



FCC TEST REPORT

Test report

On Behalf of

DongGuan Xinvouc Electronic Co.Ltd

For

Wireless charger

**Model No.: STG-6826-KB, A41, A1, A3, A5, A6, A10, A11, A12, A16,
A18, A19, A20, A21, C3**

FCC ID: 2A2AR-STG-6826-KB

Prepared For : DongGuan Xinvouc Electronic Co.Ltd

**401, Building 1, NO 53, Gaotang Road, Tangxia Town, Dongguan, Guangdong,
China**

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

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

Date of Test: May. 27, 2022 ~ Jun. 15, 2022

Date of Report: Jun. 15, 2022

Report Number: HK2205272273-1E



TEST RESULT CERTIFICATION

Applicant's name : DongGuan Xinvouc Electronic Co.Ltd

Address..... : 401, Building 1, NO 53, Gaotang Road, Tangxia Town,
Dongguan, Guangdong, China

Manufacture's Name..... : SHENZHEN SHOUYIXIN TECHNOLOGY CO., LTD.

Address..... : Second floor, No. 9, Watao First Road, Wulian Community,
Longgang Street, Shenzhen, China

Product description

Trade Mark: N/A

Product name..... : Wireless charger

Model and/or type reference : STG-6826-KB, A41, A1, A3, A5, A6, A10, A11, A12, A16, A18,
A19, A20, A21, C3

Standards : FCC CFR 47 PART 18

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Date of Test..... :

Date (s) of performance of tests : May. 27, 2022 ~ Jun. 15, 2022

Date of Issue..... : Jun. 15, 2022

Test Result..... : Pass

Testing Engineer :

(Gary Qian)

Technical Manager :

(Eden Hu)

Authorized Signatory :

(Jason Zhou)

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jun. 15, 2022	Jason Zhou



1. TEST SUMMARY

1.1. Test Procedures And Results

DESCRIPTION OF TEST	SECTION NUMBER	RESULT
CONDUCTED EMISSIONS TEST	18.307	COMPLIANT
RADIATED EMISSION TEST	18.305	COMPLIANT

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

1.2. Information of the Test Laboratory

Shenzhen HUAKE 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:	Wireless charger
Model Name:	STG-6826-KB
Series Models:	A41, A1, A3, A5, A6, A10, A11, A12, A16, A18, A19, A20, A21, C3
Model Difference:	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: STG-6826-KB.
Trade Mark:	N/A
FCC ID:	2A2AR-STG-6826-KB
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation frequency:	111.5KHz~205KHz
Test frequency:	115KHz
Number of Channels:	1
Modulation Type:	ASK
Power Source:	Input:DC5V, 2A/ DC9V, 1.67A/ DC9V, 3A/ DC12V, 2.2A Wireless Output:15W/10W/7.5W/5W
Power Rating:	Input:DC5V, 2A/ DC9V, 1.67A/ DC9V, 3A/ DC12V, 2.2A Wireless Output:15W/10W/7.5W/5W



2.2. Carrier Frequency of Channels

Operation Frequency each of channel	
Channel	Frequency
1	115KHz

2.3. Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode

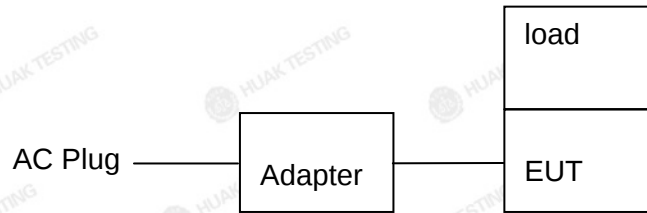
2.4. Test Mode

EUT Mode	Description
Charging	Cell phone setting 15W
	Cell phone setting 10W
	Cell phone setting 7.5W
	Cell phone setting 5W

