

# **FCC TEST REPORT**

**Test report  
On Behalf of  
Shenzhen Omni Intelligent Technology Co.,Ltd  
For  
Bicycle Smart Lock  
Model No.: OC30**

**FCC ID: 2AI2O-OC30**

**Prepared for :** Shenzhen Omni Intelligent Technology Co.,Ltd  
5th. Floor Block 4, Lianchuang Technical Zone, 21th. Bulan Road, Longgang,  
Shenzhen, China

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**Date of Test:** May. 18, 2017 ~ May. 24, 2017

**Date of Report:** May. 24, 2017

**Report Number:** UNI1700518038-E

## TEST RESULT CERTIFICATION

**Applicant's name** ..... : Shenzhen Omni Intelligent Technology Co.,Ltd  
**Address** ..... : 5th. Floor Block 4, Lianchuang Technical Zone, 21th. Bulan Road,  
Longgang, Shenzhen, China  
**Manufacture's Name**..... : Shenzhen Omni Intelligent Technology Co.,Ltd  
**Address** ..... : 5th. Floor Block 4, Lianchuang Technical Zone, 21th. Bulan Road,  
Longgang, Shenzhen, China

### Product description

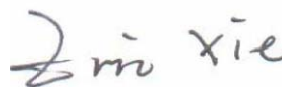
**Trade Mark:** Omni  
**Product name** ..... : Bicycle Smart Lock  
**Model and/or type reference** : OC30

**Standards** ..... : FCC Rules and Regulations Part 15 Subpart C Section 15.249  
ANSI C63.10: 2013

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**Date of Test** ..... :  
**Date (s) of performance of tests** ..... : **Mar. 18, 2017 ~ Mar. 23, 2017**  
**Date of Issue** ..... : **Mar. 24, 2017**  
**Test Result**..... : **Pass**

Testing Engineer :



(Eric Xie)

Technical Manager :



(Dora Qin)

Authorized Signatory :



(Kait Chen)

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## 1. TEST SUMMARY

### 1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
CONDUCTED EMISSIONS TEST	COMPLIANT
RADIATED EMISSION TEST	COMPLIANT
BAND EDGE	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

### 1.2 TEST FACILITY

Test Firm : QTC Certification & Testing Co., Ltd.  
Certificated by FCC, Registration No.: 588523  
Address 2nd Floor,B1 Building,Fengyeyuan Industrial Plant, Liuxian 2st. Road,  
Xin'an Street, Bao'an District, Shenzhen, China

### 1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty	
Conducted Emission Expanded Uncertainty	= 2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	= 3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	= 4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	= 4.06dB, k=2

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Bicycle Smart Lock
Model Name	OC30
Serial No	N/A
Model Difference	N/A
FCC ID	<b>2AI2O-OC30</b>
Antenna Type	Integral Antenna
Antenna Gain	2 dBi
Operation frequency	GSM850, PCS1900
Number of Channels	GSM/PCS: Band 850 and Band 1900;
Modulation Type	GMSK for GSM/GPRS
Power Source	DC 6V form Adapter with AC 120V/60Hz
Power Rating	DC 6V form Adapter with AC 120V/60Hz or DC 6V from battery

Equipment	Bicycle Smart Lock
Model Name	OC30
Serial No	N/A
Model Difference	N/A
FCC ID	<b>2AI2O-OC30</b>
Antenna Type	PCB Antenna
Antenna Gain	0 dBi
Operation frequency	2402-2480Mhz
Number of Channels	40CH
Modulation Type	GFSK
Power Source	DC 6V form Adapter with AC 120V/60Hz
Power Rating	DC 6V form Adapter with AC 120V/60Hz or DC 6V from battery

Note: This report only BT test report, GSM transmitters see the other test report.

### 2.1.1 Carrier Frequency of Channels

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2402	11	2422	21	2442	31	2462
02	2404	12	2424	22	2444	32	2464
03	2406	13	2426	23	2446	33	2466
04	2408	14	2428	24	2448	34	2468
05	2410	15	2430	25	2450	35	2470
06	2412	16	2432	26	2452	36	2472
07	2414	17	2434	27	2454	37	2474
08	2416	18	2436	28	2456	38	2476
09	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

#### Operation of EUT during testing

Operating Mode

The mode is used: **Transmitting mode**

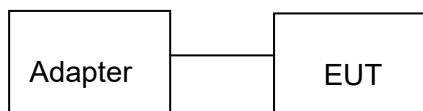
Low Channel: 2402MHz

Middle Channel: 2440MHz

High Channel: 2480MHz

### 2.2 DESCRIPTION OF TEST SETUP

Operation of EUT during conducted testing:



Operation of EUT during Radiation testing:



## 2.3 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
2.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 18, 2017	Feb. 17, 2018
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 18, 2017	1 Year
4.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
5.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
6.	Trilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Feb. 18, 2017	Feb. 17, 2018
7.	Pre-amplifier	Compliance Direction	PAP-0203	22008	Feb. 18, 2017	Feb. 17, 2018
8.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
9.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
10.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 18, 2017	Feb. 17, 2018
11.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 18, 2017	Feb. 17, 2018
12.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
13.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
14.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
15.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 18, 2017	Feb. 17, 2018
16.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 18, 2017	Feb. 17, 2018
17.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
18.	Power Meter	R&S	NRVD	SEL0069	Feb. 18, 2017	Feb. 17, 2018
19.	Power Sensor	R&S	URV5-Z2	SEL0071	Feb. 18, 2017	Feb. 17, 2018
20.	Power Sensor	R&S	URV5-Z2	SEL0072	Feb. 18, 2017	Feb. 17, 2018
21.	Software EMC32	R&S	EMC32-S	SEL0082	N/A	N/A
22.	Log-periodic Antenna	Amplifier Reasearch	APT1.580	SEL0073	Feb. 18, 2017	Feb. 17, 2018
23.	Loop Antenna	Schwarz beck	FMZB 1516	9773	Feb. 18, 2017	Feb. 17, 2018
24.	Broadband Antenna	Schwarz beck	VULB9163	9163-333	Feb. 18, 2017	Feb. 17, 2018
25.	Horn Antenna	ETS	3117	00086197	Feb. 18, 2017	Feb. 17, 2018
26.	Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170582	Feb. 18, 2017	Feb. 17, 2018
27.	Antenna Tripod	Amplifier Reasearch	TP1000A	SEL0074	Feb. 18, 2017	Feb. 17, 2018
28.	High Gain Horn Antenna	Amplifier Reasearch	AT4002A	SEL0075	Feb. 18, 2017	Feb. 17, 2018
29.	Spectrum analyzer	Agilent	N9020A	MY499110048	Feb. 18, 2017	Feb. 17, 2018
30.	Spectrum analyzer	Agilent	E4407B	MY46184326	Feb. 18, 2017	Feb. 17, 2018
31.	Spectrum analyzer	R&S	FSP30	836079/035	Feb. 18, 2017	Feb. 17, 2018
32.	RF Cable	Micable	C10-01-01-1	100309	Feb. 18, 2017	Feb. 17, 2018

