

FCC TEST REPORT
for
Model Rectifier Corporation

Light Genie
Model No.: 02500

Prepared for : Model Rectifier Corporation
Address : 80 Newfield Avenue Edison, New Jersey 08837-3817 United States

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
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Report Number : R011601728I
Date of Test : Jan. 14~Feb. 01, 2016
Date of Report : Feb. 02, 2016

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TEST REPORT

Applicant : Model Rectifier Corporation
Manufacturer : Model Rectifier Corporation
EUT : Light Genie
Model No. : 02500
Serial No. : N.A.
Trade Mark : Light Genie and Loco Genie
Rating : DC 3V, 8mA

Measurement Procedure Used:

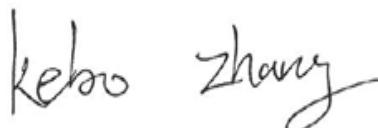
FCC Part15 Subpart C, Paragraph 15.207, 15.249 & 15.209

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without

written approval of Shenzhen Anbotek Compliance Laboratory Limited.

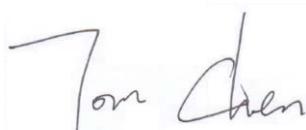
Date of Test : Jan. 14~Feb. 01, 2016



Prepared by : (Tested Engineer / Kebo Zhang)



Reviewer : (Project Manager / Amy Ding)



Approved & Authorized Signer : (Manager / Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Light Genie

Model Number : 02500

Test Power Supply : DC 3V

Frequency : 2412~2468MHz

No. of Channels : 16
(2412MHz, 2416MHz, 2420MHz, 2424MHz, 2427MHz, 2431MHz, 2435MHz, 2439MHz, 2442MHz, 2446MHz, 2450MHz, 2454MHz, 2457MHz, 2461MHz, 2465MHz, 2468MHz)

Antenna Specification : Integrated:0 dBi

Applicant Address : Model Rectifier Corporation
: 80 Newfield Avenue Edison, New Jersey 08837-3817 United States

Manufacturer Address : Model Rectifier Corporation
: 80 Newfield Avenue Edison, New Jersey 08837-3817 United States

Factory Address : Model Rectifier Corporation
: 80 Newfield Avenue Edison, New Jersey 08837-3817 United States

Date of receipt : Jan. 14, 2016

Date of Test : Jan. 14~Feb. 01, 2016

1.2. Auxiliary Equipment Used during Test

N/A

1.3. Description of Test Facility

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

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, 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 752021, July 10, 2013.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A-1, February 22, 2013.

Test Location

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1 dB (Horizontal)
Ur = 4.3 dB (Vertical)

Conduction Uncertainty : Uc = 3.4dB

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC Part 15, Paragraph 15.249.

2.1. Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
§15.207 (a)	Conducted Emission	-	N/A
§15.205	Restricted Band of Operation	PASS	Complies
§15.209 §15.249(a)	Radiated Emission	PASS	Complies
§15.215(c)	20dB Bandwidth Test	PASS	Complies
§15.203	Antenna Requirement	PASS	Complies

2.2. Description of Test Modes

The EUT has been tested under operating condition.

Manual control the EUT for staying in continuous transmitting mode.

Channel Low(2412MHz), Channel Middle(2442MHz) and Channel High(2468MHz) are chosen for the final testing.

3. Test Procedure

GENERAL: This report shall NOT be reproduced except in full without the written approval of Shenzhen Anbotek Compliance Laboratory Limited. The EUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.10-2013 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.3oF with a humidity of 69%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS
20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.10-2013 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

4. Radiation Interference

4.1. Requirements (15.249, 15.209):

FIELD STRENGTH of Fundamental: @3M 902-928 MHZ 2.4-2.4835 GHz 94 dB μ V/m @3m	FIELD STRENGTH of Harmonics 54 dB μ V/m @3m	S15.209 30 - 88 MHz 88 - 216 MHz 216 - 960 MHz ABOVE 960 MHz	40 dB μ V/m 43.5 46 54dB μ V/m
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Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in 15.209, whichever is the lesser attenuation.

4.2. Test Procedure

For below 1GHz, the EUT is placed on a turn table which is 0.8 meter high above the ground. For above 1GHz, the EUT is placed on a turn table which is 1.5 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation. The test results are listed in Section 4.3.

4.3 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Apr. 17, 2015	1 Year
2.	Preamplifier	Instruments corporation	EMC011830	980100	Apr. 17, 2015	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 17, 2015	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 20, 2015	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 20, 2015	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Apr. 17, 2015	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
8	Power Sensor	DAER	RPR3006 W	15I00041SN0 46	Jun 30, 2015	1 Year
9	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Jun 30, 2015	1 Year
10	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Jun 30, 2015	1 Year
11	Signal Generator	Agilent	E4421B	MY41000743	Jun 30, 2015	1 Year
12	DC Power supply	IV	IV-8080	YQSB0096	Jun 30, 2015	1 Year
13	TEMP&HUMI PROGRAMMABLE CHAMBER	Bell Group	BE-THK-1 50M8	SE-0137	Mar 16, 2015	1 Year

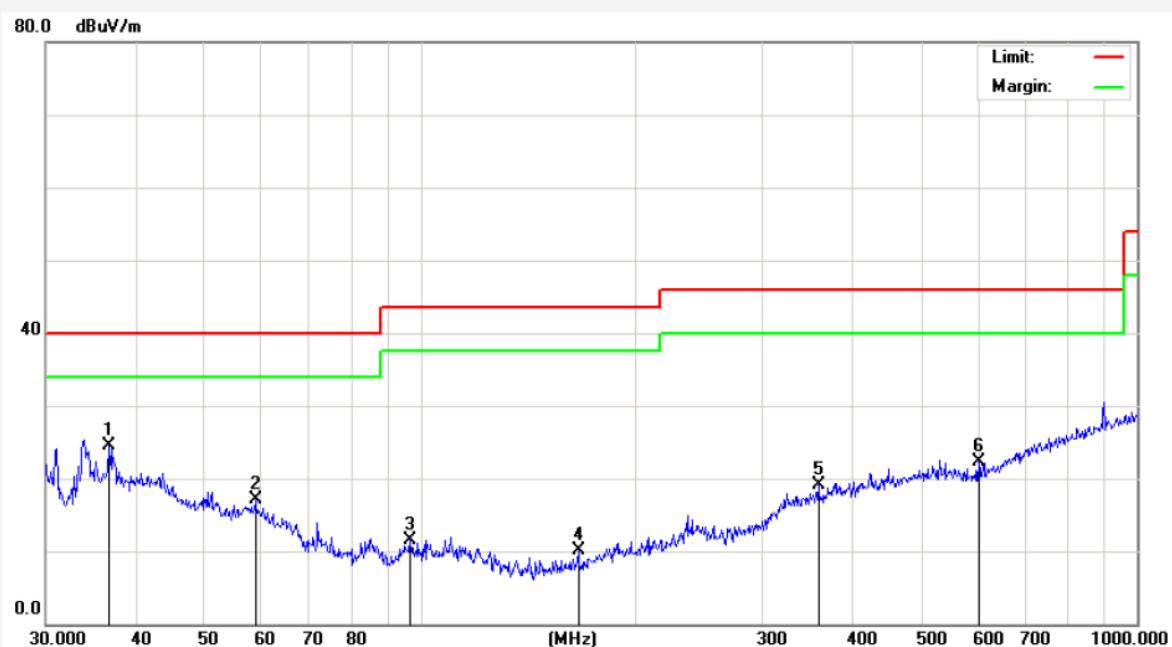
4.4. Test Results

PASS.

