FCC TEST REPORT

Test report
On Behalf of
Shenzhen Lecoolbosch Technology Co., Ltd.
For
Intelligent Fitness Apparatus
Model No.: LK-05

FCC ID: 2AO77LK-05

Prepared for :	**Shenzhen Lecoolbosch Technology Co., Ltd.** **R401/ F, Hengchangrong Industrial Park, Huaning Road West, Longhua District, Shenzhen, China**
Prepared By :	**Shenzhen United Testing Technology Co., Ltd.** **2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China**

Date of Test:	**Mar. 19, 2018 ~ Mar. 26, 2018**
Date of Report:	**Mar. 26, 2018**
Report Number:	**UNIA2018013132-E**

TEST RESULT CERTIFICATION

Applicant's name ..... :	Shenzhen Lecoolbosch Technology Co., Ltd.
Address..... :	R401/ F, Hengchangrong Industrial Park, Huaning Road West, Longhua District, Shenzhen, China
Manufacture's Name..... :	Shenzhen Lecoolbosch Technology Co., Ltd.
Address..... :	R401/ F, Hengchangrong Industrial Park, Huaning Road West, Longhua District, Shenzhen, China

Product description

Trade Mark:	lecoolbosch
Product name.....:	Intelligent Fitness Apparatus
Model and/or type reference :	LK-05
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. 19, 2018 ~ Mar. 26, 2018
Date of Issue .....:	Mar. 26, 2018
Test Result.....:	**Pass**

Prepared by: Kahn yang/Editor

Reviewer: Sherwin Qian/Supervisor

Approved & Authorized Signer: Liuze/Manager

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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 : Shenzhen United Testing Technology Co., Ltd.

Address 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, 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	Intelligent Fitness Apparatus
Model Name	LK-05
Serial No	N/A
Model Difference	N/A
FCC ID	2AO77LK-05
Antenna Type	PCB Antenna
Antenna Gain	0 dBi
Operation frequency	2402-2480Mhz
Number of Channels	40CH
Modulation Type	GFSK
Power Source	DC3.8V From Battery or DC5V, 1A from adapter With AC 120V/60Hz
Power Rating	DC3.8V From Battery or DC5V, 1A from adapter With AC 120V/60Hz

2.1.1 Carrier Frequency of Channels

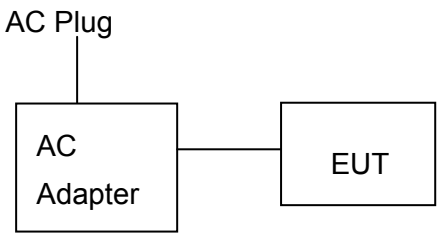
Channel List							
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
01	2402	11	2422	21	2442	31	2462
02	2404	12	2424	22	2444	32	2464
03	2406	13	2426	23	2446	33	2466
04	2408	14	2428	24	2448	34	2468
05	2410	15	2430	25	2450	35	2470
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 and Radiation and Above1GHz 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. 01, 2018	Jan. 01, 2019
2.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 01, 2018	Jan. 01, 2019
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 01, 2018	Jan. 01, 2019
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. 01, 2018	Jan. 01, 2019
6.	Trilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Feb. 01, 2018	Jan. 01, 2019
7.	Pre-amplifier	Compliance Direction	PAP-0203	22008	Feb. 01, 2018	Jan. 01, 2019
8.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
9.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 01, 2018	Jan. 01, 2019
10.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 01, 2018	Jan. 01, 2019
11.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 01, 2018	Jan. 01, 2019
12.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
13.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 01, 2018	Jan. 01, 2019
14.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 01, 2018	Jan. 01, 2019
15.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 01, 2018	Jan. 01, 2019
16.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 01, 2018	Jan. 01, 2019
17.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
18.	Power Meter	R&S	NRVD	SEL0069	Feb. 01, 2018	Jan. 01, 2019
19.	Power Sensor	R&S	URV5-Z2	SEL0071	Feb. 01, 2018	Jan. 01, 2019
20.	Power Sensor	R&S	URV5-Z2	SEL0072	Feb. 01, 2018	Jan. 01, 2019
21.	Software EMC32	R&S	EMC32-S	SEL0082	N/A	N/A
22.	Log-periodic Antenna	Amplifier Reasearch	APT1.580	SEL0073	Feb. 01, 2018	Jan. 01, 2019
23.	Loop Antenna	Schwarz beck	FMZB 1516	9773	Feb. 01, 2018	Jan. 01, 2019
24.	Broadband Antenna	Schwarz beck	VULB9163	9163-333	Feb. 01, 2018	Jan. 01, 2019
25.	Horn Antenna	ETS	3117	00086197	Feb. 01, 2018	Jan. 01, 2019
26.	Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170582	Feb. 01, 2018	Jan. 01, 2019
27.	Antenna Tripod	Amplifier Reasearch	TP1000A	SEL0074	Feb. 01, 2018	Jan. 01, 2019
28.	High Gain Horn Antenna	Amplifier Reasearch	AT4002A	SEL0075	Feb. 01, 2018	Jan. 01, 2019
29.	Spectrum analyzer	Agilent	N9020A	MY499110048	Feb. 01, 2018	Jan. 01, 2019
30.	Spectrum analyzer	Agilent	E4407B	MY46184326	Feb. 01, 2018	Jan. 01, 2019
31.	Spectrum analyzer	R&S	FSP30	836079/035	Feb. 01, 2018	Jan. 01, 2019

