

# SHENZHEN PAKITE TECHNOLOGY CO.,LTD.

Wireless A/V Transmitter&Receiver

Main Model: PAT-530 、 PAT-550

Serial Model: See P5

March 31, 2014


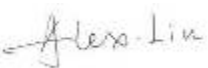

Report No.: 13021144-FCC-R1

(This report supersedes None)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

		
William Long Compliance Engineer	Alex Liu Technical Manager	

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Test result presented in this test report is applicable to the representative sample only.

# RF Test Report

TO: FCC 15.231:2013

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## Laboratory Introduction

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### Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC , RF/Wireless , Telecom
Canada	EMC, RF/Wireless , Telecom
Taiwan	EMC, RF, Telecom , Safety
Hong Kong	RF/Wireless ,Telecom
Australia	EMC, RF, Telecom , Safety
Korea	EMI, EMS, RF , Telecom, Safety
Japan	EMI, RF/Wireless, Telecom
Singapore	EMC , RF , Telecom
Europe	EMC, RF, Telecom , Safety

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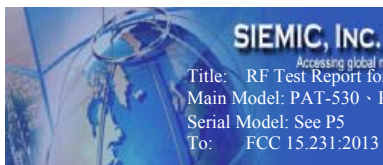
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# **1 EXECUTIVE SUMMARY & EUT INFORMATION**

**The purpose of this test programmed was to demonstrate compliance of the SHENZHEN PAKITE TECHNOLOGY CO.,LTD.. The Wireless A/V Transmitter&Receiver and model: PAT-530 、 PAT-550 against the current Stipulated Standards. The Wireless A/V Transmitter&Receiver has demonstrated compliance with the FCC Part 15.231:2013.**

## **EUT Information**

<b>EUT Description</b>	<b>Wireless A/V Transmitter&amp;Receiver</b>
<b>Model No</b>	<b>PAT-530、 PAT-550</b>
<b>Serial No</b>	<b>PAT-220、 PAT-240、 PAT-260、 PAT-536、 PAT-556、 PAT-630、 PAT-650</b>
<b>Antenna Gain</b>	<b>PAT-530(Tx): 3dBi PAT-550(Tx): 3dBi</b>
<b>Input Power</b>	<b>Adapter: Model: SJ-0510-U INPUT: AC100-240V 50/60Hz OUTPUT: DV 5V 1000mA</b>
<b>Classification Per Stipulated Test Standard</b>	<b>FCC Part 15.231:2013</b>



Title: RF Test Report for Wireless A/V Transmitter&Receiver  
Main Model: PAT-530 、 PAT-550  
Serial Model: See P5  
To: FCC 15.231:2013

Report No.: 13021144-FCC-R1  
Issue Date: March 31, 2014  
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www.siemic.com.cn

## 2 TECHNICAL DETAILS

Purpose	Compliance testing of Wireless A/V Transmitter&Receiver with stipulated standard
Applicant / Client	SHENZHEN PAKITE TECHNOLOGY CO.,LTD. M02A,A Block,Chunhui Yuan,Caitian Road,Futian District,Shenzhen,China
Manufacturer	SHENZHEN PAKITE TECHNOLOGY CO.,LTD. M02A,A Block,Chunhui Yuan,Caitian Road,Futian District,Shenzhen,China
Laboratory performing the tests	SIEMIC (Nanjing-China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email: China@siemic.com
Test report reference number	13021144-FCC-R1
Date EUT received	December 09, 2013
Standard applied	FCC 15.231:2013
Dates of test	January 09 to March 28, 2014
No of Units :	1#
Equipment Category :	DSC
Trade Name :	Sunrise Energy
Test Model :	PAT-530 、 PAT-550
RF Operating Frequency (ies)	5733-5847MHz (TX) 433.84MHz (TX)
Number of Channels :	6 CH(5733MHz, 5752MHz, 5771 MHz, 5809MHz, 5828MHz, 5847MHz) 1 CH(433.84MHz)
Modulation :	5.8G: FSK 433.84MHz: OOK
FCC ID :	2ABU5-AVSENDER

### 3 MODIFICATION

NONE

## 4 TEST SUMMARY

The product was tested in accordance with the following specifications.  
All testing has been performed according to below product classification:

### Test Results Summary

Test Standard	Description	Pass / Fail
CFR 47 Part 15.231: 2013		
15.203	Antenna Requirement	Pass
15.207	Conducted Emissions Voltage	Pass
15.231(b)	Fundamental & Radiated Spurious Emission	Pass
15.231(c)	20dB Bandwidth	Pass
15.231(e)(1)	Deactivation	Pass
ANSI C63.4: 2009		
PS: All measurement uncertainties are not taken into consideration for all presented test result.		
Preliminary radiated emission testing has been performed on X, Y, Z axis, only worst case test result is presented in this test report.		



## **5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS**

### **5.1 Antenna Requirement**

**Requirement(s):** 47 CFR §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.

Antenna requirement must meet at least one of the following:

- a) Antenna must be permanently attached to the device.
- b) Antenna must use a unique type of connector to attach to the device.
- c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.

The antenna is permanently attached to the device which meets the requirement.

## 5.2 Conducted Emissions Voltage

Requirement:

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

\*Decreases with the logarithm of the frequency.

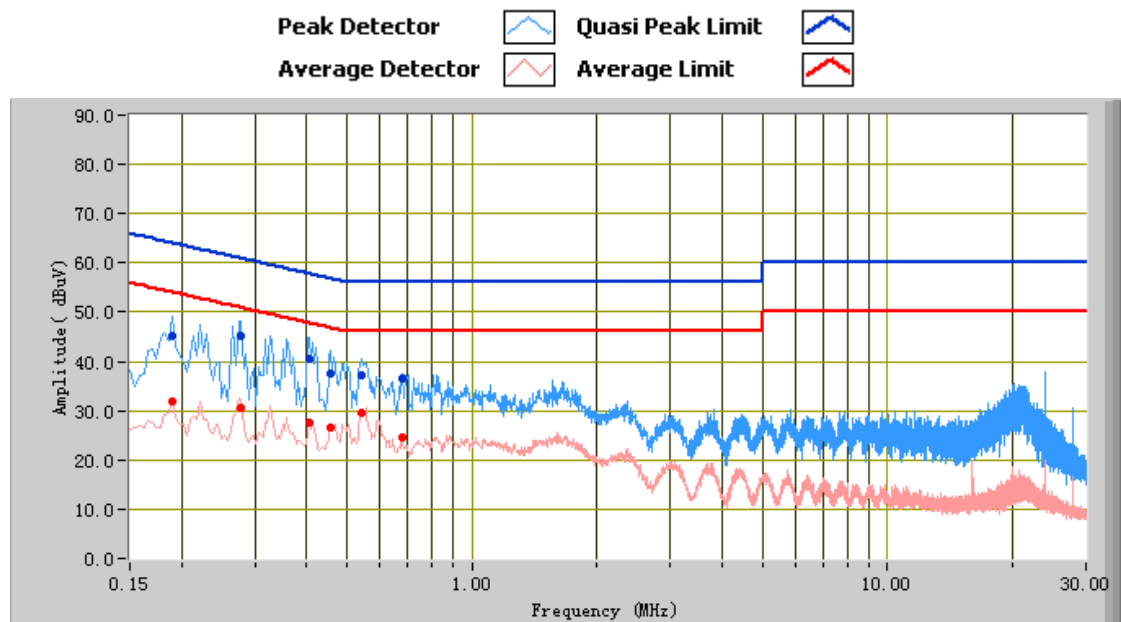
### Procedures:

