



## HUAK TESTING

# FCC Test Report

**Test Report**  
**On Behalf of**  
**KIKKERLAND DESIGN INC.**  
**For**  
**IKERIE WIRELESS CHARGERS**  
**Model No.: INK35, INK36**

FCC ID: 2ACMZ-INK35

**Prepared For:** KIKKERLAND DESIGN INC. HUAK TESTING  
NO  
**666 BROADWAY, 4TH FLOOR, NEW YORK, NY 10012, United States**

**Prepared By:** Shenzhen HUAK 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 28, 2025 ~ June 06, 2025  
**Date of Report:** June 06, 2025  
**Report Number:** HK2505282782-1E

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Shenzhen HOAK Testing Technology Co., Ltd. Tel: +86-0753-252 9901 E-mail: info@hoak.com Web: www.hoak.com Add: 1-2/F, Building B2, Jinfeng Zhongcheng Zhibao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



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

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	June 06, 2025	Jason Zhou

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## 1. Test Summary

### 1.1. Test Procedures and Results

Description of Test	Section Number	Result
AC 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 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

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## 2. General Information

### 2.1. General Description of EUT

Equipment:	INKERIE WIRELESS CHARGERS
Model Name:	INK35
Series Model(s):	INK36
Model Difference:	All model's the function, software and electric circuit are the same, only with product color and model named different. Test sample model: INK35.
Trade Mark:	N/A
FCC ID:	2ACMZ-INK35
Antenna Type:	Coil Antenna
Operation Frequency:	112KHz~205KHz
Test Frequency:	144KHz
Number of Channels:	1
Modulation Type:	ASK
Power Source:	Input: DC5V/3A, 9V/2A Output: 5W/7.5W/10W/15W
Power Rating:	Input: DC5V/3A, 9V/2A Output: 5W/7.5W/10W/15W
Note:	<ol style="list-style-type: none"> <li>For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.</li> <li>Antenna gain values are provided by the customer.</li> <li>The cable loss data is obtained from the supplier.</li> <li>The test results in the report only apply to the tested sample.</li> </ol>

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## 2.2. Carrier Frequency of Channels

Operation Frequency each of channel	
Channel	Frequency
Middle CH	144KHz

## 2.3. Operation of EUT during Testing

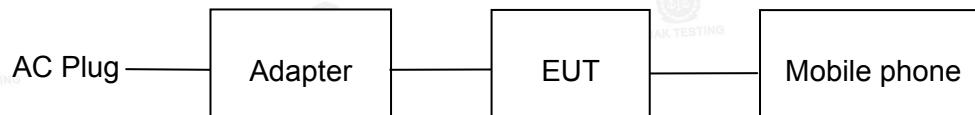
Test Item	Test mode	Description
Radiated & AC Conducted Test Cases	Mode 1	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <1%)
	Mode 2	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <50%)
	Mode 3	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: >95%)

Note:

1. All modes and configurations above have been tested, Only the result of the worst case was recorded in the report.
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.

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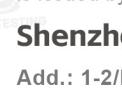
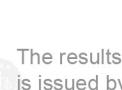
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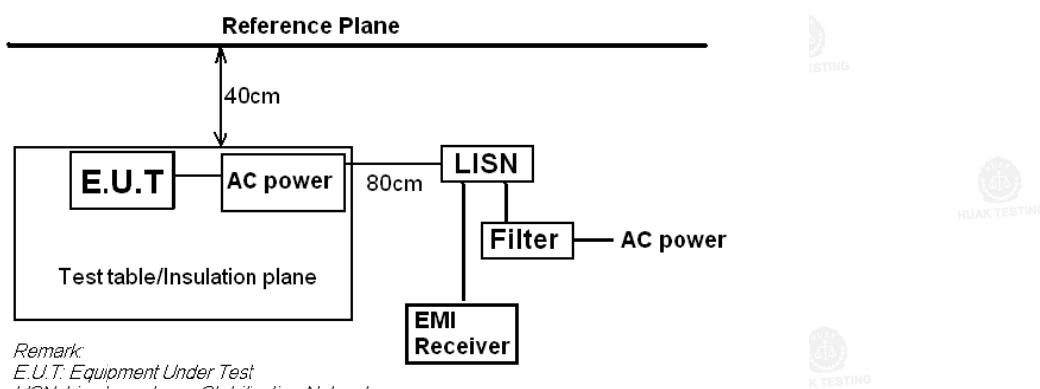
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### 3. AC Conducted Emission Test

