



# FCC Test Report

**Test Report  
On Behalf of  
Shenzhen Huahongda Plastic Products Co.,Ltd  
For  
15W Wirelss Charging In-Car 360 Universal Phone Holder  
Model No.: Y-H71, C99  
FCC ID: 2BNZF-Y-H71**

**Prepared For:** Shenzhen Huahongda Plastic Products Co.,Ltd  
Building C, Xiangnan Industrial Park, NO.494 DongHuan Road, ShaJing,  
Bao'an District, ShenZhen, China

**Prepared By:** Shenzhen HUAKE Testing Technology Co., Ltd.  
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Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

**Date of Test:** Feb. 07, 2025 ~ Feb. 18, 2025

**Date of Report:** Feb. 18, 2025

**Report Number:** HK2502070420-1E



## Test Result Certification

**Applicant's Name** ..... : Shenzhen Huahongda Plastic Products Co.,Ltd

**Address**..... : Building C, Xiangnan Industrial Park, NO.494 DongHuan Road,  
ShaJing, Bao'an District, ShenZhen, China

**Manufacturer's Name** ..... : Shenzhen Huahongda Plastic Products Co.,Ltd

**Address**..... : Building C, Xiangnan Industrial Park, NO.494 DongHuan Road,  
ShaJing, Bao'an District, ShenZhen, China

### Product Description

**Trade Mark** ..... : WYE

**Product Name** ..... : 15W Wirelss Charging In-Car 360 Universal Phone Holder

**Model and/or Type Reference** : Y-H71, C99

**Standards** ..... : FCC CFR 47 PART 18

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**Date of Test** ..... :

**Date (s) of Performance of Tests** ..... : Feb. 07, 2025 ~ Feb. 18, 2025

**Date of Issue**..... : Feb. 18, 2025

**Test Result**..... : Pass

Testing Engineer

Len Liao

Technical Manager

Sliver Wan

Authorized  
Signatory

Jason Zhou

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**\*\* Modified History \*\***

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Feb. 18, 2025	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:	15W Wireless Charging In-Car 360 Universal Phone Holder
Model Name:	Y-H71
Series Models:	C99
Model Difference:	All model's the function, software and electric circuit are the same, only with a product model named different. Test sample mode: Y-H71.
Trade Mark:	WYE
FCC ID:	2BNZF-Y-H71
Antenna Type:	Coil Antenna
Operation Frequency:	112KHz~205KHz
Test Frequency:	148KHz
Number of Channels:	1
Modulation Type:	ASK
Power Source:	Input: 5V/2A, 9V/1.67A Wireless Output: 5W, 7.5W, 10W, 15W
Power Rating:	Input: 5V/2A, 9V/1.67A Wireless Output: 5W, 7.5W, 10W, 15W
<b>Note:</b> 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain values are provided by the customer. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	



## 2.2. Carrier Frequency of Channels

Operation Frequency each of channel	
Channel	Frequency
Middle CH	148KHz

## 2.3. Operation of EUT during Testing

Test Item	Test mode	Description
Radiated & Conducted Test Cases	Mode 1	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <1%)
	Mode 2	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <50%)
	Mode 3	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: >95%)

**Note:**

1. All modes and configurations above have been tested, Only the result of the worst case was recorded in the report, the worst-case configuration is Mode 1.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. The Mobile Phone provided by Lab.
4. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.



## 2.4. Description of Test Setup

Operation of EUT during Testing:



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.





## 2.5. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	15W Wirelss Charging In-Car 360 Universal Phone Holder	WYE	Y-H71	N/A	EUT
2	USB Cable	N/A	N/A	Length: 1.0m	Peripheral
3	Adapter	N/A	LA140	Input: 100-130V, 50/60Hz, 2.5A Output: 5V/3A, 9V3A, 12V/3A, 15V/3A, 20V/5A (100W Max); Input: 200-240V, 50/60Hz, 2.5A Output: 5V/3A, 9V3A, 12V/3A, 15V/3A, 20V/7A, 28V/5A (140W Max)	Peripheral
4	Mobile phone	Apple	iPhone 14	N/A	Peripheral

### Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. Wireless load (Load 1) is a device containing rechargeable batteries or capacity loads, connected via charging control circuit that receives power from a source via a coupling antenna.