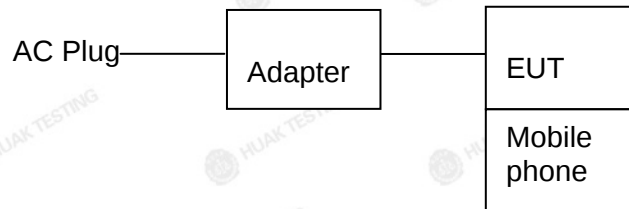


2.5. Description of Test Setup

Operation of EUT during conducted testing:



Operation of EUT during radiation testing:



Adapter information

Model: HW-100225C00

Input: 100-240V, 50-60Hz, 0.75A

Output: 5V, 2A/9V, 2A/10V, 2.25A MAX

Mobile phone information

Model: Iphone XR

The sample was placed (0.8m (30MHz~1GHz), 0.8m (9KHz~30MHz)) 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.

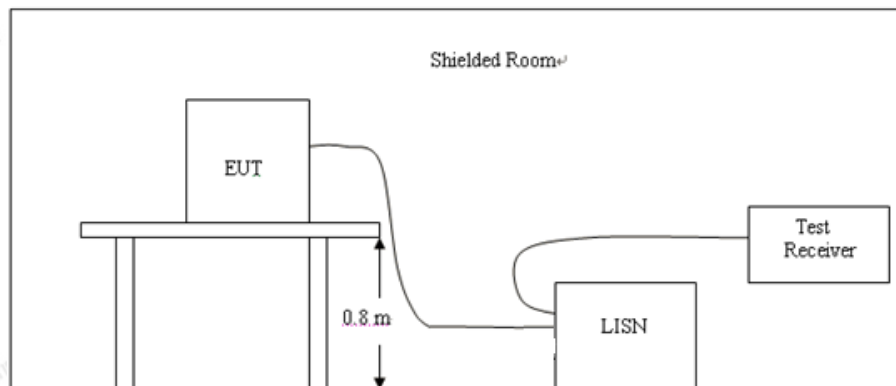
**2.6. Measurement Instruments List**

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	EMC051845 SE	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	JS1120-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



3. CONDUCTED EMISSION TEST

3.1. Block Diagram of Test Setup



3.2. Conducted Power Line Emission Limit

According to FCC Part 18.307(b)

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 §18.307 Line Conducted Emission Limit is same as above table.

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.