3. CONDUCTED EMISSIONS TEST

3.1 Conducted Power Line Emission Limit

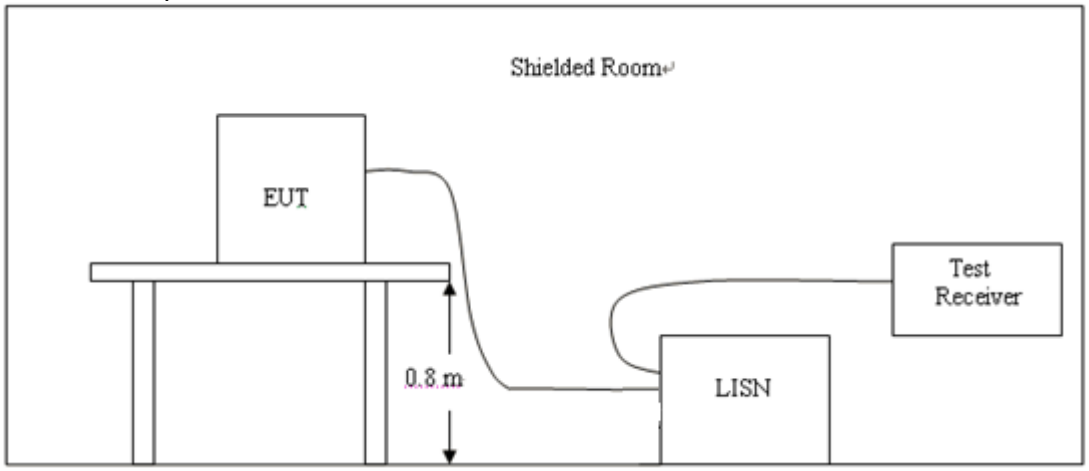
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

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

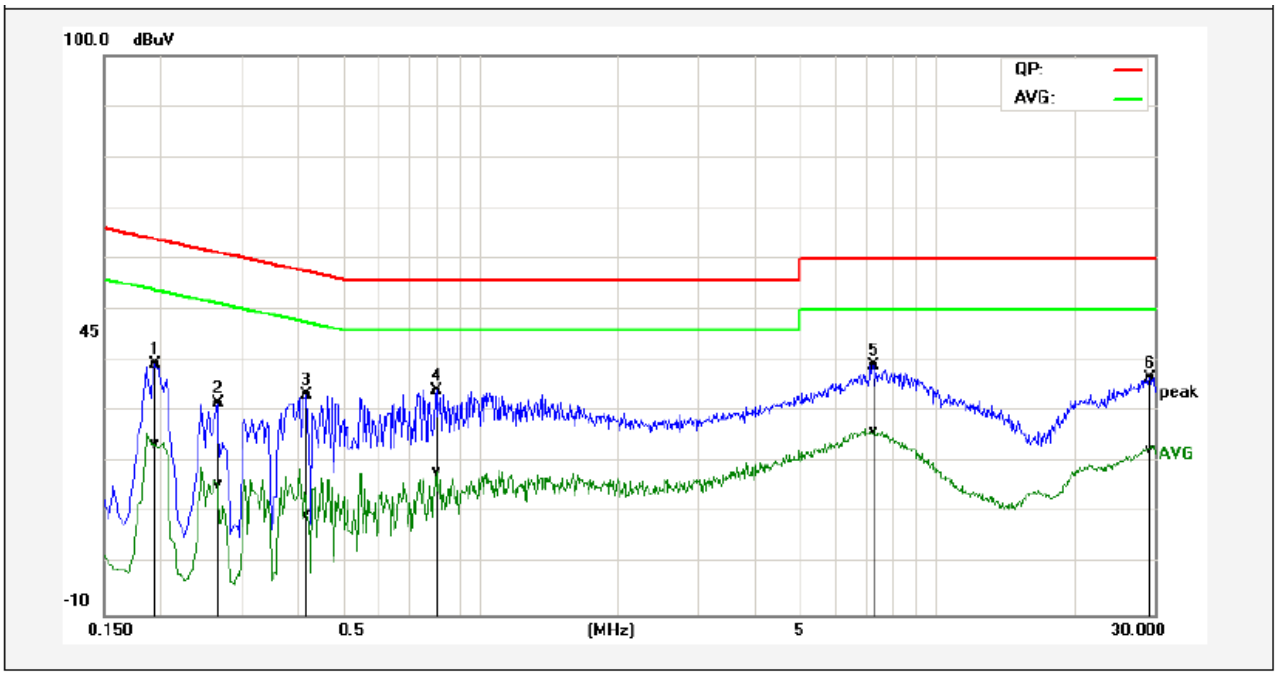
1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2, Support equipment, if needed, was placed as per ANSI 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

