power Output	Remark
1	HON-KWANG	HK-S-050A050- US	100-240Vac, 50/60Hz, 0.2A	5V, 0.5A	For EUT 1, 2

Remark :

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

2. For more details, please refer to the User's manual of the EUT.

3. This submittal(s) (test report) is intended for FCC ID: 2ACIA-TTBT004 filing to comply with Section 15.207, 15.209 and 15.249 of the FCC Part 15, Subpart C Rules.

# **3. DESCRIPTION OF TEST MODES**

The EUT (A-1369) had been tested under operating condition.

There are one channel have been tested as following :

Channel	Frequency (MHz)
1	915

### Radiated Emission (Below 1 GHz) and Conducted Emission Test:

1. The following test modes were scanned during the preliminary test:

No.	Pre-Test Mode
1	TX Mode

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Emission Radiated Emission Mode 1   Conducted Emission Mode 1	Final Test Mode					
Conducted Emission Mode 1	Emission	Radiated Emission	Mode 1			
	Emission	Conducted Emission	Mode 1			

**Remark :** Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

### Radiated Emission Test (Above 1 GHz):

TX Mode

# 4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and ANSI C63.4: 2014 and FCC CFR 47, 15.207, 15.209 and 15.249.

# **5. FACILITIES AND ACCREDITATION**

# **5.1 FACILITIES**

All measurement facilities used to collect the measurement data are located at

No.989-1, Wenshan Rd., Shangshan Village, Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.10:2013 and ANSI C63.4:2014 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

## **5.2 ACCREDITATIONS**

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	INDUSTRY CANADA
Japan	VCCI
Taiwan	BSMI
USA	FCC MRA

Copies of granted accreditation certificates are available for downloading from our web site, http:///www.ccsrf.com

Remark: FCC Designation Number TW1027.

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## 5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

PARAMETER	UNCERTAINTY
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 30 to 1000 MHz	+/- 3.97
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 1 to 18GHz	+/- 3.58
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 18 to 26 GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 26 to 40 GHz	+/- 3.81
Conducted Emission (Mains Terminals), 9kHz to 30MHz	+/- 2.48

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than  $U_{CISPR}$  which is 3.6dB and 5.2dB respectively. CCS values (called  $U_{Lab}$  in CISPR 16-4-2) is less than  $U_{CISPR}$  as shown in the table above. Therefore, MU need not be considered for compliance.

# 6. SETUP OF EQUIPMENT UNDER TEST

## SUPPORT EQUIPMENT

N/A

### **SETUP DIAGRAM FOR TESTS**

EUT & peripherals setup diagram is shown in appendix setup photos.

### **EUT OPERATING CONDITION**

- 1. EUT & peripherals setup diagram is shown in appendix setup photos.
- 2. Power on all equipments.

TX Mode: Frequency: 915MHz

- 3. All of the functions are under run.
- 4. Start test.

# 7. FCC PART 15.249 REQUIREMENTS

## 7.1 20 dB BANDWIDTH

### **LIMITS**

None; for reporting purposes only.

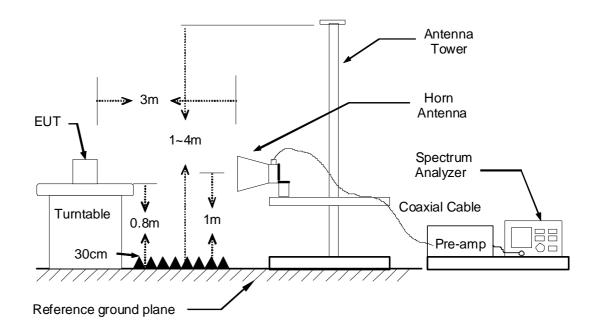
### TEST EQUIPMENT

#### 966Chamber\_C

Name of Equipment	Manufacture	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY45280064	03/26/2016
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101387	10/05/2015
Bi-log Antenna	TESEQ	CBL 6112D	35404	02/24/2016
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078732	07/23/2015
Horn Antenna	COM-POWER	AH-840	03077	12/17/2015
Pre-Amplifier	EMCI	EMC001625	980243	04/12/2016
Pre-Amplifier	COM-POWER	PAM-118A	551043	04/12/2016
Notch Filters Band Reject	Micro-Tronics	BRM50702-01	009	N.C.R
LOOP Antenna	EMCO	6502	8905-2356	09/23/2015