- All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
- A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- Conducted Emissions Measurement Uncertainty  
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is ±3.5dB.
- Environmental Conditions
 

Temperature	19 °C
Relative Humidity	51 %
Atmospheric Pressure	1009 mbar
- Test date : January 09, 2014  
 Tested By : William Long

**Test result: Pass**

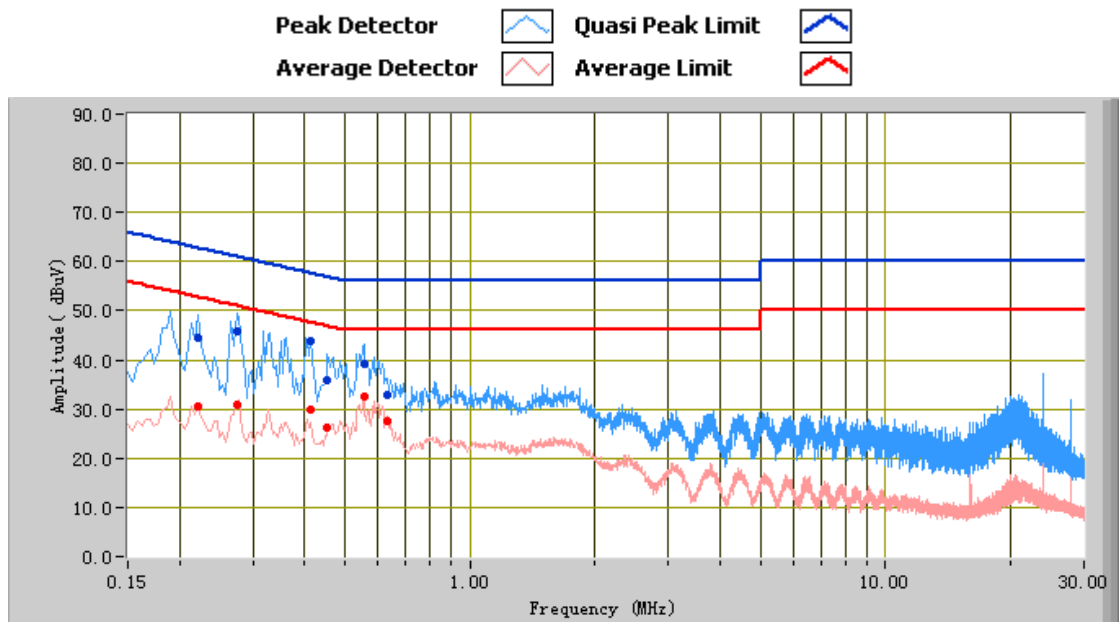
Test Mode:	Normal Working
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Phase Line Plot at 120V AC, 60Hz

Frequency (MHz)	Quasi Peak (dBμV)	Limit (dBμV)	Margin (dB)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Factors (dB)
0.28	45.03	60.87	-15.85	30.68	50.87	-20.20	11.41
0.41	40.49	57.73	-17.24	27.51	47.73	-20.22	11.22
0.46	37.36	56.73	-19.37	26.66	46.73	-20.07	11.15
0.19	45.21	64.04	-18.83	31.91	54.04	-22.13	11.64
0.54	37.13	56.00	-18.87	29.51	46.00	-16.49	11.05
0.68	36.43	56.00	-19.57	24.43	46.00	-21.57	10.94

Test Mode:	Normal Working
------------	----------------



Phase Neutral Plot at 120V AC, 60Hz

Frequency (MHz)	Quasi Peak (dBμV)	Limit (dBμV)	Margin (dB)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Factors (dB)
0.27	45.72	61.00	-15.28	30.99	51.00	-20.01	11.42
0.55	39.07	56.00	-16.93	32.67	46.00	-13.33	11.02
0.41	43.78	57.57	-13.79	29.78	47.57	-17.78	11.19
0.22	44.63	62.74	-18.12	30.56	52.74	-22.18	11.50
0.45	36.03	56.80	-20.77	26.24	46.80	-20.56	11.13
0.63	32.78	56.00	-23.22	27.54	46.00	-18.46	10.96

### 5.3 20dB Occupied Bandwidth

- 20dB bandwidth was measured by conducted method using a spectrum analyzer.
- Environmental Conditions

Temperature

19°C

Relative Humidity

51%

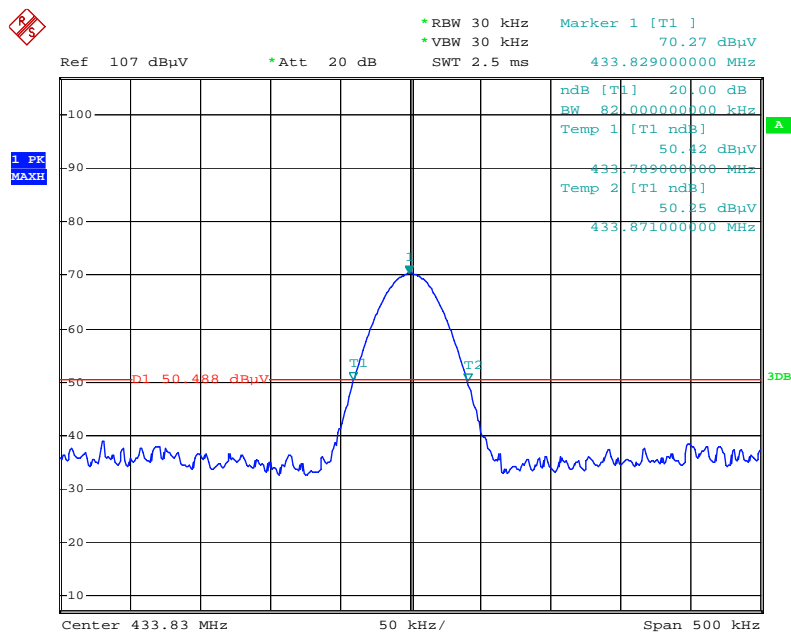
Atmospheric Pressure

1009mbar
- Test Date: March 28, 2014

Test By: William Long

#### Test Result:

Fundamental Frequency (MHz)	Measured 20dB Bandwidth (kHz)	FCC 15.231 Limit (kHz)	Result
433.83	82	1084.575	Pass



Date: 28.MAR.2014 12:00:07

## 5.4 Radiated Fundamental and Spurious Emission

1. Radiated emissions were measured according to ANSI C63.4. The EUT was set 3 meter away from the measuring antenna. The loop antenna was positioned 1meter above the ground from the center of the loop. The measuring bandwidth was set to 10KHz. All possible modes of operation were investigated. Only the worst case emissions measured, All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Sample Calculation: Corrected Amplitude=Raw Amplitude(dBuV/m)+ACF(dB)+Cable Loss(dB)-Distance Correction Factor.  
 Sample Calculation:  
 1) Corrected Amplitude= Raw Amplitude(dBuV/m)+ACF(dB)+Cable Loss(dB)-Distance Correction Factor  
 2) Average = peak reading + 20log(duty cycle)
4. Radiated Emissions Measurement Uncertainty  
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz( QP only3m & 10m) is +5.6/-4.5dB(for EUTs<0.5m×0.5m×0.5m).In range of 1-40GHz) is ±3.6dB.
5. Environmental Conditions
 

Temperature	19°C
Relative Humidity	50%
Atmospheric Pressure	1009mbar
6. Test date : March 28, 2014  
 Tested By : William Long

### Standard Requirement:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	1000	100
70-130	500	50
130-174	500 to 1500	50 to 150
174-260	1500	150
260-470	1500 - 5000	150 to 500
Above 470	5000	500

Note: All 3 axes have been investigated. Only worst case is presented in the test report.

