
FCC Test Report

Report No.: AGC01585140703FE03

FCC ID : KUTM1
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Alert receiver
BRAND NAME : Skylink
MODEL NAME : M1
CLIENT : Capital Prospect Ltd.
DATE OF ISSUE : Sep.03, 2014
STANDARD(S) : FCC Part 15 Rules
REPORT VERSION : V1.0

Attestation of *Global Compliance*(Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep.03, 2014	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	Capital Prospect Ltd.
Address	1303,Blk B,Veristrong Ind center,36 Apuiwan Street,Fotan,HK
Manufacturer	Capital Prospect Ltd.
Address	1303,Blk B,Veristrong Ind center,36 Apuiwan Street,Fotan,HK
Product Designation	Alert receiver
Brand Name	Skylink
Test Model:	M1
Date of test	Aug.29, 2014 to Sep.02, 2014
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF (2013-03-01)

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.231.

Prepared By

Freddie Duan

Freddie Duan Sep.03, 2014

Checked By

Kidd Yang

Kidd Yang Sep.03, 2014

Authorized By

Solger Zhang

Solger Zhang Sep.03, 2014

2. GENERAL INFORMATION

2.1.PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	433.9MHz
Field Strength(3m)	73.3dBuV/m(AV)@3m
Modulation	ASK
Number of channels	1
Hardware Version	N/A
Software Version	N/A
Antenna Designation	Fixed antenna
Power Supply	DC 6.0V by Battery AC 120V (Output:DC12V 100mA) by adapter

2.2. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: KUTM1** filing to comply with Section 15.231of the FCC Part 15, Subpart C Rules.

2.3. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.4. SPECIAL ACCESSORIES

Refer to section 5.1.

2.5. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB

Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting mode
Note: 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode. 3.The EUT will disable the TX within 5s after detecting the last matched signal. 4. Only the worst case was reported.	

5. SYSTEM TEST CONFIGURATION

5.1. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	N/A	N/A	N/A	N/A

5.2. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.227	Conducted Emission	Compliant
§15.231(a)(1)	Manually	Compliant
§15.231(a)(2)	automatically	N/A
§15.231(a)(3)	periodic	N/A
§15.231(a)(4)	emergency(alarm)	N/A
§15.231(a)(5)	security	N/A
§15.231(b)	Average Factor	Compliant
§15.231(b)&§15.209	Field Strength of Fundamental and Spurious Emission	Compliant
§15.231(c)	Bandwidth	Compliant
§15.231(d)	Frequency Tolerance	N/A
§15.231(e)	Field Strength(periodic trasmitter)	N/A

6. TEST FACILITY

Site	Attestation of Global Compliance(Shenzhen) Co., Ltd
Location	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.
FCC Registration Number	259865

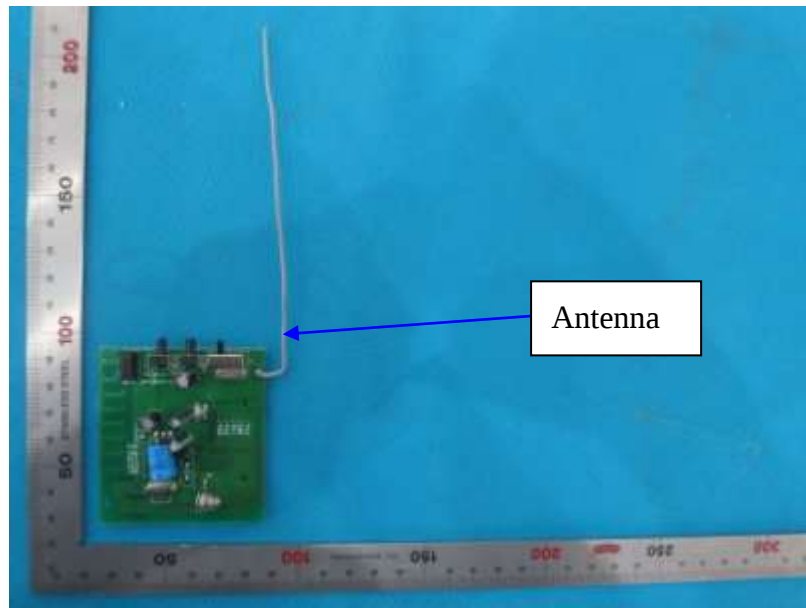
ALL TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
RF attenuator	N/A	RFA20db	68	N/A	N/A
Spectrum Analyzer	Agilent	E4440A	US41421290	07/16/2014	07/15/2015
Amplifier	EM	EM30180	0607030	02/27/2014	02/26/2015
Horn Antenna	EM	EM-AH-10180	67	04/19/2014	04/18/2015
Biological Antenna	A.H. Systems Inc.	SAS-521-4	26	06/06/2014	06/05/2015
Loop Antenna	Daze	ZN30900N	SEL0097	07/16/2014	07/15/2015
Isolation Transformer	LETEAC	LTBK	--	07/16/2014	07/15/2015
RF Cable	SUIRONG	30MHz-18GHz	N/A	07/18/2014	07/18/2015

7. ANTENNA REQUIREMENT

According to §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 EuT has fixed antenna, which accordance to the above sections, is considered sufficient to comply with the provisions of these sections. Please see EuT photo for details.



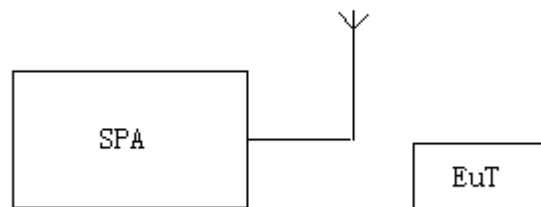
The requirements of section 15.203 are **FULFILLED**.

8. PROVISION FOR MOMENTARY OPERATION

8.1 MEASUREMENT PROCEDURE

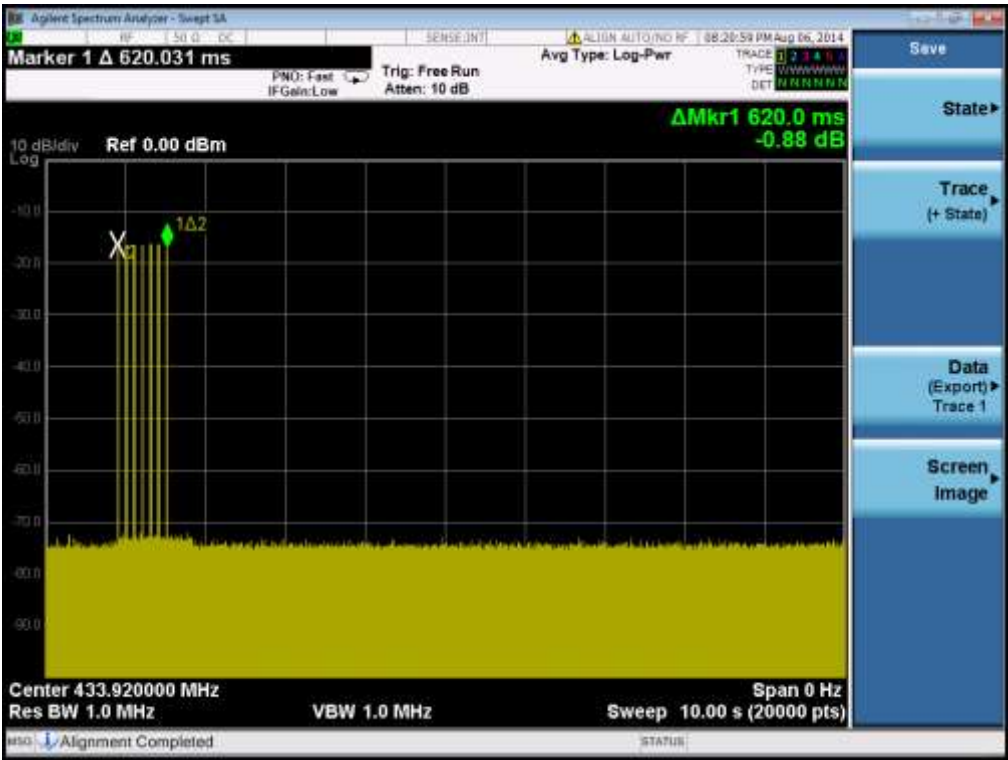
1. Set the parameters of SPA as below:
Centrefrequency = Operation Frequency
RBW=VBW=1MHz
Span: 0Hz
Sweep time: 10S
2. Set the EUT to transmit by manually operated. Use the "View" function of SPA to find the transmission time of being released.
3. Record the data and Reported.