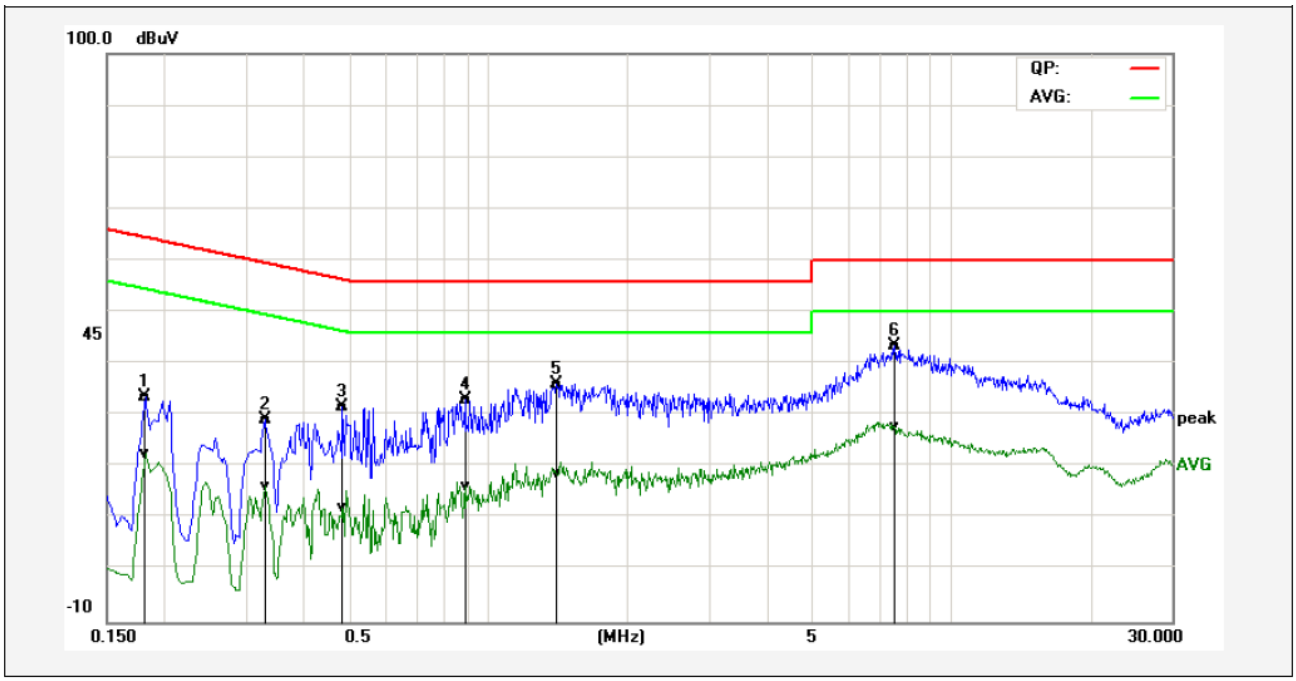
All the test modes completed for test.

Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1940	39.11	23.41	0.21	39.32	23.62	63.86	53.86	-24.54	-30.24	Pass
2P	0.2660	31.41	15.58	0.18	31.59	15.76	61.24	51.24	-29.65	-35.48	Pass
3P	0.4180	33.02	9.69	0.18	33.20	9.87	57.49	47.49	-24.29	-37.62	Pass
4P	0.8020	34.03	17.89	0.18	34.21	18.07	56.00	46.00	-21.79	-27.93	Pass
5*	7.2660	38.81	25.93	0.25	39.06	26.18	60.00	50.00	-20.94	-23.82	Pass
6P	29.3060	35.64	21.64	0.89	36.53	22.53	60.00	50.00	-23.47	-27.47	Pass