### 3. CONDUCTED EMISSIONS TEST

#### 3.1 Conducted Power Line Emission Limit

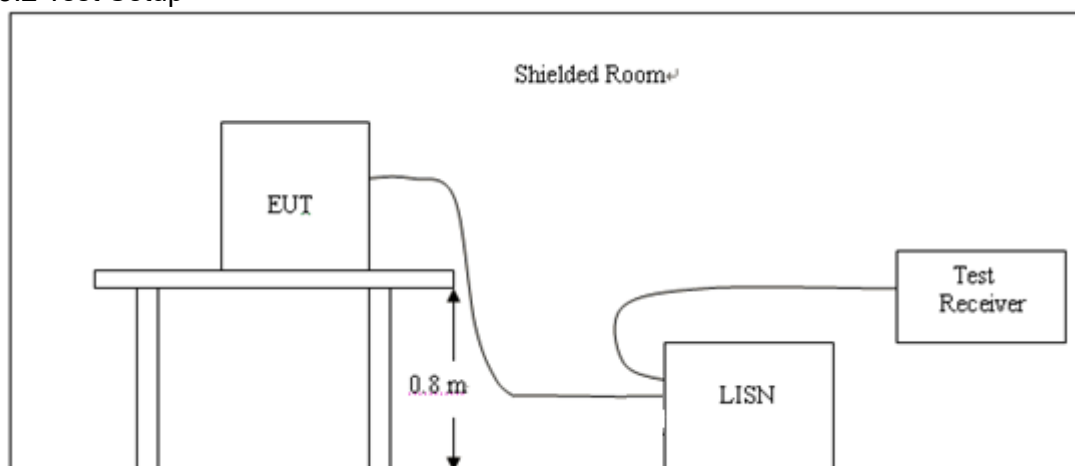
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

\* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

#### 3.2 Test Setup



#### 3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. 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 C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT 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.

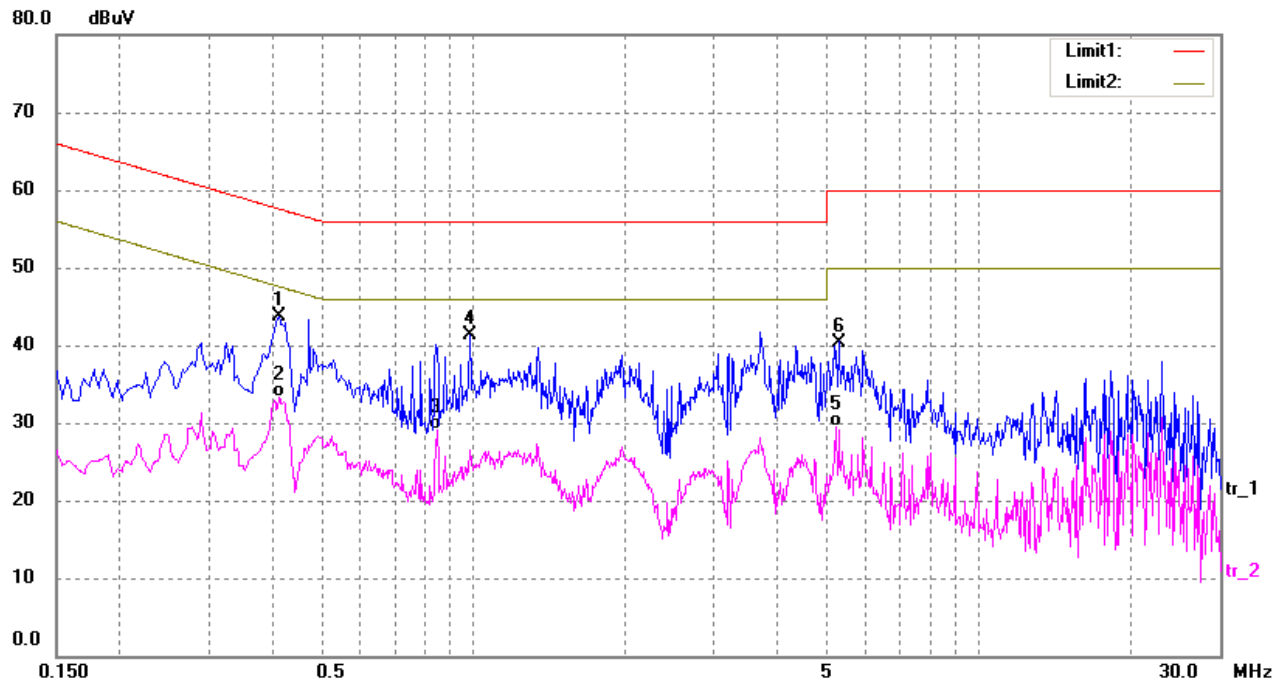
#### 3.4 Test Result

PASS

All the test modes completed for test.