**Remark:** 1. Each piece of equipment is scheduled for calibration once a year. 2. N.C.R = No Calibration Request.

## TEST SETUP



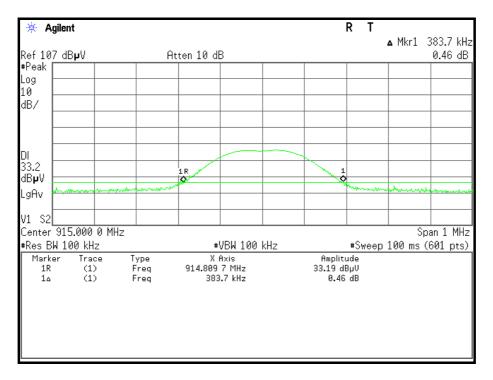
## TEST PROCEDURE

The 20dB band width was measured with a spectrum analyzer connected to RF antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency. The analyzer center frequency was set to the EUT carrier frequency, using the analyzer. Display Line and Marker Delta functions, the 20dB band width of the emission was determined.

## TEST RESULTS

Channel Frequency	20dB Bandwidth
(MHz)	(kHz)
915.00	383.7

### 20dB BANDWIDTH



## 7.2 RADIATED EMISSION

### LIMITS

(1) According to § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

-			
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41			

Remark:

1.<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2.<sup>2</sup> Above 38.6

(2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements. (3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Tonowing table .		
Frequency (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 - 30.0	30	30
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

**Remark:** \*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

- (4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.
- (5) According to § 15.249 (a) Except as provided in paragraph (b) of this section, the field strength of emission from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (millivolts/meter)	Measurement Distance of Harmonics (microvolts/meter)
902 - 928	50	500
2400 - 2483.5	50	500
5725 - 5875	50	500
24000 - 24250	250	2500

Report No. : T150702L04-RP1

## TEST EQUIPMENT

#### 966Chamber\_C

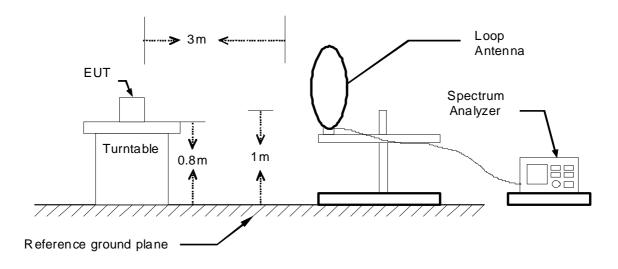
Name of Equipment	Manufacture	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY45280064	03/26/2016
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101387	10/05/2015
Bi-log Antenna	TESEQ	CBL 6112D	35404	02/24/2016
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078732	07/23/2015
Horn Antenna	COM-POWER	AH-840	03077	12/17/2015
Pre-Amplifier	EMCI	EMC001625	980243	04/12/2016
Pre-Amplifier	COM-POWER	PAM-118A	551043	04/12/2016
Notch Filters Band Reject	Micro-Tronics	BRM50702-01	009	N.C.R
LOOP Antenna	EMCO	6502	8905-2356	09/23/2015

**Remark:** 1. Each piece of equipment is scheduled for calibration once a year. 2. N.C.R = No Calibration Request.

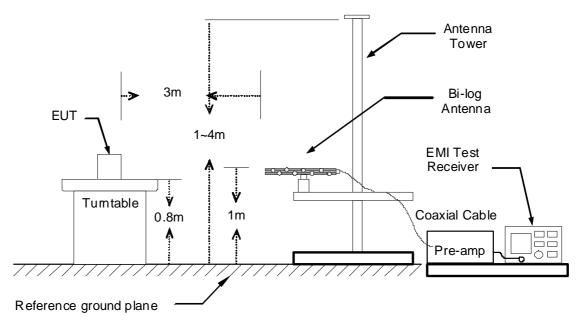
#### **TEST SETUP**

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

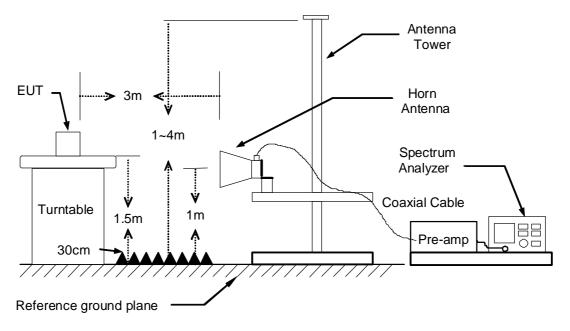
#### 9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