8.2 TEST SETUP



8.3 TEST RESULT

The time of stopping transmission after the last matched signal detection(s)	Limit (s)
0.620	5.00



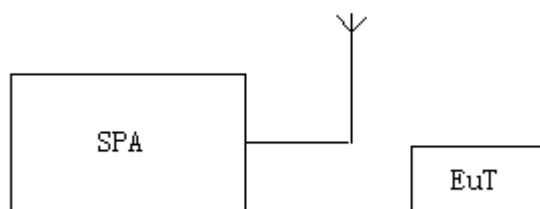
RESULT: PASS

9. DUTY CYCLE CORRECTION FACTOR

9.1 MEASUREMENT PROCEDURE

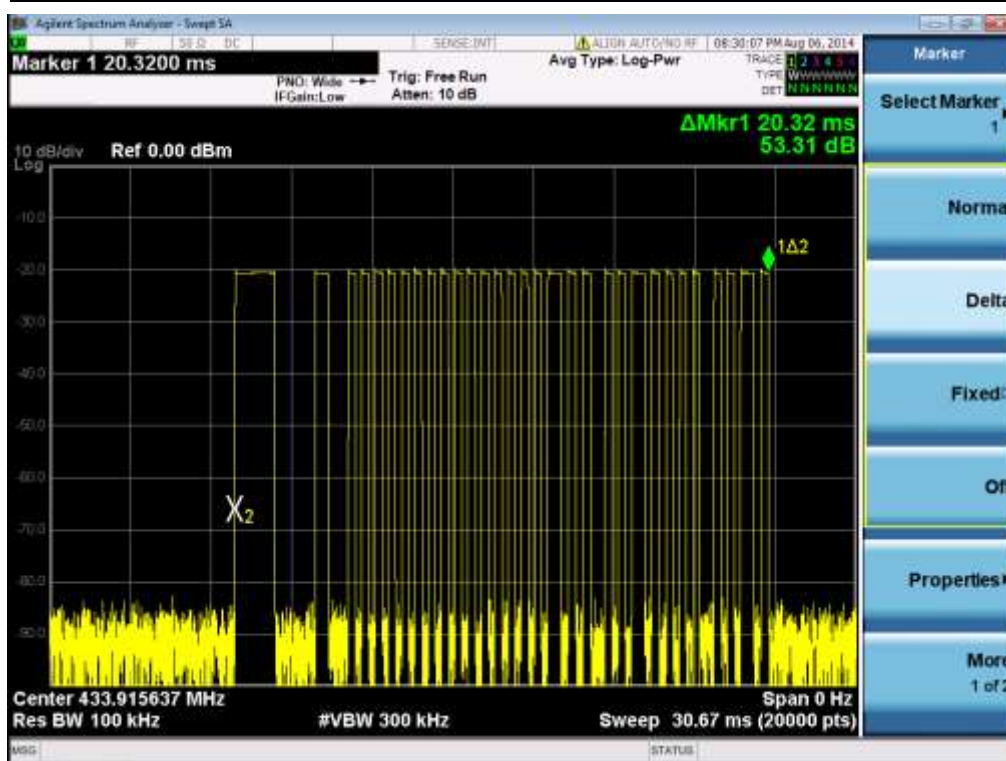
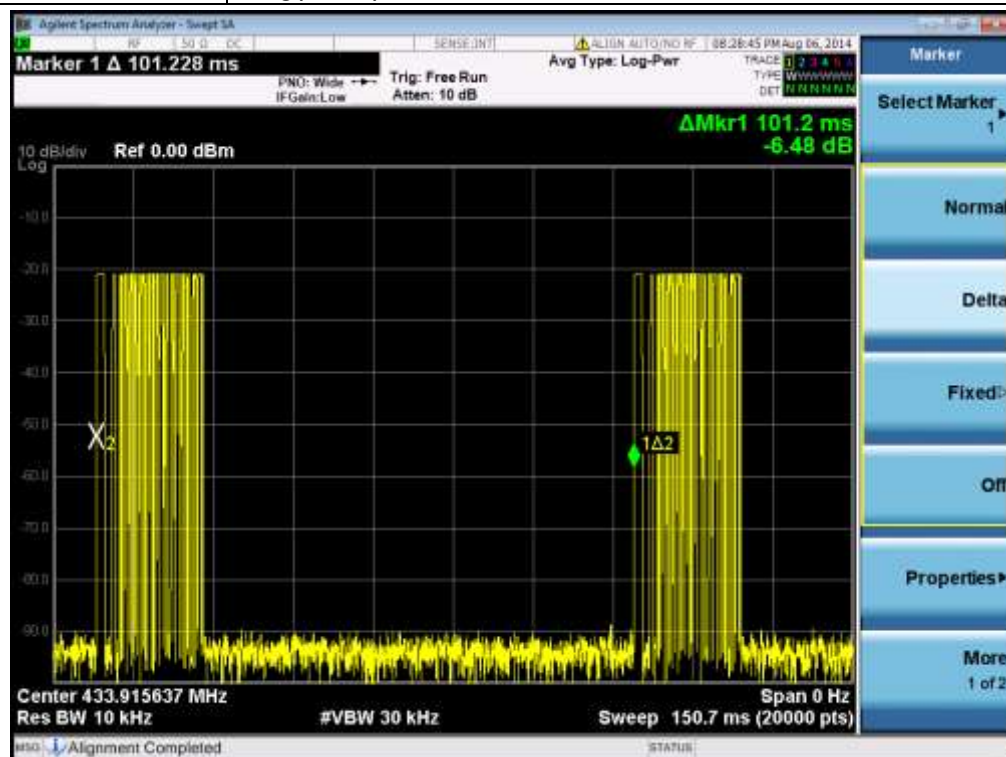
1. Set the parameters of SPA as below:
Centrefrequency = Operation Frequency
RBW=VBW=1MHz
Span: 0Hz
Sweep time: more than two pulse trains or more than each type of pulse occupancy time
2. Set the EUT to transmit by manually operated. Use the “Delta mark” function of SPA to find the period time between two pulse trains and each type of pulse occupancy time.
3. Record the plots and Reported.

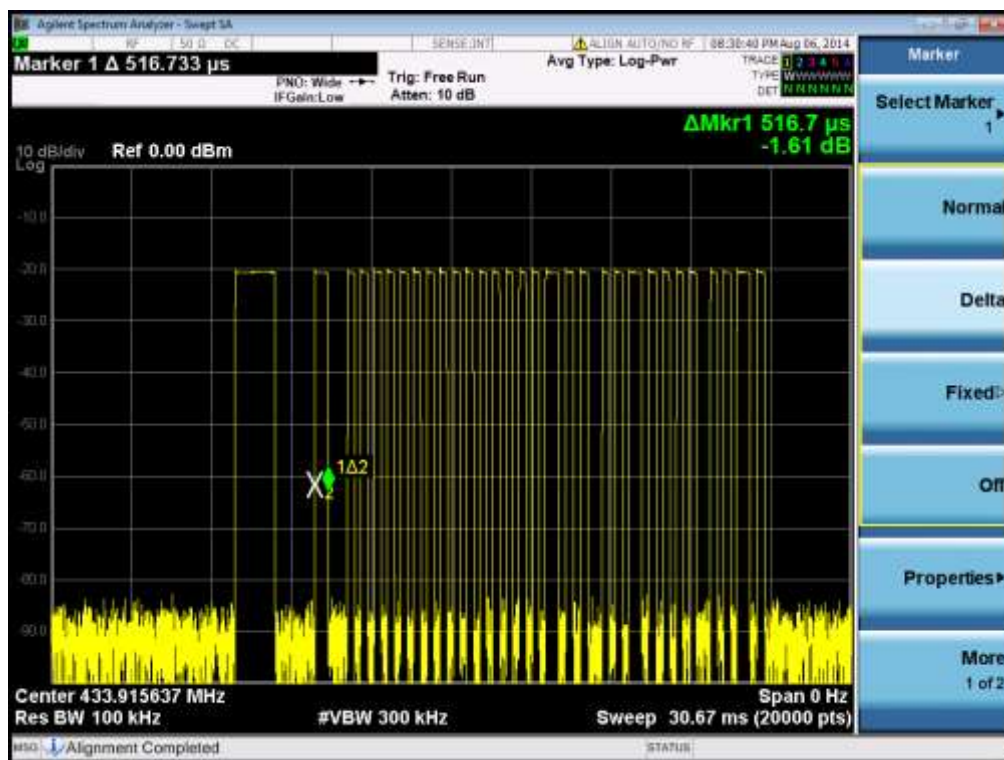
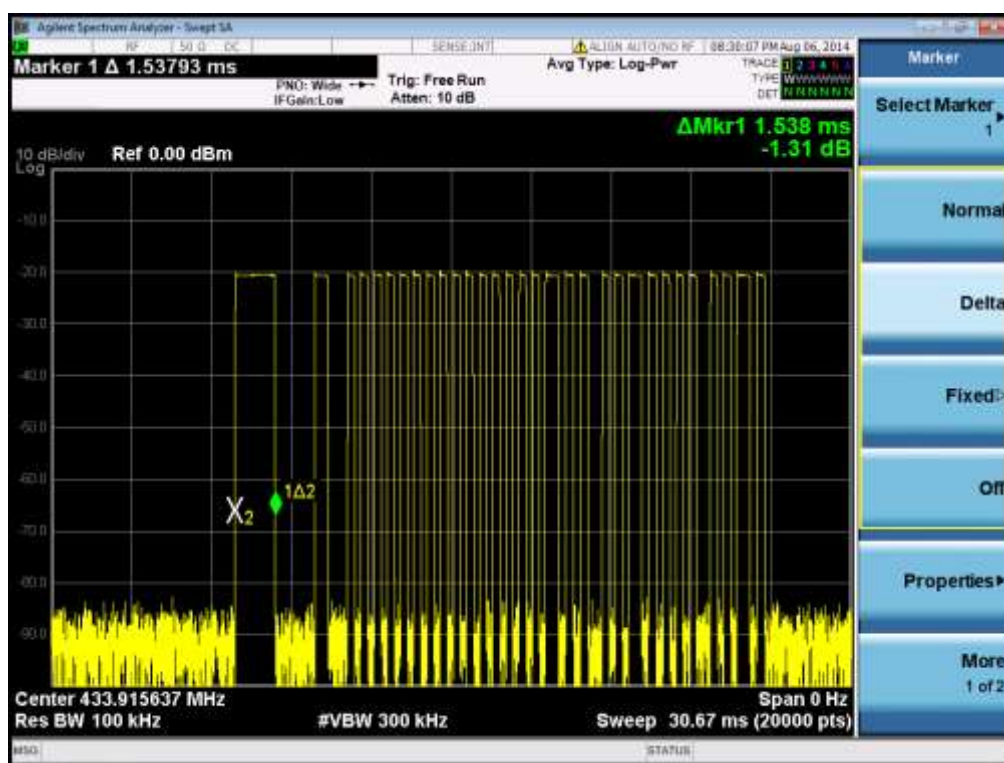
9.2 TEST SETUP