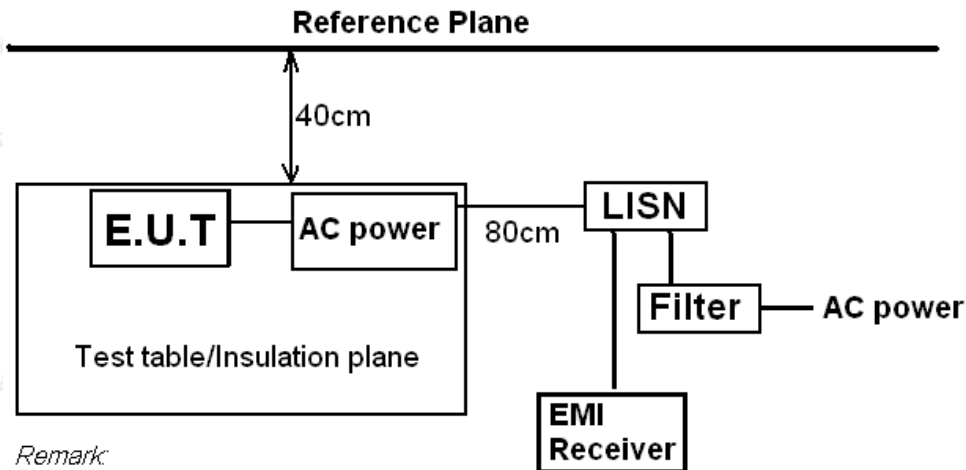
**2.6. Measurement Instruments List**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 20, 2024	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 20, 2024	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 20, 2024	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	1 Year
6.	Preamplifier	EMCI	EMC051845 S	HKE-006	Feb. 20, 2024	1 Year
7.	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	1 Year
8.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	1 Year
9.	6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	1 Year
10.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	1 Year
11.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
12.	Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	2 Year
13.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
14.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	1 Year



### 3. Conducted Emission Test

#### 3.1. Block Diagram of Test Setup



Remark:

E.U.T: Equipment Under Test

LISN: Line Impedance Stabilization Network

Test table height=0.8m

#### 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.

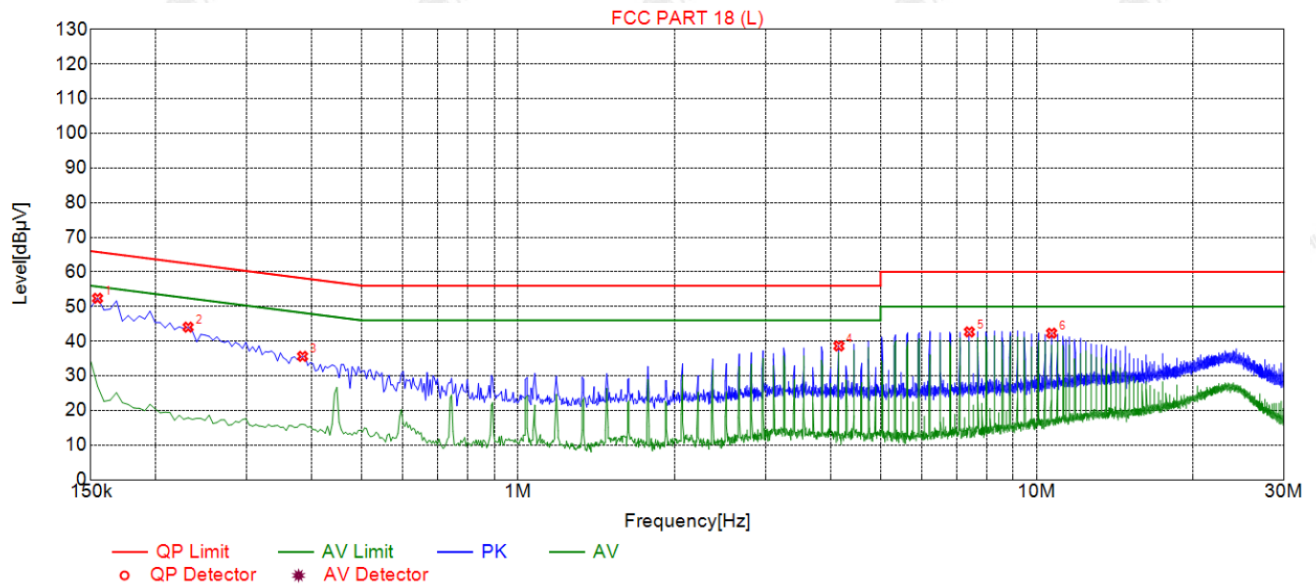


### 3.4. Test Result

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	0.1545	52.39	19.83	65.81	13.42	32.56	PK	L
2	0.2310	44.05	19.83	62.43	18.38	24.22	PK	L
3	0.3840	35.62	19.85	58.26	22.64	15.77	PK	L
4	4.1550	38.63	20.09	56.00	17.37	18.54	PK	L
5	7.4175	42.68	20.05	60.00	17.32	22.63	PK	L
6	10.6845	42.31	19.92	60.00	17.69	22.39	PK	L

Remark: Margin = Limit – Level

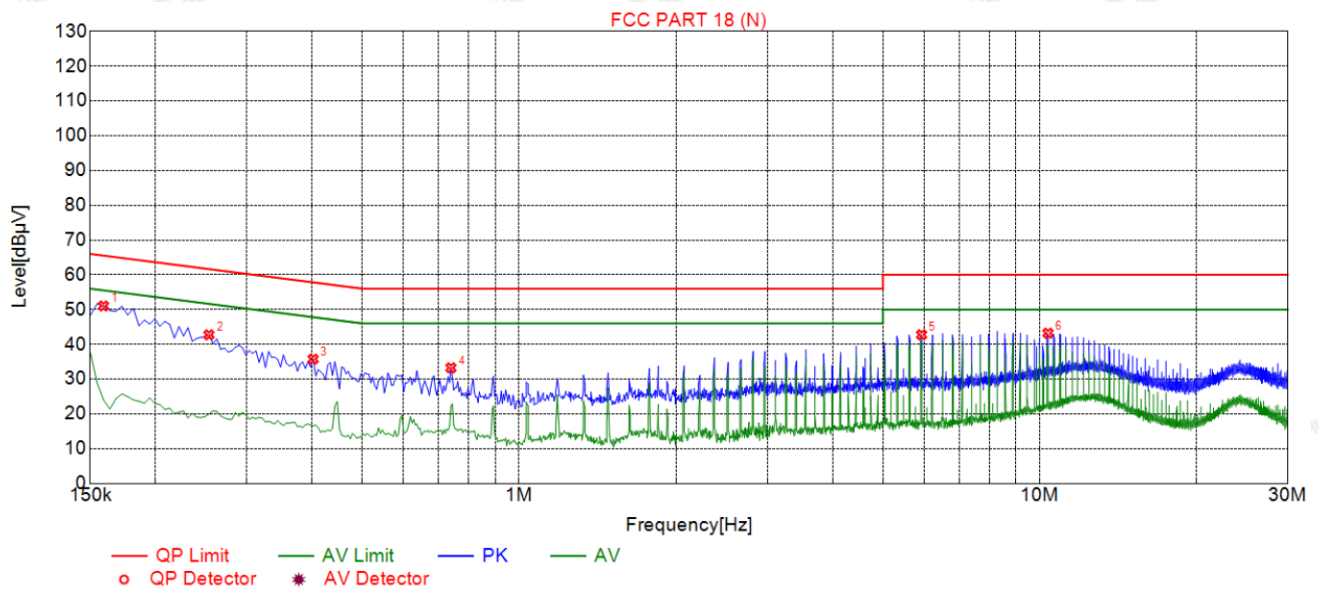
Correction factor = Cable lose + LISN insertion loss

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	0.1590	51.03	19.70	65.62	14.59	31.33	PK	N
2	0.2535	42.73	19.74	61.71	18.98	22.99	PK	N
3	0.4020	35.75	19.73	57.88	22.13	16.02	PK	N
4	0.7395	33.24	19.75	56.00	22.76	13.49	PK	N
5	5.9325	42.77	19.98	60.00	17.23	22.79	PK	N
6	10.3785	43.21	19.86	60.00	16.79	23.35	PK	N

