



FCC TEST REPORT

**Test report
On Behalf of
Shenzhen Ruichi Technology Co., Ltd
For
TMKB**

Model No.: TMKB GK61, Please refer to page 6 for Serial models

FCC ID: 2A6LZ-TMKBGK61

Prepared For : Shenzhen Ruichi Technology Co., Ltd

**No. 1607, plant 1, kanghuai Industrial Park, No. 60, Ping'an Road, Dafu
community, Guanlan street, Longhua District, Shenzhen, China**

Prepared By : Shenzhen HUAK Testing Technology Co., Ltd.

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Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**

Date of Test: Mar. 22, 2022 ~ Mar. 31, 2022

Date of Report: Mar. 31, 2022

Report Number: HK2203221079-2E

**TEST RESULT CERTIFICATION****Applicant's name** : Shenzhen Ruichi Technology Co., Ltd

Address : No. 1607, plant 1, kanghuai Industrial Park, No. 60, Ping'an Road, Dafu community, Guanlan street, Longhua District, Shenzhen, China

Manufacture's Name : Shenzhen Ruichi Technology Co., Ltd

Address : No. 1607, plant 1, kanghuai Industrial Park, No. 60, Ping'an Road, Dafu community, Guanlan street, Longhua District, Shenzhen, China

Product description

Trade Mark:



Product name : TMKB

Model and/or type reference : TMKB GK61, Please refer to page 6 for Serial models

FCC Rules and Regulations Part 15 Subpart C Section 15.249

Standards : ANSI C63.10: 2013

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Date of Test.....:Date (s) of performance of tests: **Mar. 22, 2022 ~ Mar. 31, 2022**Date of Issue.....: **Mar. 31, 2022**Test Result: **Pass**Testing Engineer : Gary Qian

(Gary Qian)

Technical Manager : Eden Hu

(Eden Hu)

Authorized Signatory : Jason Zhou

(Jason Zhou)

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Mar. 31, 2022	Jason Zhou

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1. TEST SUMMARY

1.1. Test Procedures and Results

DESCRIPTION OF TEST	SECTION NUMBER	RESULT
CONDUCTED EMISSIONS TEST	15.207	COMPLIANT
RADIATED EMISSION TEST	15.249(a)/15.209	COMPLIANT
BAND EDGE	15.249(d)/15.205	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	15.215 (c)	COMPLIANT
ANTENNA REQUIREMENT	15.203	COMPLIANT

1.2. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3. Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty	= 2.71dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	= 3.90dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	= 3.90dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	= 4.28dB, k=2



2. GENERAL INFORMATION

2.1. General Description of EUT

Equipment:	TMKB
Model Name:	TMKB GK61
Series Model:	TMKB T61, TMKB T63, TMKB T68, TMKB T71, TMKB T75, TMKB T78, TMKB T83, TMKB T87, TMKB T89, TMKB T93, TMKB T96, TMKB T99, TMKB T104, TMKB T108, TMKB T44, TMKB T22, TMKB T55, TMKB M1, TMKB M2, TMKB M3, TMKB M4, TMKB M5, TMKB M6, TMKB E-1, TMKB E-2, TMKB E-3, TMKB E-4, TMKB E-5, TMKB E-6
Model Difference:	All model's the function, software and electric circuit are the same, only with a product color, appearance and model named different. Test sample model: TMKB GK61.
FCC ID:	2A6LZ-TMKBGK61
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Operation frequency:	2402-2480MHz
Number of Channels:	40CH
Modulation Type:	GFSK
Power Source:	DC 3.7V from battery or DC 5V from Type-C
Power Rating:	DC 3.7V from battery or DC 5V from Type-C

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2.1.1. Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	15	2428	29	2458
2	2404	16	2430	30	2460
3	2406	17	2432	31	2462
4	2408	18	2434	32	2464
5	2410	19	2436	33	2466
6	2412	20	2438	34	2468
7	2414	21	2440	35	2470
8	2416	22	2442	36	2472
9	2418	23	2444	37	2474
10	2420	24	2446	38	2476
11	2422	25	2448	39	2478
12	2424	26	2450	40	2480
13	2426	27	2452		
14	2428	28	2454		

2.2. Operation of EUT During Testing

Operating Mode

The mode is used: **Transmitting mode**

Low Channel: 2402MHz

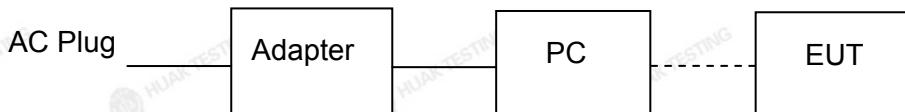
Middle Channel: 2440MHz

High Channel: 2480MHz



2.3. Description of Test Setup

Operation of EUT during conducted and radiation below 1GHz testing:



Operation of EUT during radiation above 1GHz testing:



PC information

Model: TP00067A

Input: DC20V, 2.25-3.25A

Output: 5VDC, 0.5A

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



2.4. Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 18, 2022	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 18, 2022	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 18, 2022	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 18, 2022	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 18, 2022	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 18, 2022	1 Year
11.	Pre-amplifier	EMCI	EMC051845S E	HKE-015	Feb. 18, 2022	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 18, 2022	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JY3120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 18, 2022	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 18, 2022	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 18, 2022	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19.	Hight gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 18, 2022	1 Year

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3. CONDUCTED EMISSIONS TEST

3.1. Conducted Power Line Emission Limit

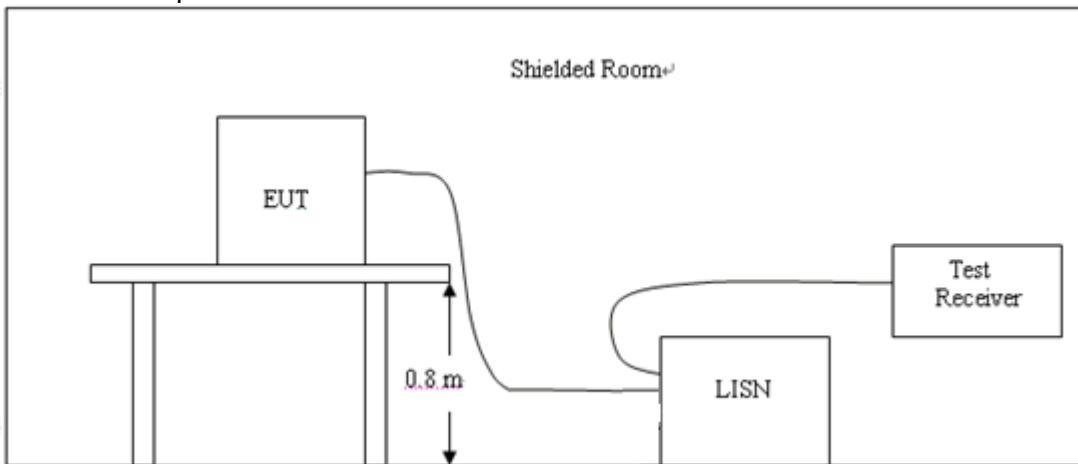
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following.

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	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