Please refer the following pages. Only the worst case (x orientation).

Below 1GHz:

Job No.:	011601728I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Mode:	ON	Distance:	3m
Note:	30-1000MHz		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	36.7662	37.37	-12.91	24.46	40.00	-15.54	peak			
2	58.8185	32.42	-15.28	17.14	40.00	-22.86	peak			
3	96.7749	32.40	-20.93	11.47	43.50	-32.03	peak			
4	166.0680	32.87	-22.68	10.19	43.50	-33.31	peak			
5	359.1860	32.88	-13.70	19.18	46.00	-26.82	peak			
6	601.4265	33.45	-11.20	22.25	46.00	-23.75	peak			

Job No.:	011601728I	Polarization:	Vertical							
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3V							
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH							
Mode:	ON	Distance:	3m							
Note:	30-1000MHz									
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.2757	34.57	-10.48	24.09	40.00	-15.91	peak			
2	96.0986	32.36	-15.97	16.39	43.50	-27.11	peak			
3	116.9495	32.85	-16.12	16.73	43.50	-26.77	peak			
4	209.3129	33.00	-15.52	17.48	43.50	-26.02	peak			
5	369.4047	32.77	-12.48	20.29	46.00	-25.71	peak			
6	483.9094	34.01	-11.43	22.58	46.00	-23.42	peak			

Above 1 GHz:

 Horizontal
 CH Low (2412MHz)

Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dB μ V	Level dB μ V/m	Limit dB μ V/m	Over Limit dB	Remark
2412.000	2.17	31.21	35.30	87.48	85.56	114.0	-28.44	Peak
2412.000	2.17	31.21	35.30	77.58	75.66	94.0	-18.34	AV
4824.320	2.56	34.01	34.71	46.25	48.11	74.0	-25.89	Peak
4824.320	2.56	34.01	34.71	35.27	37.13	54.0	-16.87	AV
7236.840	2.98	36.16	35.15	43.93	47.92	74.0	-26.08	Peak
7236.840	2.98	36.16	35.15	34.61	38.60	54.0	-15.40	AV
9648.000	---	---	---	---	---	---	---	---
12060.00	---	---	---	---	---	---	---	---
14472.00	---	---	---	---	---	---	---	---
16884.00	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---

 Vertical
 CH Low (2412MHz)

Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dB μ V	Level dB μ V/m	Limit dB μ V/m	Over Limit dB	Remark
2412.000	2.17	31.21	35.30	86.25	84.33	114.0	-29.67	Peak
2412.000	2.17	31.21	35.30	80.01	78.09	94.0	-15.91	AV
4824.500	2.56	34.01	34.71	47.89	49.75	74.0	-24.25	Peak
4824.500	2.56	34.01	34.71	37.36	39.22	54.0	-14.78	AV
7236.670	2.98	36.16	35.15	42.15	46.14	74.0	-27.86	Peak
7236.670	2.98	36.16	35.15	33.21	37.20	54.0	-16.80	AV
9648.000	---	---	---	---	---	---	---	---
12060.00	---	---	---	---	---	---	---	---
14472.00	---	---	---	---	---	---	---	---
16884.00	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---

Horizontal
 CH Middle (2442MHz)

Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dB μ V	Level dB μ V/m	Limit dB μ V/m	Over Limit dB	Remark
2442.000	2.19	31.22	34.60	89.12	87.93	114.0	-26.07	Peak
2442.000	2.19	31.22	34.60	82.23	81.04	94.0	-12.96	AV
4884.360	2.57	35.00	34.58	42.98	45.97	74.0	-28.03	Peak
4884.360	2.57	35.00	34.58	36.72	39.71	54.0	-14.29	AV
7236.780	3.00	36.17	35.14	41.36	45.39	74.0	-28.61	Peak
7236.780	3.00	36.17	35.14	37.99	42.02	54.0	-11.98	AV
9768.000	---	---	---	---	---	---	---	---
12210.00	---	---	---	---	---	---	---	---
14652.00	---	---	---	---	---	---	---	---
17094.00	---	---	---	---	---	---	---	---

 Vertical
 CH Middle (2442MHz)

Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dB μ V	Level dB μ V/m	Limit dB μ V/m	Over Limit dB	Remark
2442.000	2.19	31.22	34.60	90.89	89.70	114.0	-24.30	Peak
2442.000	2.19	31.22	34.60	83.12	81.93	94.0	-12.07	AV
4884.420	2.57	35.00	34.58	47.25	50.24	74.0	-23.76	Peak
4884.420	2.57	35.00	34.58	43.47	46.46	54.0	-7.54	AV
7236.850	3.00	36.17	35.14	44.51	48.54	74.0	-25.46	Peak
7236.850	3.00	36.17	35.14	38.39	42.42	54.0	-11.58	AV
9768.000	---	---	---	---	---	---	---	---
12210.00	---	---	---	---	---	---	---	---
14652.00	---	---	---	---	---	---	---	---
17094.00	---	---	---	---	---	---	---	---

Horizontal
 CH High (2468MHz)

Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dB μ V	Level dB μ V/m	Limit dB μ V/m	Over Limit dB	Remark
2468.000	2.20	31.65	36.00	92.14	89.99	114.0	-24.01	Peak
2468.000	2.20	31.65	36.00	80.41	78.26	94.0	-15.74	AV
4936.220	2.58	35.06	34.79	49.84	52.69	74.0	-21.31	Peak
4936.220	2.58	35.06	34.79	34.78	37.63	54.0	-16.37	AV
7404.840	3.02	36.19	34.90	47.46	51.77	74.0	-22.23	Peak
7404.840	3.02	36.20	35.20	36.89	40.91	54.0	-13.09	AV
9872.000	---	---	---	---	---	---	---	---
12340.00	---	---	---	---	---	---	---	---
14808.00	---	---	---	---	---	---	---	---
17276.00	---	---	---	---	---	---	---	---

 Vertical
 CH High (2468MHz)

Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dB μ V	Level dB μ V/m	Limit dB μ V/m	Over Limit dB	Remark
2468.000	2.20	31.65	36.00	94.01	91.86	114.0	-22.14	Peak
2468.000	2.20	31.65	36.00	81.59	79.44	94.0	-14.56	AV
4936.250	2.58	35.06	34.79	47.13	49.98	74.0	-24.02	Peak
4936.250	2.58	35.06	34.79	35.28	38.13	54.0	-15.87	AV
7404.760	3.02	36.19	34.90	46.47	50.78	74.0	-23.22	Peak
7404.760	3.02	36.20	35.20	37.63	41.65	54.0	-12.35	AV
9872.000	---	---	---	---	---	---	---	---
12340.00	---	---	---	---	---	---	---	---
14808.00	---	---	---	---	---	---	---	---
17276.00	---	---	---	---	---	---	---	---

NOTE: “---” 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.
The results of different modulations are the same.