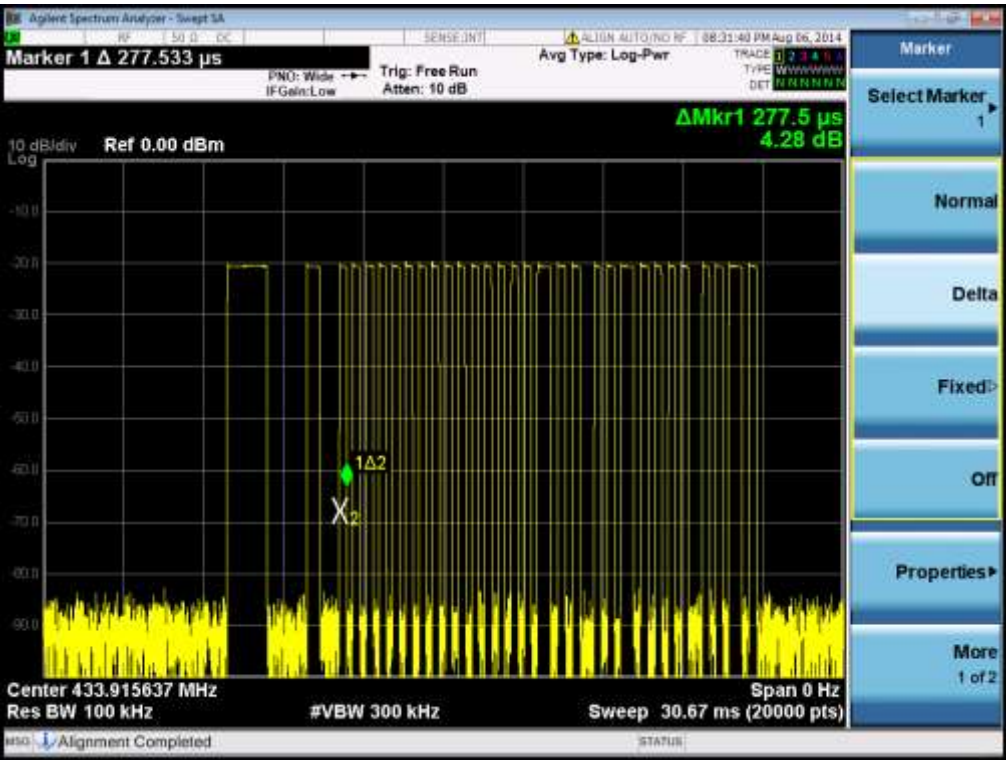


9.3 TEST RESULT

Duty Cycle:	$(1.538\text{ms} \times 1 + 0.5167\text{ms} \times 4 + 0.2775\text{ms} \times 26) / 100\text{ms} = 0.108$
Duty Cycle Correction Factor:	$20\lg(0.108) = -19.33\text{dB}$







10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. 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.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions below 1GHz, use 120KHz RBW and VBW $\geq$ 3RBW for QP reading.
7. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
8. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
9. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
10. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
11. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
12. Only the worst case is reported.

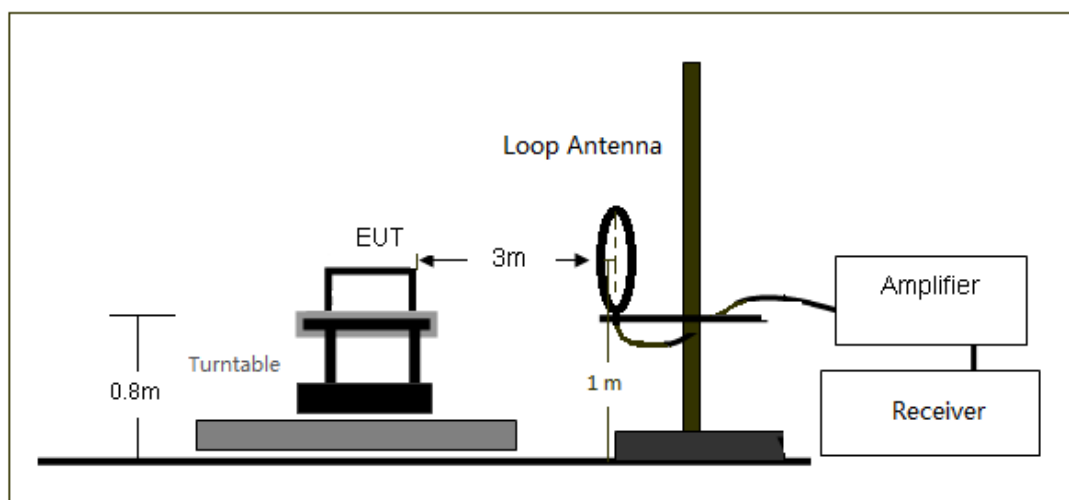
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

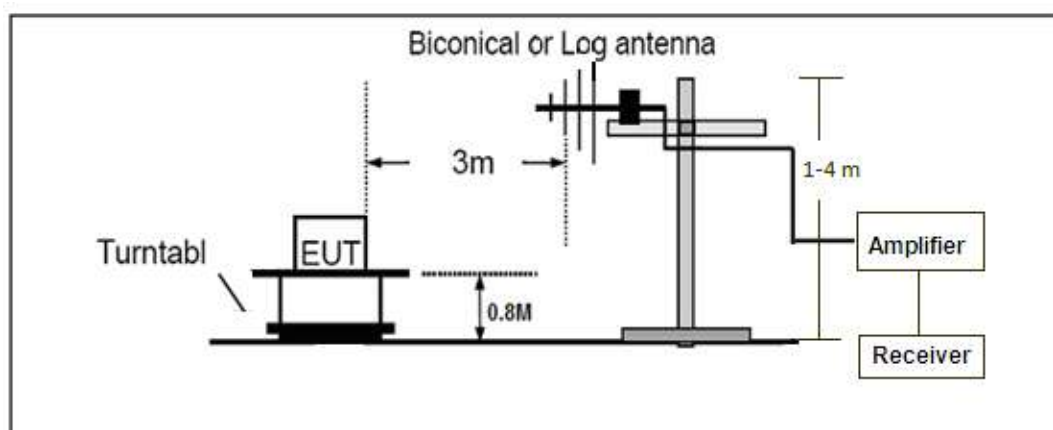
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP

10.2.TEST SETUP

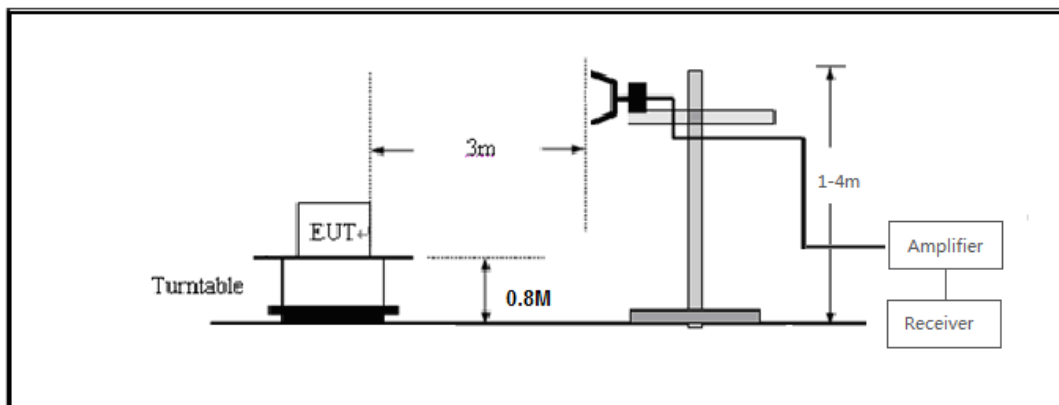
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