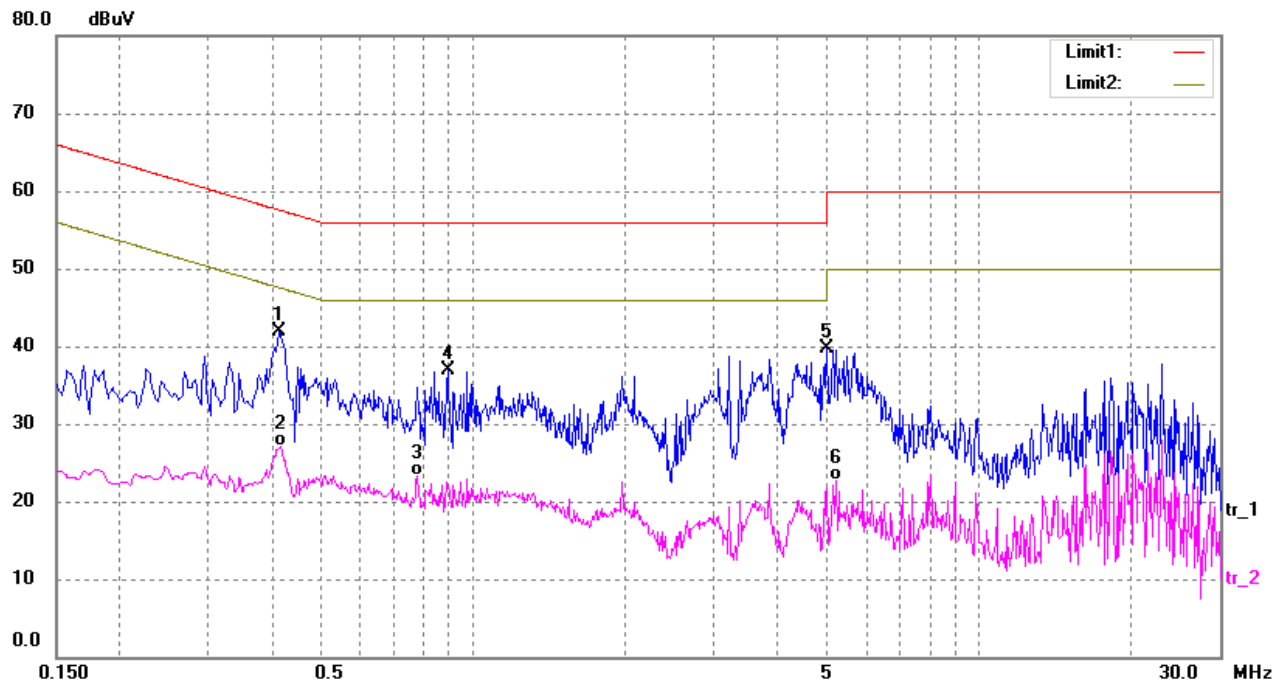


Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.4140	33.86	9.80	43.66	57.57	-13.91	peak
2	0.4140	23.56	9.80	33.36	47.57	-14.21	AVG
3	0.8500	19.37	9.77	29.14	46.00	-16.86	AVG
4	0.9860	31.59	9.76	41.35	56.00	-14.65	peak
5	5.2380	19.89	9.65	29.54	50.00	-20.46	AVG
6	5.2980	30.75	9.65	40.40	60.00	-19.60	peak

## Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.4140	32.02	9.80	41.82	57.57	-15.75	peak
2	0.4180	17.36	9.80	27.16	47.49	-20.33	AVG
3	0.7780	13.47	9.78	23.25	46.00	-22.75	AVG
4	0.8900	27.20	9.77	36.97	56.00	-19.03	peak
5	5.0220	29.97	9.66	39.63	60.00	-20.37	peak
6	5.2380	13.04	9.65	22.69	50.00	-27.31	AVG

## 4 RADIATED EMISSION TEST

### 4.1 Radiation Limit

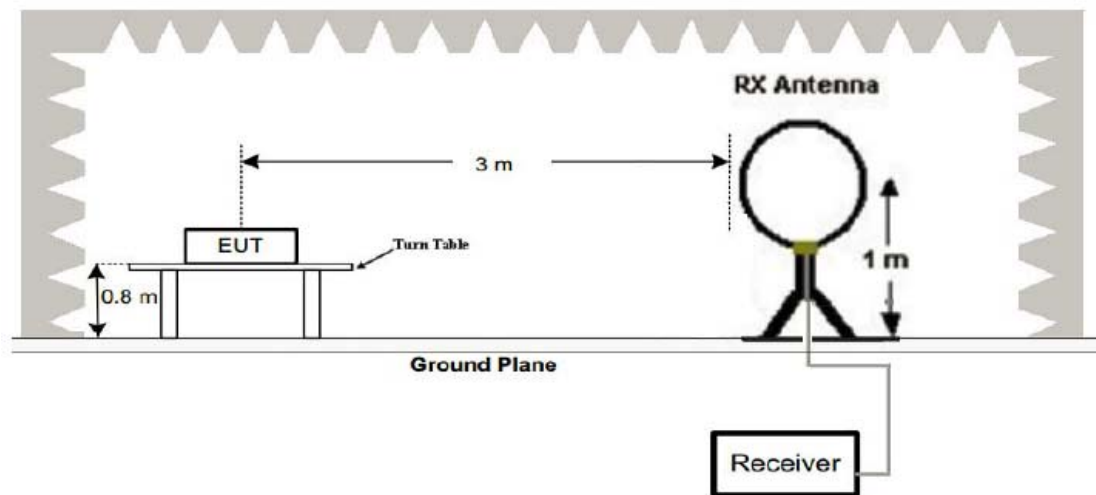
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB $\mu$ V/m)	Radiated ( $\mu$ V/m)
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

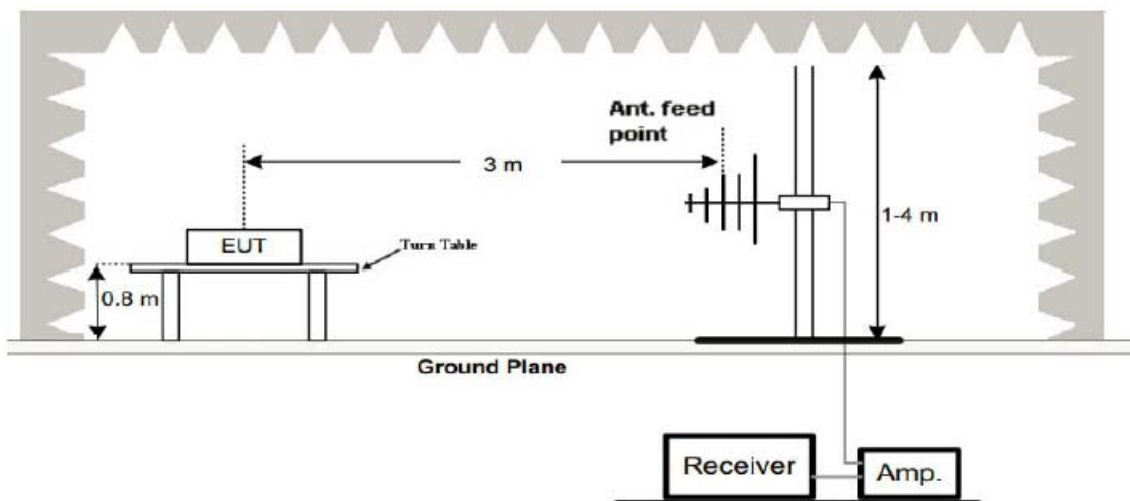
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