5. Bandedge

5.1. Requirements (15.249):

The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

5.2. Test Procedure

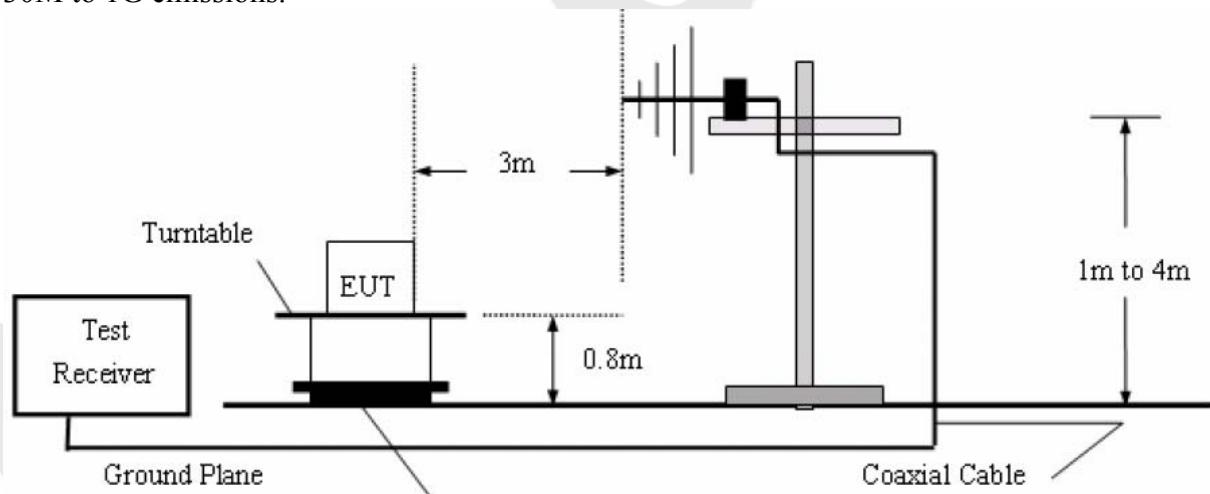
The EUT is placed on a turn table which is 1.5 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test. The device is evaluated in xyz orientation.

Test Equipment

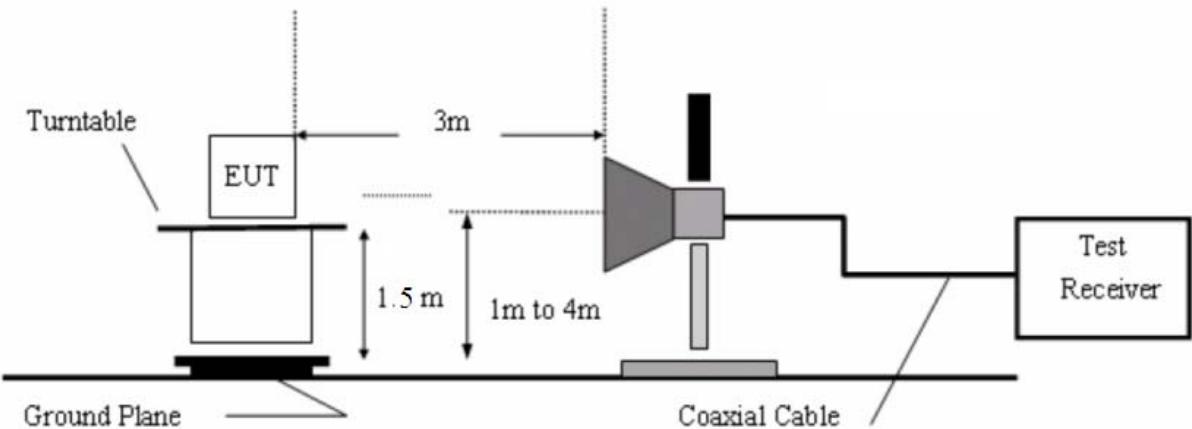
Same as the equipment listed in 4.3.

5.3. Test Configuration:

30M to 1G emissions:



1G to 40G emissions:



5.4. Test Results

Pass.

Please refer the following plot. Only the worst case (x orientation).

Job No.:	011601728I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	PEAK	Distance:	3m

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2373.537	48.67	-2.55	46.12	74.00	-27.88	peak			
2	2390.000	44.88	-2.51	42.37	74.00	-31.63	peak			
3	2400.000	42.32	-2.49	39.83	74.00	-34.17	peak			

Job No.:	011601728I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	PEAK	Distance:	3m