**Test Result:** Pass

### Fundamental Measurement @ 433.848MHz @3 Meter FCC 15.231(e)

Frequency (MHz)	Cord. Amp. (dBμV/m)	Azimuth	Polarity	Height(m)	Factors(dB)	FCC 15.231(a) Limit (dBμV)	Margin (dB)	Comments
433.84	71.22	154.20	V	2.20	-31.37	92.86	-21.64	Peak
433.84	71.22	-	V	-	0	72.86	-1.64	Ave
433.84	70.20	36.30	H	1.60	-31.37	92.86	-22.66	Peak
433.84	70.20	-	H	-	0	72.86	-2.66	Ave

### Spurious Emissions (<1GHz) Measurement @ 3 Meter FCC 15.231(e)

Frequency (MHz)	Cord. Amp. (dBμV/m)	Azimuth	Polarity	Height(m)	Factors(dB)	FCC 15.231(a) Limit (dBμV)	Margin (dB)	Comments
867.68	48.88	56.00	V	2.2	-25.03	72.86	-23.98	Pk
867.68	48.88	-	V	-	0	52.86	-3.98	Ave
867.68	43.51	223.50	H	1.5	-25.03	72.86	-29.35	Pk
867.68	43.51	-	H	-	0	52.86	-9.35	Ave
511.30	35.11	26.00	V	1.6	-29.9	72.86	-37.75	Pk
511.30	35.11	-	V	-	0	52.86	-17.75	Ave
298.02	39.2	165.00	H	2.3	-34.77	72.86	-33.66	Pk
298.02	39.20	-	H	-	0	52.86	-13.66	Ave

**Notes:**

1. Duty cycle is 100%,  $20\log(\text{duty cycle}) = 0\text{dB}$  correction was used to determine the average level from the peak reading. Average = peak reading +  $20\log(\text{duty cycle})$ , Final Average= peak reading -0
2. All the data measurement of peak values.
3. FCC Limit for Average Measurement=7230.8 (433.848MHz)-2833.33=4397.47μV/m=72.86dBμV/m
4. Average pulsed signal over one complete pulse train or 100 ms time frame if pulse train exceeds 100 ms
5. Maximum average in 100 ms
6. Calculate duty cycle for pulse train or 100 ms
7. Duty cycle =  $(t_1 + t_2 + t_3 + \dots t_n)/T$  where  $t_n$  = pulse width, T = pulse train length or 100 ms

### Spurious Emissions (>1GHz) Measurement @ 3 Meter FCC 15.231(e)

Frequency	Direction	Height	Polar	Factors (dB)	Amplifier	Cord. Amp.	FCC 15.231	Margin	Comments
GHz	Degree	Meter	H/V	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	(dB)	(Pk/Av)
1301.69	21	1.2	H	-26.7	55	50.11	72.86	-22.75	Peak
1301.69	-	-	H	0	-	50.11	52.86	-2.75	Ave
1735.55	190	1.6	H	-25.47	55	48.02	72.86	-24.84	Peak
1735.55	-	-	H	0	-	48.02	52.86	-4.84	Ave
2169.52	31	2.3	H	-23.17	55	44.55	72.86	-28.31	Peak
2169.52	-	-	H	0	-	44.55	52.86	-8.31	Ave
3037.28	13	1.6	H	-19.37	55	44.23	72.86	-28.63	Peak
3037.28	-	-	H	0	-	44.23	52.86	-8.63	Ave
3471.53	32	1.7	H	-18.7	55	40.56	72.86	-32.30	Peak
3471.53	-	-	H	0	-	40.56	52.86	-12.30	Ave
4052.26	232	2.2	H	-16.8	55	33.5	72.86	-39.36	Peak
4052.26	-	-	H	0	-	33.50	52.86	-19.36	Ave
1301.69	301	1.5	V	-26.7	55	49.54	72.86	-23.32	Peak
1301.69	-	-	V	0	-	49.54	52.86	-3.32	Ave
1735.55	53	2.2	V	-25.47	55	48.88	72.86	-23.98	Peak
1735.55	-	-	V	0	-	48.88	52.86	-3.98	Ave
2169.52	21	1.9	V	-23.17	55	44.56	72.86	-28.30	Peak
2169.52	-	-	V	0	-	44.56	52.86	-8.30	Ave
3037.28	41	1.5	V	-19.37	55	46.36	72.86	-26.50	Peak
3037.28	-	-	V	0	-	46.36	52.86	-6.50	Ave
3471.53	26	1.6	V	-18.7	55	38.55	72.86	-34.31	Peak
3471.53	-	-	V	0	-	38.55	52.86	-14.31	Ave
2215.3	133	1.7	V	-23.17	55	40.23	72.86	-32.63	Peak
2215.3	-	-	V	0	-	40.23	52.86	-12.63	Ave

Note: Duty cycle is 100%,  $20\log(\text{duty cycle}) = -0\text{dB}$  correction was used to determine the average level from the peak reading. Average = peak reading +  $20\log(\text{duty cycle})$ , final Average= peak reading -0

**Note:**

**Pulse width (PW) = 260ms**

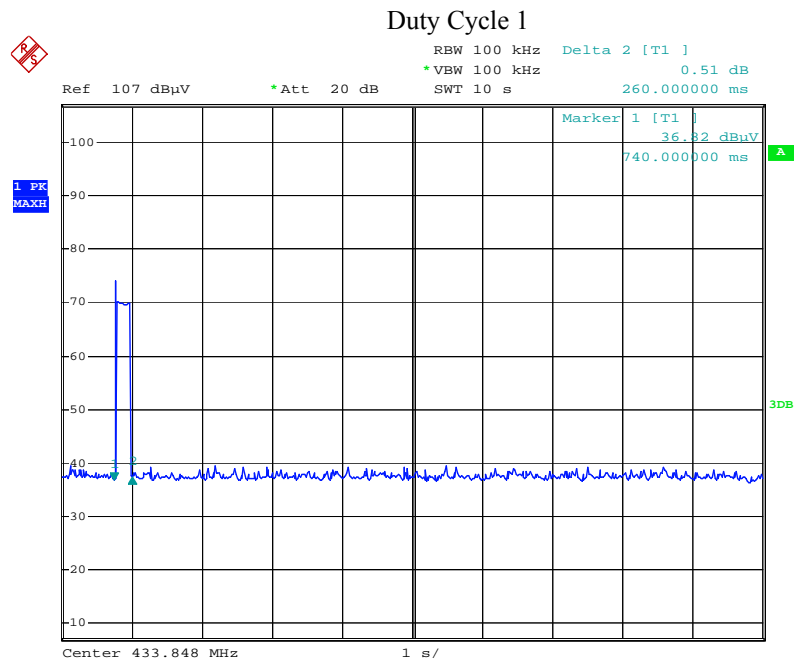
**$1/PW = 2/260\text{ms} = 0.0076923\text{kHz}$**