### 3.1. Block Diagram of Test Setup



### 3.3 Conducted Power Line Emission Limit

According to FCC Part 18.307(b)

Frequency (MHz)	Maximum RF Line Voltage (dB $\mu$ 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 §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.

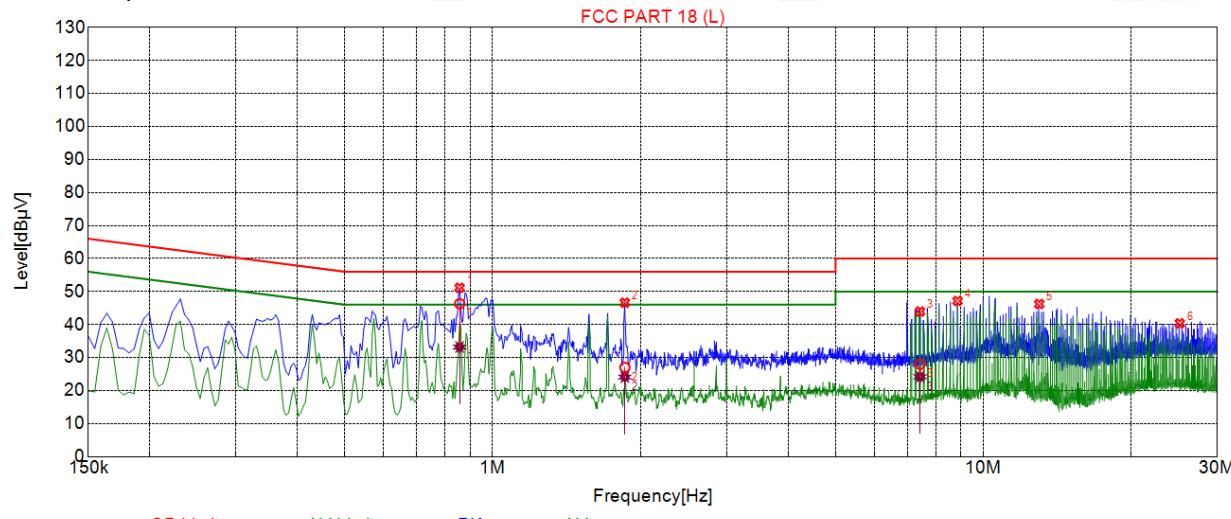
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### 3.4. Test Result

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	0.8565	51.15	19.71	56.00	4.85	31.44	PK	L
2	1.8600	46.62	20.10	56.00	9.38	26.52	PK	L
3	7.4355	43.94	20.51	50.00	6.06	23.43	AV	L
4	8.8665	47.15	20.87	60.00	12.85	26.28	PK	L
5	13.0110	46.23	21.55	60.00	13.77	24.68	PK	L
6	25.1565	40.37	24.38	60.00	19.63	15.99	PK	L