96.9 dBuV/m

57

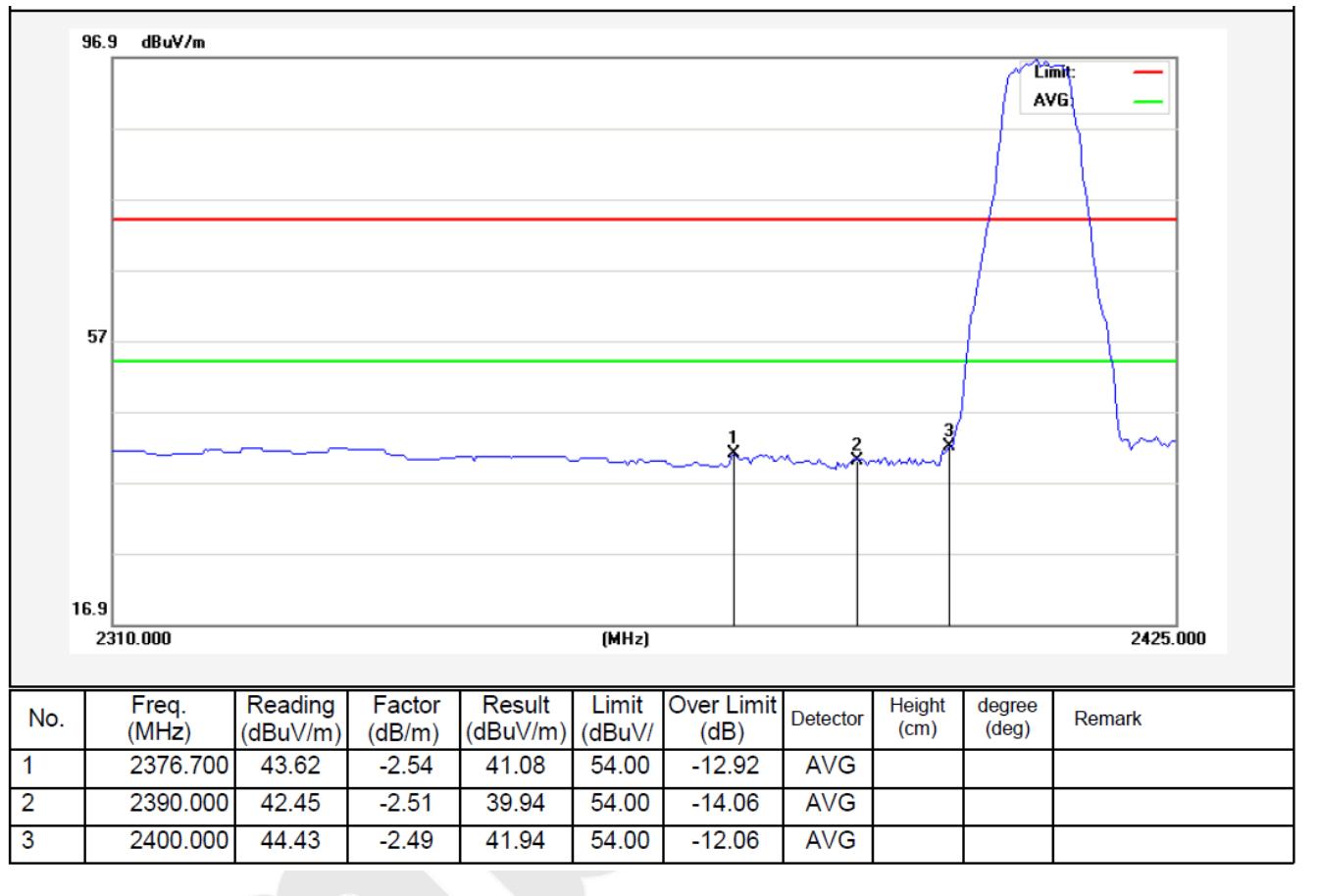
16.9

2310.000 [MHz] 2425.000

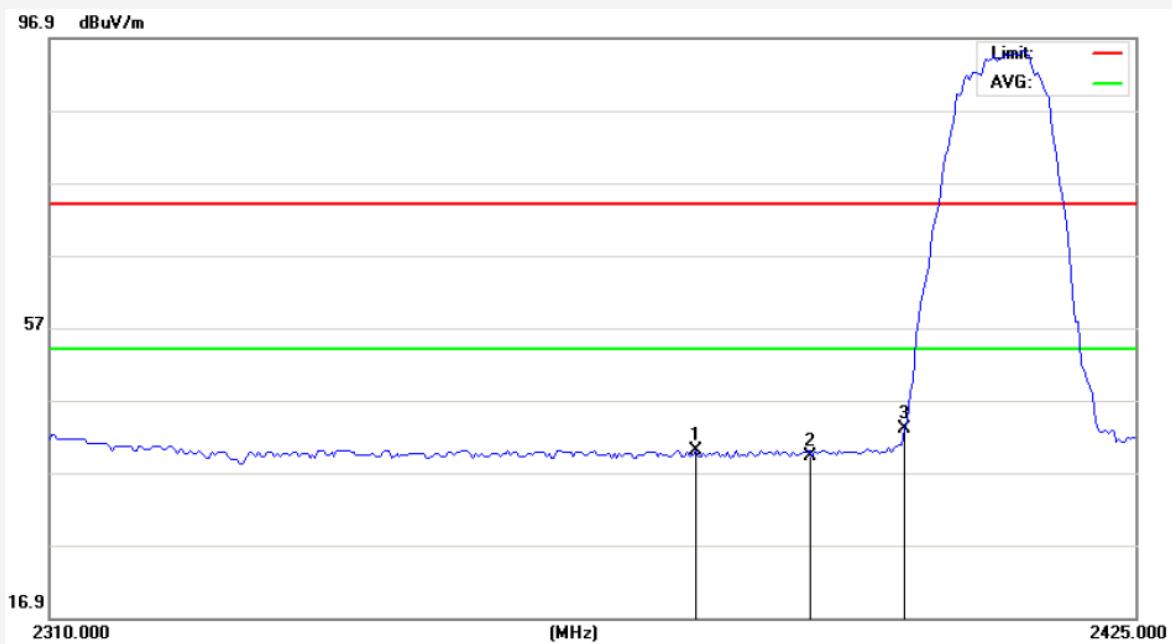
Limit
AVG:

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2370.375	46.61	-2.56	44.05	74.00	-29.95	peak			
2	2390.000	47.11	-2.51	44.60	74.00	-29.40	peak			
3	2400.000	46.31	-2.49	43.82	74.00	-30.18	peak			

Job No.:	011601728I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	AV	Distance:	3m



Job No.:	011601728I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	AV	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2377.850	42.47	-2.54	39.93	54.00	-14.07	AVG			
2	2390.000	41.64	-2.51	39.13	54.00	-14.87	AVG			
3	2400.000	45.46	-2.49	42.97	54.00	-11.03	AVG			

Job No.:	011601728I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	PEAK	Distance:	3m

