

FCC Test Report

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

FCC ID: 2ACMZ-INK35

Prepared For: **KIKKERLAND DESIGN INC.**
666 BROADWAY, 4TH FLOOR, NEW YORK, NY 10012, United States

Prepared By: **Shenzhen HUAK Testing Technology Co., Ltd.**
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Date of Test: **May 28, 2025 ~ June 06, 2025**

Date of Report: **June 06, 2025**

Report Number: **HK2505282782-1E**

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Test Result Certification

Applicant's Name : KIKKERLAND DESIGN INC.

Address : 666 BROADWAY, 4TH FLOOR, NEW YORK, NY 10012, United States

Manufacturer's Name : KIKKERLAND DESIGN INC.

Address : 666 BROADWAY, 4TH FLOOR, NEW YORK, NY 10012, United States

Product Description

Trade Mark : N/A

Product Name : INKERIE WIRELESS CHARGERS

Model and/or Type Reference : INK35, INK36

Standards : FCC CFR 47 PART 18

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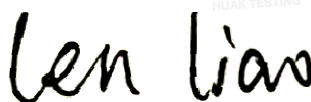
Date of Test :

Date (s) of Performance of Tests : May 28, 2025 ~ June 06, 2025

Date of Issue : June 06, 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	June 06, 2025	Jason Zhou

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 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:	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: - For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. - Antenna gain values are provided by the customer. - The cable loss data is obtained from the supplier. - The test results in the report only apply to the tested sample.	

2.2. Carrier Frequency of Channels

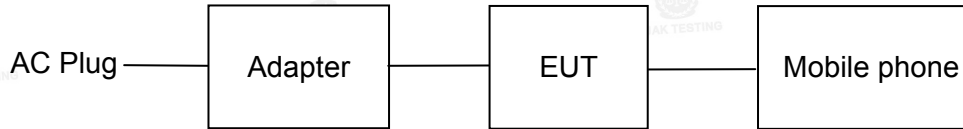
Operation Frequency each of channel	
Channel	Frequency
Middle CH	144KHz

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.

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	INKERIE WIRELESS CHARGERS	N/A	INK35	N/A	EUT
2	USB Cable	N/A	N/A	Length: 100cm	Accessory
3	Adapter	N/A	CD289	Input: AC100-240V, 50/60Hz, 2A Max USB-C1 Output: DC5V/3A, 9V3A, 12V/3A, 15V/3A, 20V/5A, 28V/5A 140W MAX USB-C2 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX USB-A Output: DC5V/4.5A, 4.5V/5A, 5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	Peripheral
4	Mobile phone	OPPO	Find X8	N/A	Peripheral

Note:

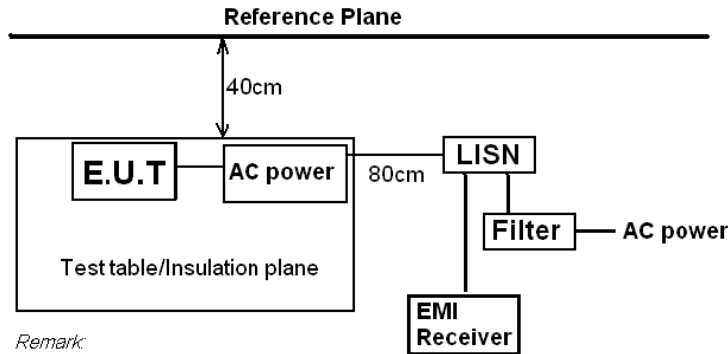
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. Wireless load (Load 1) is a device containing rechargeable batteries 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. 19, 2025	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 19, 2025	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 19, 2025	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	1 Year
6.	Preamplifier	EMCI	EMC051845 S	HKE-006	Feb. 19, 2025	1 Year
7.	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	1 Year
8.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	1 Year
9.	6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	1 Year
10.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	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. 19, 2025	1 Year

3. AC 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

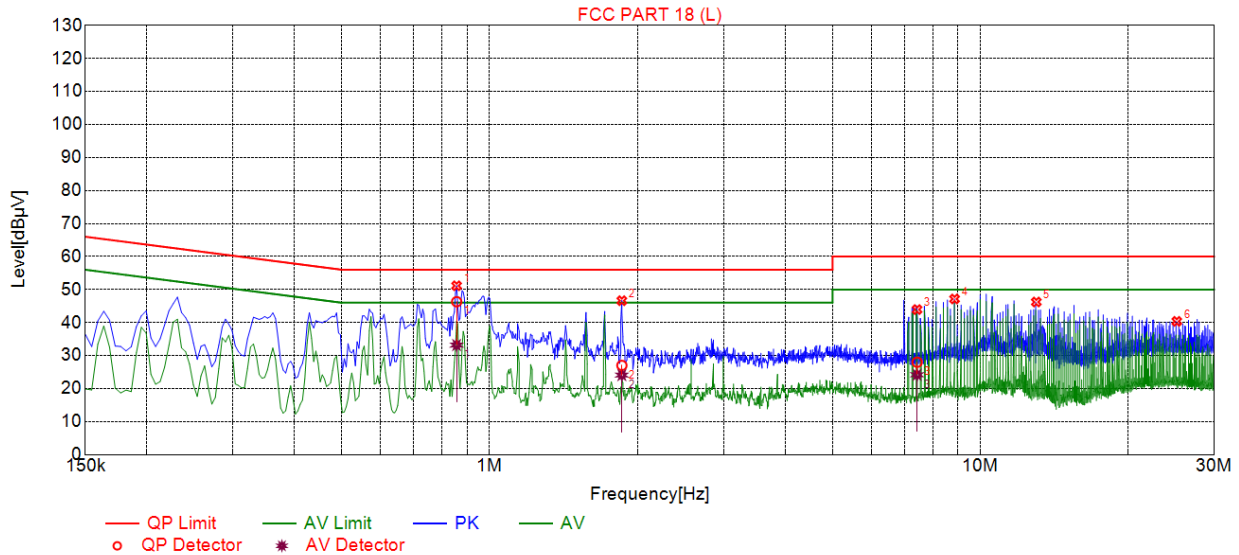
1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI 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	0.8565	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