### Final Data List

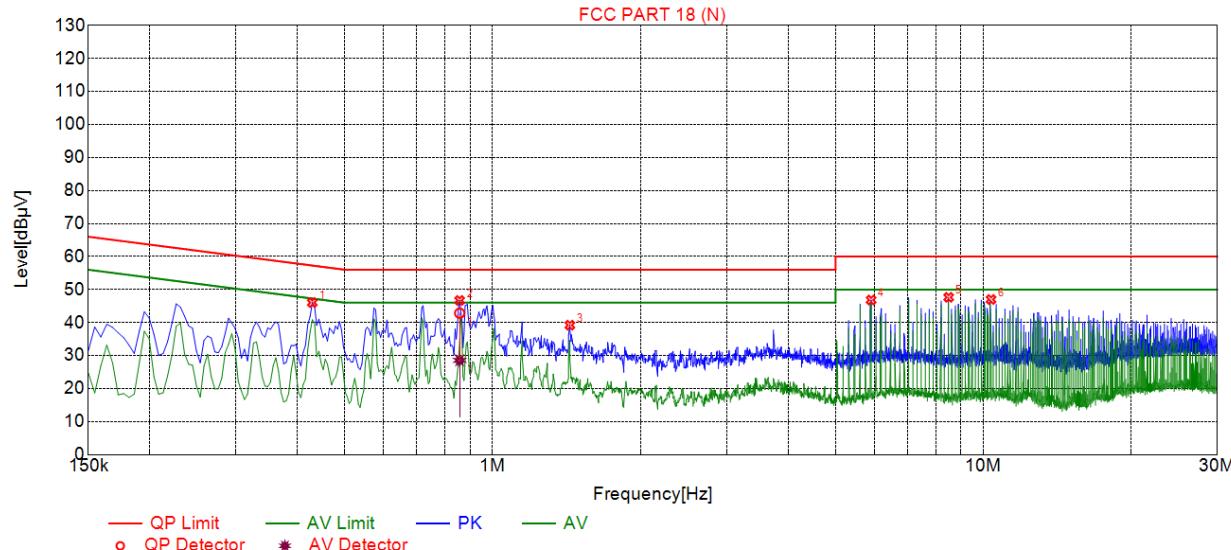
NO.	Freq. [MHz]	Correction factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	AV Reading [dBμV]	Type
1	0.8565	19.71	46.33	56.00	9.67	26.62	33.18	46.00	12.82	13.47	L
2	1.8600	20.10	27.02	56.00	28.98	6.92	24.08	46.00	21.92	3.98	L
3	7.4355	20.51	27.98	60.00	32.02	7.47	24.18	50.00	25.82	3.67	L

Remark: Margin = Limit – Level

Correction factor = Cable loss + ISN insertion loss

Level=Test receiver reading + correction factor

## Test Specification: Neutral



## Suspected List

NO.	Freq. [MHz]	Level [dB $\mu$ V]	Factor [dB]	Limit [dB $\mu$ V]	Margin [dB]	Reading [dB $\mu$ V]	Detector	Type
1	0.4290	46.05	19.72	57.27	11.22	26.33	PK	N
2	0.8565	46.71	19.76	56.00	9.29	26.95	PK	N
3	1.4370	39.21	19.85	56.00	16.79	19.36	PK	N
4	5.9100	46.83	20.39	60.00	13.17	26.44	PK	N
5	8.5020	47.65	20.73	60.00	12.35	26.92	PK	N
6	10.3740	46.99	21.01	60.00	13.01	25.98	PK	N

## Final Data List

NO.	Freq. [MHz]	Correction factor [dB]	QP Value [dB $\mu$ V]	QP Limit [dB $\mu$ V]	QP Margin [dB]	QP Reading [dB $\mu$ V]	AV Value [dB $\mu$ V]	AV Limit [dB $\mu$ V]	AV Margin [dB]	AV Reading [dB $\mu$ V]	Type
1	0.8565	19.76	42.84	56.00	13.16	23.08	28.55	46.00	17.45	8.79	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor



## 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 × $\text{SQRT}(\text{power}/500)$	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.