96.9 dBuV/m

57

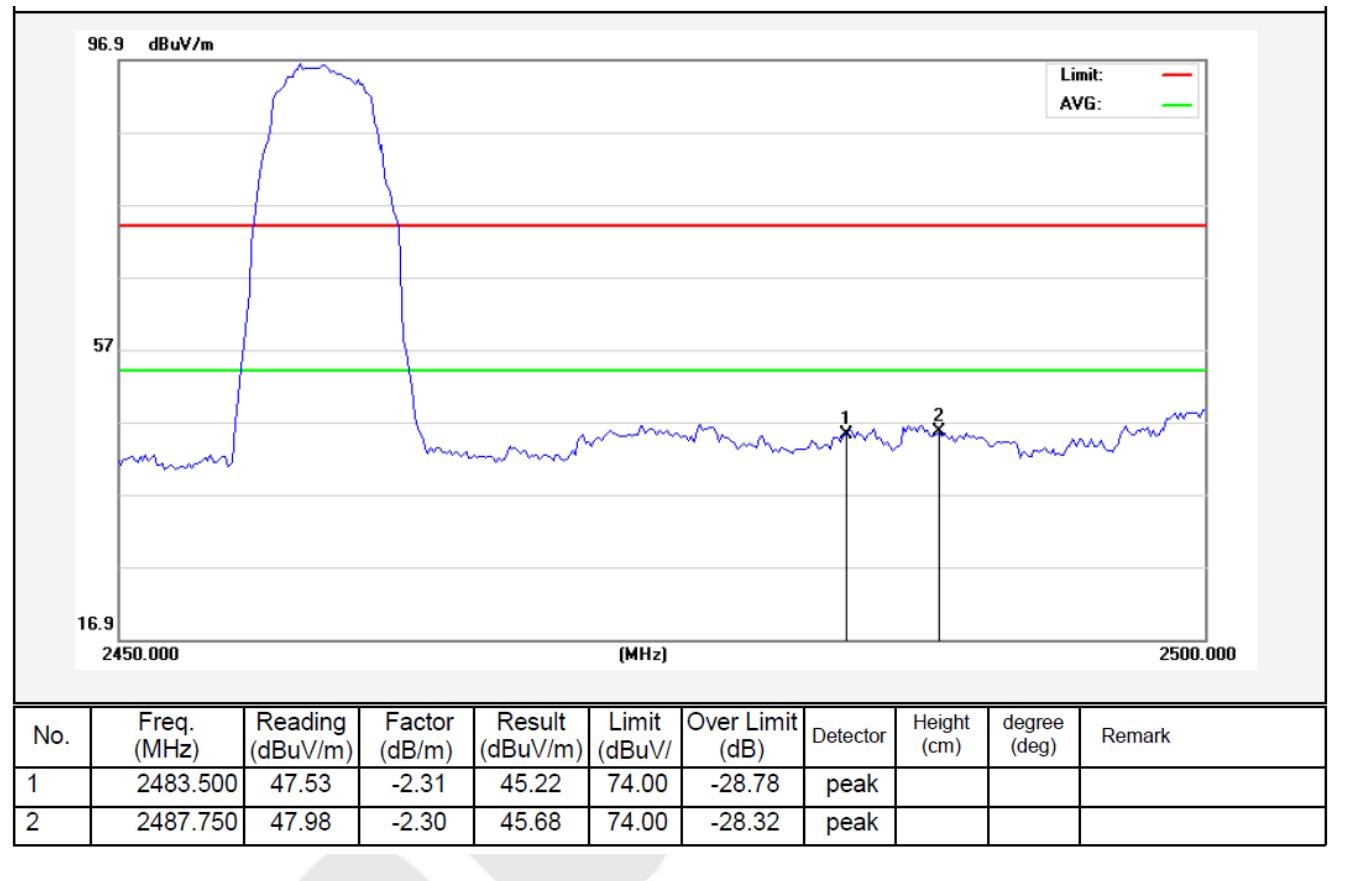
16.9

2450.000 [MHz] 2500.000

Limit: —
AVG: —

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	46.30	-2.31	43.99	74.00	-30.01	peak			
2	2485.750	46.77	-2.30	44.47	74.00	-29.53	peak			

Job No.:	011601728I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	PEAK	Distance:	3m



Job No.:	011601728I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	AV	Distance:	3m

96.9 dBuV/m

57

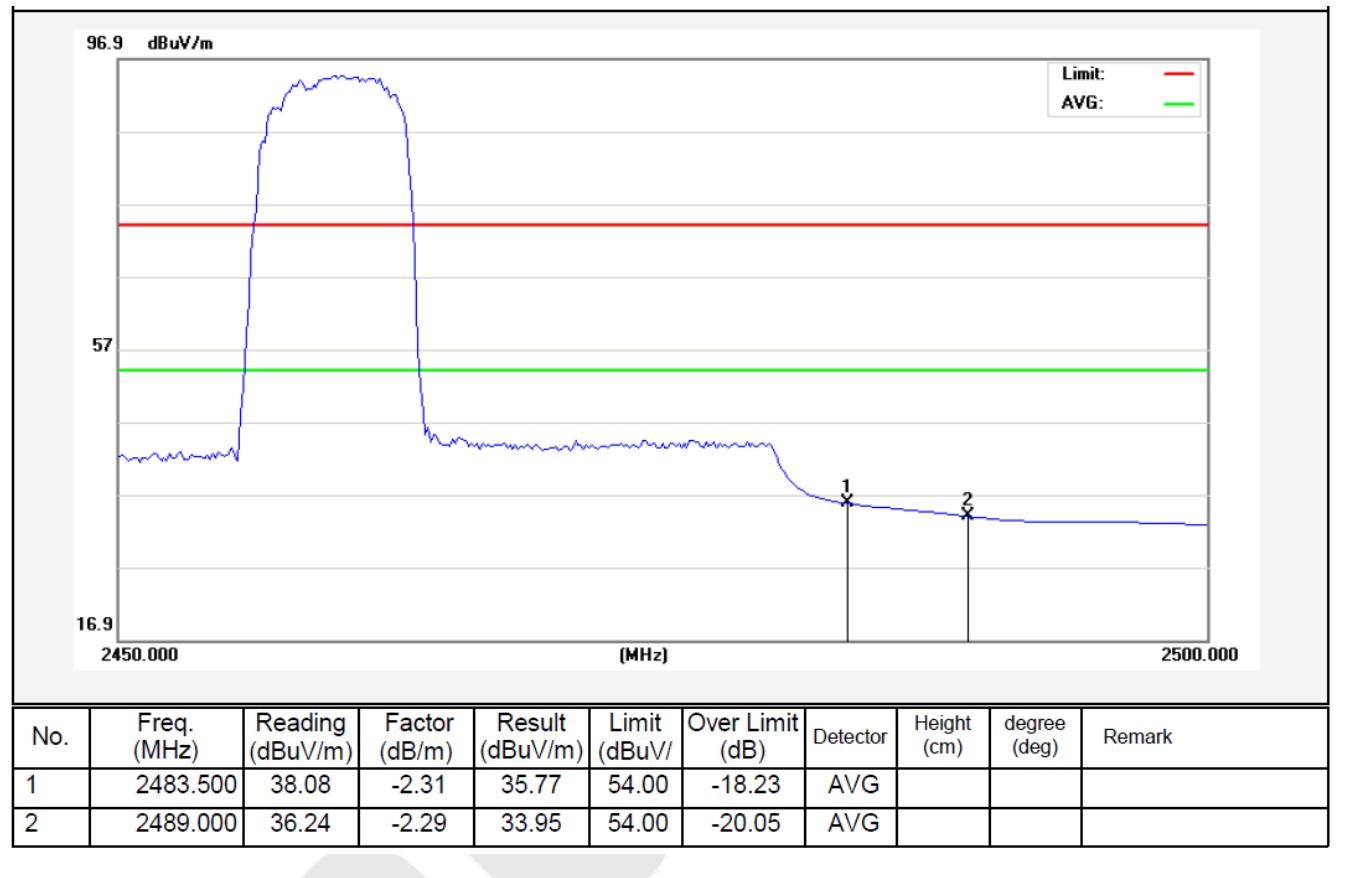
16.9

2450.000 [MHz] 2500.000

Limit: —
AVG: —

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	37.26	-2.31	34.95	54.00	-19.05	AVG			
2	2485.375	36.84	-2.30	34.54	54.00	-19.46	AVG			