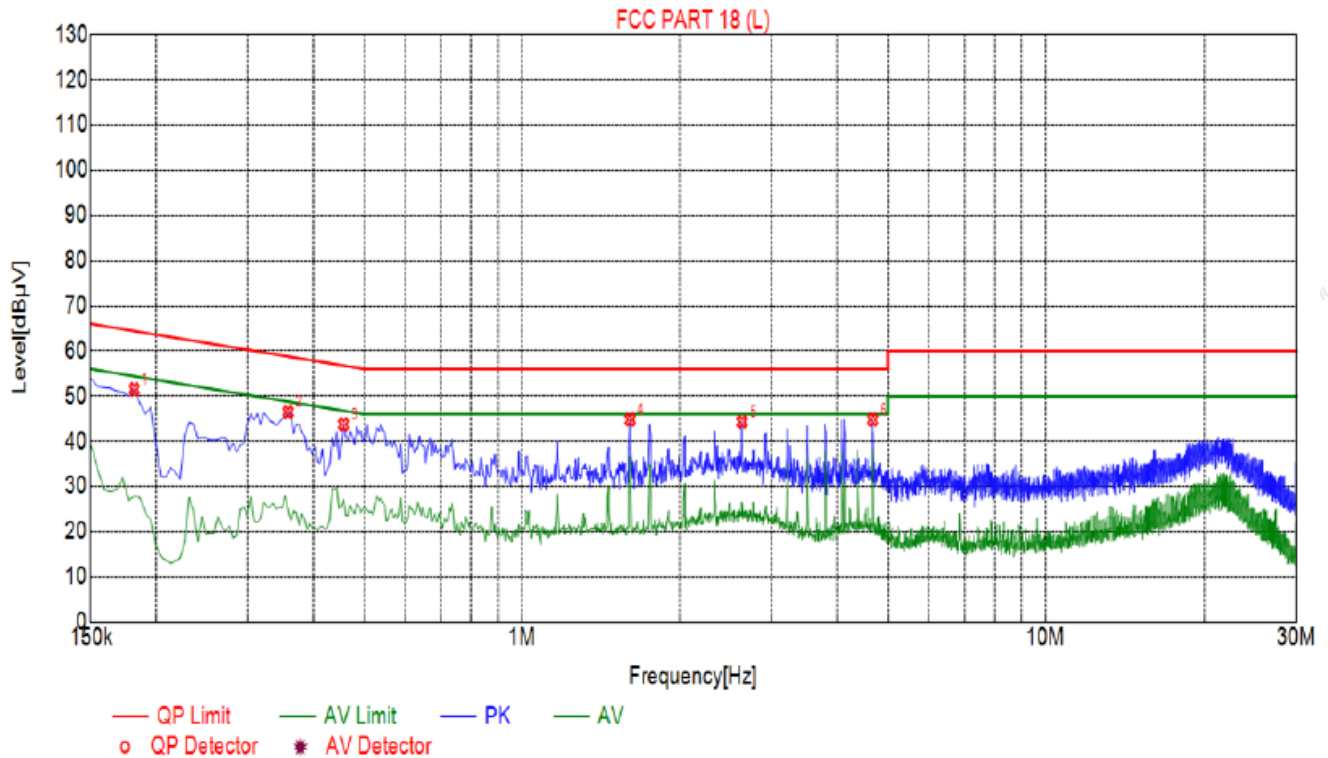


3.4. Test Result

PASS

All the test modes completed for test. Only the worst result was reported as below:

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1815	51.53	20.06	64.42	12.89	31.47	PK	L
2	0.3570	46.47	20.03	58.80	12.33	26.44	PK	L
3	0.4560	43.77	20.04	56.77	13.00	23.73	PK	L
4	1.6080	44.80	20.11	56.00	11.20	24.69	PK	L
5	2.6340	44.33	20.21	56.00	11.67	24.12	PK	L
6	4.6815	44.81	20.26	56.00	11.19	24.55	PK	L