Neutral



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1820	33.49	22.44	0.20	33.69	22.64	64.39	54.39	-30.70	-31.75	Pass
2P	0.3300	29.11	16.13	0.16	29.27	16.29	59.45	49.45	-30.18	-33.16	Pass
3P	0.4860	31.40	12.02	0.19	31.59	12.21	56.24	46.24	-24.65	-34.03	Pass
4P	0.8900	32.91	15.99	0.17	33.08	16.16	56.00	46.00	-22.92	-29.84	Pass
5P	1.4060	35.90	18.49	0.23	36.13	18.72	56.00	46.00	-19.87	-27.28	Pass
6*	7.5620	43.25	27.61	0.21	43.46	27.82	60.00	50.00	-16.54	-22.18	Pass

4 RADIATED EMISSION TEST

4.1 Radiation Limit

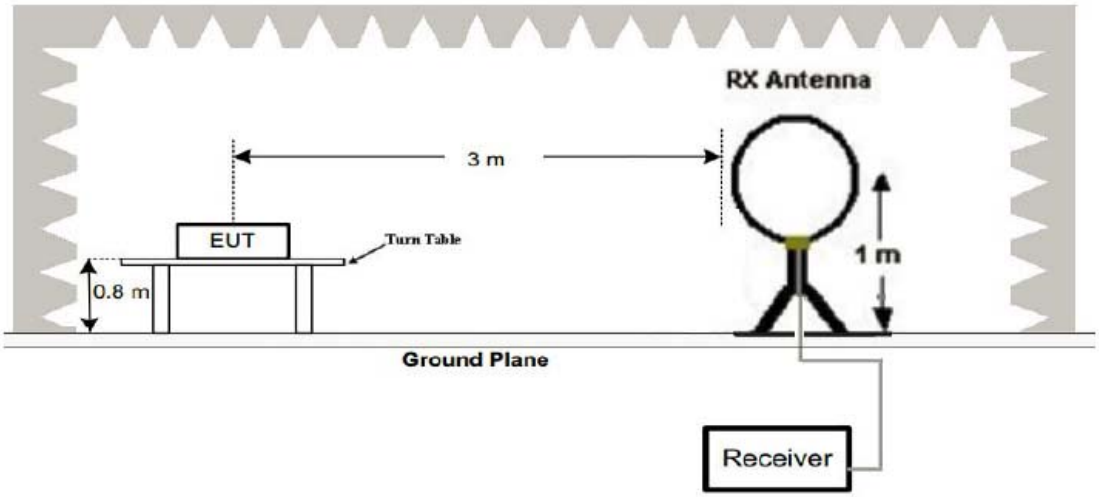
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values：

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

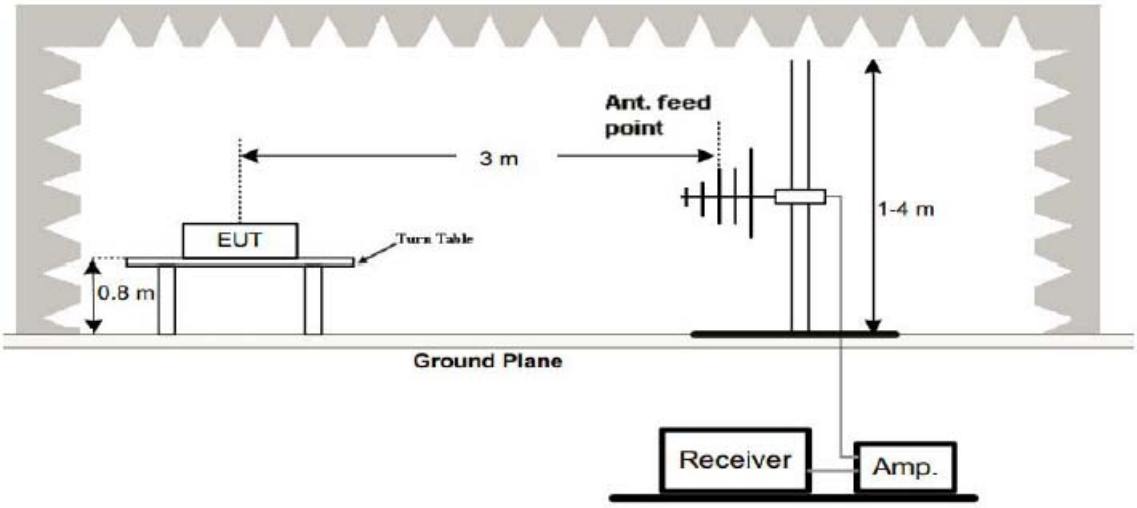
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