Job No.:	011601728I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	AV	Distance:	3m

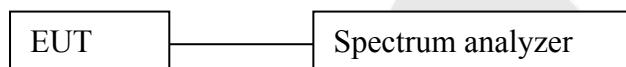


6. Occupied Bandwidth

6.1. Requirements :

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2. Test SET-UP



6.3 Test Equipment

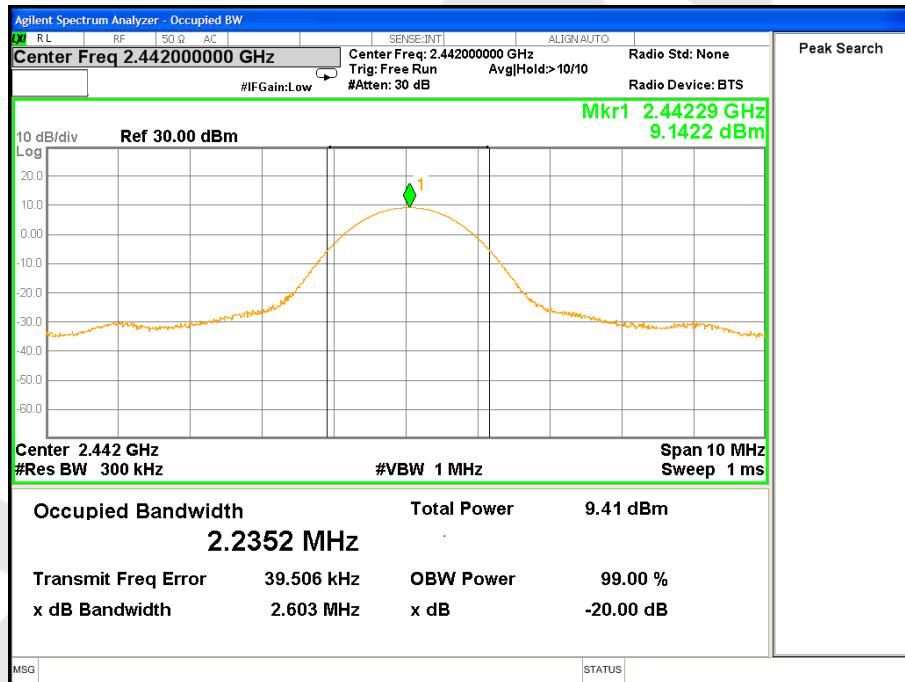
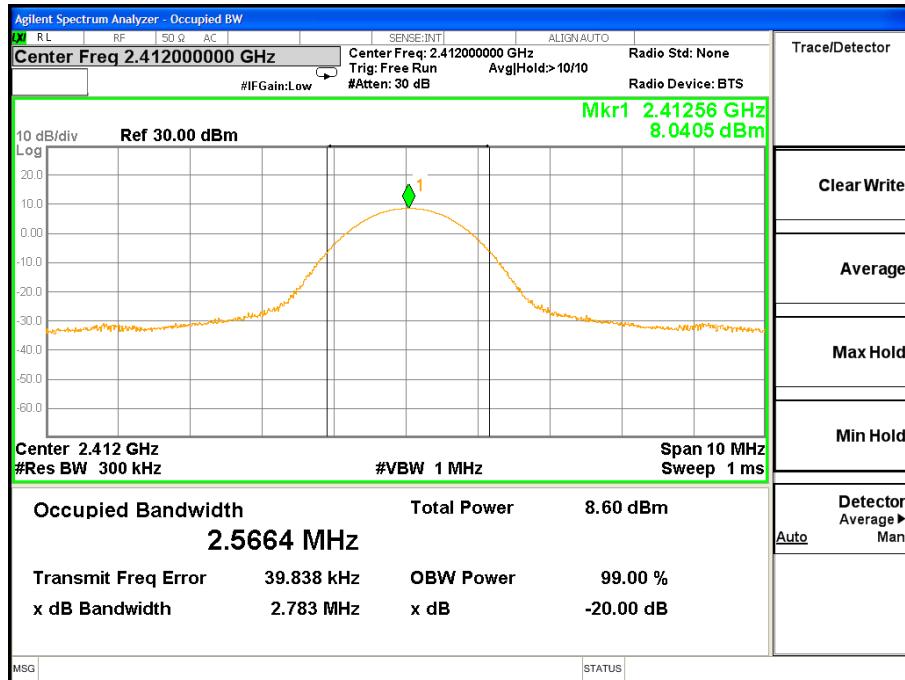
Same as the equipment listed in 4.3.

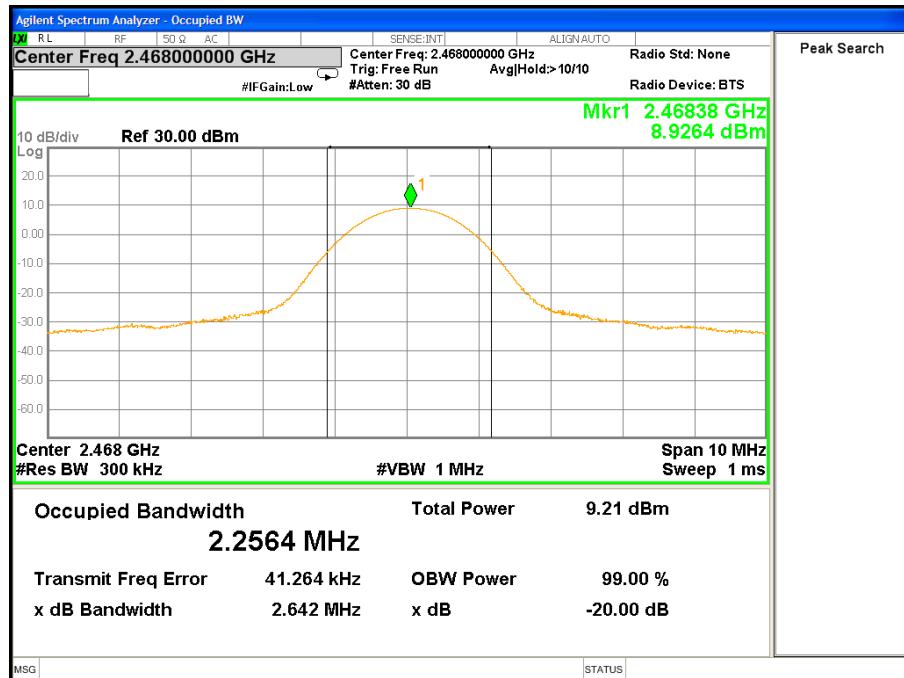
6.4. Test Results

Pass.