**$RBW > 2/PW (0.0076923\text{kHz})$**

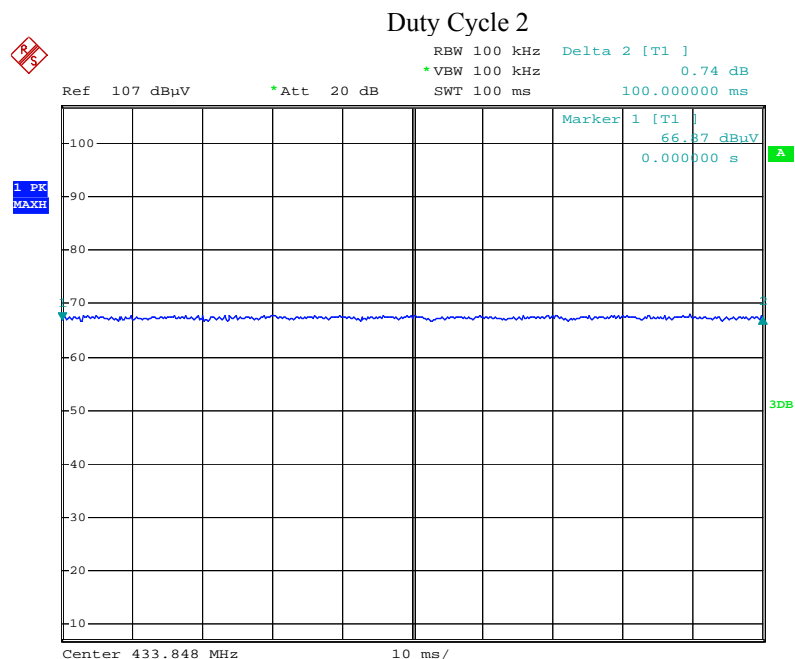
**Therefore PDCF is not needed.**



Pulse Duty Cycle:  
Duty cycle= 100/100 =100%  
Average Duty Factor:  $20 \times \log(\text{Duty Cycle}) = -0\text{dB}$



Date: 28.MAR.2014    11:32:16



Date: 28.MAR.2014    11:35:57

## 5.5 Deactivation

- Deactivation was measured by conducted method using a spectrum analyzer.
- Environmental Conditions

Temperature	19°C
Relative Humidity	51%
Atmospheric Pressure	1009mbar
- Test Data: March 28, 2014

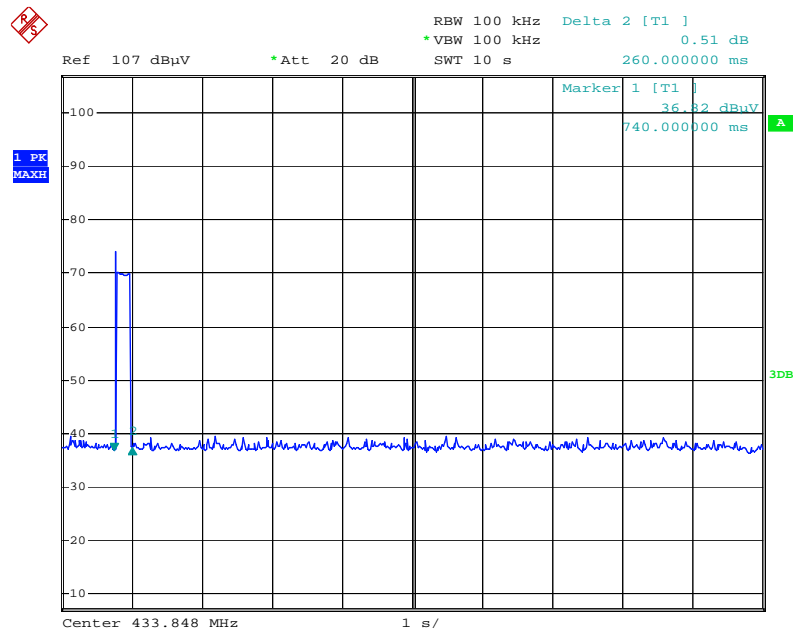
Test By: William Long

Standard requirement: 47 CFR §15.231 (e)

### Limit:

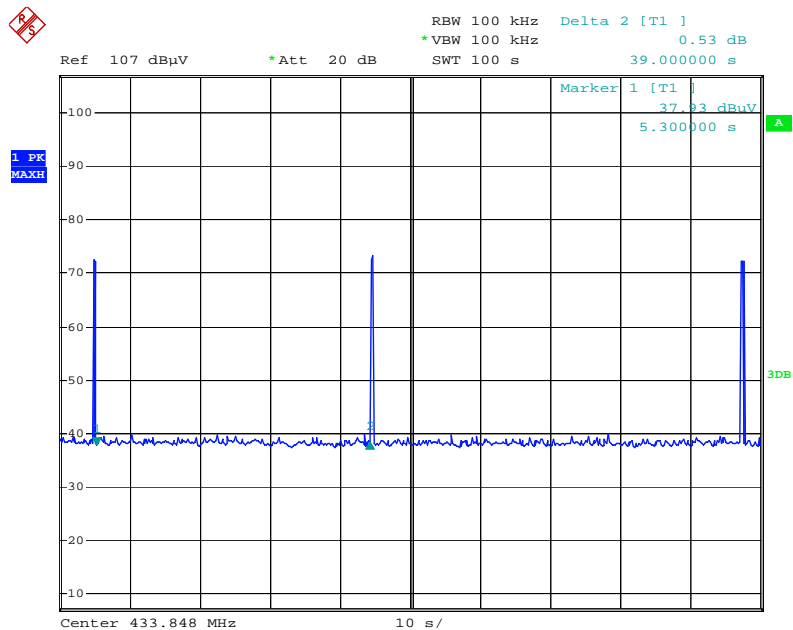
In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of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

Test Result: Pass



Date: 28.MAR.2014 11:32:16

each transmission



Date: 28.MAR.2014 11:24:32

silent period

Test Channel	Frequency (MHz)	silent period (seconds)	silent period Limit (seconds)	Result
CH 01	433.848	39	>10	PASS

silent period  $39 > 30 \times 0.26 = 7.8$

## Annex A. TEST INSTRUMENT & METHOD

### Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
<b>AC Line Conducted Emissions</b>				
R&S EMI Test Receiver	ESPI3	101216	09/27/2013	09/26/2014
ROHDE&SCHWARZ V-LISN	ESH3-Z5	838979/005	09/27/2013	09/26/2014
Com-Power Transient Limiter	LIT-153	531021	09/27/2013	09/26/2014
SIEMIC Labview Conducted Emissions software	V1.0	N/A	N/A	N/A
<b>Radiated Emissions</b>				
R&S Receiver	ESPI 3	101216	09/27/2013	09/26/2014
Hp Spectrum Analyzer	8563E	3821A09023	09/27/2013	09/26/2014
HP Pre-amplifier	8447F	1937A01160	10/27/2013	10/26/2014
Sunol Sciences, Inc. antenna	JB6	A121411	03/26/2014	03/25/2015
A-INFOMW Horn Antenna (1~18GHz)	JXTXLB-10180	J2031081120092	10/09/2013	10/08/2014
MITEQ Pre-Amplifier(0.1 ~ 18GHz)	AMF-7D-00101800-30-10P	1451710	11/03/2013	11/02/2014
SIEMIC Labview Radiated Emissions software	V1.0	N/A	N/A	N/A

## Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

### Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.
2. The power supply for the EUT was fed through a 50Ω/50μH EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.

### Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

### Sample Calculation Example

At 20 MHz	limit = 250 μV = 47.96 dBμV
Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB	
Q-P reading obtained directly from EMI Receiver = 40.00 dBμV	
	(Calibrated for system losses)
Therefore, Q-P margin = 47.96 – 40.00 = 7.96	i.e. <b>7.96 dB below limit</b>

## Annex A. iii. RADIATED EMISSIONS TEST DESCRIPTION

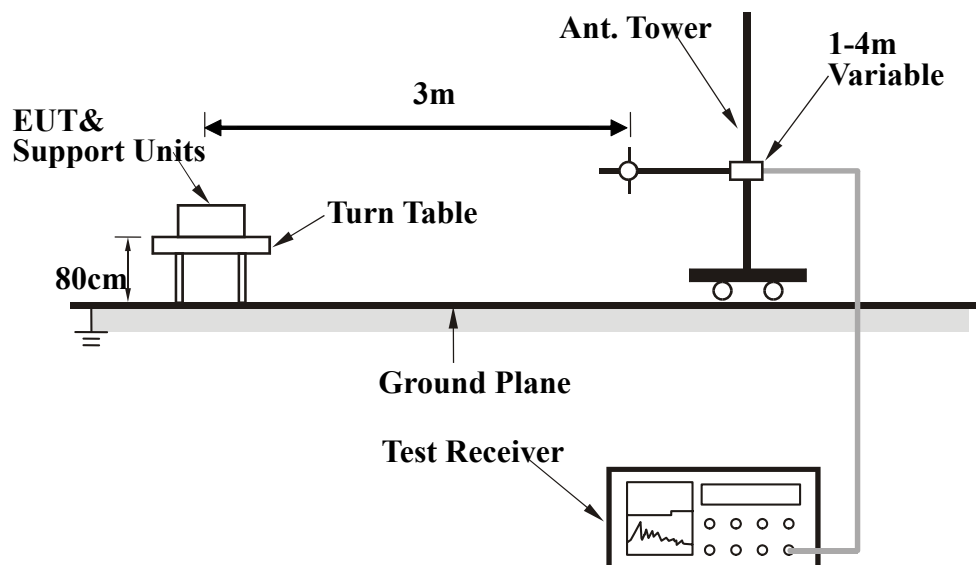
### EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10<sup>th</sup> Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

### Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



## **Test Method**

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

### **Final Radiated Emission Measurement**

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

## **Sample Calculation Example**

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\begin{aligned} \text{Average} &= \text{Peak Value} + \text{Duty Factor or} \\ \text{Set RBW} &= 1\text{MHz, VBW} = 10\text{Hz.} \end{aligned}$$

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.

## **Annex B. EUT AND TEST SETUP PHOTOGRAPHS**

### **Annex B.i. Photograph : EUT External Photo**



All Packages – Front View



EUT - Front View





EUT - Rear View



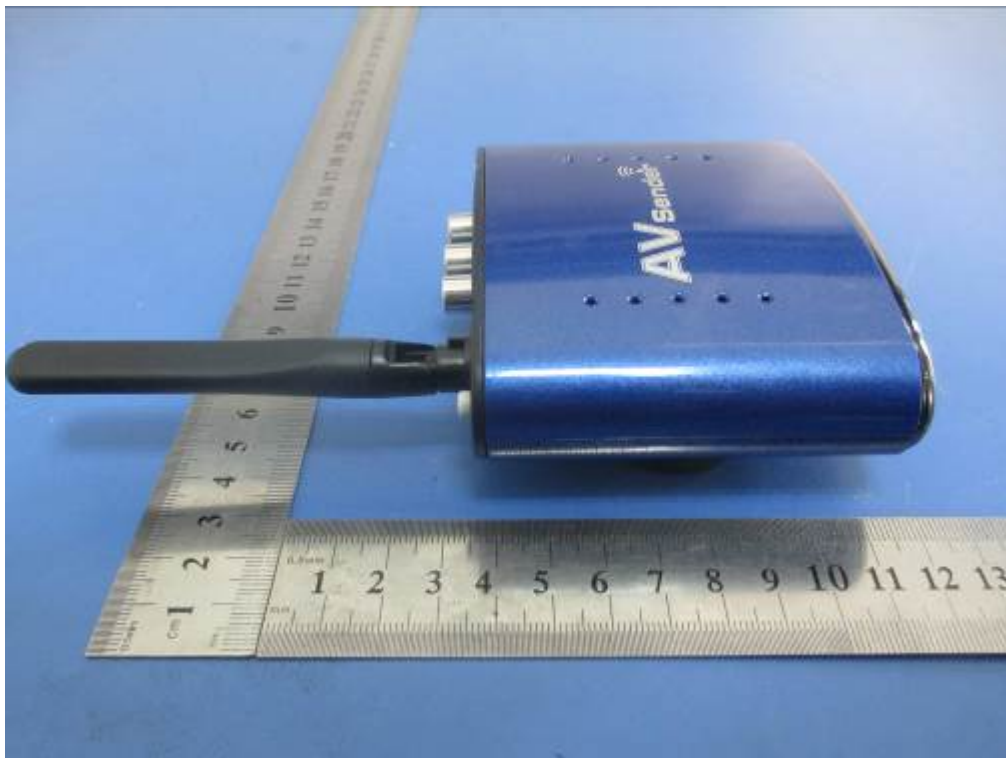
EUT – Top View



EUT – Bottom View (Transmitter)