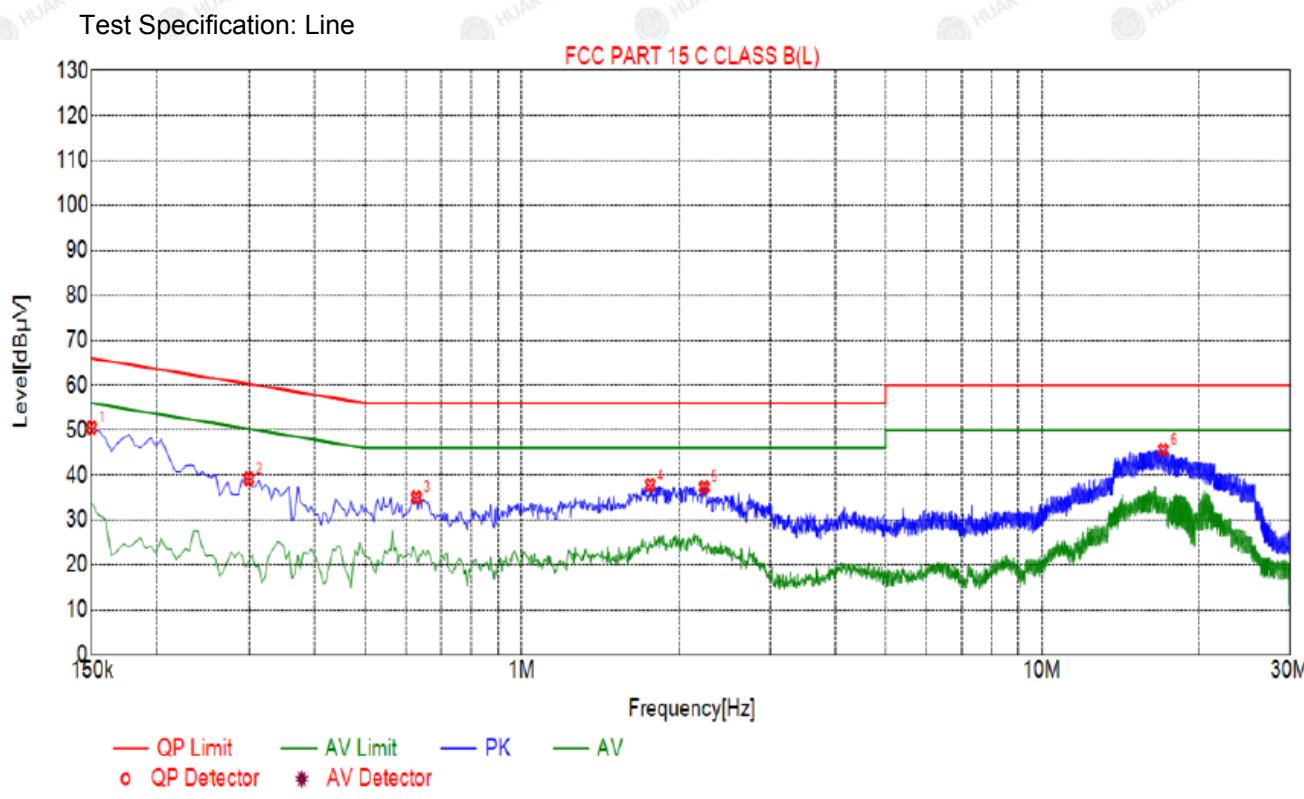


3.3. Test Procedure

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

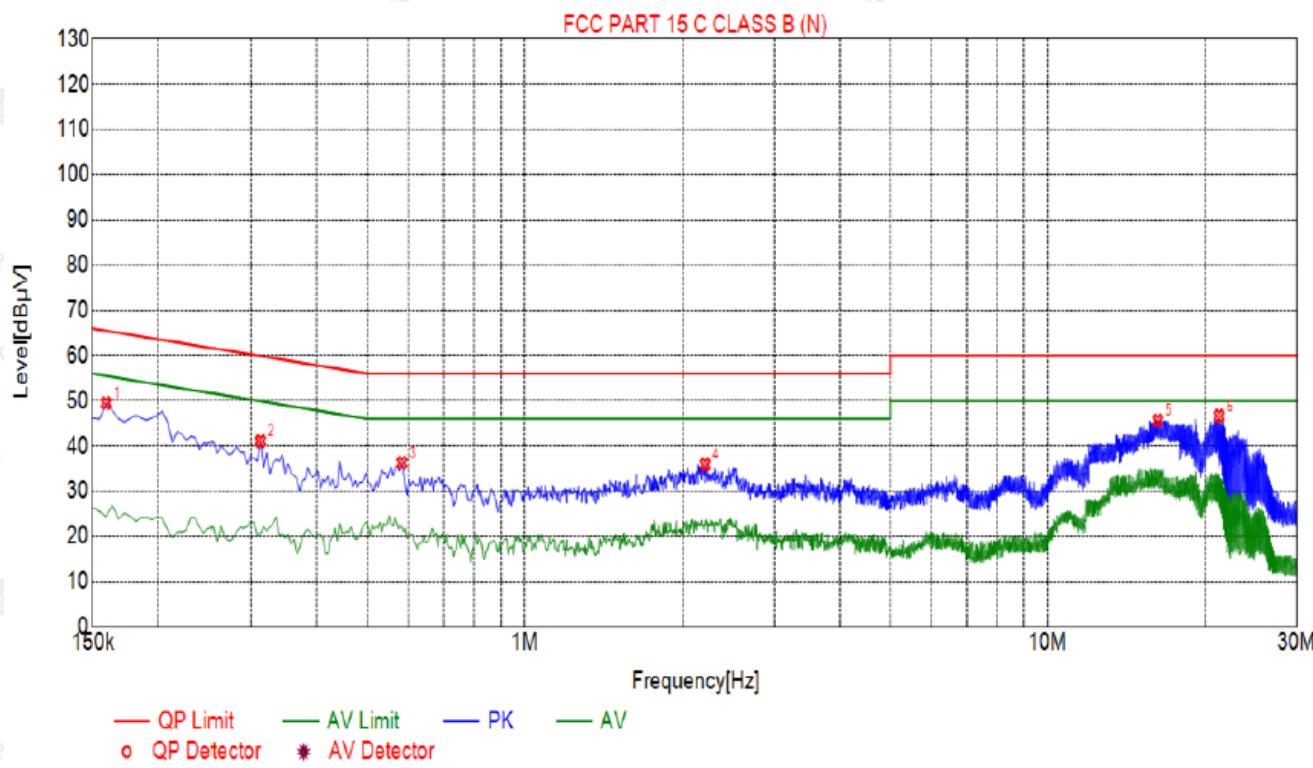


Suspected List								
NO.	Freq. [MHz]	Level [dB μ V]	Factor [dB]	Limit [dB μ V]	Margin [dB]	Reading [dB μ V]	Detector	Type
1	0.1500	50.53	20.03	66.00	15.47	30.50	PK	L
2	0.2985	39.16	20.04	60.28	21.12	19.12	PK	L
3	0.6270	35.01	20.05	56.00	20.99	14.96	PK	L
4	1.7655	37.80	20.14	56.00	18.20	17.66	PK	L
5	2.2425	37.31	20.17	56.00	18.69	17.14	PK	L
6	17.1105	45.63	20.00	60.00	14.37	25.63	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor



Suspected List

NO.	Freq. [MHz]	Level [dB μ V]	Factor [dB]	Limit [dB μ V]	Margin [dB]	Reading [dB μ V]	Detector	Type
1	0.1590	49.49	20.01	65.52	16.03	29.48	PK	N
2	0.3120	41.08	20.05	59.92	18.84	21.03	PK	N
3	0.5820	36.29	20.05	56.00	19.71	16.24	PK	N
4	2.2110	35.92	20.17	56.00	20.08	15.75	PK	N
5	16.2420	45.62	19.98	60.00	14.38	25.64	PK	N
6	21.2775	46.66	20.14	60.00	13.34	26.52	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor



4. RADIATED EMISSION TEST

4.1. Radiation Limit

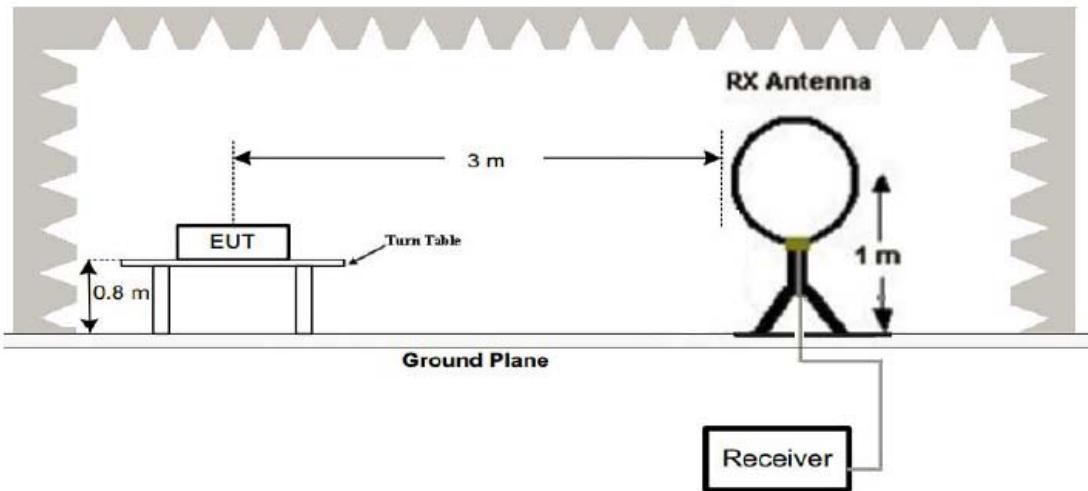
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
0.009-0.490	300	20log 2400/F (kHz)	2400/F (kHz)
0.490-1.705	30	20log 24000/F (kHz)	24000/F (kHz)
1.705-30	30	20log 30	30
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

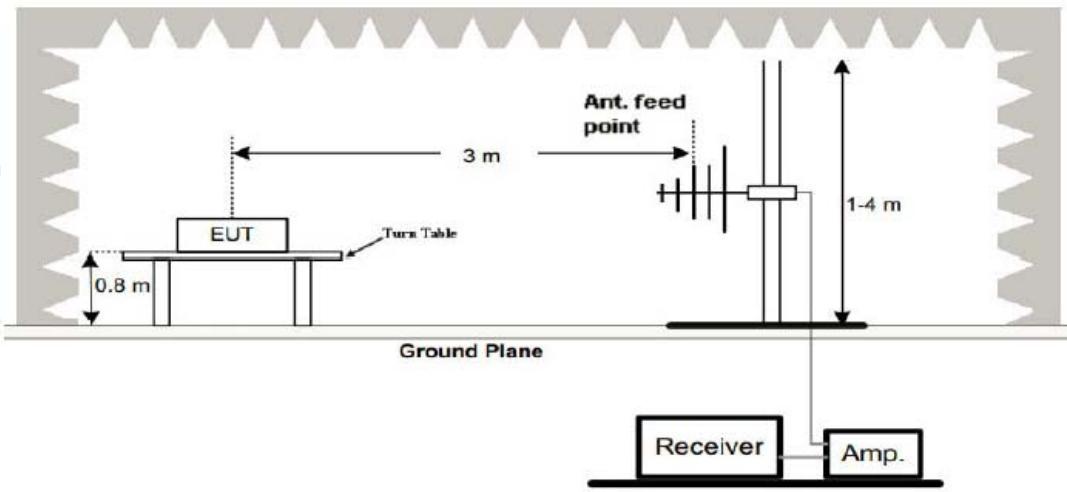
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2. Test Setup