### 4.2 Test Setup

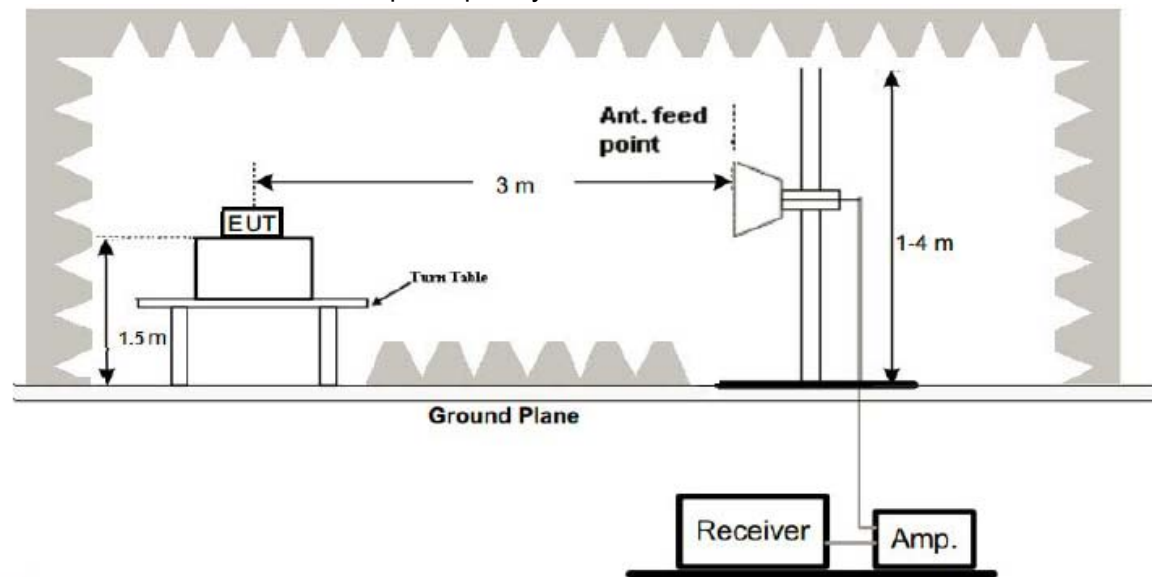
#### (1) Radiated Emission Test-Up Frequency Below 30MHz



#### (2) Radiated Emission Test-Up Frequency 30MHz~1GHz



## (3) Radiated Emission Test-Up Frequency Above 1GHz



## 4.3 Test Procedure

1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

## Note:

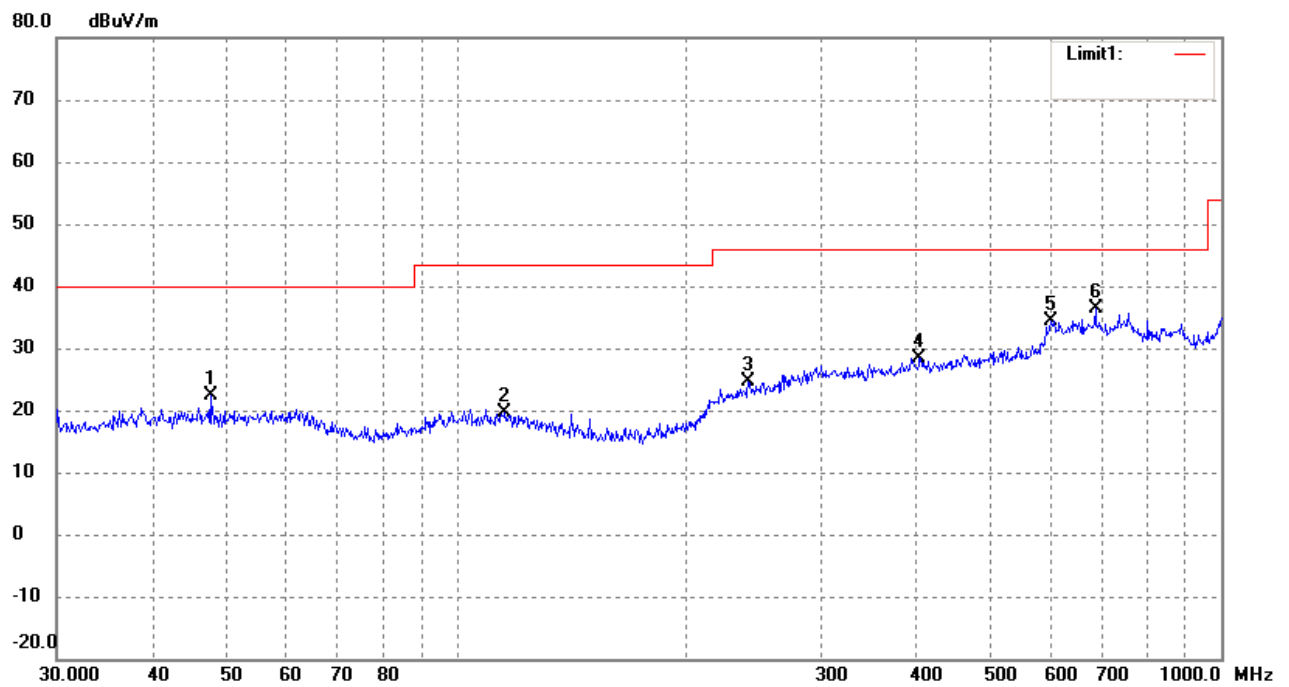
For battery operated equipment, the equipment tests shall be performed using a new battery.