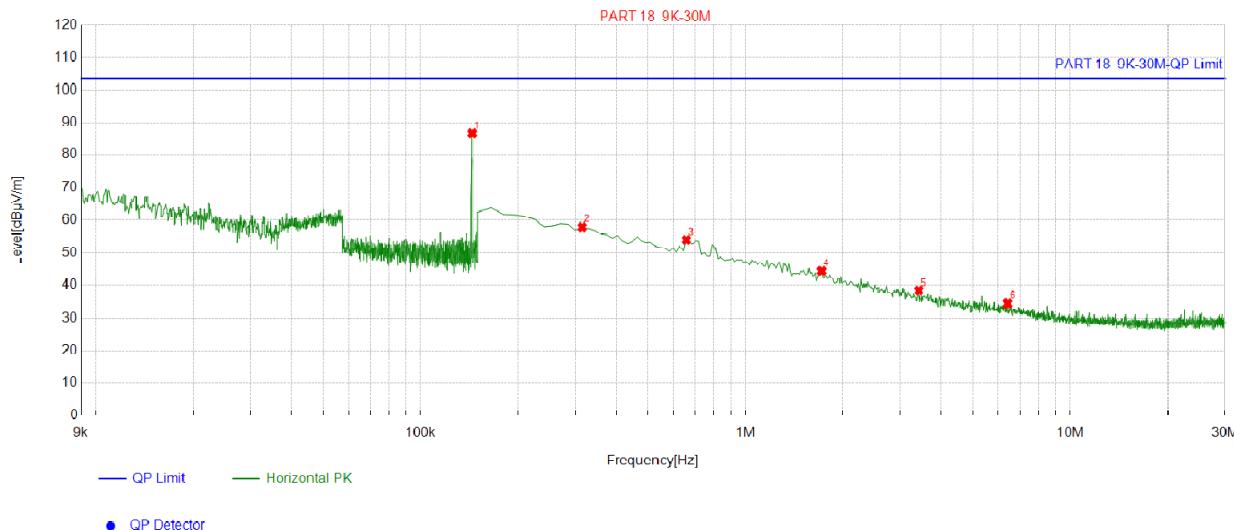
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#### 4.4. Test Result

**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 [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
1	0.1441	20.42	66.22	86.64	103.50	16.86
2	0.3143	20.04	37.89	57.93	103.50	45.57
3	0.6577	20.25	33.79	54.04	103.50	49.46
4	1.7179	20.51	23.90	44.41	103.50	59.09
5	3.4202	20.14	18.18	38.32	103.50	65.18
6	6.4216	20.50	14.00	34.50	103.50	69.00

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

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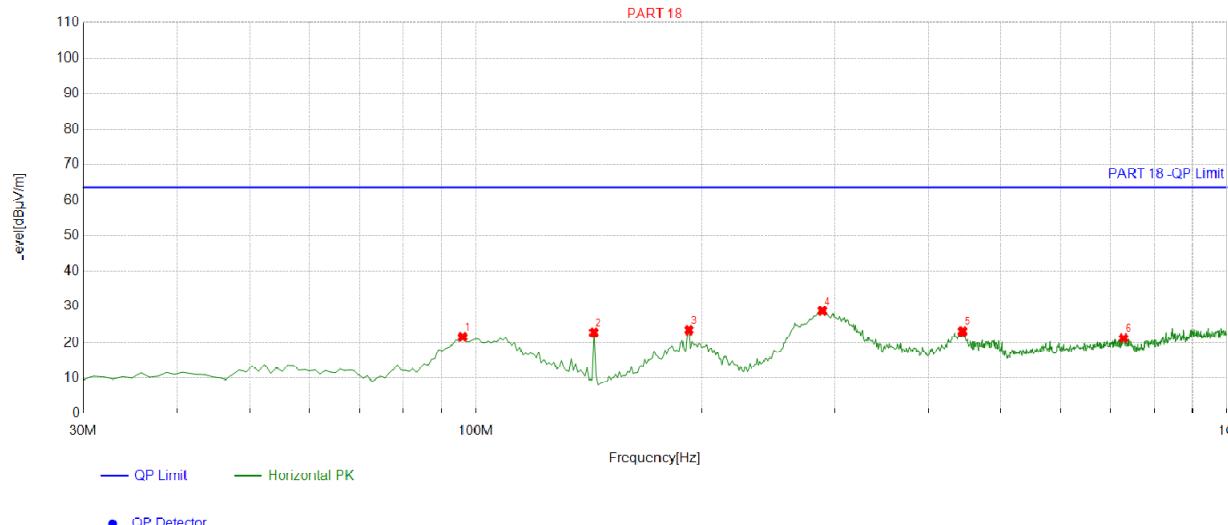
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For 30MHz-1GHz