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

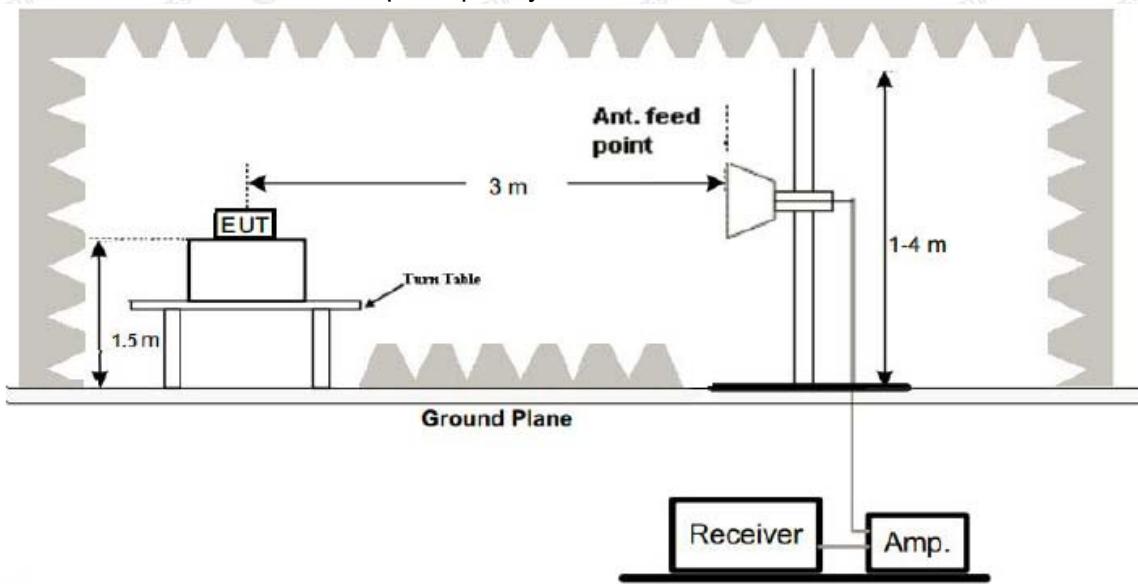


(2) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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

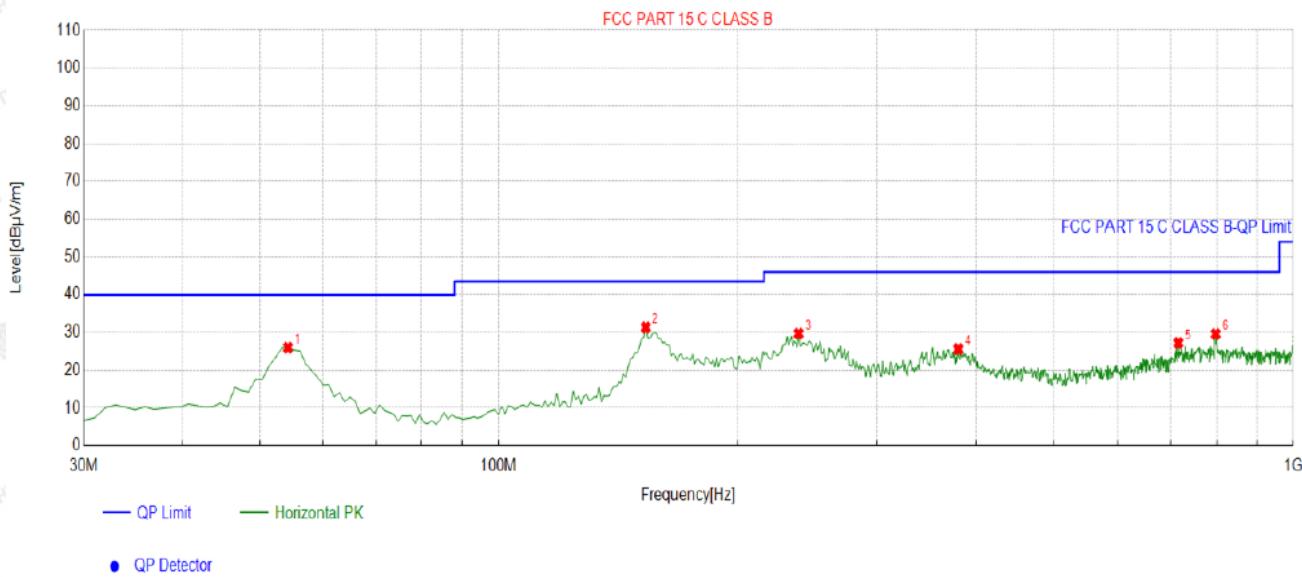
PASS

All the test modes completed for test. The worst case of Radiated Emission is CH 01; the test data of this mode was reported.



Below 1GHz Test Results:

Antenna polarity: H

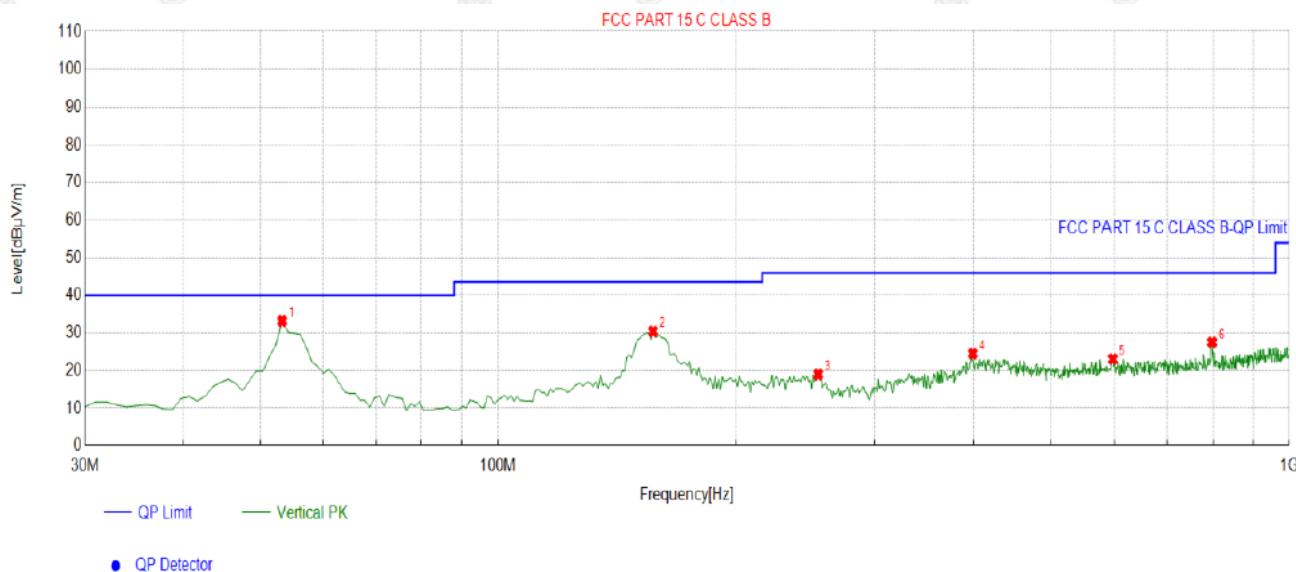


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.2743	-14.30	40.27	25.97	40.00	14.03	100	151	Horizontal
2	153.3133	-18.70	50.03	31.33	43.50	12.17	100	80	Horizontal
3	238.7588	-13.91	43.61	29.70	46.00	16.30	100	358	Horizontal
4	379.5496	-10.83	36.42	25.59	46.00	20.41	100	191	Horizontal
5	716.4765	-4.77	31.97	27.20	46.00	18.80	100	36	Horizontal
6	798.0380	-3.15	32.73	29.58	46.00	16.42	100	56	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Antenna polarity: V



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.3033	-14.15	47.34	33.19	40.00	6.81	100	58	Vertical
2	157.1972	-18.42	48.87	30.45	43.50	13.05	100	312	Vertical
3	254.2943	-13.45	32.41	18.96	46.00	27.04	100	117	Vertical
4	398.9690	-10.43	34.91	24.48	46.00	21.52	100	50	Vertical
5	598.0180	-6.24	29.29	23.05	46.00	22.95	100	1	Vertical
6	798.0380	-3.15	30.67	27.52	46.00	18.48	100	94	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



Above 1 GHz Test Results:

CH Low (2402MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2402	105.73	-5.84	99.89	114	-14.11	peak
2402	82.71	-5.84	76.87	94	-17.13	AVG
4804	56.97	-3.64	53.33	74	-20.67	peak
4804	44.44	-3.64	40.8	54	-13.2	AVG
7206	52.78	-0.95	51.83	74	-22.17	peak
7206	41.14	-0.95	40.19	54	-13.81	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2402	107.29	-5.84	101.45	114	-12.55	peak
2402	82.07	-5.84	76.23	94	-17.77	AVG
4804	56.38	-3.64	52.74	74	-21.26	peak
4804	42.64	-3.64	39	54	-15	AVG
7206	50.86	-0.95	49.91	74	-24.09	peak
7206	39.54	-0.95	38.59	54	-15.41	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



CH Middle (2440MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2440	106.68	-5.71	100.97	114	-13.03	peak
2440	79.43	-5.71	73.72	94	-20.28	AVG
4880	55.57	-3.51	52.06	74	-21.94	peak
4880	42.71	-3.51	39.2	54	-14.8	AVG
7320	53.04	-0.82	52.22	74	-21.78	peak
7320	39.53	-0.82	38.71	54	-15.29	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2440	105.1	-5.71	99.39	114	-14.61	peak
2440	81.84	-5.71	76.13	94	-17.87	AVG
4880	55.88	-3.51	52.37	74	-21.63	peak
4880	43.69	-3.51	40.18	54	-13.82	AVG
7320	50.18	-0.82	49.36	74	-24.64	peak
7320	40.45	-0.82	39.63	54	-14.37	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



CH High (2480MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2480	105.75	-5.65	100.1	114	-13.9	peak
2480	82.71	-5.65	77.06	94	-16.94	AVG
4960	55.80	-3.43	52.37	74	-21.63	peak
4960	40.68	-3.43	37.25	54	-16.75	AVG
7440	50.99	-0.75	50.24	74	-23.76	peak
7440	38.66	-0.75	37.91	54	-16.09	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2480	103.94	-5.65	98.29	114	-15.71	peak
2480	81.6	-5.65	75.95	94	-18.05	AVG
4960	55.96	-3.43	52.53	74	-21.47	peak
4960	42.58	-3.43	39.15	54	-14.85	AVG
7440	53.12	-0.75	52.37	74	-21.63	peak
7440	38.87	-0.75	38.12	54	-15.88	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) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (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. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (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 73.16dB μ V/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) <54 dB μ V/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions are reported.