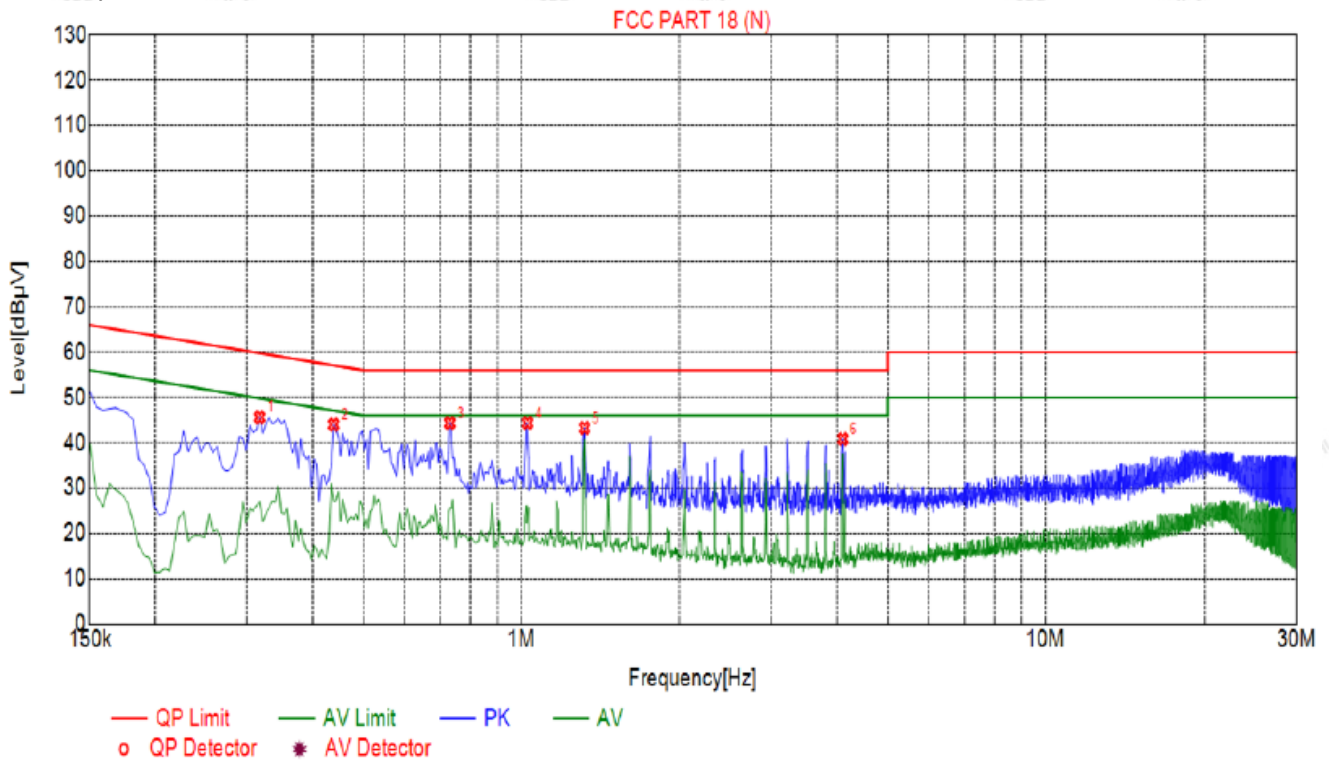
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.3165	45.61	20.05	59.80	14.19	25.56	PK	N
2	0.4380	44.02	20.05	57.10	13.08	23.97	PK	N
3	0.7305	44.35	20.06	56.00	11.65	24.29	PK	N
4	1.0275	44.38	20.07	56.00	11.62	24.31	PK	N
5	1.3200	43.27	20.10	56.00	12.73	23.17	PK	N
6	4.1055	40.80	20.25	56.00	15.20	20.55	PK	N

Remark: Margin = Limit - Level

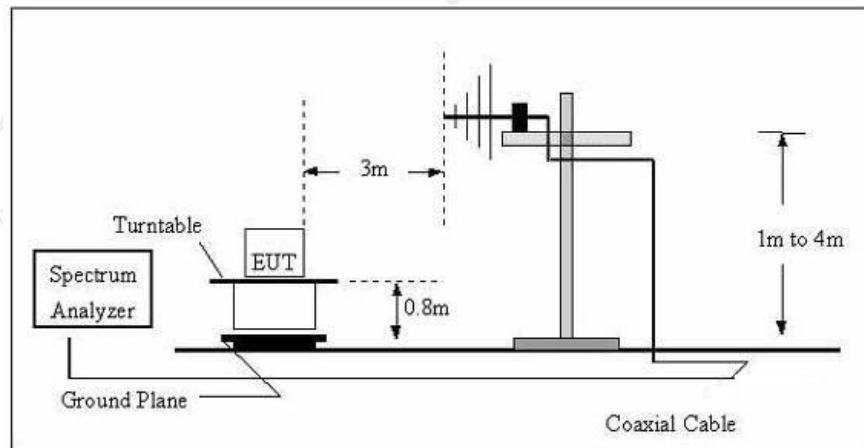
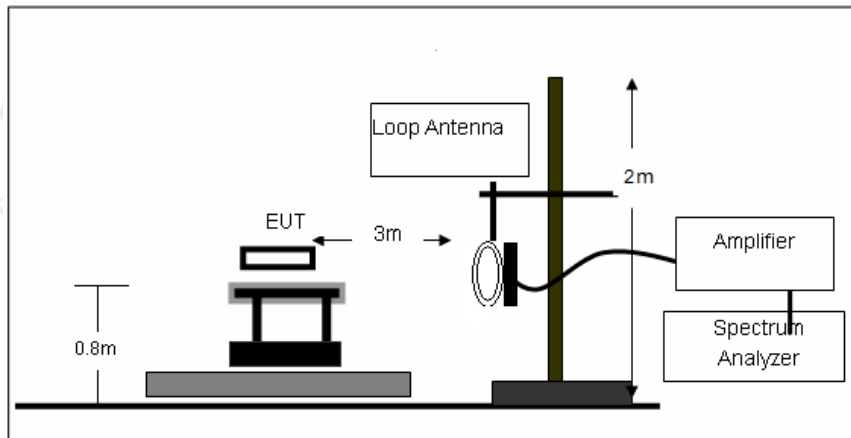
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