EUT – Left View

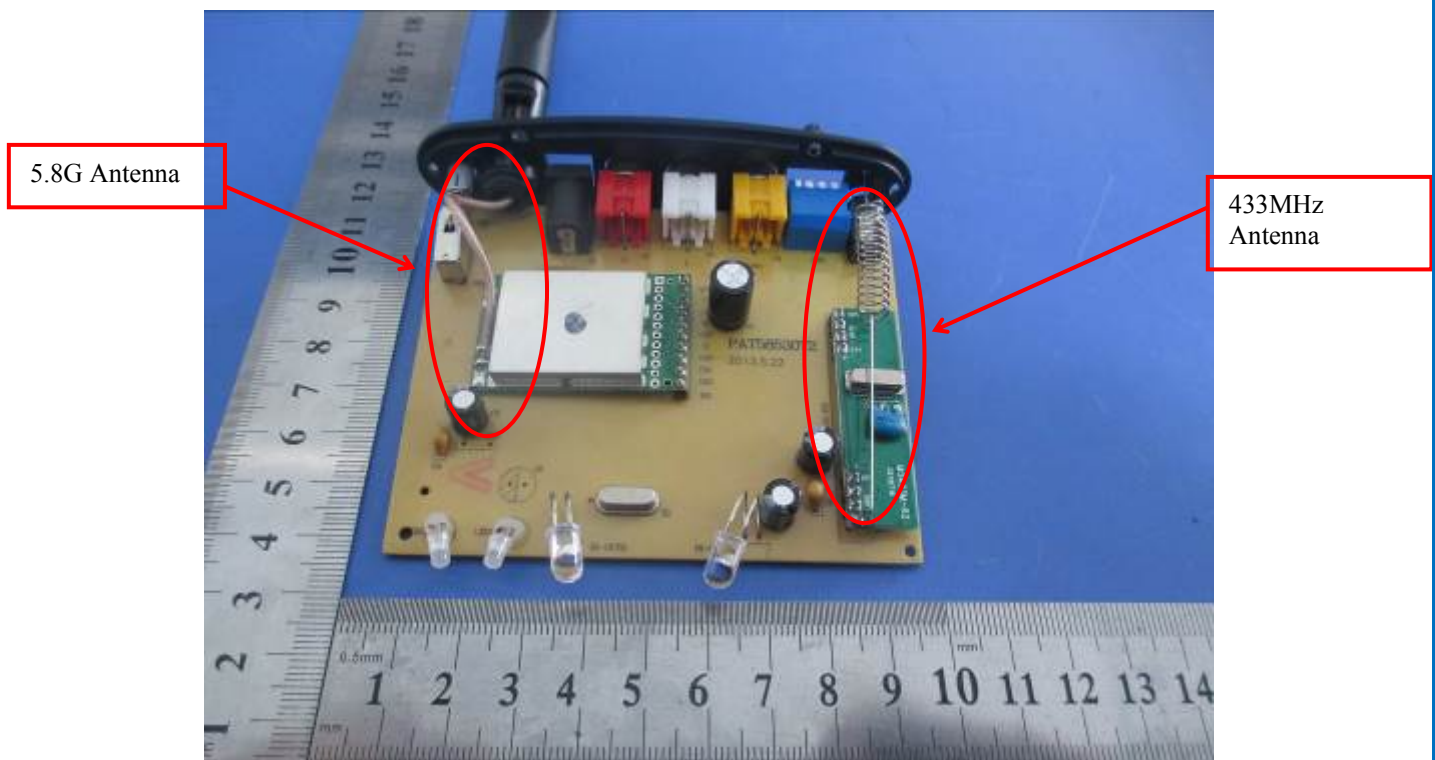


EUT – Right View

**Annex B.ii. Photograph 2: EUT Internal Photo**

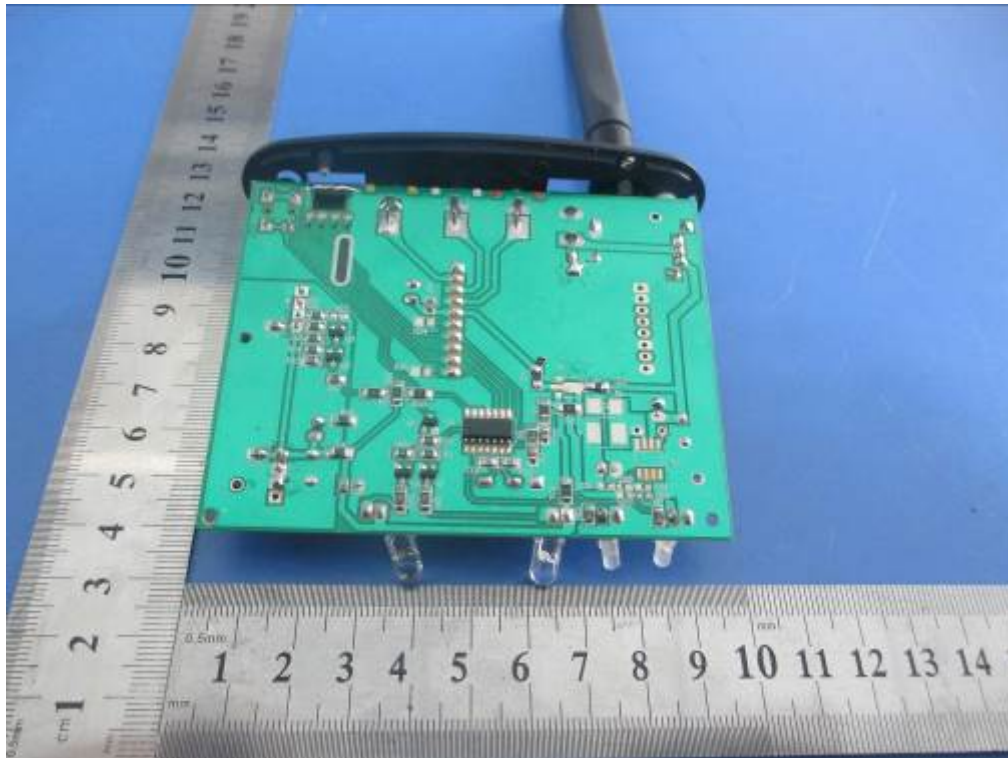


EUT (Transmitter) – Uncover Front View

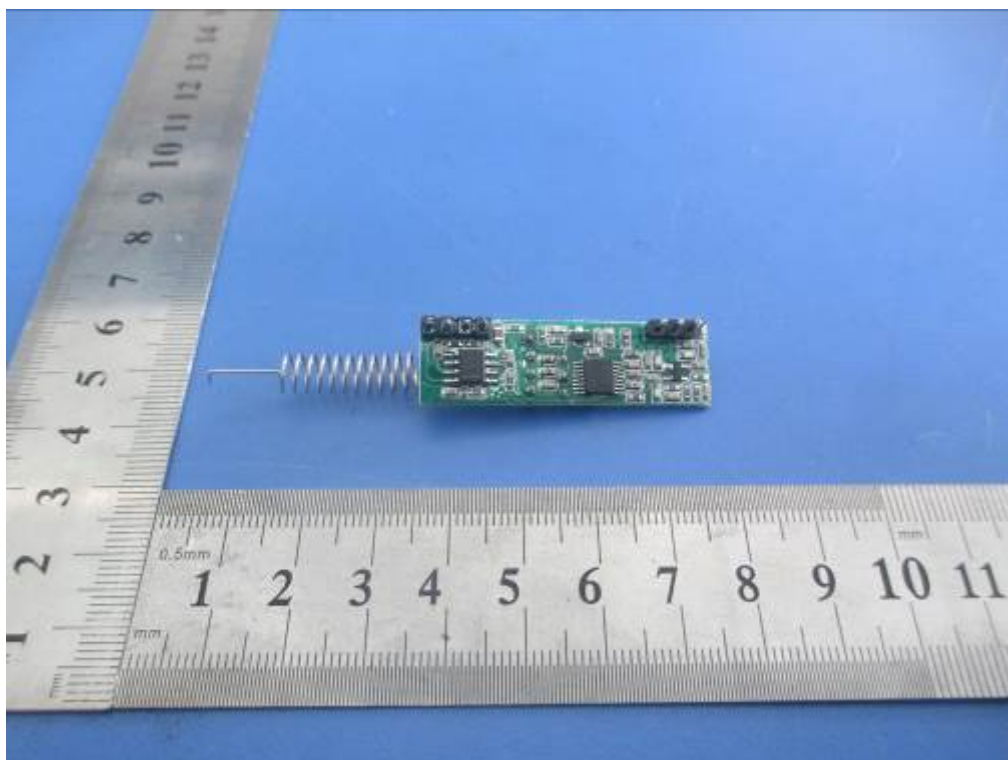


EUT (Transmitter) – PCB 1 Front View

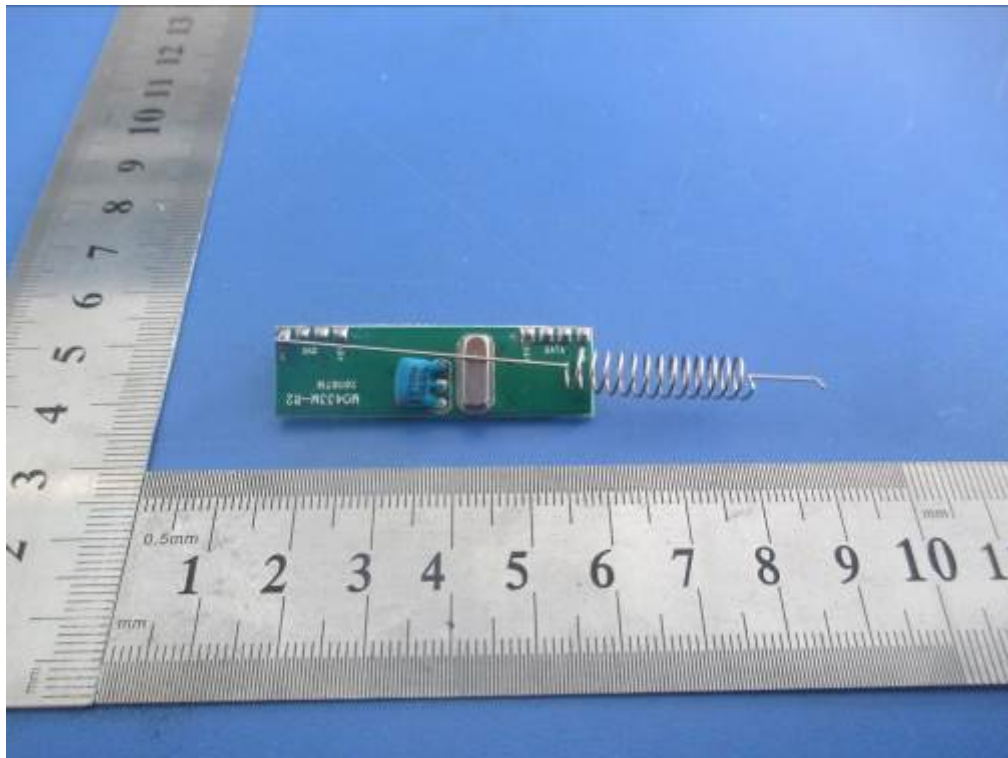