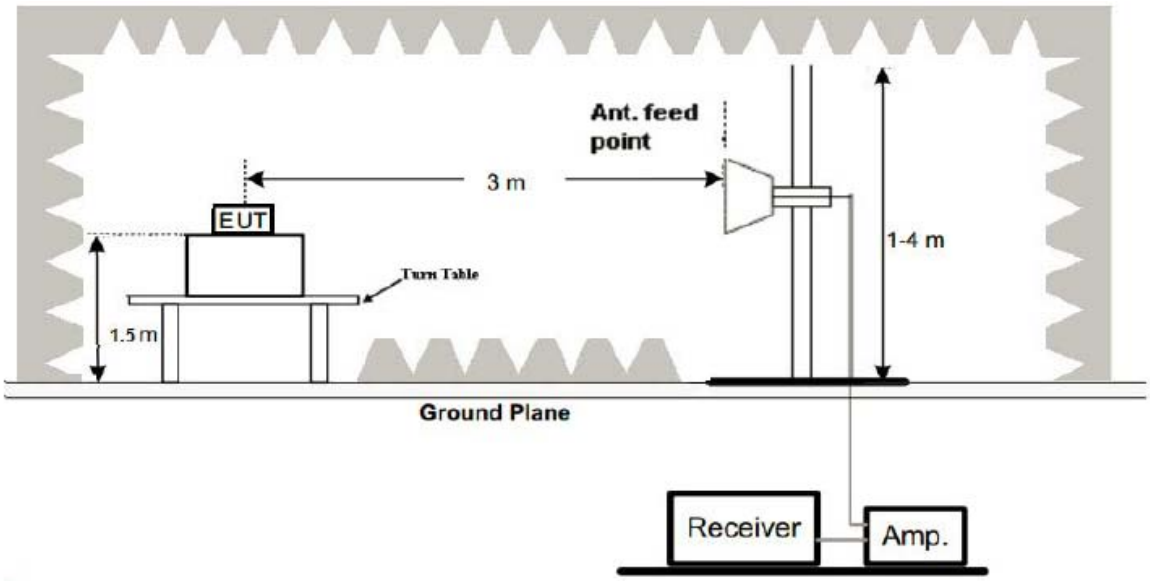
（1）Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.3 Test Procedure

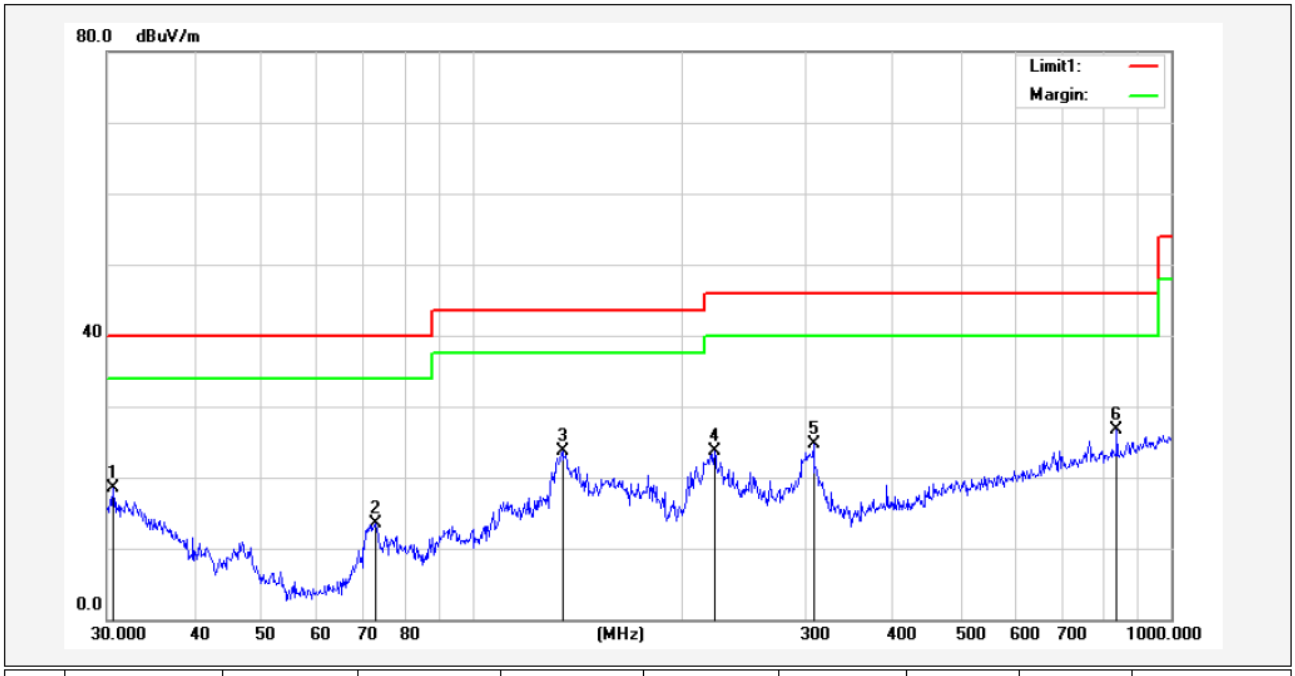
1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum 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