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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 1MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.



5.3. Test Result

PASS**Radiated Band Edge Test:****Operation Mode: TX CH Low (2402MHz)****Horizontal (Worst case)**

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310	57.15	-5.81	51.34	74	-22.66	peak
2310	/	-5.81	/	54	/	AVG
2390	56.24	-5.84	50.4	74	-23.6	peak
2390	/	-5.84	/	54	/	AVG
2400	55.03	-5.84	49.19	74	-24.81	peak
2400	/	-5.84	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310	57.36	-5.81	51.55	74	-22.45	peak
2310	/	-5.81	/	54	/	AVG
2390	56.87	-5.84	51.03	74	-22.97	peak
2390	/	-5.84	/	54	/	AVG
2400	55.19	-5.84	49.35	74	-24.65	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)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2483.50	56.52	-5.65	50.87	74	-23.13	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.18	-5.65	49.53	74	-24.47	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2483.50	56.14	-5.65	50.49	74	-23.51	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.22	-5.65	49.57	74	-24.43	peak
2500.00	/	-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 ANSI C63.10 section 6.9.2: RBW= 20KHz. VBW= 62 KHz, Span=3MHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

6.3. Measurement Equipment Used

Same as Radiated Emission Measurement

6.4. Test Result

PASS

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.185	PASS
2440 MHz	1.185	PASS
2480 MHz	1.186	PASS

CH: 2402MHz



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CH: 2440MHz



CH: 2480MHz



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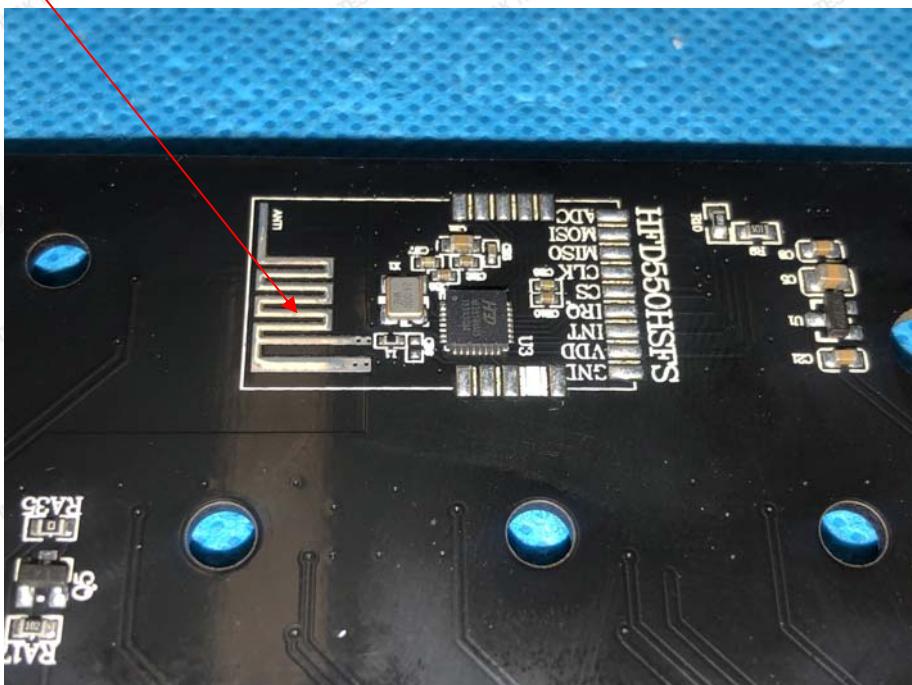
7. ANTENNA REQUIREMENT

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.