## TEST PROCEDURE

- 1. The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
- 3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### Remark :

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

# **EESR** Compliance Certification Services Inc.

FCC ID : 2ACIA-TTBT004

#### TEST RESULTS

#### Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

#### Below 1 GHz (30MHz ~ 1GHz)

Product Name	915 Mhz Wireless IR repeater system	Test By	Audi Chang
Test Model	A-1369	Test Date	2015/07/06
Test Mode	Mode 1	Temp. & Humidity	30 <sup>°</sup> C, 45%

966 Chamber_C at 3Meter / Horizontal							
Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark	
915.00	65.10	-7.42	57.68	94.00	-36.32	Peak	
102.75	50.32	-19.62	30.70	43.50	-12.8	Peak	
155.13	45.19	-19.98	25.21	43.50	-18.29	Peak	
211.39	43.79	-19.95	23.84	43.50	-19.66	Peak	
565.44	38.61	-10.95	27.66	46.00	-18.34	Peak	
600.36	33.65	-10.62	23.03	46.00	-22.97	Peak	
736.16	31.40	-9.29	22.11	46.00	-23.89	Peak	

966 Chamber_C at 3Meter / Vertical							
Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark	
915.00	59.67	-7.42	52.25	94.00	-41.75	Peak	
55.22	54.70	-23.29	31.41	40.00	-8.59	Peak	
115.36	42.60	-18.56	24.04	43.50	-19.46	Peak	
155.13	44.32	-19.98	24.34	43.50	-19.16	Peak	
561.56	40.47	-10.99	29.48	46.00	-16.52	Peak	
580.96	37.48	-10.8	26.68	46.00	-19.32	Peak	
948.59	31.61	-7.22	24.39	46.00	-21.61	Peak	

#### Remark:

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.

2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)

4. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)

5. Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m).

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#### TX Above 1 GHz

Product Name	915 Mhz Wireless IR repeater system	Test By	Audi Chang
Test Model	A-1369	Test Date	2015/07/06
Test Mode	Mode 1	Temp. & Humidity	30 <sup>°</sup> C, 50%

#### 966 Chamber\_C at 3Meter / Horizontal

Freq.	Reading	C.F.	Result	Limit	Margin	Azimuth	Height	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	deg	cm	
1342.00	46.07	-9.01	37.06	74.00	-36.94	209	200	Peak
1828.00	48.92	-6.20	42.72	74.00	-31.28	205	200	Peak
3088.00	45.59	-3.36	42.23	74.00	-31.77	100	200	Peak
4456.00	44.85	-1.39	43.46	74.00	-30.54	182	200	Peak
4933.00	44.65	-0.28	44.37	74.00	-29.63	355	200	Peak
6454.00	43.31	2.68	45.99	74.00	-28.01	224	200	Peak

#### 966 Chamber\_C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
828.00	47.80	-6.20	41.60	74.00	-32.40	222	100	Peak
2305.00	47.24	-4.50	42.74	74.00	-31.26	216	100	Peak
2800.00	46.44	-3.77	42.67	74.00	-31.33	197	100	Peak
1465.00	46.25	-1.37	44.88	74.00	-29.12	39	200	Peak
4771.00	44.95	-0.66	44.29	74.00	-29.71	68	100	Peak
5319 <b>.00</b>	43.56	2.48	46.04	74.00	-27.96	203	100	Peak

Remark:

1. Average test would be performed if the peak result were greater than the average limit.

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

3. Result = Reading + Correction Factor Margin = Result – Limit Remark Peak = Result(PK) – Limit(PK) Remark AVG = Result(AV) – Limit(AV)