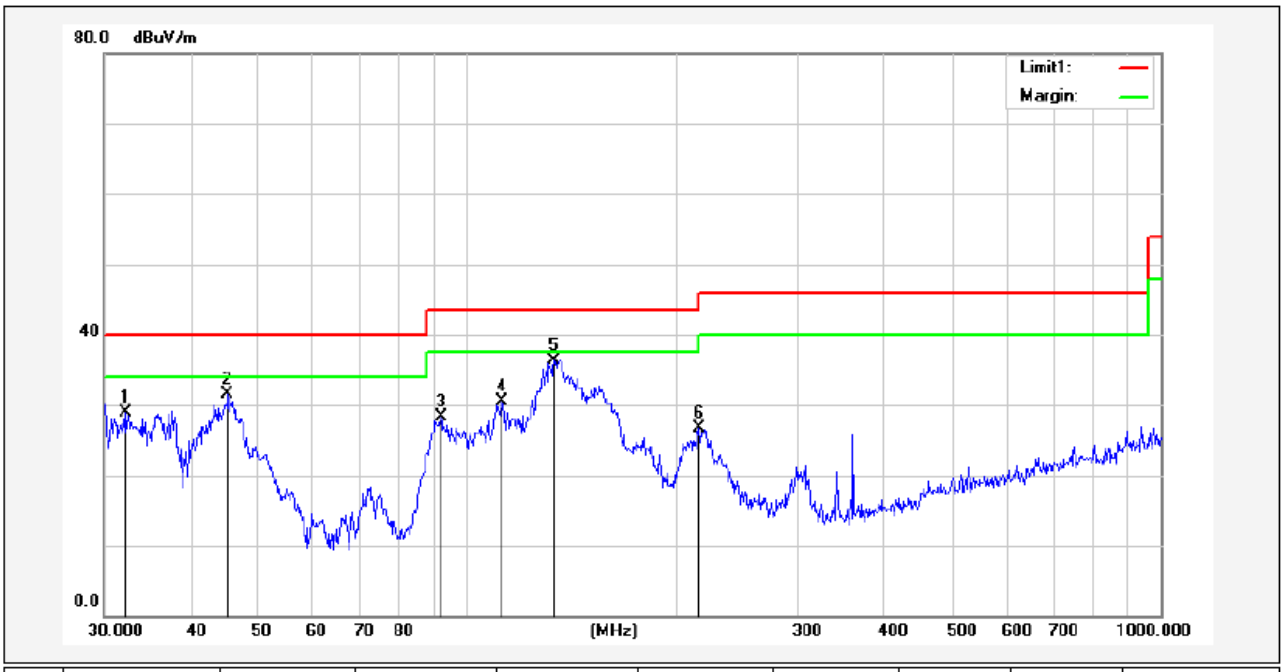
PASS
All the test modes completed for test. The worst case of Radiated Emission below 1 GHz is TX CH 2402Mhz test mode; the test data of this mode was reported.

Below 1GHz Test Results:
Antenna polarity: H



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	30.6380	29.09	-10.59	18.50	40.00	-21.50			peak
2	72.8466	34.16	-20.72	13.44	40.00	-26.56			peak
3	134.5592	36.39	-12.75	23.64	43.50	-19.86			peak
4	222.1698	38.09	-14.46	23.63	46.00	-22.37			peak
5	307.8313	36.84	-12.05	24.79	46.00	-21.21			peak
6*	836.2443	29.93	-3.25	26.68	46.00	-19.32			peak

Antenna polarity: V



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	32.1795	40.73	-11.76	28.97	40.00	-11.03			peak
2	45.2166	52.93	-21.45	31.48	40.00	-8.52			peak
3	91.8163	46.34	-18.08	28.26	43.50	-15.24			peak
4	112.1305	44.16	-13.63	30.53	43.50	-12.97			peak
5*	133.6188	48.97	-12.60	36.37	43.50	-7.13			peak
6	216.0240	41.22	-14.44	26.78	46.00	-19.22			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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2402	112.56	-5.84	106.72	114	-7.28	peak
2402	86.42	-5.84	80.58	94	-13.42	AVG
4804	57.16	-3.64	53.52	74	-20.48	peak
4804	46.33	-3.64	42.69	54	-11.31	AVG
7206	55.49	-0.95	54.54	74	-19.46	peak
7206	42.07	-0.95	41.12	54	-12.88	AVG
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2402	111.83	-5.84	105.99	114	-8.01	peak
2402	85.49	-5.84	79.65	94	-14.35	AVG
4804	56.75	-3.64	53.11	74	-20.89	peak
4804	45.66	-3.64	42.02	54	-11.98	AVG
7206	55.14	-0.95	54.19	74	-19.81	peak
7206	41.52	-0.95	40.57	54	-13.43	AVG
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---	---	---	---	---	---	---
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