Antenna polarity: H



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	96.0260	-15.55	37.11	21.56	63.50	41.94	100	352	Horizontal
2	143.6036	-18.35	41.12	22.77	63.50	40.73	100	175	Horizontal
3	192.1522	-15.74	39.18	23.44	63.50	40.06	100	130	Horizontal
4	289.2492	-12.10	40.87	28.77	63.50	34.73	100	107	Horizontal
5	444.6046	-8.64	31.74	23.10	63.50	40.40	100	308	Horizontal
6	728.1281	-3.69	24.93	21.24	63.50	42.26	100	116	Horizontal

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

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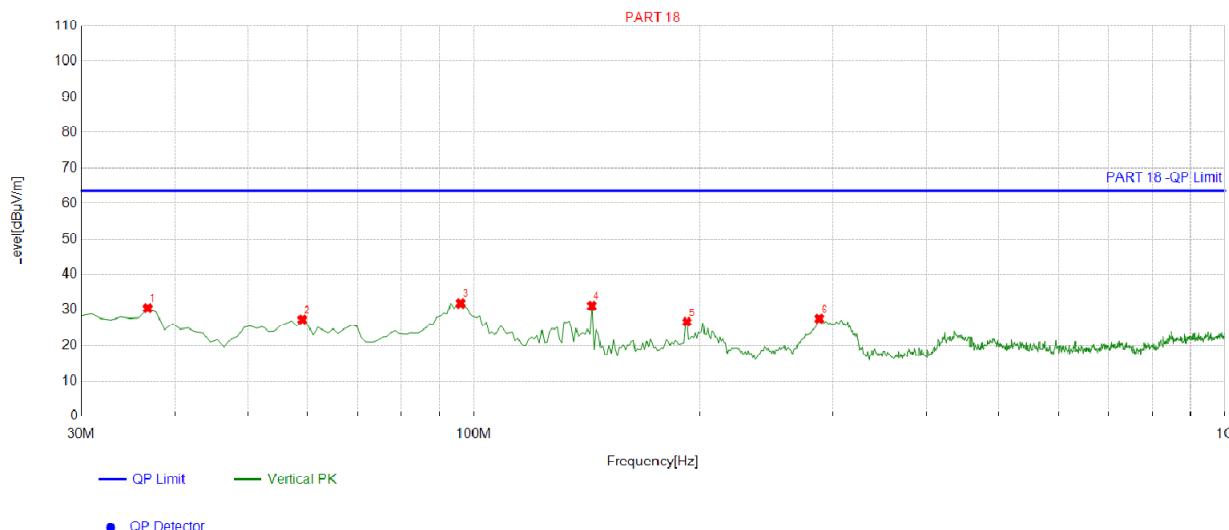
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Antenna polarity: V



#### Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7968	-14.57	45.09	30.52	63.50	32.98	100	85	Vertical
2	59.1291	-13.54	40.86	27.32	63.50	36.18	100	62	Vertical
3	96.0260	-15.55	47.41	31.86	63.50	31.64	100	167	Vertical
4	143.6036	-18.35	49.51	31.16	63.50	32.34	100	48	Vertical
5	192.1522	-15.74	42.43	26.69	63.50	36.81	100	211	Vertical
6	288.2783	-12.19	39.76	27.57	63.50	35.93	100	71	Vertical