Remark: Margin = Limit – Level

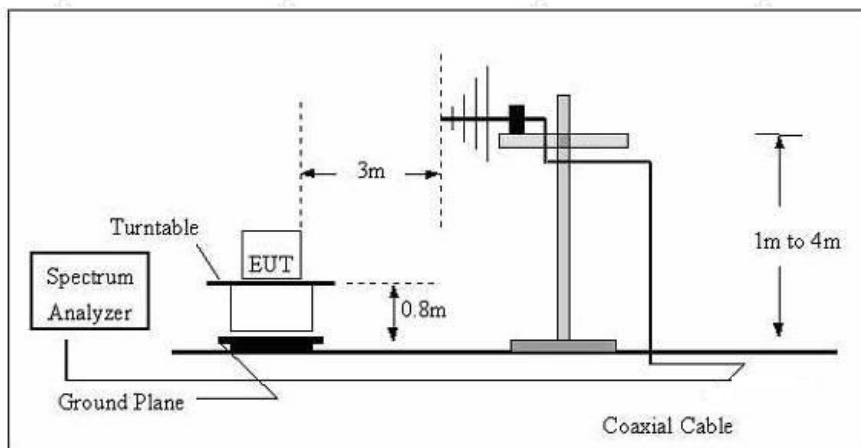
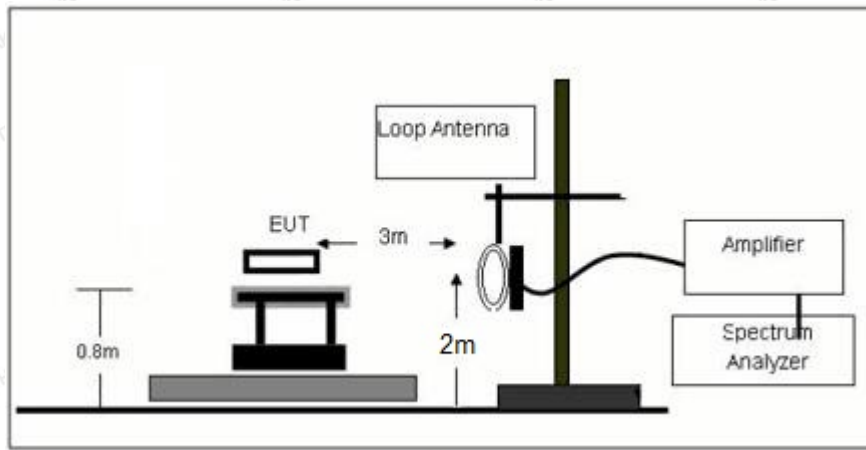
Correction factor = Cable lose + LISN insertion loss

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.