## 7.3 CONDUCTED EMISSION

## **LIMITS**

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

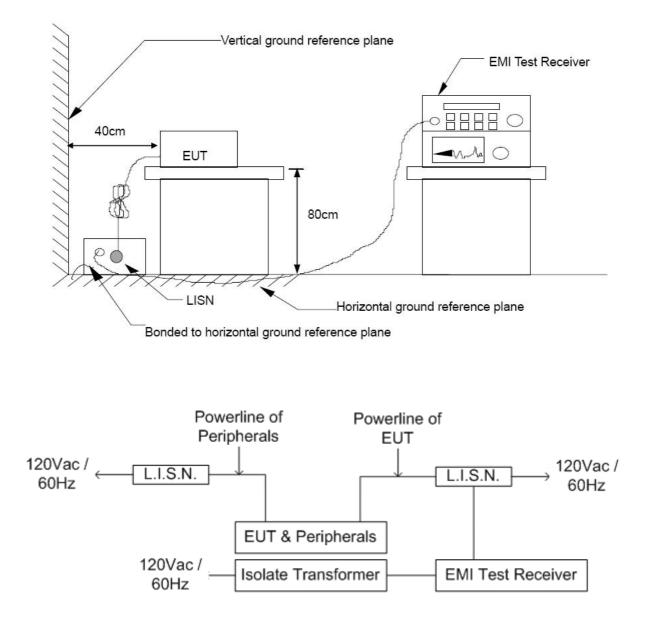
Frequency Range	Conducted Limit (dBµv)				
(MHz)	Quasi-peak	Average			
0.15 - 0.50	66 to 56	56 to 46			
0.50 - 5.00	56	46			
5.00 - 30.0	60	50			

### TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	SCHWARZBECK	NSLK 8127	8127465	08/06/2015
L.I.S.N	SCHWARZBECK	NSLK 8127	8127473	03/09/2016
EMI Test Receiver	ROHDE & SCHWARZ	ESHS 30	838550/003	11/02/2015
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	100111	06/28/2016

Remark: Each piece of equipment is scheduled for calibration once a year.

## TEST SETUP



## TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.10:2013 and ANSI C63.4:2014.

The test procedure is performed in a  $4m \times 3m \times 2.4m$  (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W)  $\times$  1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

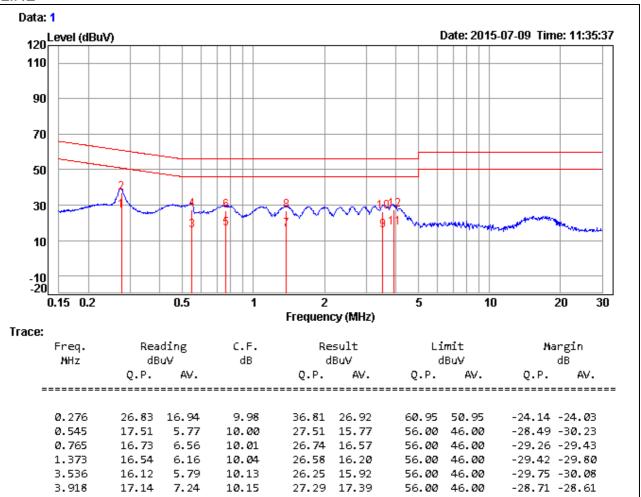
## **EESRE** Compliance Certification Services Inc.

FCC ID : 2ACIA-TTBT004

#### TEST RESULTS

Product Name	915 Mhz Wireless IR repeater system	Test By	Gill Yeh
Test Model	A-1369	Test Date	2015/07/09
Test Mode	Mode 1	Temp. & Humidity	22.9°C, 67%

#### LINE



Remark:

1. Correction Factor = Insertion loss + Cable loss

2. Result level = Reading Value + Correction factor

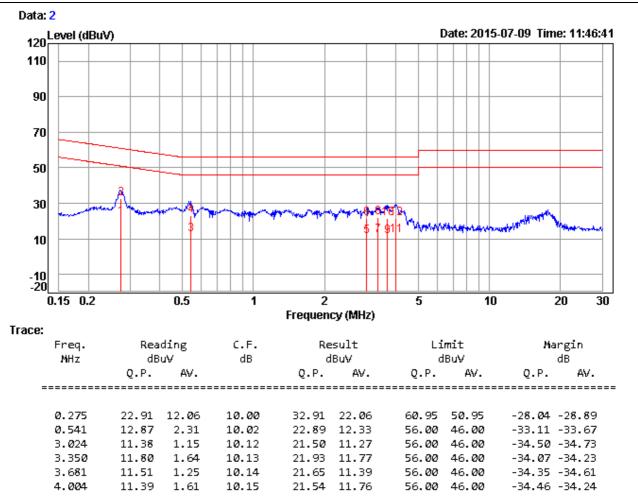
3. Margin value = Result level – Limit value

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FCC ID : 2ACIA-TTBT004

Product Name	915 Mhz Wireless IR repeater system	Test By	Gill Yeh
Test Model	A-1369	Test Date	2015/07/09
Test Mode	Mode 1	Temp. & Humidity	22.9°C, 67%

NEUTRAL



#### Remark:

1. Correction Factor = Insertion loss + Cable loss

2. Result level = Reading Value + Correction factor

3. Margin value = Result level – Limit value

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