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

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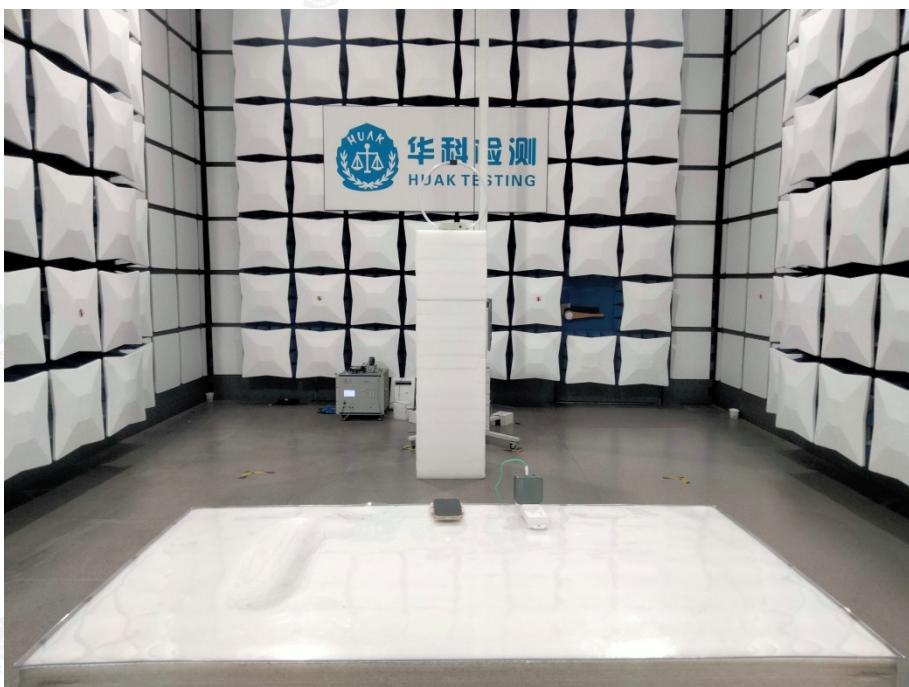
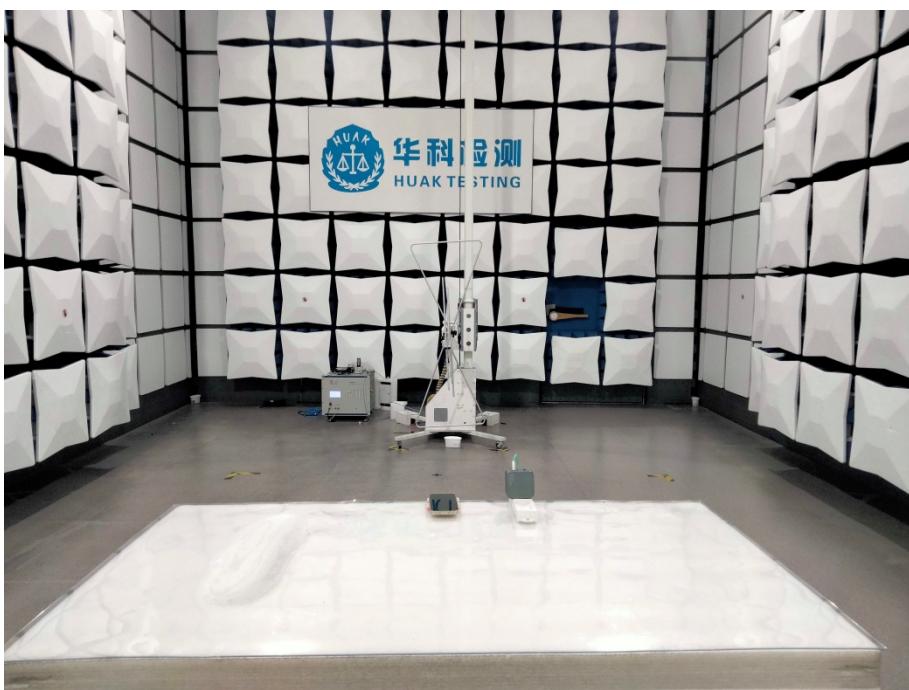




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## 6. Photographs of Test

### Radiated Emission



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## AC 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-----