4. RADIATED EMISSIONS

4.1. Block Diagram of Test Setup



4.2. Rules and specifications

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
(miscellaneous)				
	Any non-ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 1300



Remark:

- (1) Emission level dBuV/m for 0.009~30MHz = $20\log(15) + 40\log(300/3)$ dBuV/m;
- (2) Calculated according FCC 18.305.
- (3) The smaller limit shall apply at the cross point between two frequency bands.
- (4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3. Test Procedure

Measurement distance 3m

For the measurement range up to 30MHz in the following plots the field strength result from 3m Distance measurements are extrapolated to 300m and 30m distance respectively, by 40dB/decade, Per antenna factor scaling.

Measurements below 1000MHz are performed with a peak detector and compared to average limits, Measurements with an average detector are not required.

Note:

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

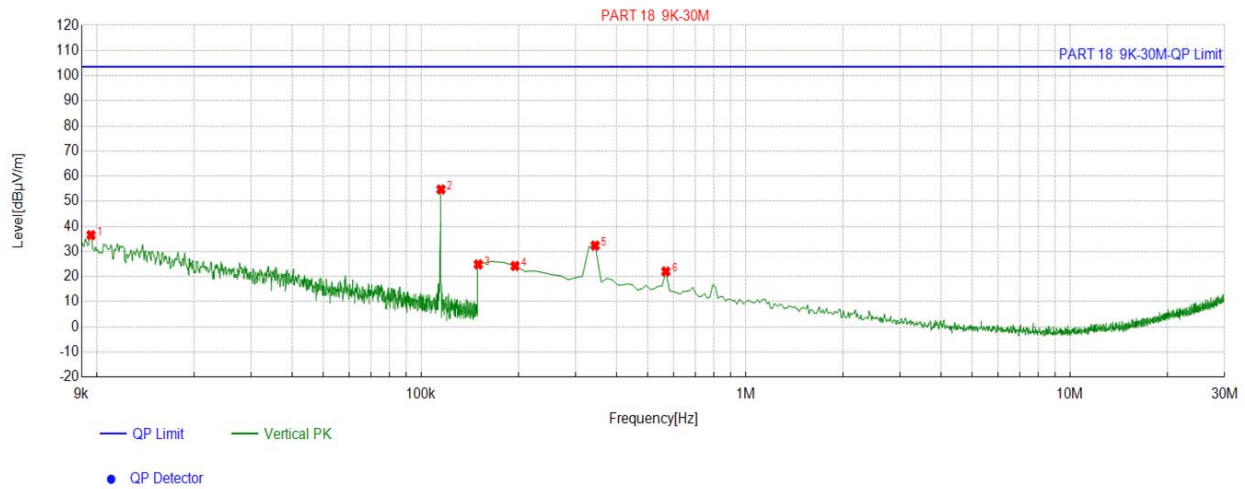
4.4. Test Result

PASS

Note: All the test modes completed for test. Only the worst result (15w) was reported as below.