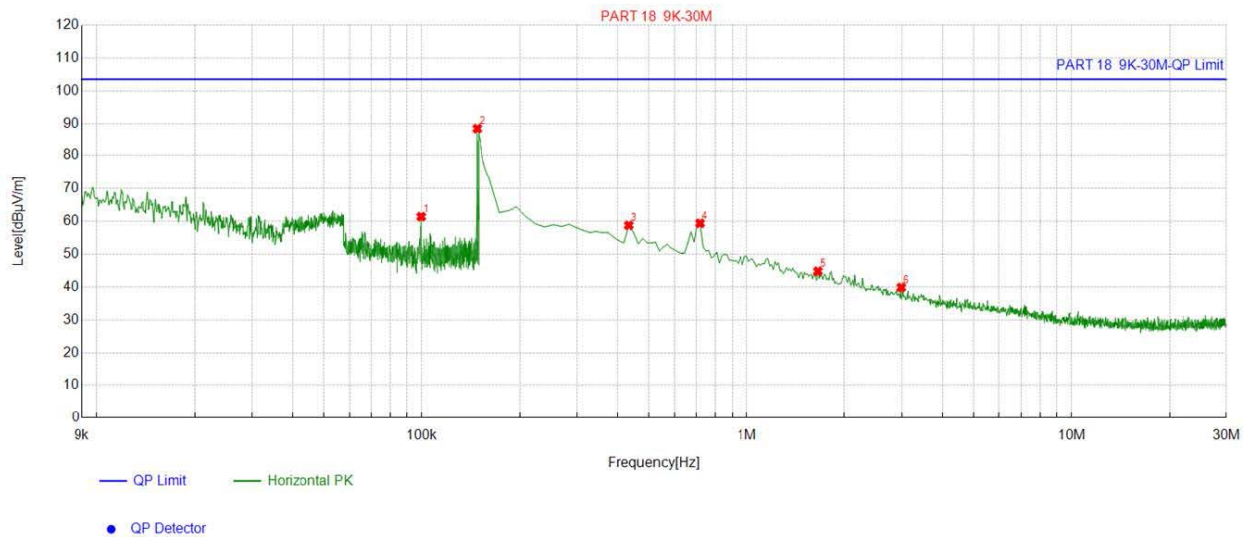


#### 4.4. Test Result

PASS

Note: All the test modes completed for test. Only the worst result 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	0.099567	20.46	40.83	61.29	103.50	42.21
2	0.147884	20.42	68.20	88.62	103.50	14.88
3	0.433717	20.17	38.63	58.80	103.50	44.70
4	0.717434	20.25	39.16	59.41	103.50	44.09
5	1.658179	20.51	24.29	44.80	103.50	58.70
6	2.987169	20.15	19.73	39.88	103.50	63.62

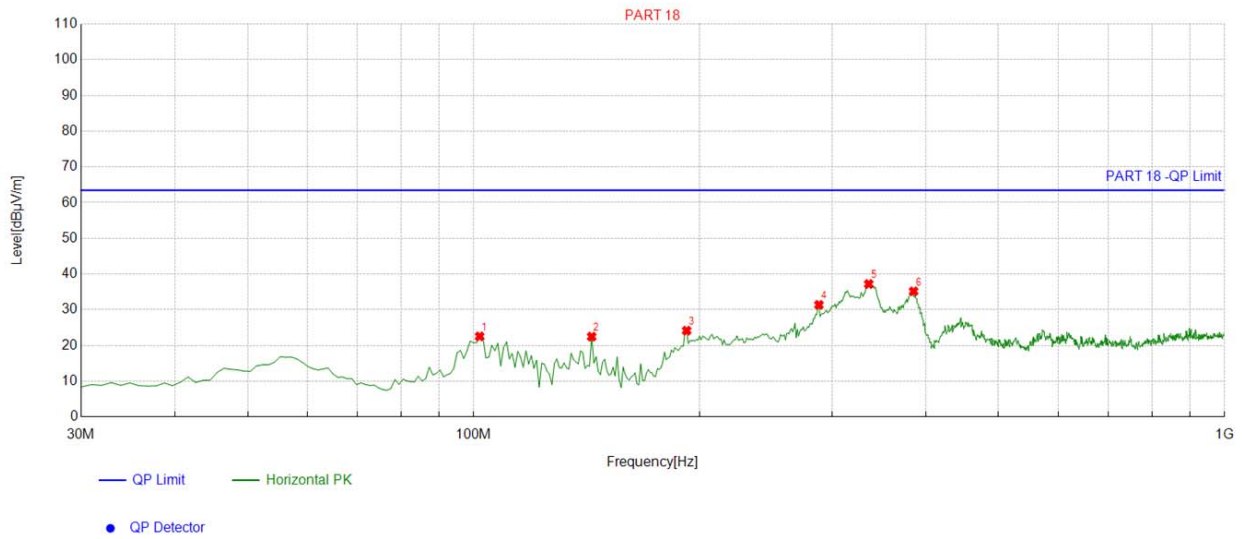
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;