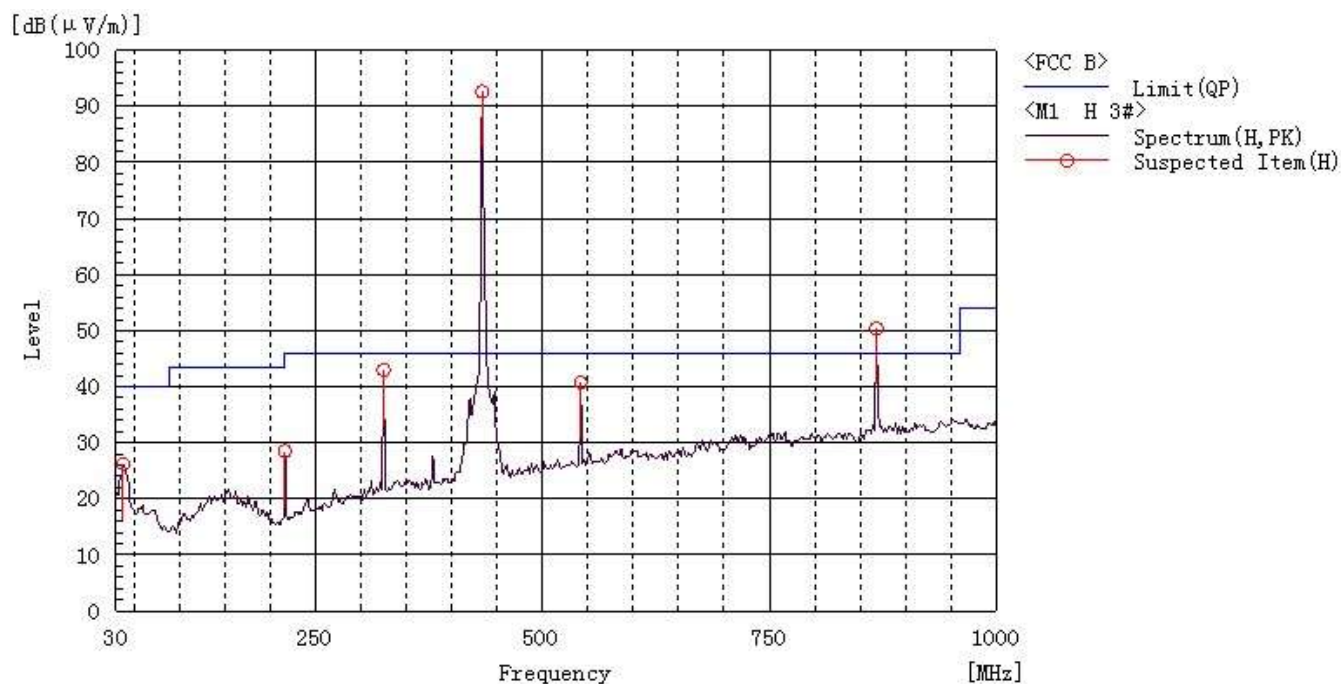


10.3. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ-Horizontal

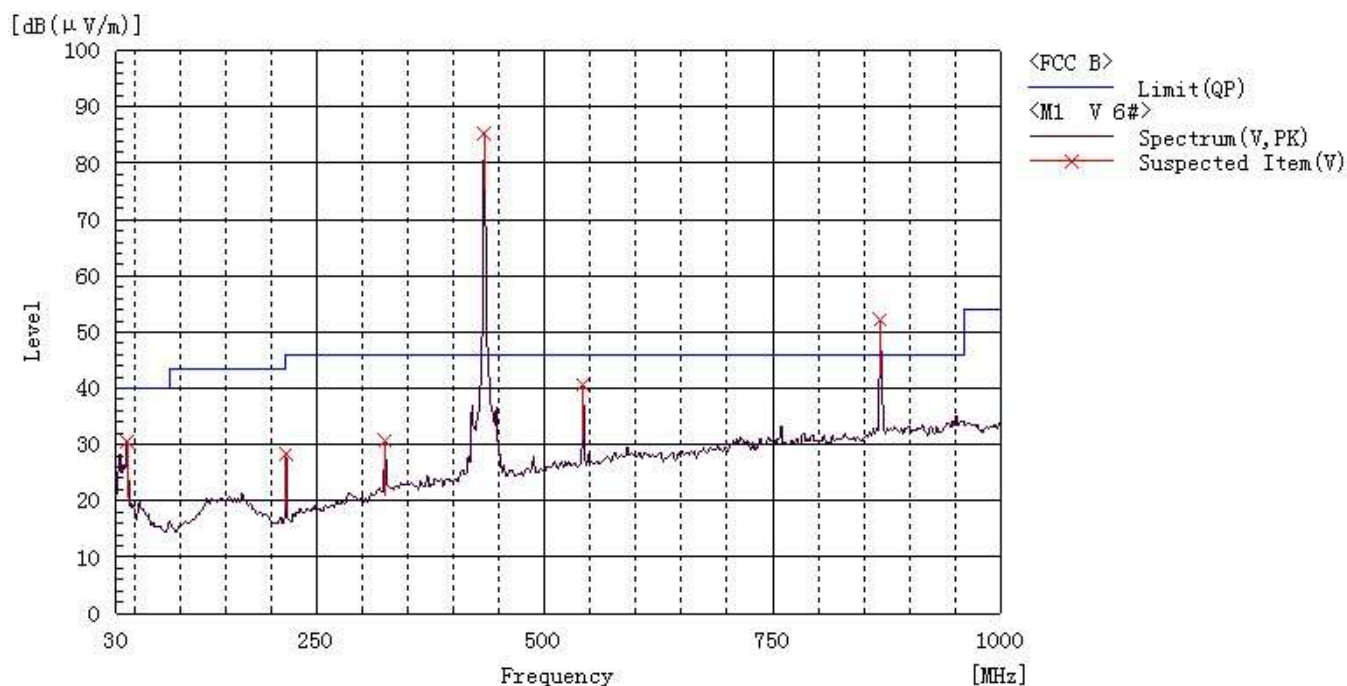


Frequency MHz	Polarization	Reading dB(uV)	Factor dB(1/m)	PK Level dB(uV/m)	Limit dB(uV/m) PK	Margin dB PK	Pass/Fail	Detector	Remark
433.92	H	73.1	19.5	92.6	100.8	-8.2	Pass	PK	Fundamental
867.80	H	22.7	27.7	50.4	80.8	-30.4	Pass	PK	Harmonic

Frequency MHz	Polarization	PK Level dB(uV/m)	Duty Cycle Correction Factor: dB	AV Level dB(uV/m)	Limit dB(uV/m) AV	Margin dB PK	Pass/Fail	Detector	Remark
433.92	H	92.6	-19.33	73.3	80.8	-7.5	Pass	PK	Fundamental
867.80	H	50.4	-19.33	31.1	60.8	-29.7	Pass	PK	Harmonic

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m)	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg	Detector
324.880	H	26.0	17.0	43.0	46.0	3.0	Pass	100.2	344.6	PK
542.160	H	19.6	21.2	40.8	46.0	5.2	Pass	200.0	44.8	PK

RADIATED EMISSION BELOW 1GHZ-Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	PK Level dB(uV/m)	Limit dB(uV/m) PK	Margin dB PK	Pass/Fail	Detector	Remark
433.92	V	65.8	19.5	85.3	100.8	-15.5	Pass	PK	Fundamental
867.84	V	24.5	27.7	52.2	80.8	-28.6	Pass	PK	Harmonic

Frequency MHz	Polarization	Level dB(uV/m)	Duty Cycle Correction Factor: dB	AV Level dB(uV/m)	Limit dB(uV/m) AV	Margin dB PK	Pass/Fail	Detector	Remark
433.92	V	85.3	-19.33	66.0	80.8	-14.8	Pass	PK	Fundamental
867.84	V	52.2	-19.33	32.9	60.8	-27.9	Pass	PK	Harmonic