For 9KHz - 30MHz

**Suspected List**

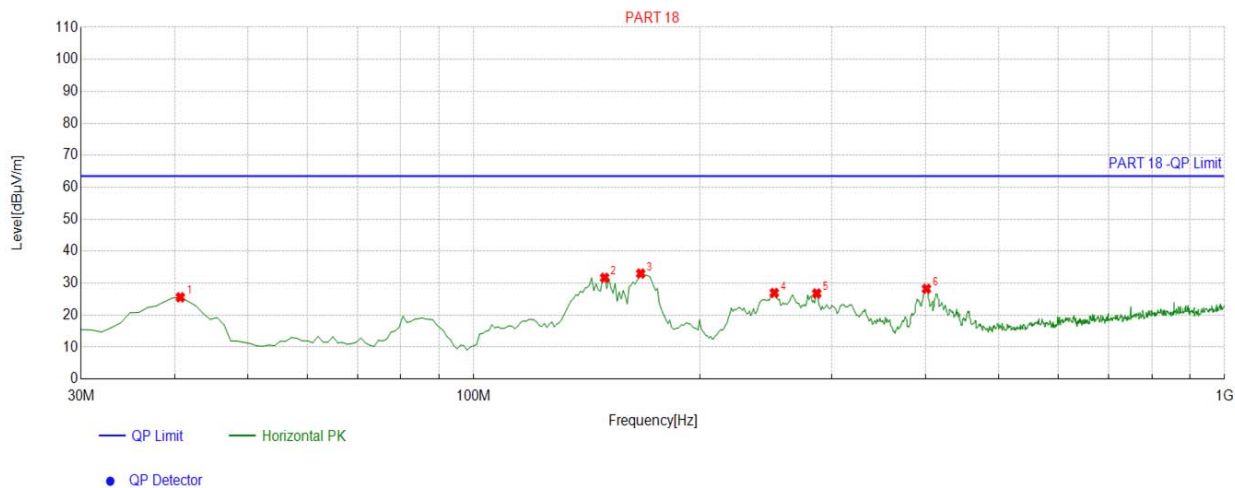
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.0096	-13.88	50.37	36.49	103.50	67.01
2	0.1151	-17.18	71.84	54.66	103.50	48.84
3	0.1500	-17.26	42.10	24.84	103.50	78.66
4	0.1948	-17.37	41.58	24.21	103.50	79.29
5	0.3441	-17.29	49.62	32.33	103.50	71.17
6	0.5681	-17.24	39.27	22.03	103.50	81.47