Please refer the following plot.

20dB Down:





7. ANTENNA APPLICATION

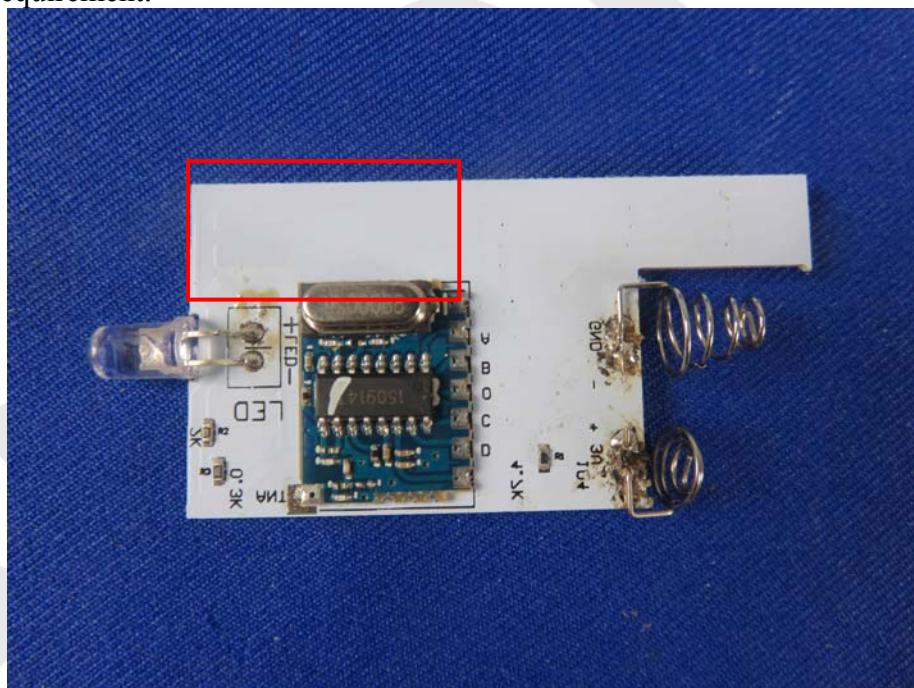
7.1. Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

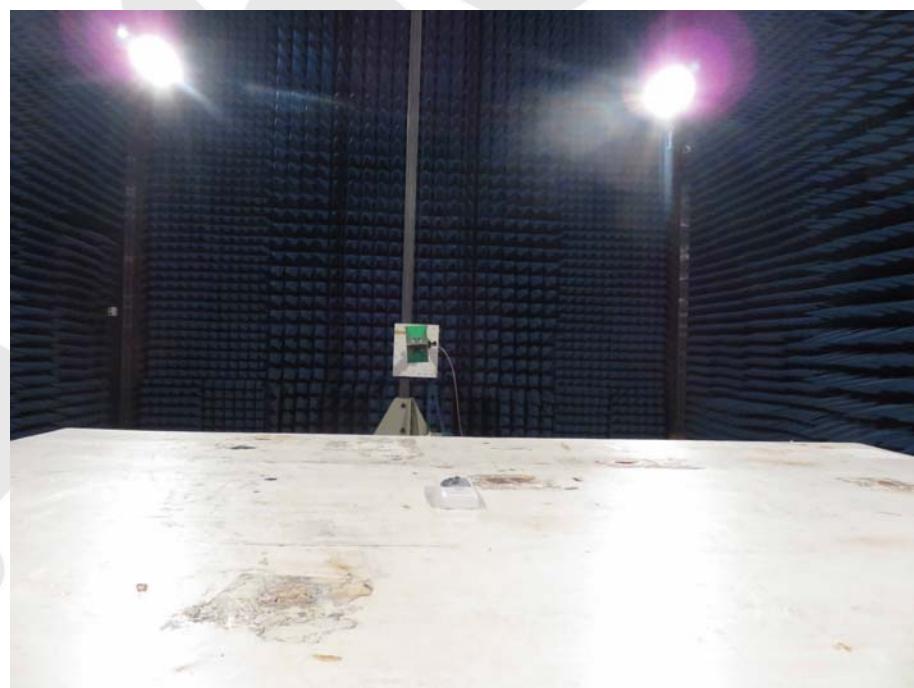
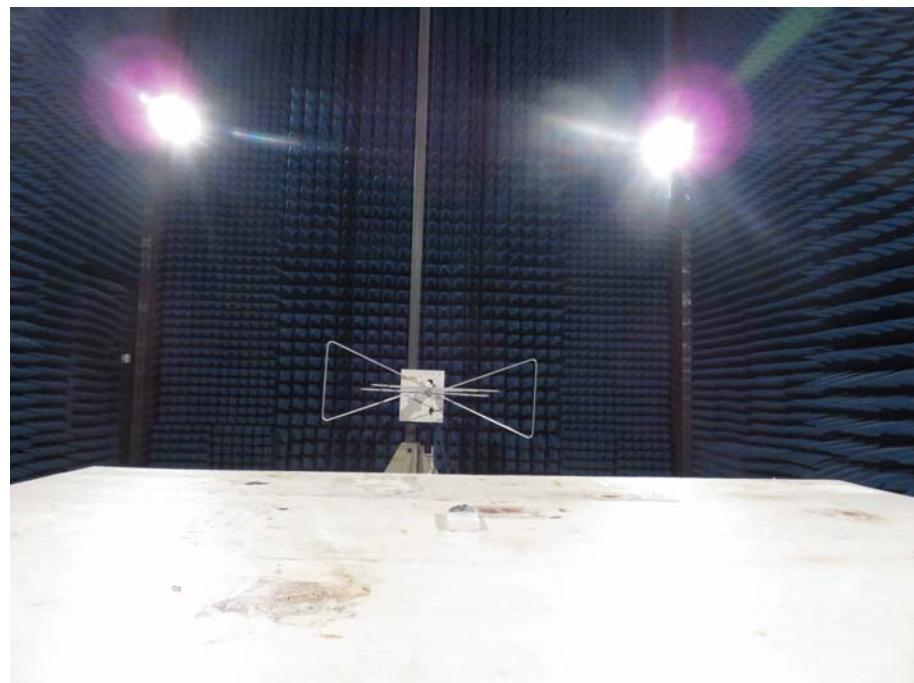
7.2. Result

The EUT's antenna used a Integrated antenna which is permanently attached, The antenna's gain is 0dBi and meets the requirement.