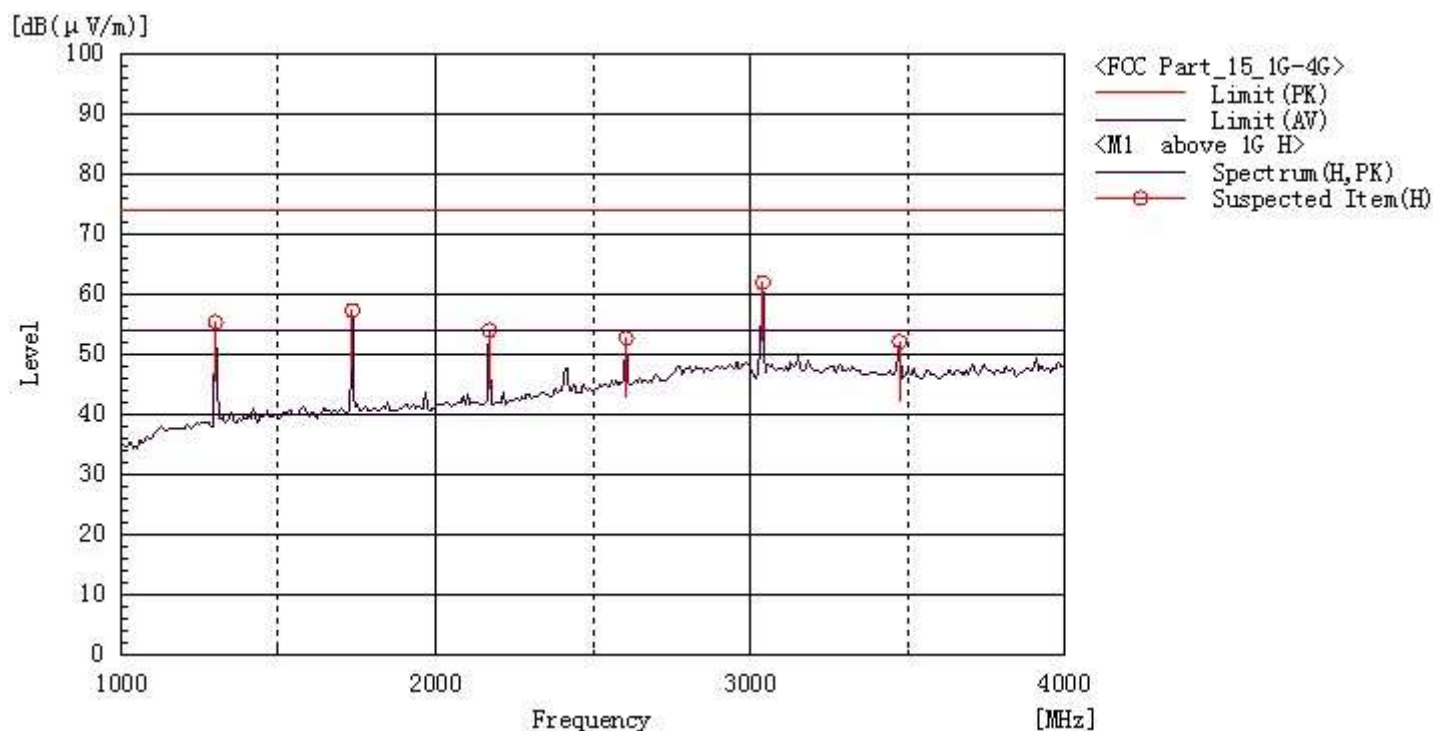
RESULT: PASS

Note: 1. Factor=Antenna Factor+ Cable loss-Amplifier gain, Margin=Measurement-Limit.

2. AV Level = PK Level + Duty cycle correction factor.

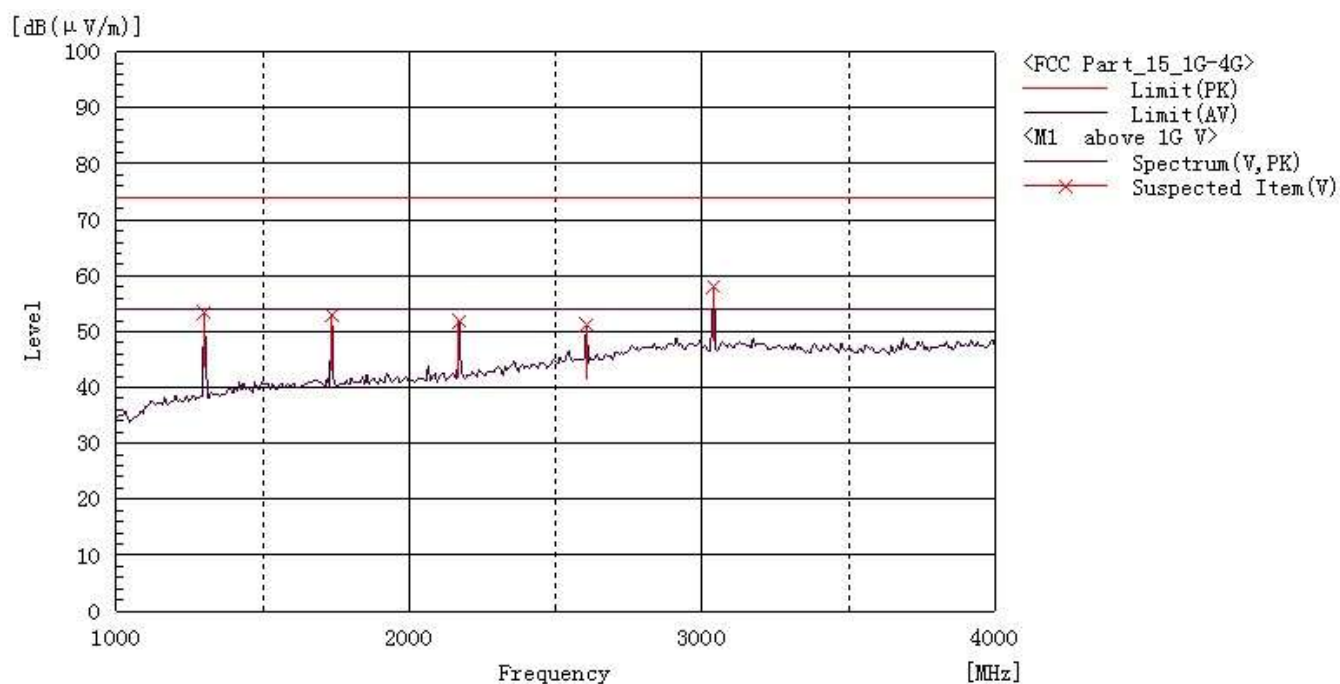
3. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) –Horizontal



Frequency MHz	Polarization	Reading dBm	Factor dB (1/m)	PK Level dBuV/m	Limit dBuV/m PK	Margin dB PK	Pass/Fail	Detector	Remark
1301.652	H	60.7	-5.4	55.3	74.0	-18.7	Pass	PK	Harmonic
1735.000	H	60.5	-3.3	57.2	80.8	-23.6	Pass	PK	Harmonic
2170.000	H	56.1	-2.1	54.0	80.8	-26.8	Pass	PK	Harmonic
2605.000	H	51.9	0.7	52.6	80.8	-28.2	Pass	PK	Harmonic
3040.000	H	58.2	3.7	61.9	80.8	-18.9	Pass	PK	Harmonic
3475.000	H	47.9	4.2	52.1	80.8	-25.5	Pass	PK	Harmonic
Frequency MHz	Polarization	PK Level dB(uV/m)	Duty Cycle Correction Factor: dB	AV Level dBuV/m	Limit dBuV/mA V	Margin dB AV	Pass/Fail	Detector	Remark
1301.652	H	55.3	-19.33	36.0	54.0	-18.0	Pass	PK	Harmonic
1735.000	H	57.2	-19.33	37.9	60.8	-22.9	Pass	PK	Harmonic
2170.000	H	54.0	-19.33	34.7	60.8	-26.1	Pass	PK	Harmonic
2605.000	H	52.6	-19.33	33.3	60.8	-27.5	Pass	PK	Harmonic
3040.000	H	61.9	-19.33	42.6	60.8	-18.2	Pass	PK	Harmonic
3475.000	H	52.1	-19.33	36.0	60.8	-24.8	Pass	PK	Harmonic

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) –Vertical



Frequency MHz	Polarization	Level dB(uV/m)	Factor dB (1/m)	PK Level dBm	Limit dBm PK	Margin dB PK	Pass/Fail	Detector	Remark
1301.541	V	58.8	-5.4	53.4	74.0	-20.6	Pass	PK	Harmonic
1735.000	V	56.1	-3.3	52.8	80.8	-28.0	Pass	PK	Harmonic
2170.000	V	54.0	-2.1	51.9	80.8	-28.9	Pass	PK	Harmonic
2605.000	V	50.6	0.7	51.3	80.8	-29.5	Pass	PK	Harmonic
3040.000	V	54.3	3.7	58.0	80.8	-22.8	Pass	PK	Harmonic
Frequency MHz	Polarization	PK Level dB(uV/m)	Duty Cycle Correction Factor: dB	Level dBuV/m	Limit dBuV/mA V	Margin dB AV	Pass/Fail	Detector	Remark
1301.541	V	53.4	-19.33	34.1	54.0	-19.9	Pass	PK	Harmonic
1735.000	V	52.8	-19.33	33.5	60.8	-27.3	Pass	PK	Harmonic
2170.000	V	51.9	-19.33	32.6	60.8	-28.2	Pass	PK	Harmonic
2605.000	V	51.3	-19.33	32.0	60.8	-28.8	Pass	PK	Harmonic
3040.000	V	58.0	-19.33	38.7	60.8	-22.1	Pass	PK	Harmonic

Note: Other emissions have 20dB margin. No recording in the test report.