## 4.4 Test Result

## PASS

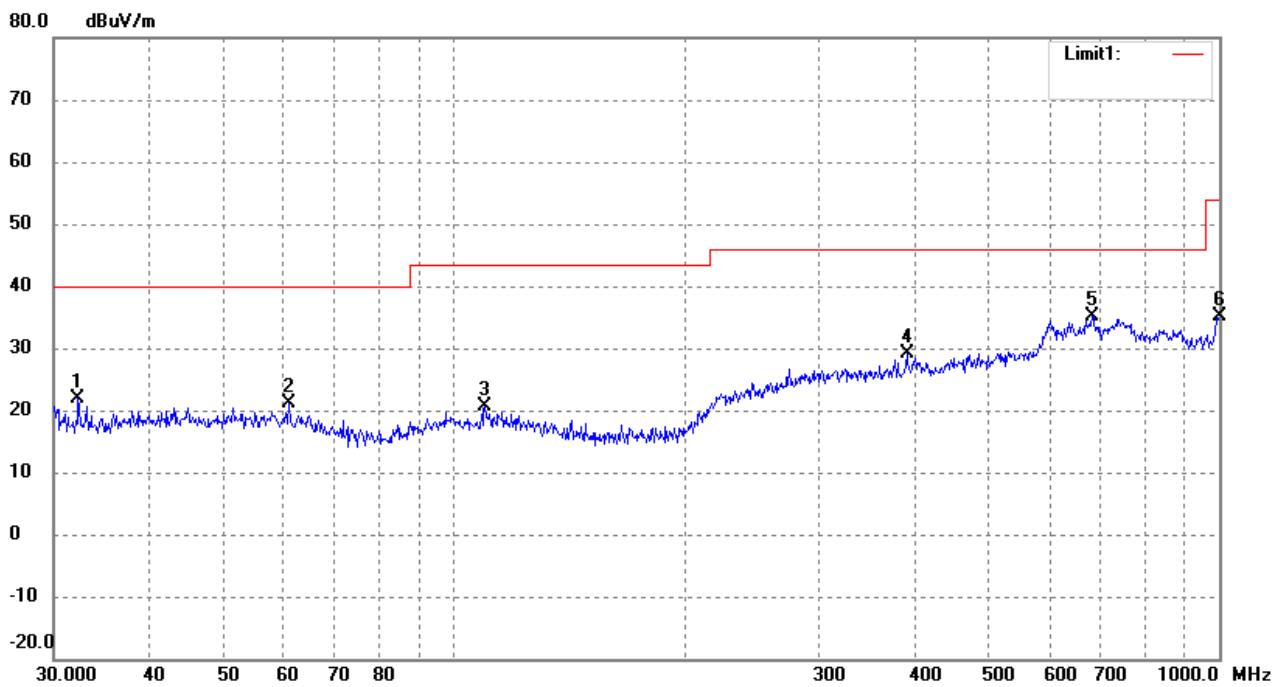
All the test modes completed for test. The worst case of Radiated Emission below 1 GHz is TX CH 2402Mhz test mode; the test data of this mode was reported.

Below 1GHz Test Results:  
Antenna polarity: H



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	47.6586	17.15	5.26	22.41	40.00	-17.59	224	100	peak
2	115.7256	14.50	5.04	19.54	43.50	-23.96	196	100	peak
3	240.8304	15.32	9.36	24.68	46.00	-21.32	56	100	peak
4	403.2500	15.41	13.01	28.42	46.00	-17.58	114	100	peak
5	599.3212	15.25	19.19	34.44	46.00	-11.56	181	100	peak
6	684.7454	17.49	18.91	36.40	46.00	-9.60	193	100	peak

Antenna polarity: V



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	32.2925	17.82	3.98	21.80	40.00	-18.20	203	100	peak
2	60.9176	15.98	5.18	21.16	40.00	-18.84	92	100	peak
3	109.7960	15.53	5.07	20.60	43.50	-22.90	56	100	peak
4	390.7226	16.49	12.70	29.19	46.00	-16.81	269	100	peak
5	682.3484	16.02	19.08	35.10	46.00	-10.90	104	100	peak
6	1000.0000	16.14	18.91	35.05	54.00	-18.95	150	100	peak

Remark:

(1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.

(2) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

## Above 1 GHz Test Results:

CH Low (2402MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402	112.16	-5.84	106.32	114	-7.68	peak
2402	85.11	-5.84	79.27	94	-14.73	AVG
4804	58.28	-3.64	54.64	74	-19.36	peak
4804	44.16	-3.64	40.52	54	-13.48	AVG
7206	53.39	-0.95	52.44	74	-21.56	peak
7206	42.19	-0.95	41.24	54	-12.76	AVG
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402	111.24	-5.84	105.4	114	-8.6	peak
2402	85.27	-5.84	79.43	94	-14.57	AVG
4804	57.43	-3.64	53.79	74	-20.21	peak
4804	44.76	-3.64	41.12	54	-12.88	AVG
7206	54.16	-0.95	53.21	74	-20.79	peak
7206	38.65	-0.95	37.7	54	-16.3	AVG
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## CH Middle (2440MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2440	109.21	-5.71	103.5	114	-10.5	peak
2440	85.25	-5.71	79.54	94	-14.46	AVG
4880	56.98	-3.51	53.47	74	-20.53	peak
4880	45.9	-3.51	42.39	54	-11.61	AVG
7320	53.28	-0.82	52.46	74	-21.54	peak
7320	38.19	-0.82	37.37	54	-16.63	AVG
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2440	108.19	-5.71	102.48	114	-11.52	peak
2440	83.28	-5.71	77.57	94	-16.43	AVG
4880	56.23	-3.51	52.72	74	-21.28	peak
4880	45.19	-3.51	41.68	54	-12.32	AVG
7320	52.27	-0.82	51.45	74	-22.55	peak
7320	34.33	-0.82	33.51	54	-20.49	AVG
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2480	106.21	-5.65	100.56	114	-13.44	peak
2480	82.19	-5.65	76.54	94	-17.46	AVG
4960	55.29	-3.43	51.86	74	-22.14	peak
4960	43.18	-3.43	39.75	54	-14.25	AVG
7440	54.16	-0.75	53.41	74	-20.59	peak
7440	38.37	-0.75	37.62	54	-16.38	AVG
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2480	107.22	-5.65	101.57	114	-12.43	peak
2480	83.37	-5.65	77.72	94	-16.28	AVG
4960	56.23	-3.43	52.8	74	-21.2	peak
4960	43.16	-3.43	39.73	54	-14.27	AVG
7440	53.27	-0.75	52.52	74	-21.48	peak
7440	36.78	-0.75	36.03	54	-17.97	AVG
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) 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.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

## 5 BAND EDGE

### 5.1 Limits

FCC PART 15.249(d) 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.