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



For 30MHz-1GHz

Antenna polarity: H

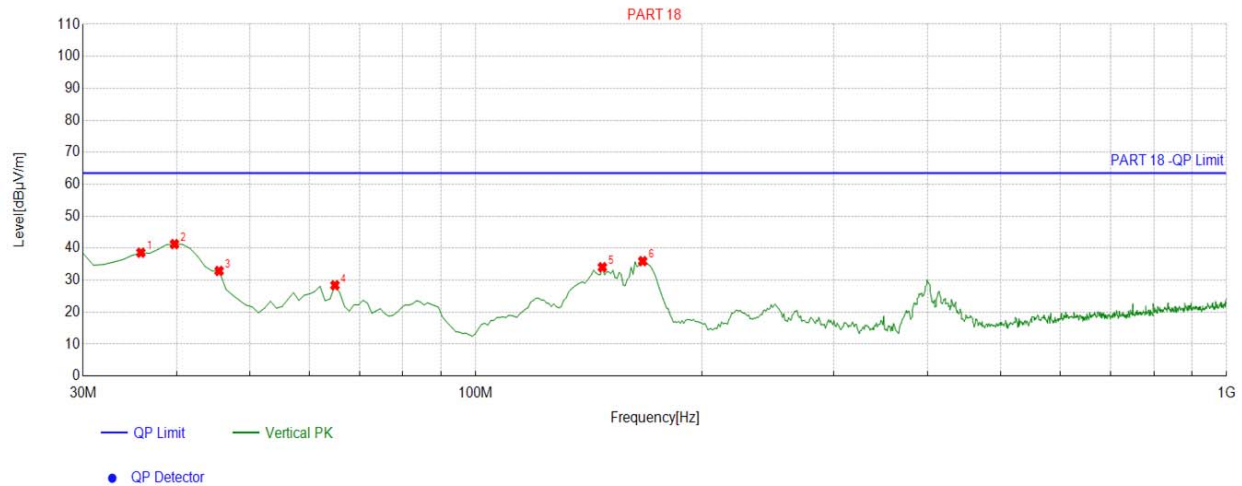


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6807	-15.51	41.08	25.57	63.50	37.93	100	17	Horizontal
2	149.4294	-19.03	50.71	31.68	63.50	31.82	100	180	Horizontal
3	166.9069	-16.79	49.78	32.99	63.50	30.51	100	68	Horizontal
4	251.3814	-13.14	40.07	26.93	63.50	36.57	100	172	Horizontal
5	286.3363	-12.86	39.63	26.77	63.50	36.73	100	180	Horizontal
6	400.9109	-10.08	38.30	28.22	63.50	35.28	100	326	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 [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8258	-16.08	54.66	38.58	63.50	24.92	100	260	Vertical
2	39.7097	-15.53	56.80	41.27	63.50	22.23	100	97	Vertical
3	45.5355	-15.14	48.02	32.88	63.50	30.62	100	296	Vertical
4	64.9550	-14.62	43.01	28.39	63.50	35.11	100	168	Vertical
5	147.4875	-18.81	52.84	34.03	63.50	29.47	100	192	Vertical
6	166.9069	-16.79	52.73	35.94	63.50	27.56	100	196	Vertical