For 30MHz-1GHz

Antenna polarity: H



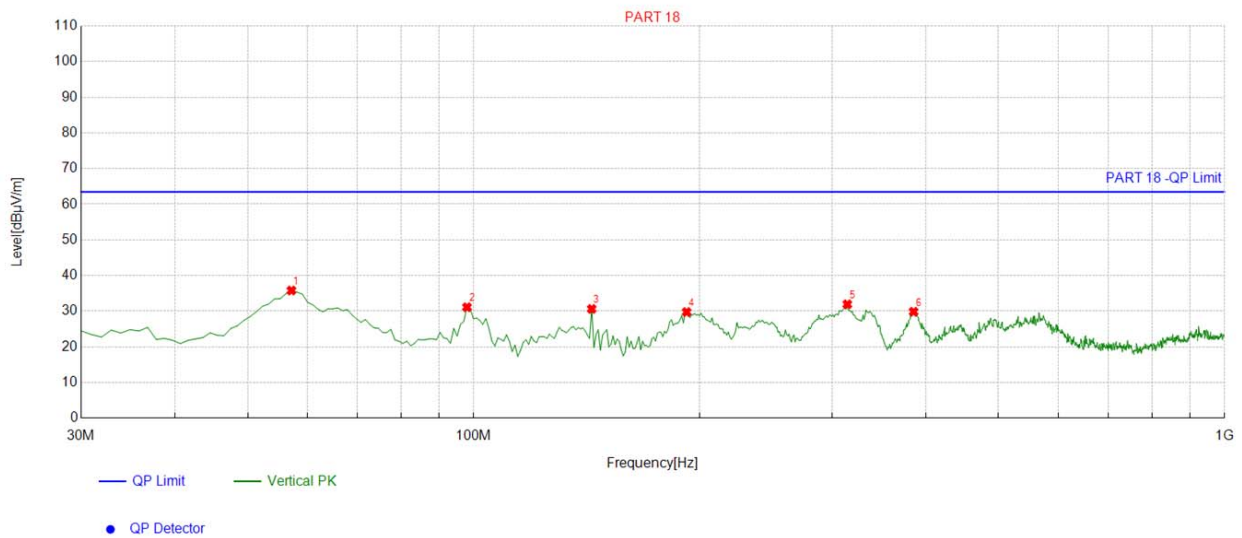
## Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	101.85185	-14.86	37.41	22.55	63.50	40.95	100	346	Horizontal
2	143.60360	-18.35	40.84	22.49	63.50	41.01	100	328	Horizontal
3	192.15215	-15.74	39.91	24.17	63.50	39.33	100	114	Horizontal
4	288.27827	-12.19	43.57	31.38	63.50	32.12	100	332	Horizontal
5	335.85585	-10.57	47.79	37.22	63.50	26.28	100	267	Horizontal
6	385.37537	-9.07	44.24	35.17	63.50	28.33	100	121	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – 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	57.187187	-13.76	49.57	35.81	63.50	27.69	100	29	Vertical
2	97.967968	-15.12	46.24	31.12	63.50	32.38	100	75	Vertical
3	143.60360	-18.35	48.99	30.64	63.50	32.86	100	152	Vertical
4	192.15215	-15.74	45.50	29.76	63.50	33.74	100	178	Vertical
5	314.49449	-11.46	43.41	31.95	63.50	31.55	100	72	Vertical
6	385.37537	-9.07	38.93	29.86	63.50	33.64	100	297	Vertical

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



## 5. Antenna Requirement

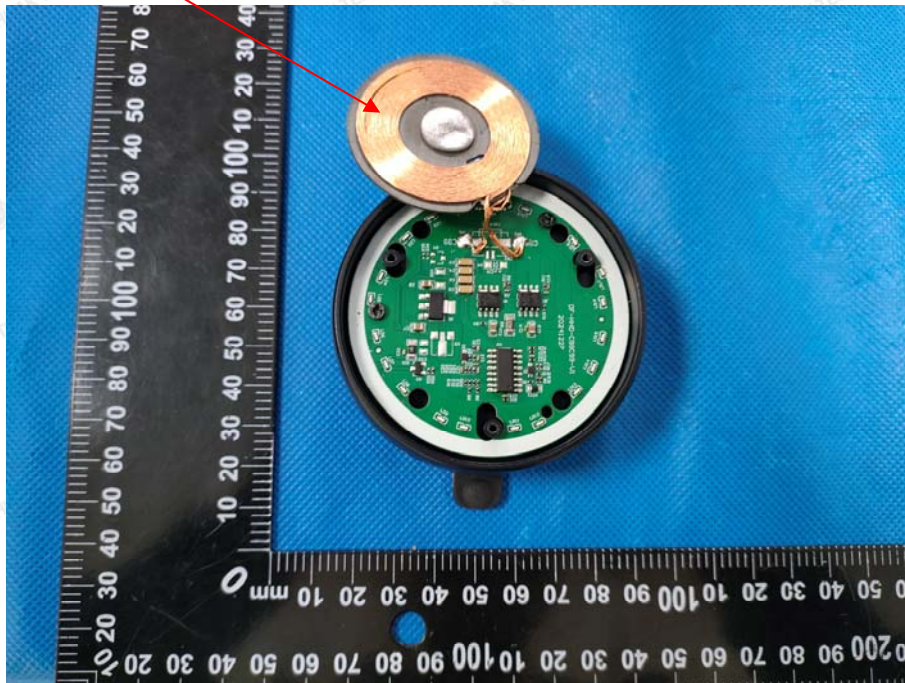
### Refer to statement below for compliance.