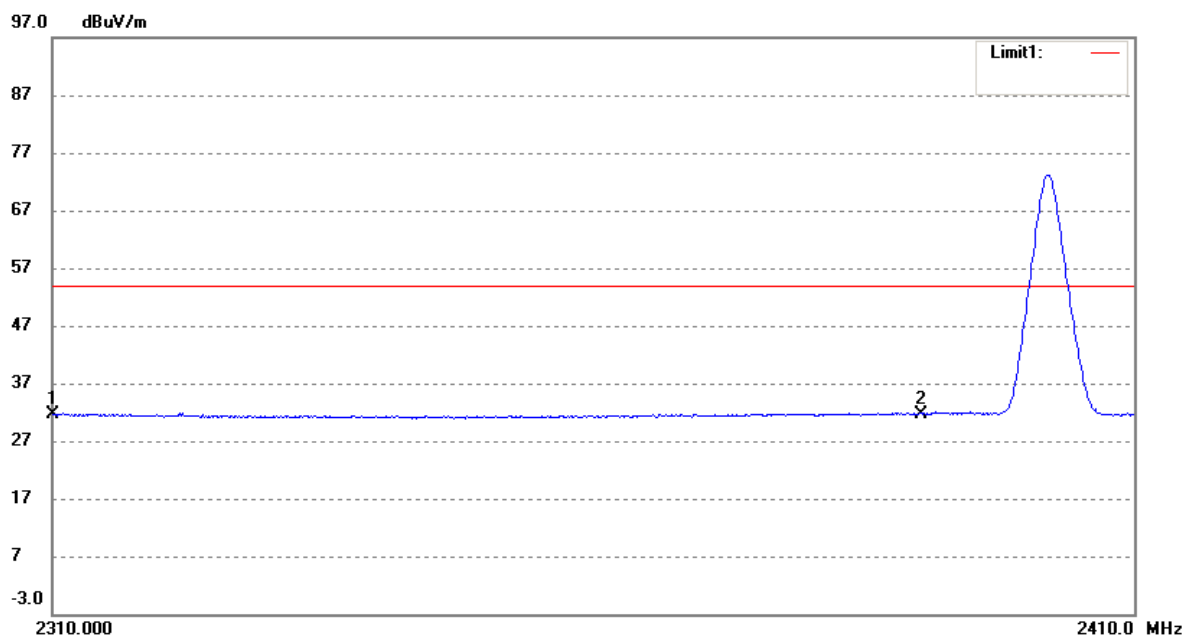
### 5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 100KHz and VBM to 300KHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

### 5.3 Test Result

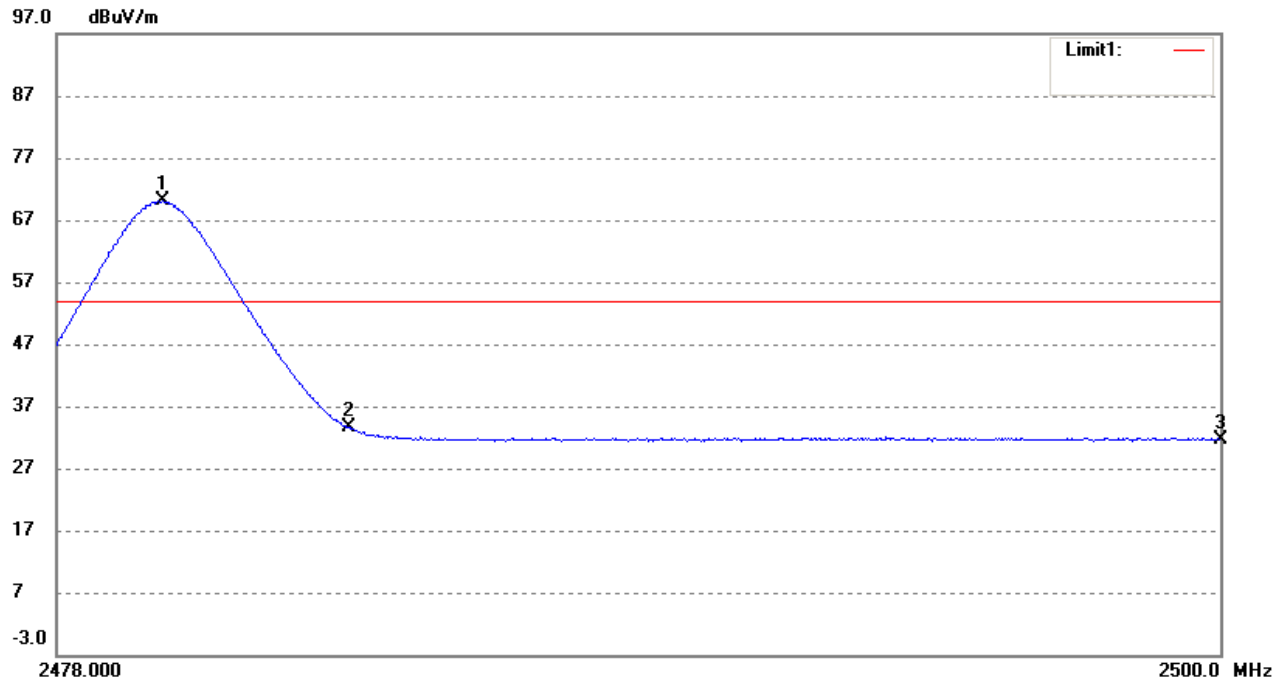
#### PASS

Restricted Bandedge (Radiated)  
Lowest Bandedge-BLE  
Horizontal (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	35.29	-3.69	31.60	54.00	-22.40	Average Detector
	2310.000	47.99	-3.69	44.30	74.00	-29.70	Peak Detector
2	2390.000	35.23	-3.49	31.74	54.00	-22.26	Average Detector
	2390.000	49.23	-3.49	45.74	74.00	-28.26	Peak Detector

Highest Bandedge-BLE  
Horizontal (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.994	73.28	-3.25	70.03	/	/	Average Detector
	2479.819	77.23	-3.25	73.98	/	/	Peak Detector
2	2483.500	36.85	-3.25	33.60	54.00	-20.40	Average Detector
	2483.500	48.27	-3.25	45.02	74.00	-28.98	Peak Detector
3	2500.000	34.95	-3.20	31.75	54.00	-22.25	Average Detector
	2500.000	47.29	-3.20	44.09	74.00	-29.91	Peak Detector

## 6 OCCUPIED BANDWIDTH MEASUREMENT

### 6.1 Test Setup

Same as Radiated Emission Measurement

### 6.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on FCC Part15 C Section 15.249(a): RBW= 100KHz. VBW= 300 KHz, Span=3MHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