CH Middle (2440MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2440	111.27	-5.71	105.56	114	-8.44	peak
2440	85.94	-5.71	80.23	94	-13.77	AVG
4880	56.33	-3.51	52.82	74	-21.18	peak
4880	45.86	-3.51	42.35	54	-11.65	AVG
7320	55.18	-0.82	54.36	74	-19.64	peak
7320	40.82	-0.82	40	54	-14	AVG
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2440	110.89	-5.71	105.18	114	-8.82	peak
2440	84.72	-5.71	79.01	94	-14.99	AVG
4880	55.76	-3.51	52.25	74	-21.75	peak
4880	45.37	-3.51	41.86	54	-12.14	AVG
7320	54.61	-0.82	53.79	74	-20.21	peak
7320	39.55	-0.82	38.73	54	-15.27	AVG
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---	---	---	---	---	---	---
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

CH High (2480MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2480	110.42	-5.65	104.77	114	-9.23	peak
2480	83.59	-5.65	77.94	94	-16.06	AVG
4960	54.77	-3.43	51.34	74	-22.66	peak
4960	45.81	-3.43	42.38	54	-11.62	AVG
7440	54.45	-0.75	53.7	74	-20.3	peak
7440	40.28	-0.75	39.53	54	-14.47	AVG
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---	---	---	---	---	---	---
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2480	108.88	-5.65	103.23	114	-10.77	peak
2480	84.66	-5.65	79.01	94	-14.99	AVG
4960	55.39	-3.43	51.96	74	-22.04	peak
4960	43.14	-3.43	39.71	54	-14.29	AVG
7440	54.32	-0.75	53.57	74	-20.43	peak
7440	39.48	-0.75	38.73	54	-15.27	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---
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

Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2390	56.47	-5.81	50.66	74	-23.34	peak
2390	/	-5.81	/	54	/	AVG
2400	55.11	-5.84	49.27	74	-24.73	peak
2400	/	-5.84	/	54	/	AVG
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)	
2390	55.29	-5.81	49.48	74	-24.52	peak
2390	/	-5.81	/	54	/	AVG
2400	53.94	-5.84	48.1	74	-25.9	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	55.29	-5.65	49.64	74	-24.36	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	54.13	-5.65	48.48	74	-25.52	peak
2483.5	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

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

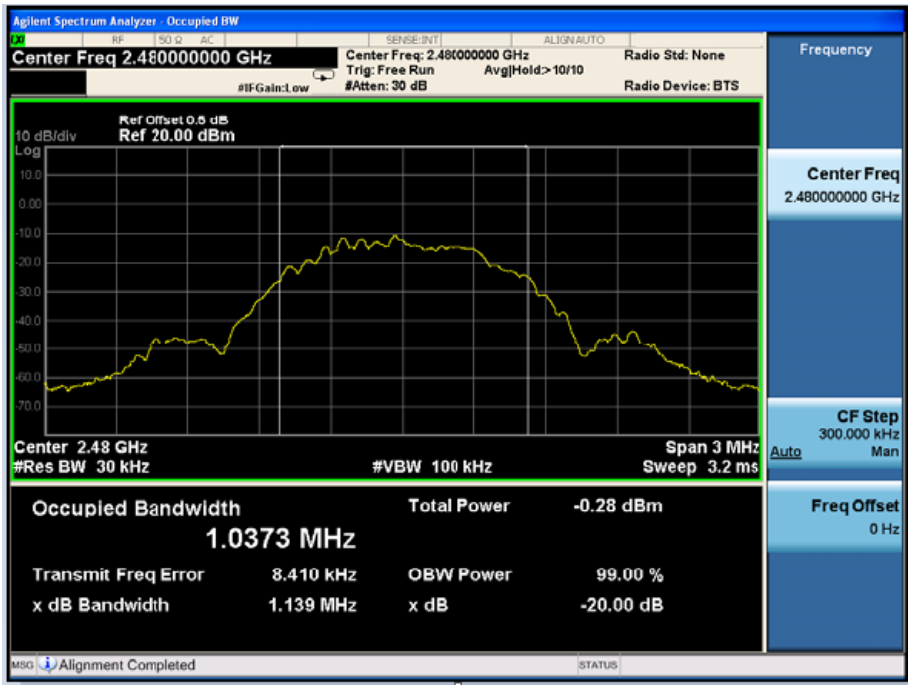
PASS

Frequency	20dB Bandwidth (KHz)	Result
2402 MHz	1.0373	**PASS**
2440 MHz	1.0369	**PASS**
2480 MHz	1.0373	**PASS**