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.

Antenna

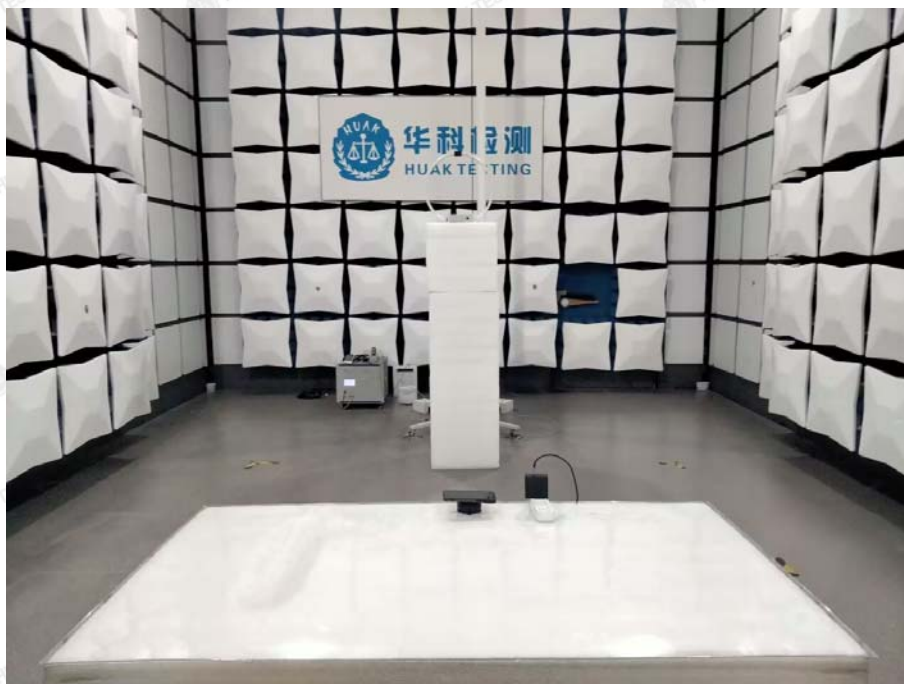
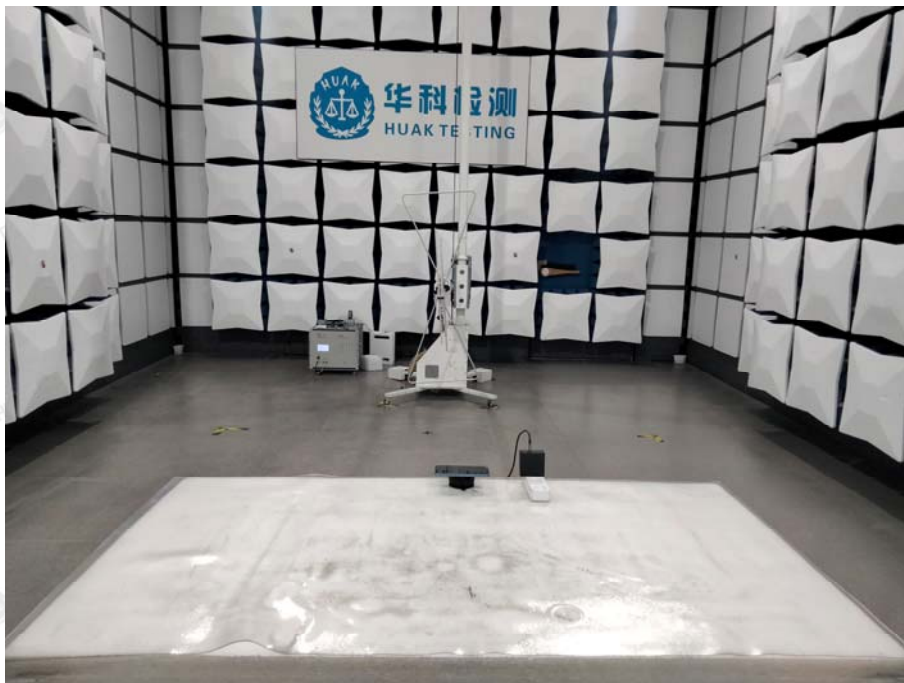






## 6. Photographs of Test

### Radiated Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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## Conducted Emission





## 7. Photos of the EUT

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

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