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



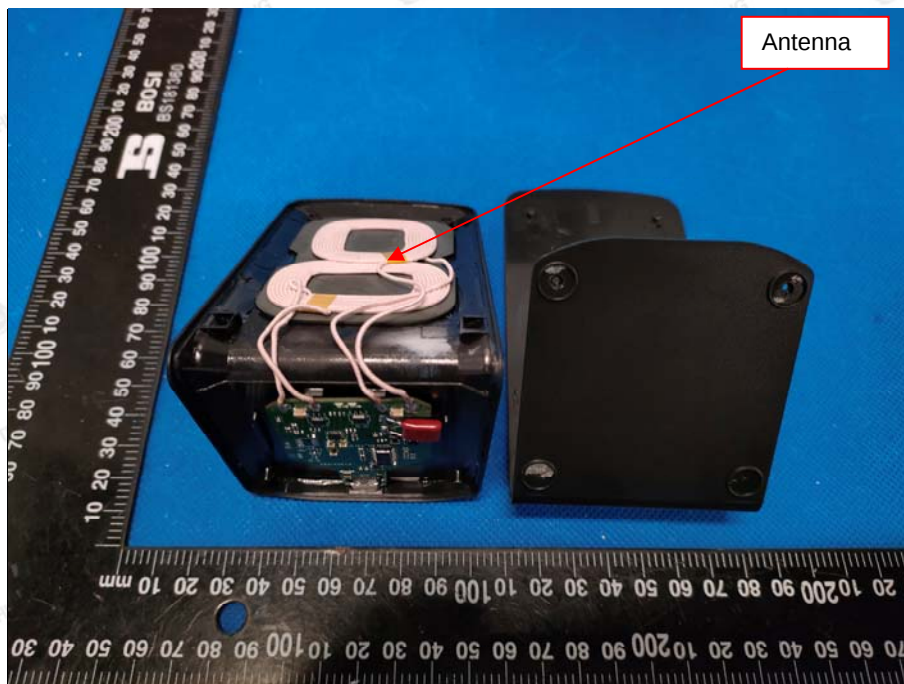
5. ANTENNA REQUIREMENT

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

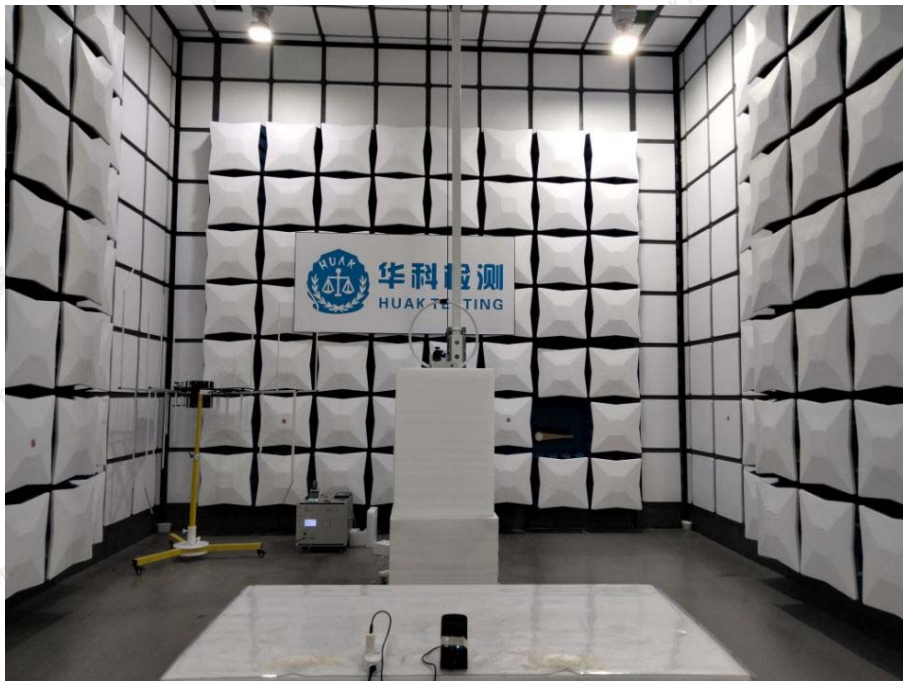
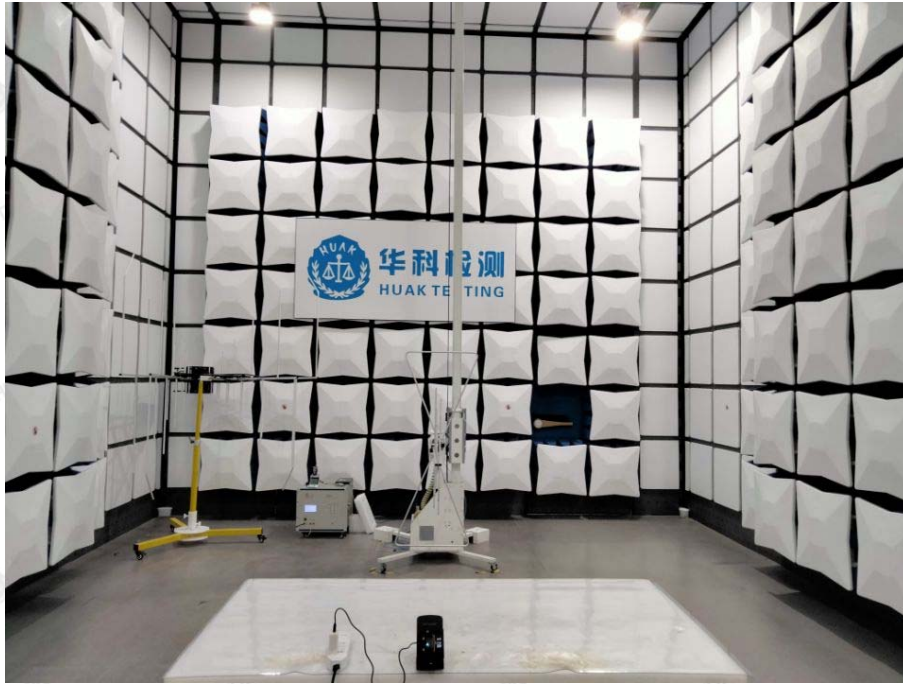
The antenna used in this product is a Coil Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.





6. PHOTOGRAPH OF TEST

Radiated Emission



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



Conducted Emissions



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7. PHOTOS OF THE EUT

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

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