### 6.3 Measurement Equipment Used

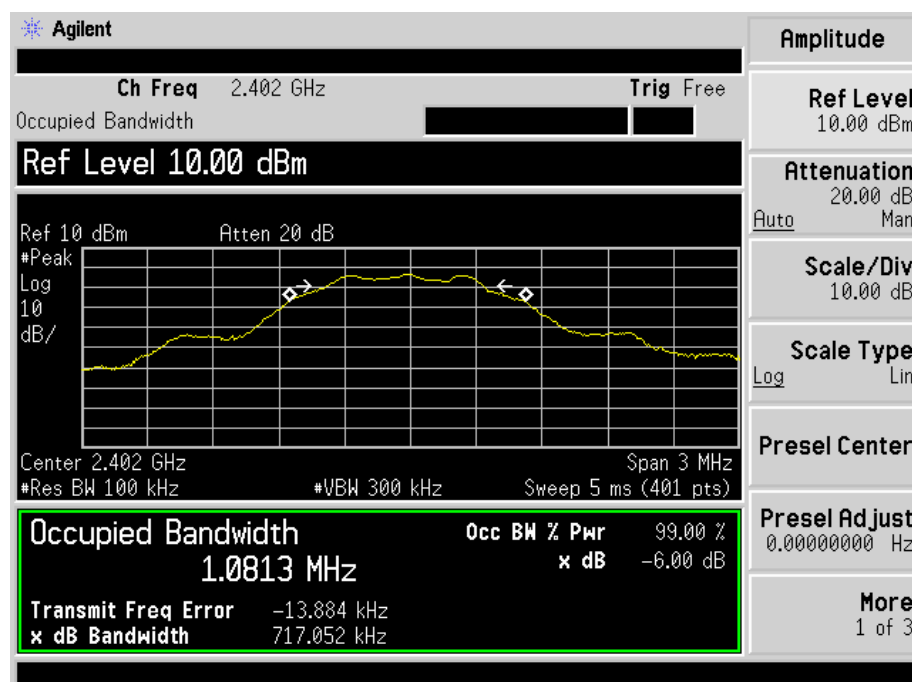
Same as Radiated Emission Measurement

### 6.4 Test Result

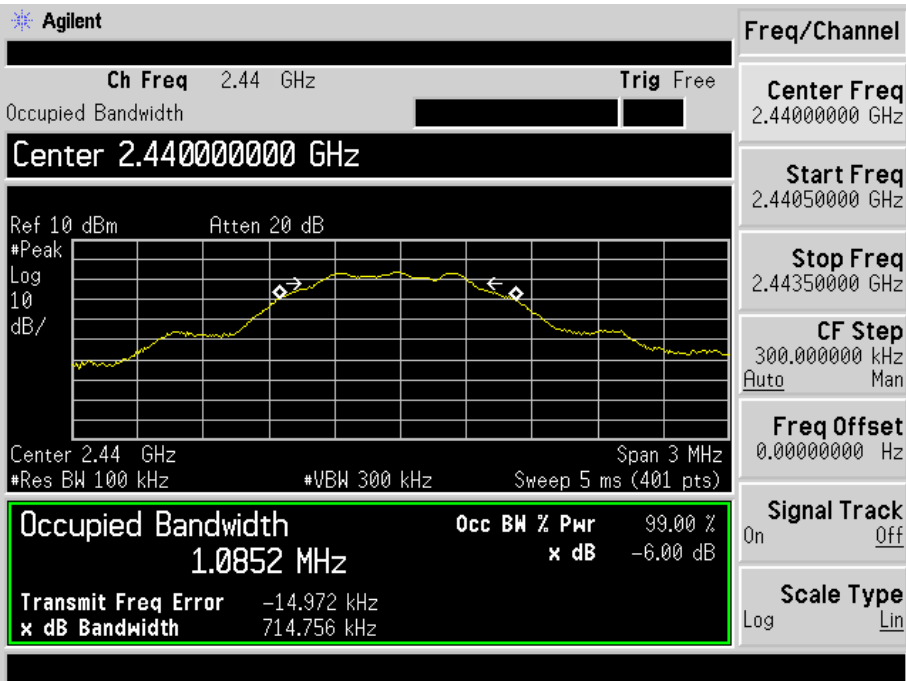
**PASS**

Frequency	20dB Bandwidth (KHz)	Result
2402 MHz	717.052	<b>PASS</b>
2440 MHz	714.756	<b>PASS</b>
2480 MHz	715.826	<b>PASS</b>

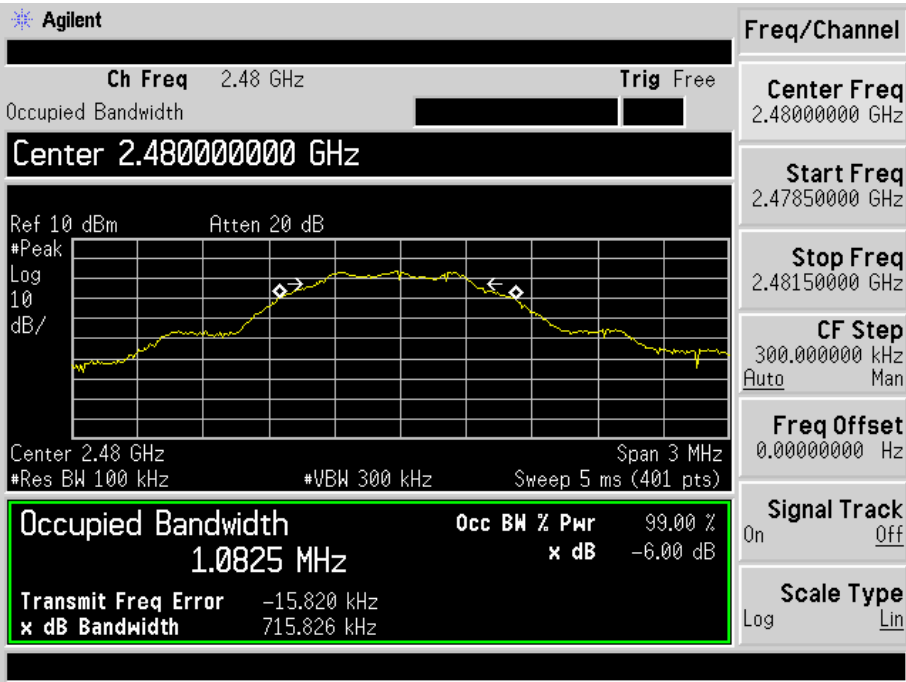
CH: 2402MHz



CH: 2440MHz



CH: 2480MHz



## 7 ANTENNA REQUIREMENT

### Standard Applicable

For intentional device, according to FCC 47 CFR 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. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