8. PHOTOGRAPH

8.1. Photo of Radiation Emission Test



APPENDIX I (External Photos)

Figure 1
The EUT-Top View



Figure 2
The EUT-Bottom View



Figure 3
The EUT-Front View

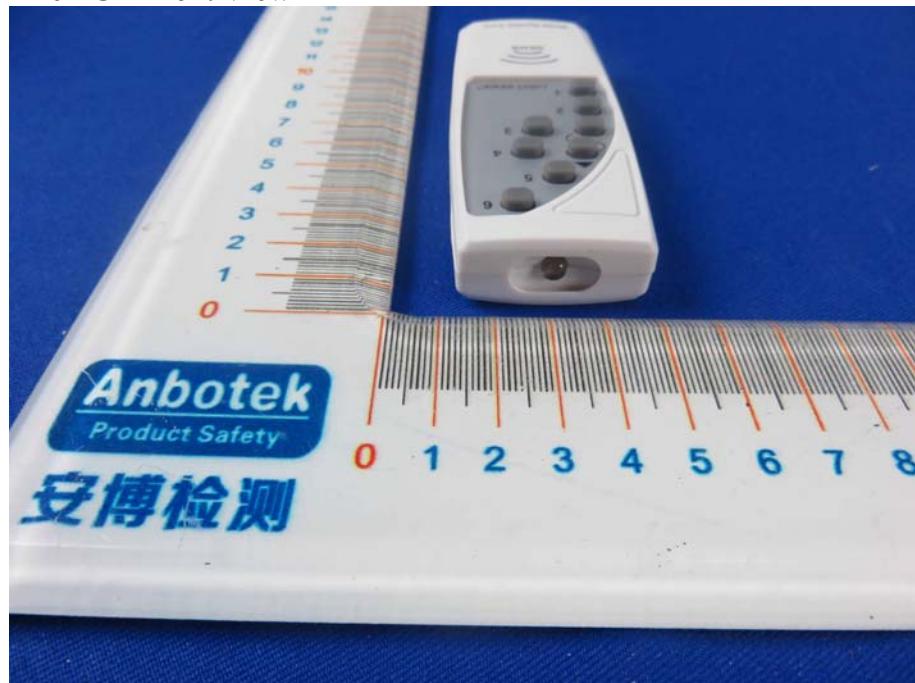


Figure 4
The EUT-Back View



Figure 5
The EUT-Right View



Figure 6
The EUT-Left View



APPENDIX II (Internal Photos)

Figure 7
The EUT-Inside View



Figure 8
PCB of the EUT-Front View



Figure 9
PCB of the EUT-Back View

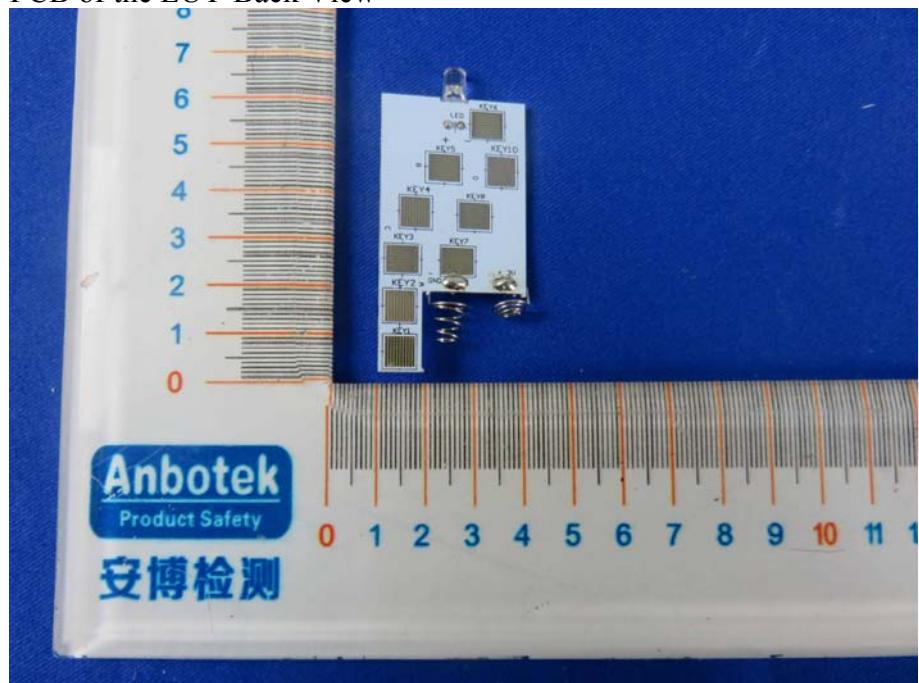


Figure 10
PCB of the EUT-Front View

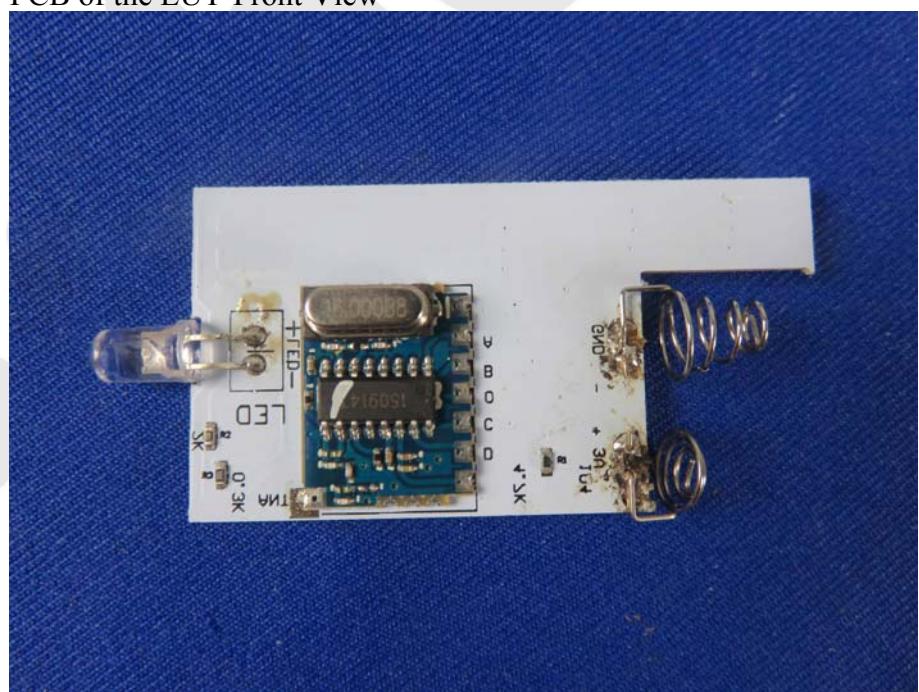


Figure 11
PCB of the EUT-Back View