Factor=Antenna Factor+ Cable loss-Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

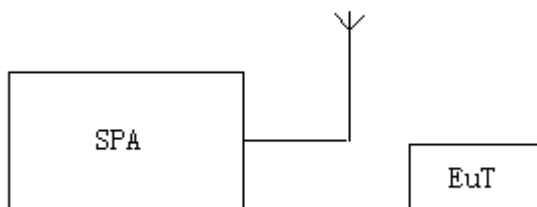
RESULT: PASS

11. BANDWIDTH

11.1. MEASUREMENT PROCEDURE

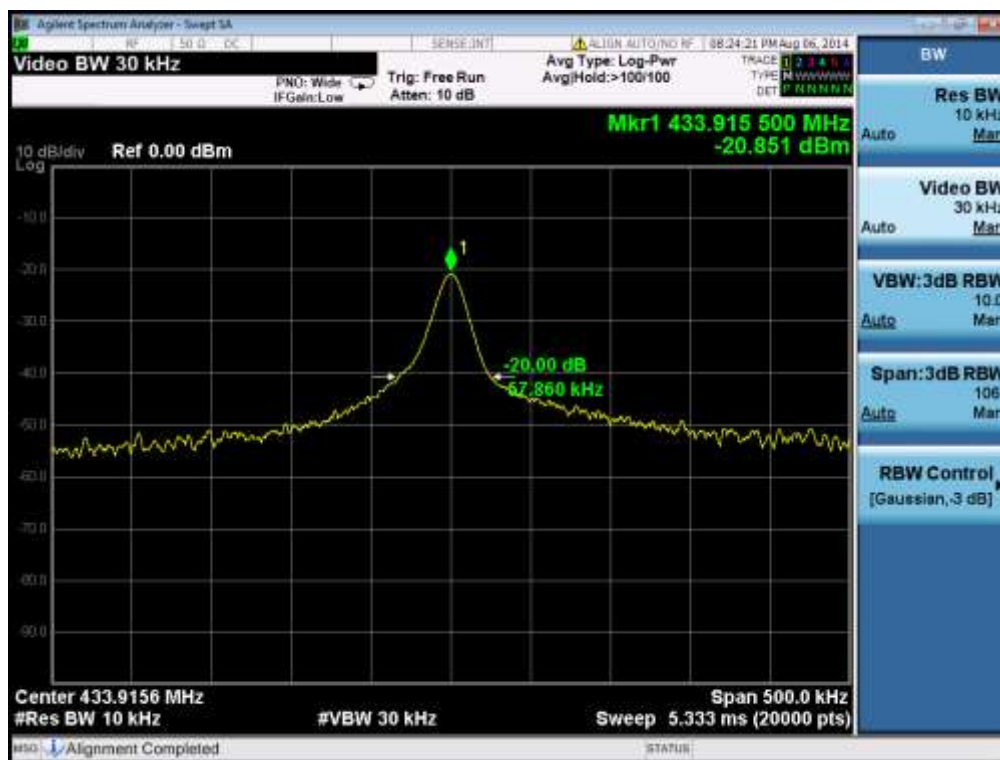
1. Set the parameters of SPA as below:
Centrefrequency = Operation Frequency
RBW=10KHz
VBW=30KHz
Span: 500KHz
Sweep time: Auto
2. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the “N dB down” function of SPA to define the bandwidth.
3. Record the plots and Reported.

11.2. TEST SETUP



11.3. TEST RESULT

OBW	LIMIT	RESULT
57.860KHz	1084.8KHz	Pass
Note: Limit= Operation Frequency x0.25%		



12. FCC LINE CONDUCTED EMISSION TEST

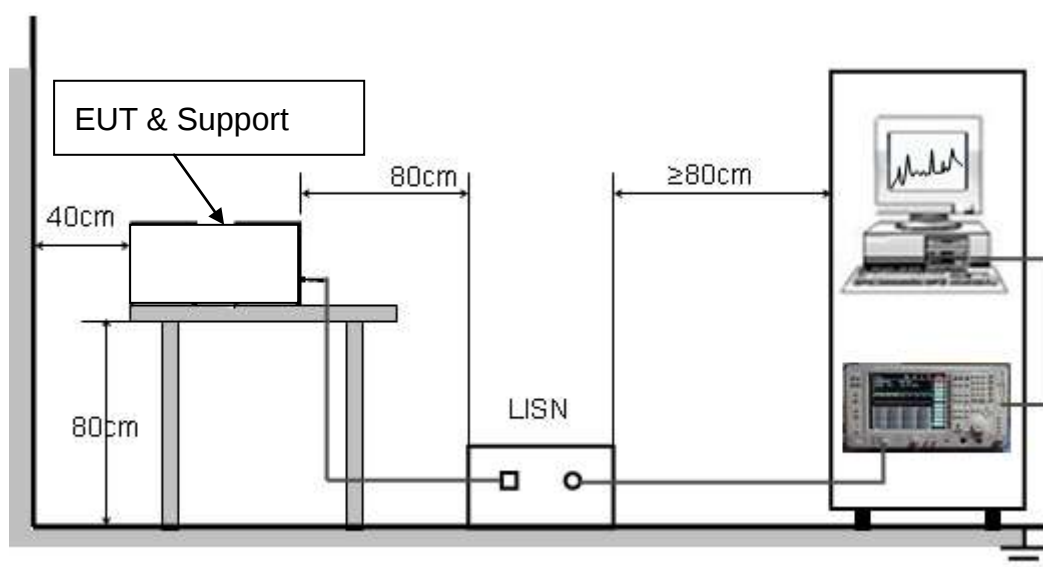
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by PC which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

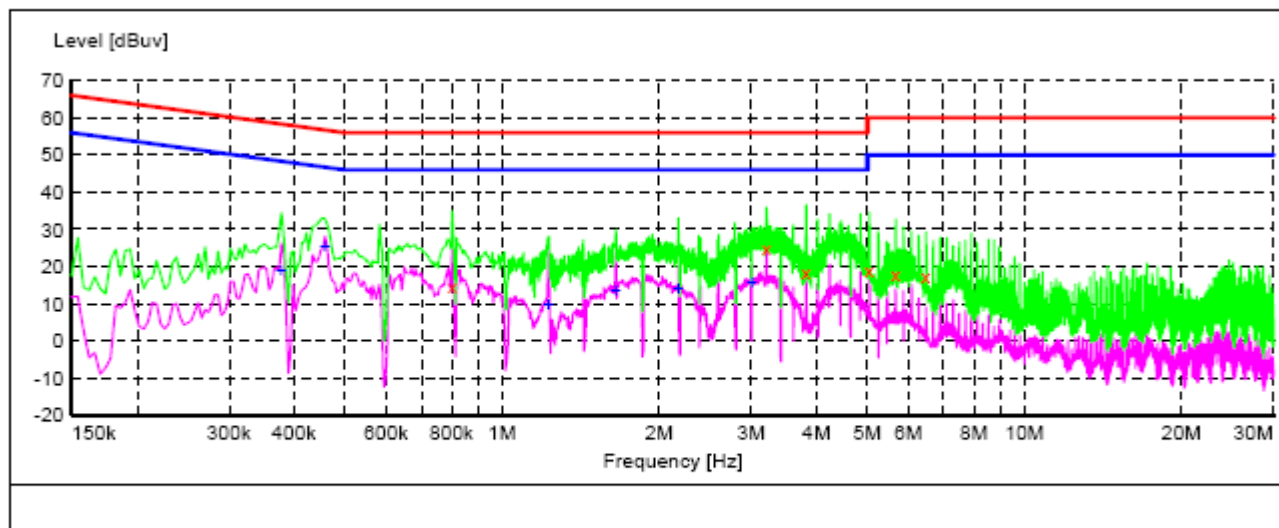
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 9k-30M Voltage



MEASUREMENT RESULT:

2014-9-3 10:10

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.802000	14.80	0.2	56	41.2	QP	L1	FLO	ON
3.206000	25.00	0.3	56	31.0	QP	L1	FLO	ON
3.822000	18.40	0.3	56	37.6	QP	L1	FLO	ON
5.050000	18.70	0.4	60	41.3	QP	L1	FLO	ON
5.666000	17.90	0.4	60	42.1	QP	L1	FLO	ON
6.478000	17.10	0.4	60	42.9	QP	L1	FLO	ON

MEASUREMENT RESULT:

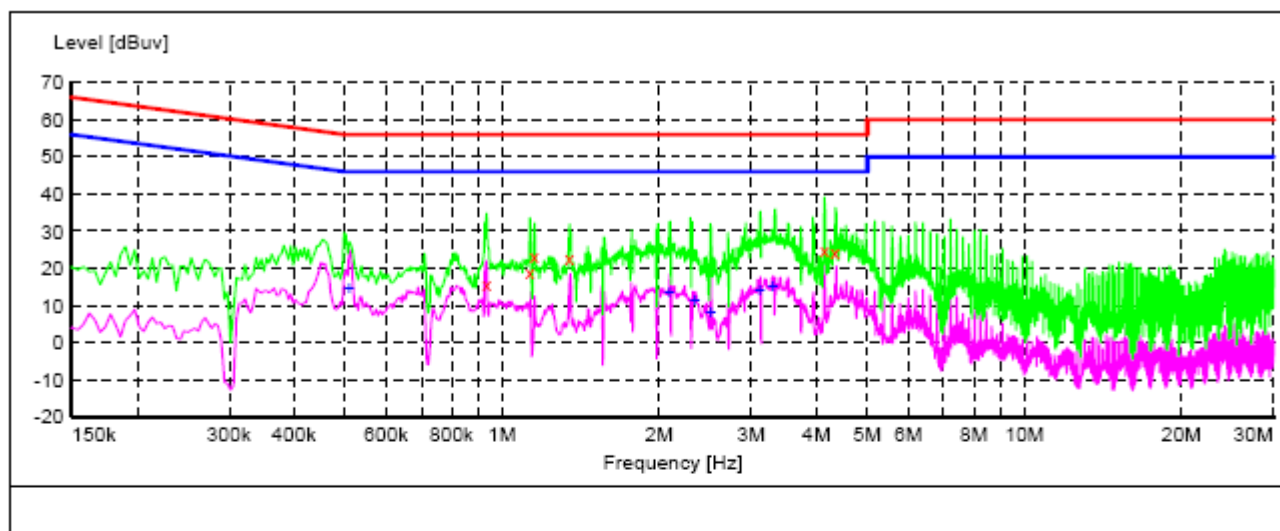
2014-9-3 10:10

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.378000	19.00	0.2	48	29.3	AV	L1	FLO	ON
0.458000	25.60	0.2	47	21.1	AV	L1	FLO	ON
1.226000	9.80	0.2	46	36.2	AV	L1	FLO	ON
1.650000	13.80	0.2	46	32.2	AV	L1	FLO	ON
2.174000	14.20	0.3	46	31.8	AV	L1	FLO	ON
3.010000	15.70	0.3	46	30.3	AV	L1	FLO	ON

Line Conducted Emission Test Line 2-N

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 9k-30M Voltage

**MEASUREMENT RESULT:**

2014-9-3 10:18

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.934000	15.70	0.2	56	40.3	QP	N	FLO	ON
1.130000	18.90	0.2	56	37.1	QP	N	FLO	ON
1.154000	23.40	0.2	56	32.6	QP	N	FLO	ON
1.346000	22.50	0.2	56	33.5	QP	N	FLO	ON
4.142000	24.90	0.3	56	31.1	QP	N	FLO	ON
4.342000	24.20	0.3	56	31.8	QP	N	FLO	ON

MEASUREMENT RESULT:

2014-9-3 10:18

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.510000	14.40	0.2	46	31.6	AV	N	FLO	ON
2.094000	13.80	0.3	46	32.2	AV	N	FLO	ON
2.338000	11.30	0.3	46	34.7	AV	N	FLO	ON
2.510000	8.20	0.3	46	37.8	AV	N	FLO	ON
3.118000	14.00	0.3	46	32.0	AV	N	FLO	ON
3.302000	15.30	0.3	46	30.7	AV	N	FLO	ON

APPENDIX B: PHOTOGRAPHS OF EUT
ALL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