Antenna Connected Construction

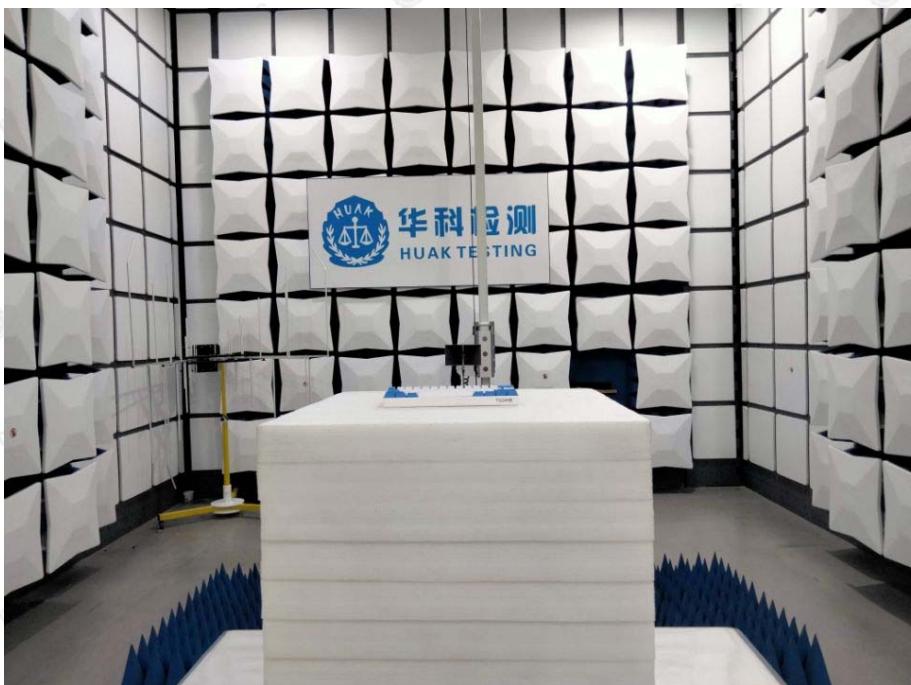
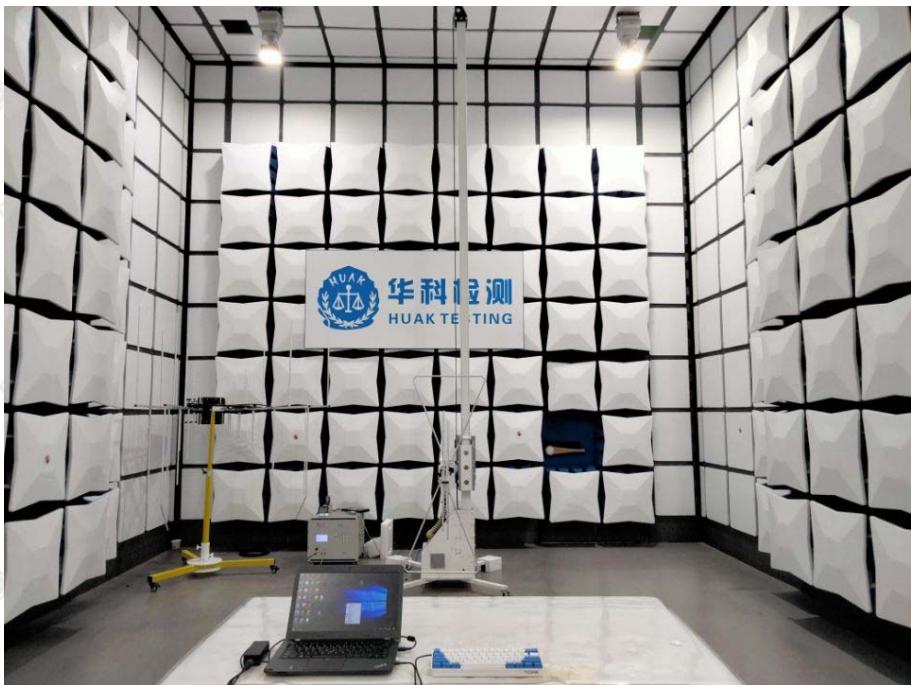
The antenna used in this product is a PCB Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.





8. PHOTOGRAPH OF TEST

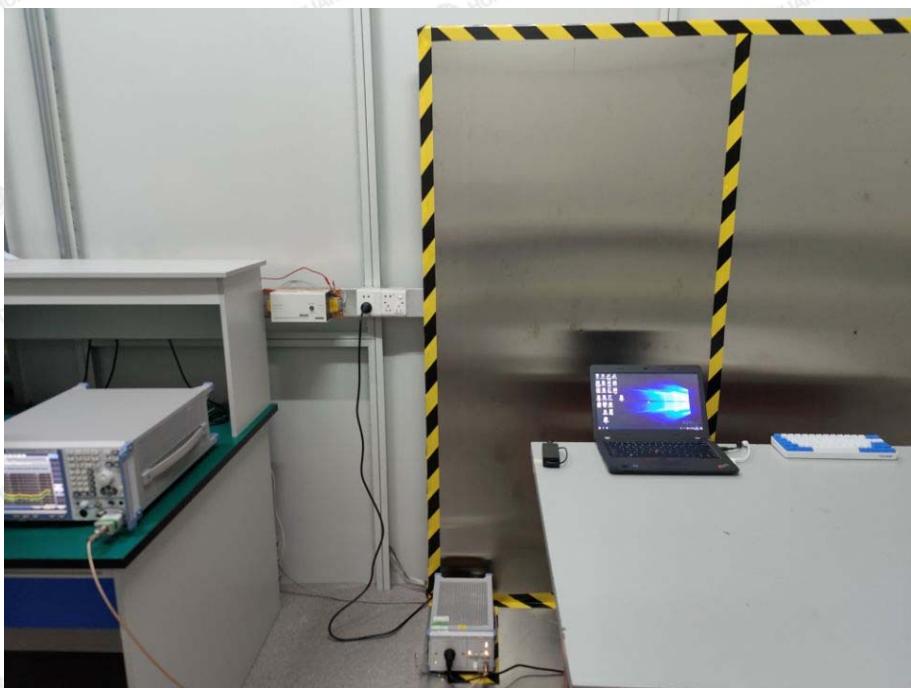
Radiated Emission



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**Conducted Emission**

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**9. PHOTOS OF THE EUT**

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----