EUT (Transmitter) – PCB 1 Rear View



EUT (Transmitter) – PCB 2 Front View



EUT (Transmitter) – PCB 2 Rear View

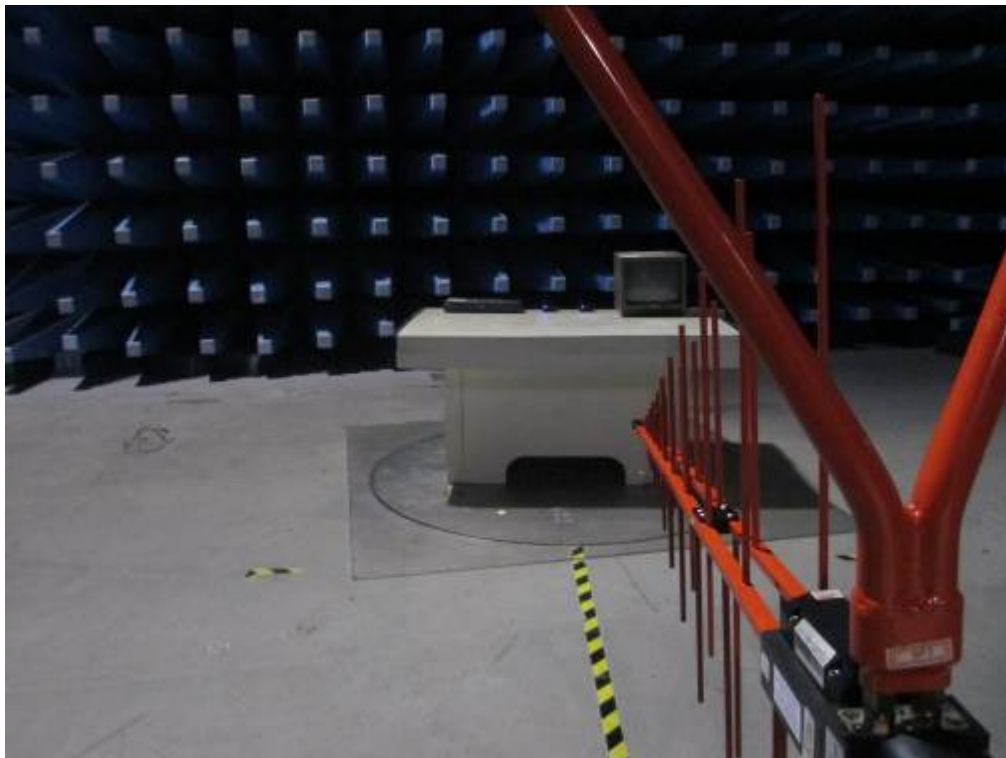
**Annex B.iii. Photograph : Test Setup Photo**



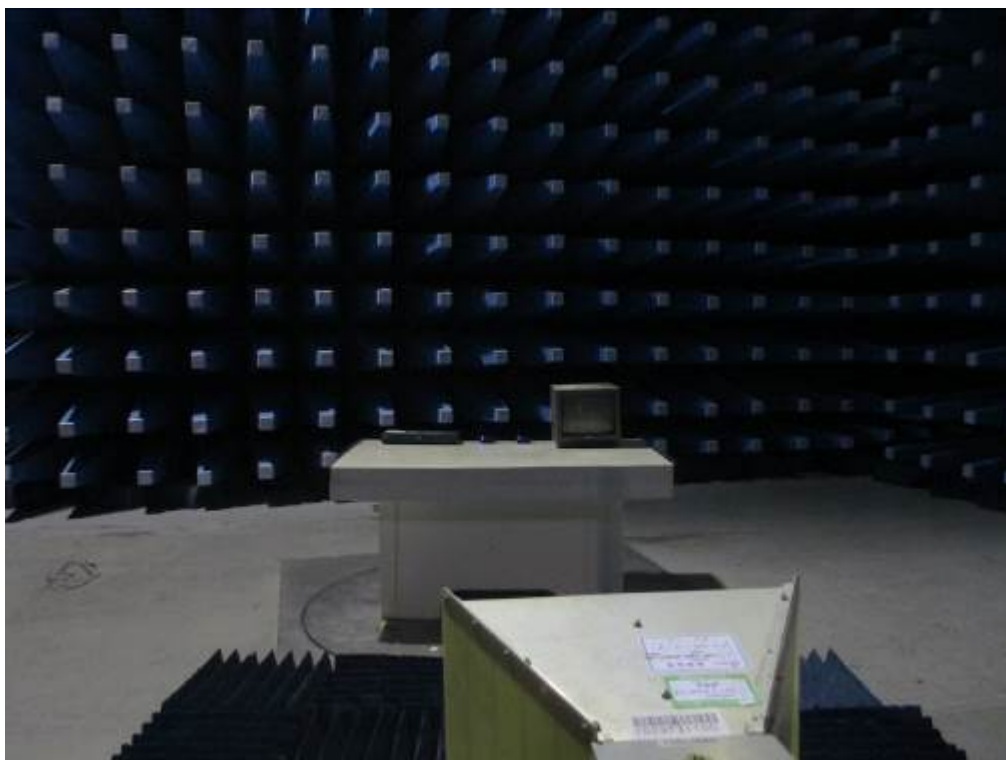
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Emission Test Setup Front View Below 1GHz