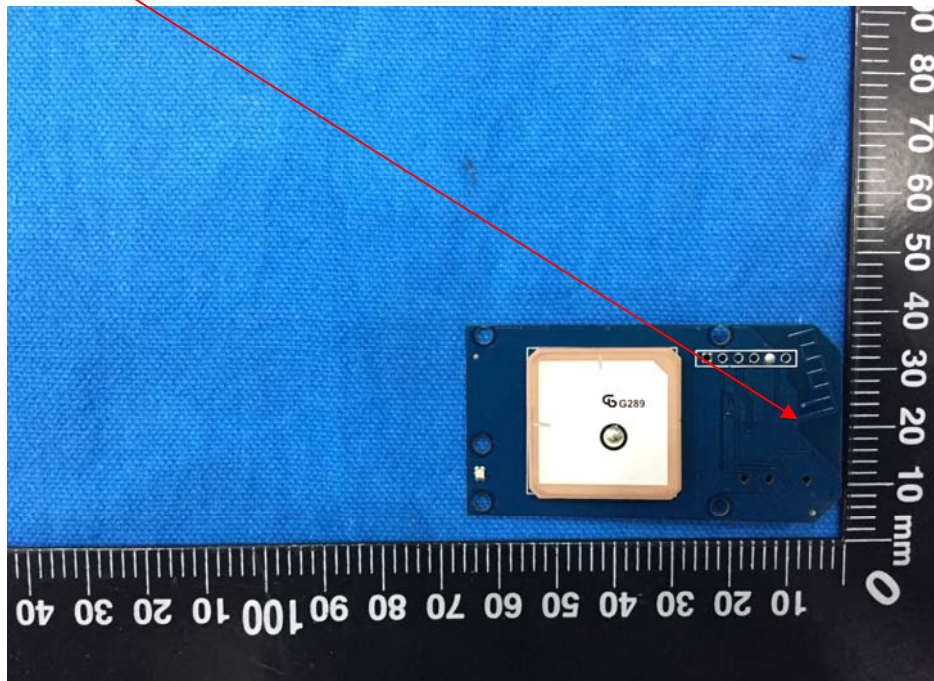
### Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

### Antenna Connected Construction

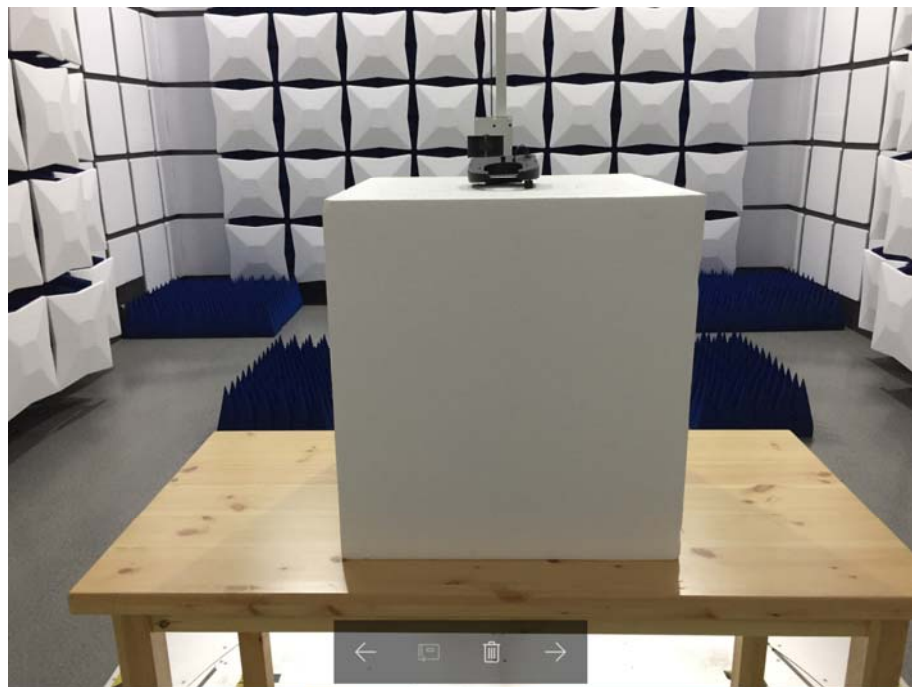
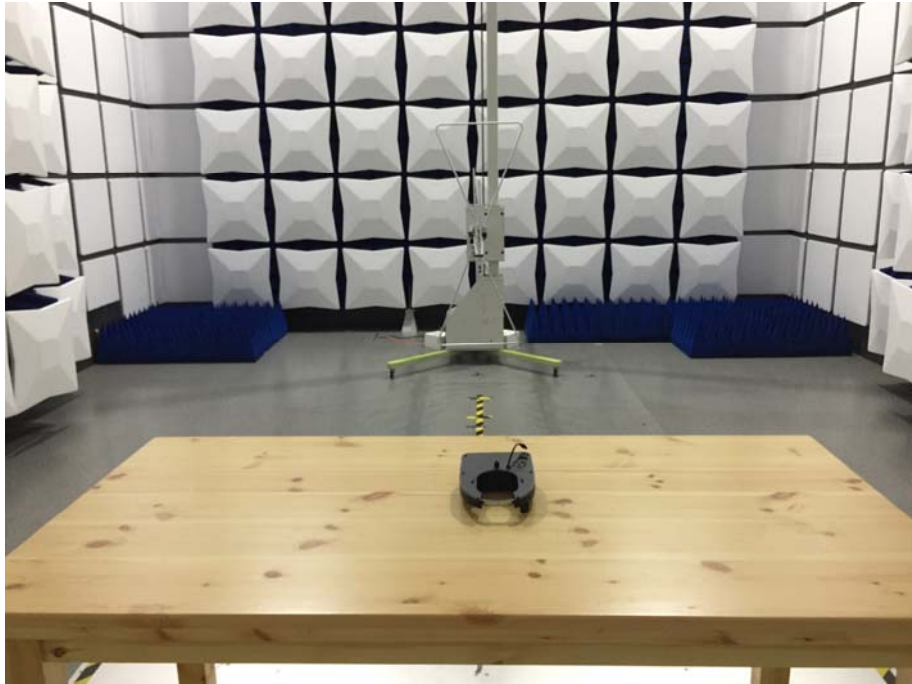
The antenna used in this product is a PCB Antenna, The directional gains of antenna used for transmitting is 0dBi.

ANTENNA :



## 8 PHOTOGRAPH OF TEST

### 8.1 Radiated Emission



## 8.2 Conducted Emission