CH: 2402MHz

CH: 2440MHz

CH: 2480MHz



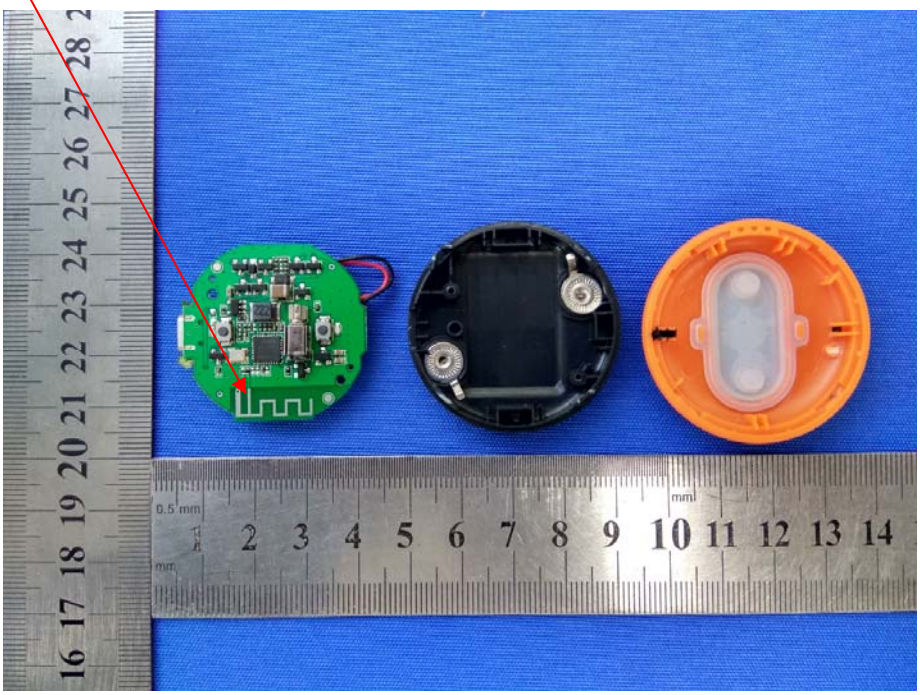
7 ANTENNA REQUIREMENT

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.

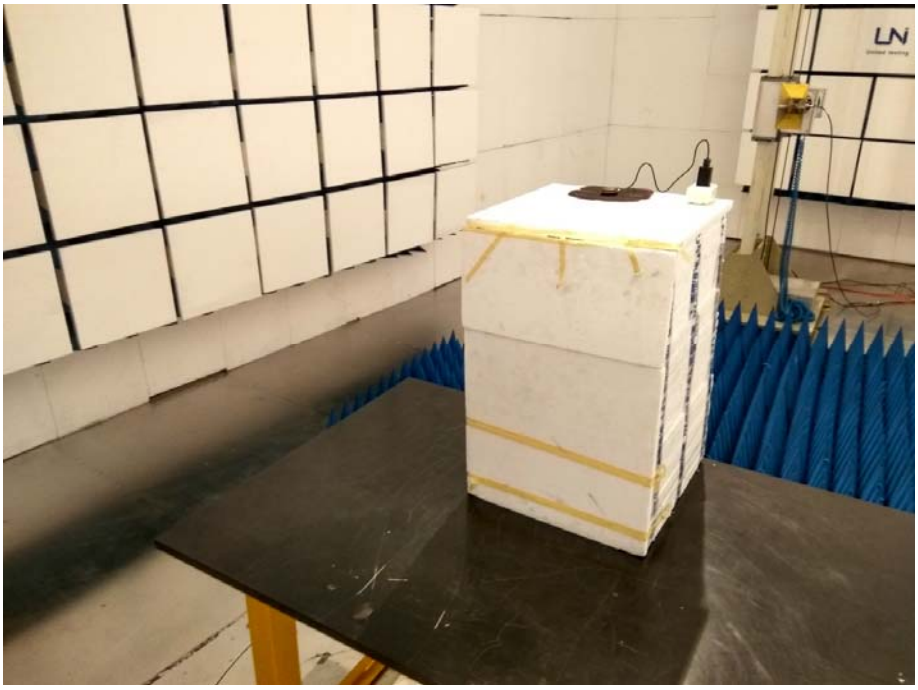
Antenna Connected Construction
The antenna used in this product is a PCB Antenna, The directional gains of antenna used for transmitting is 2dBi.

ANTENNA :



8 PHOTOGRAPH OF TEST

8.1 Radiated Emission



8.2 Conducted Emission