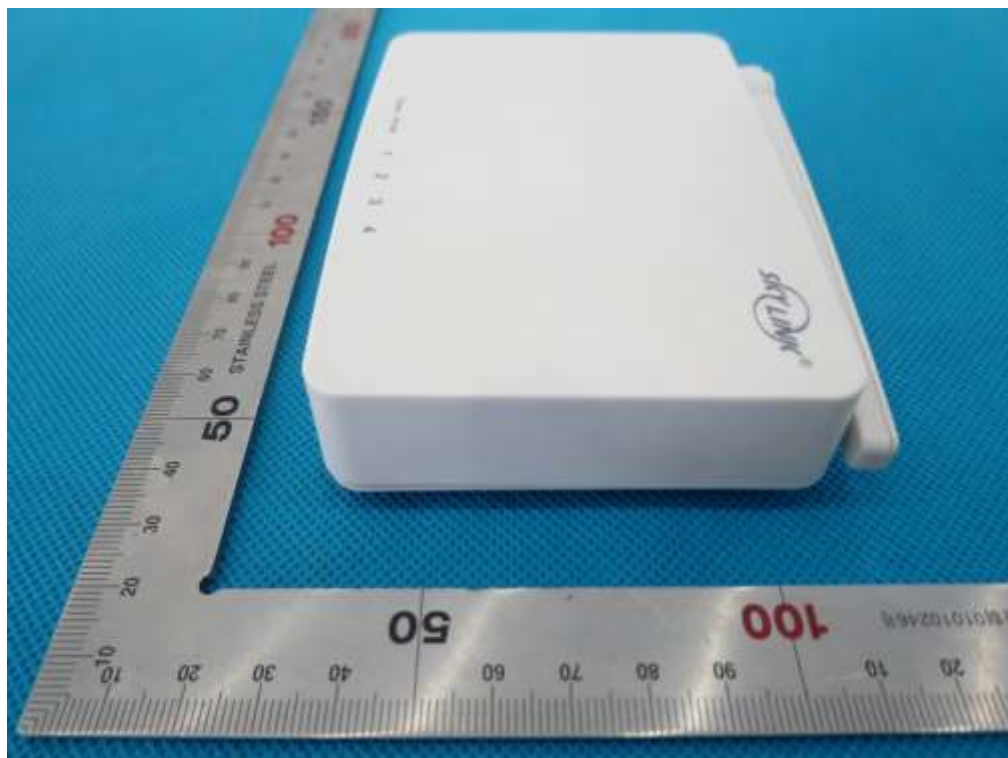
FRONT VIEW OF EUT



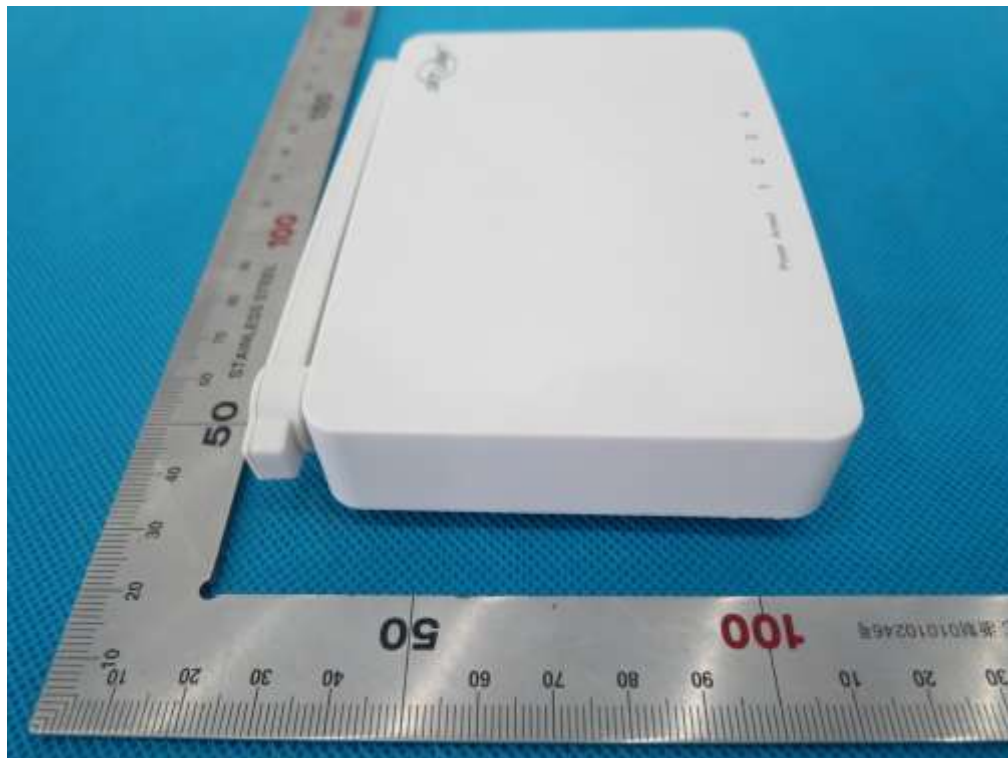
BACK VIEW OF EUT



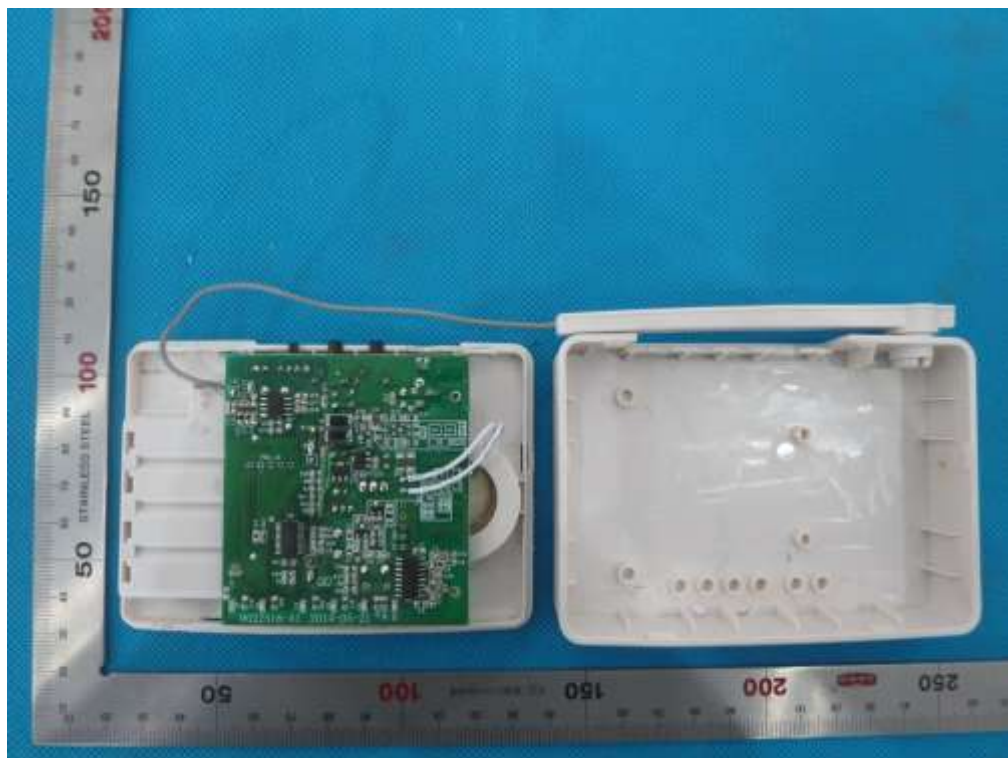
LEFT VIEW OF EUT



RIGHT VIEW OF EUT



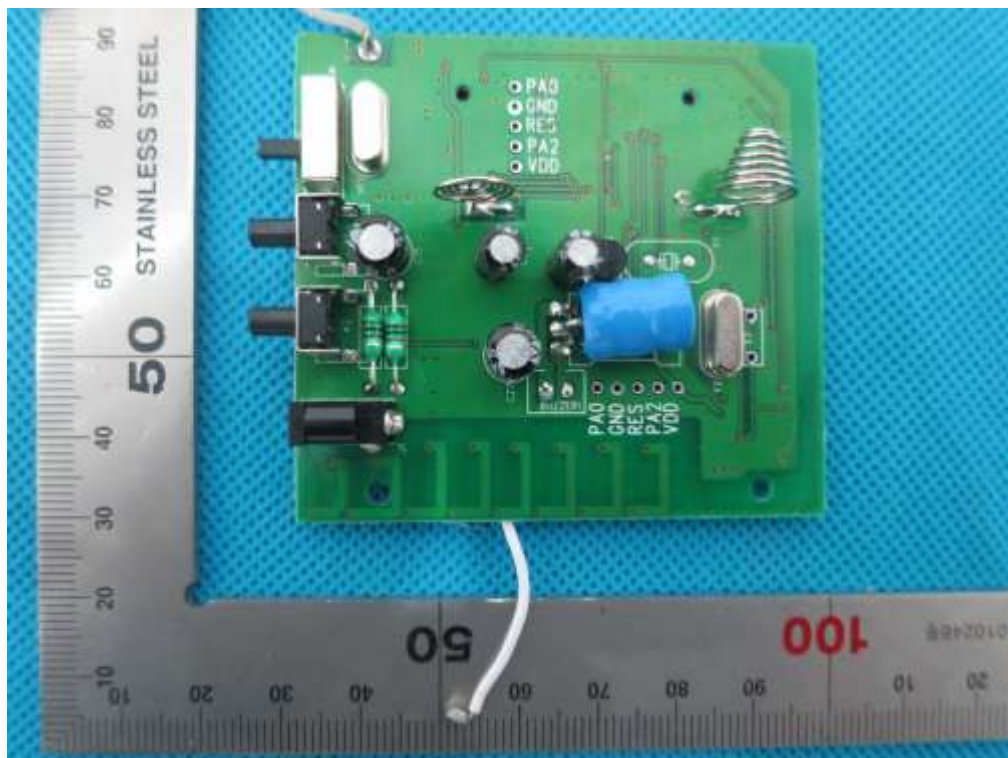
OPEN VIEW OF EUT-1



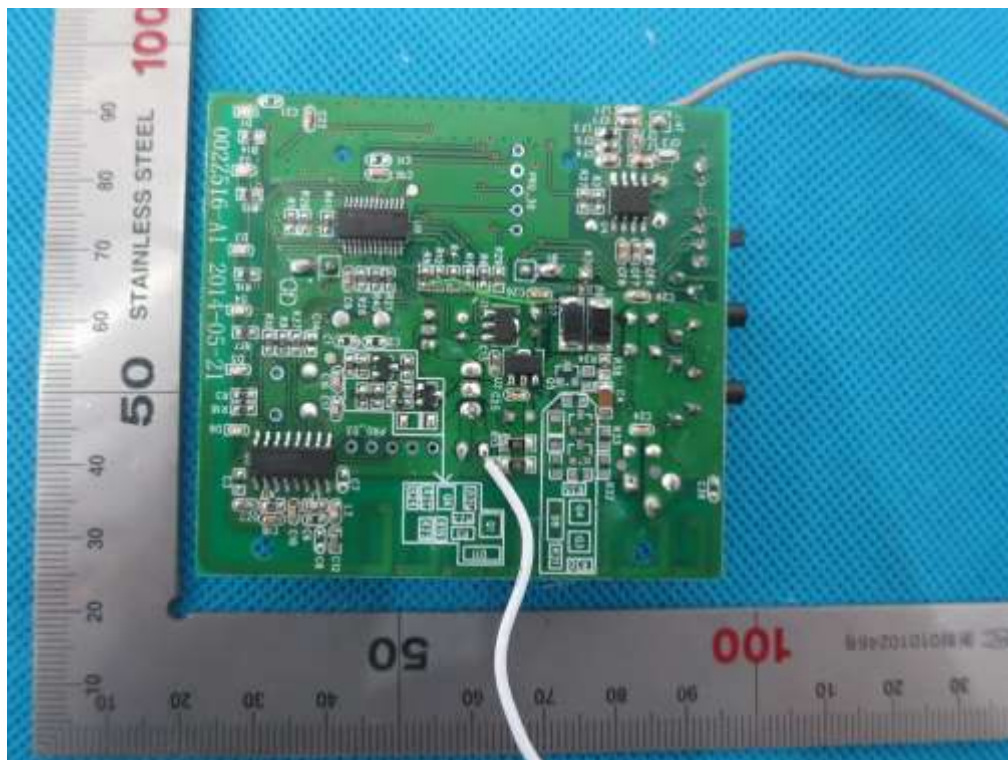
OPEN VIEW OF EUT-2



INTERNAL VIEW OF EUT-1



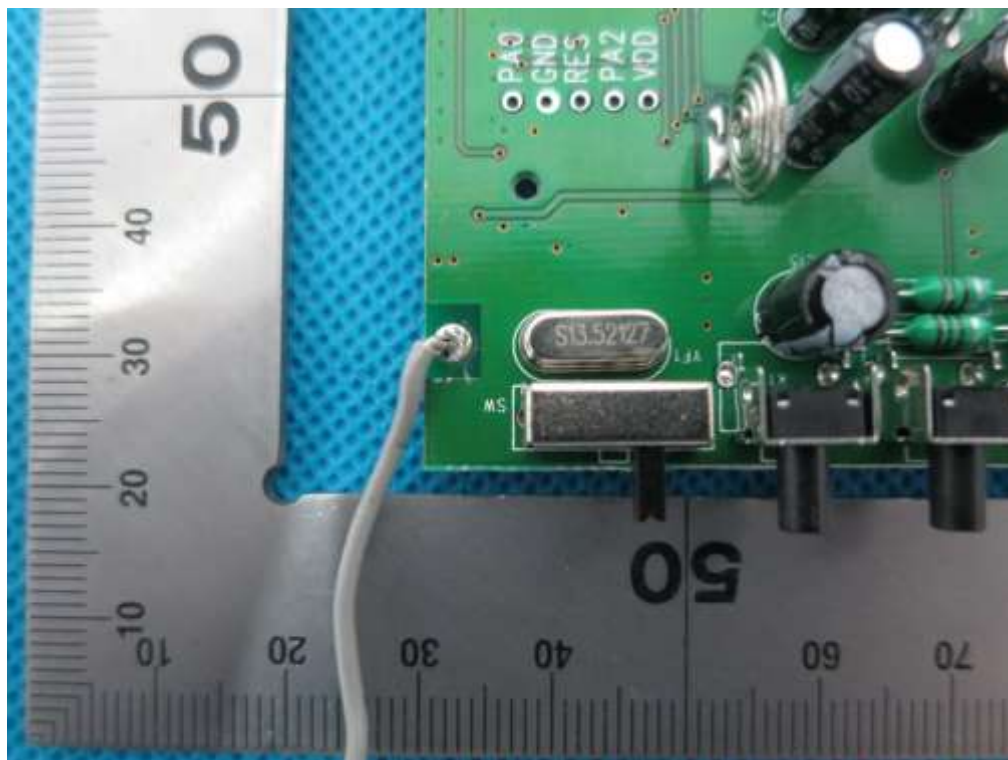
INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



-----END OF REPORT-----