Radiated Emission Test Setup Front View Above 1GHz



## Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

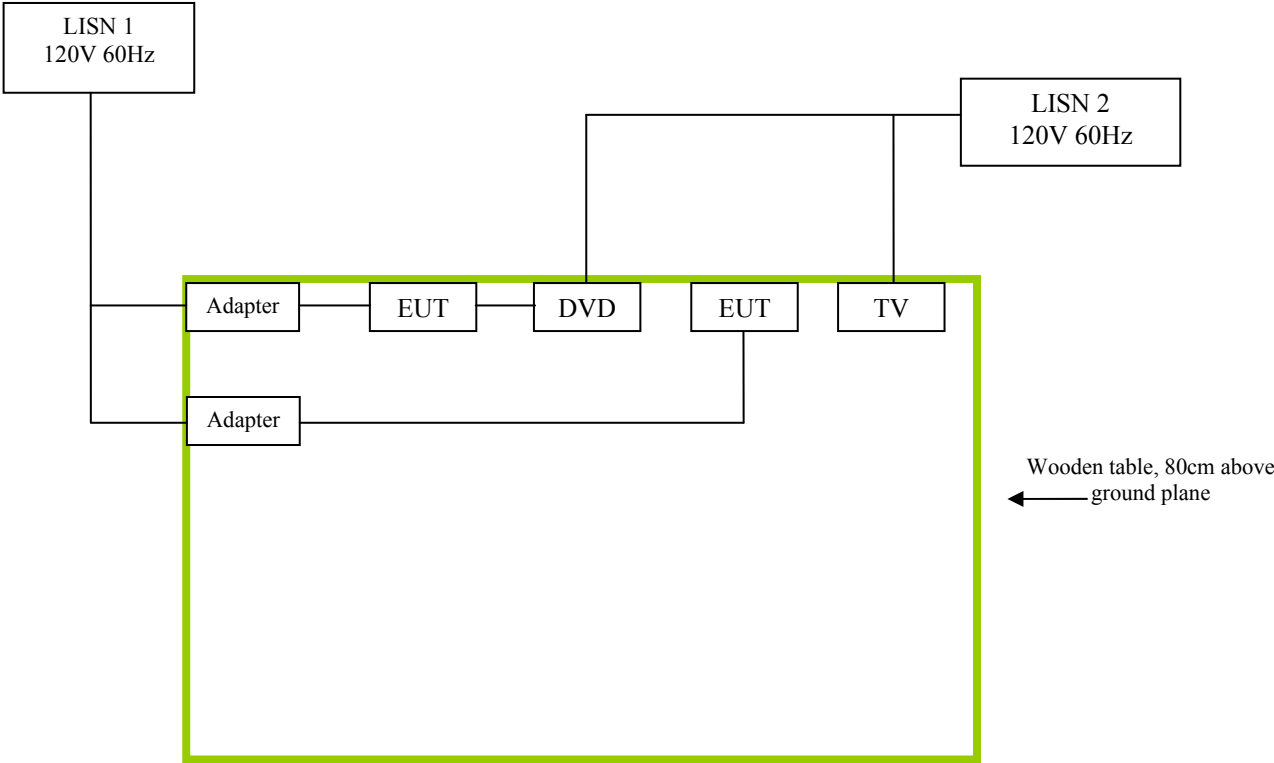
### EUT TEST CONDITIONS

#### Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

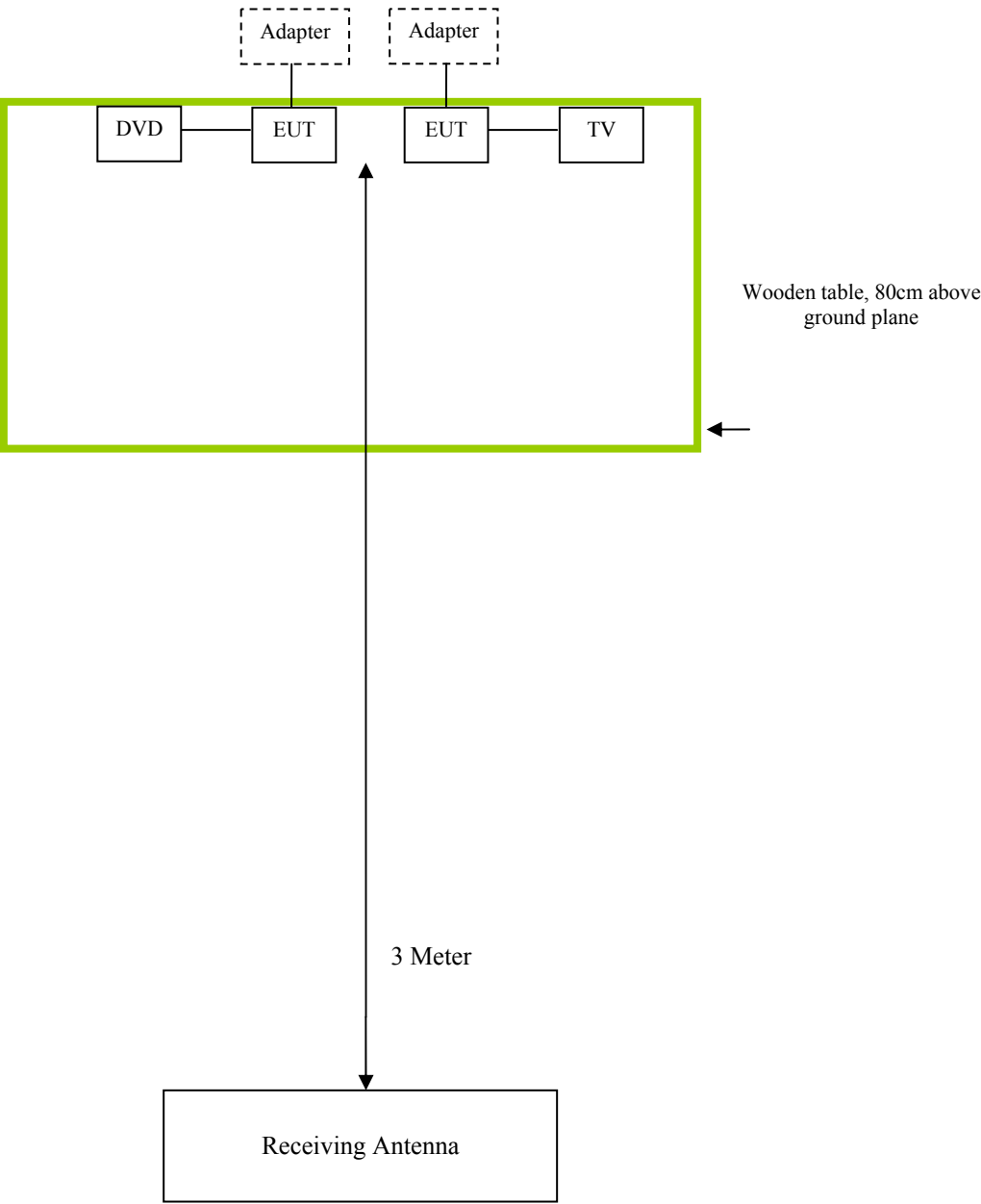
The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description (Including Brand Name)	Model	Calibration Due Date
PANDA	TV	N/A	N/A
SONY	DVD	BDP-S350	N/A

**Block Configuration Diagram for Conducted Emissions**



**Block Configuration Diagram for Radiated Emission**



## **Annex C.ii. EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	TX mode is continuous transmitting with full power.

## **Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST**

**Please see attachment**

**Annex E. DECLARATION OF SIMILARITY**



**深圳市柏旗特科技有限公司**  
Shenzhen pakite Technology Co., Ltd.


To: SIEMIC (Nanjing-China) Laboratories  
NO.2-1,Longcang Dadao, Yuhua Economic Development Zone,  
Nanjing, China

**Statement**

Model number: PAT-530、PAT-550、PAT-220、PAT-240、PAT-260、  
PAT-536、PAT-556、PAT-630、PAT-650

We hereby state that these models are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Your assistance on this matter is highly appreciated.  
Sincerely,

Signature: 

Name : PEIZHEN WU

Title: General Manager

Company Name: SHENZHEN PAKITE TECHNOLOGY CO.,LTD.

Address: M02A, A Block, Chunhui Yuan, Caitian Road, Futian District, Shenzhen, China.

Telephone: +86-755-83366901

Fax No.: +86-755-83366909