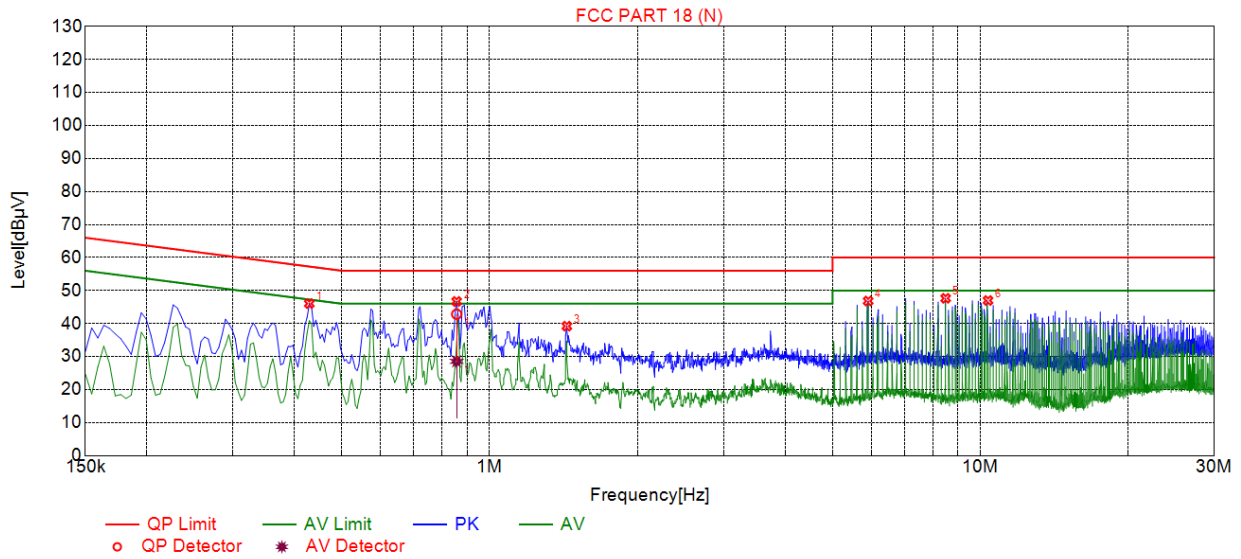
Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

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

Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	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 [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	19.76	42.84	56.00	13.16	23.08	28.55	46.00	17.45	8.79	N

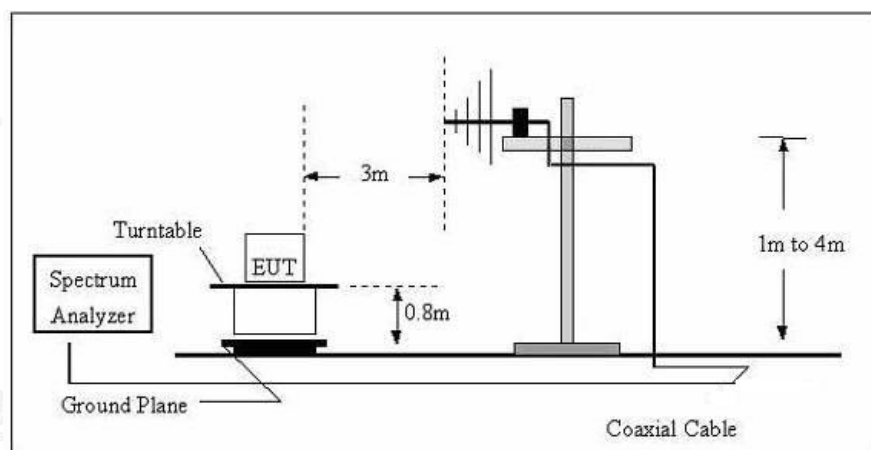
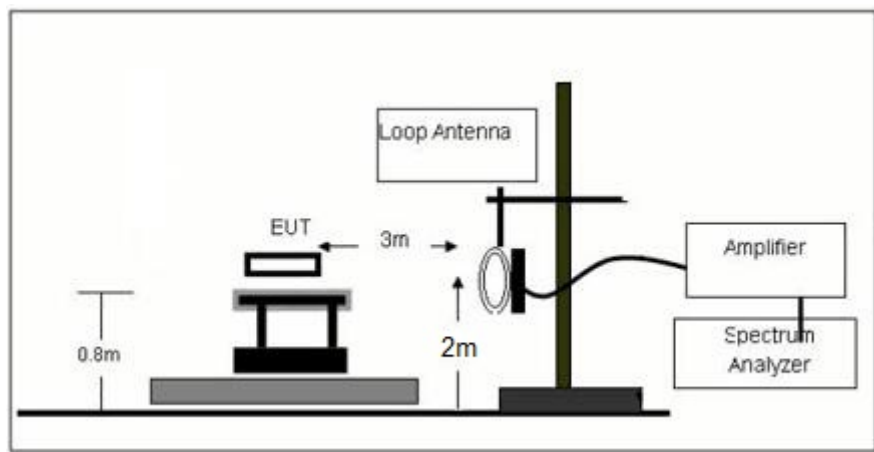
Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

4. 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 = 20log (15) + 40log (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.

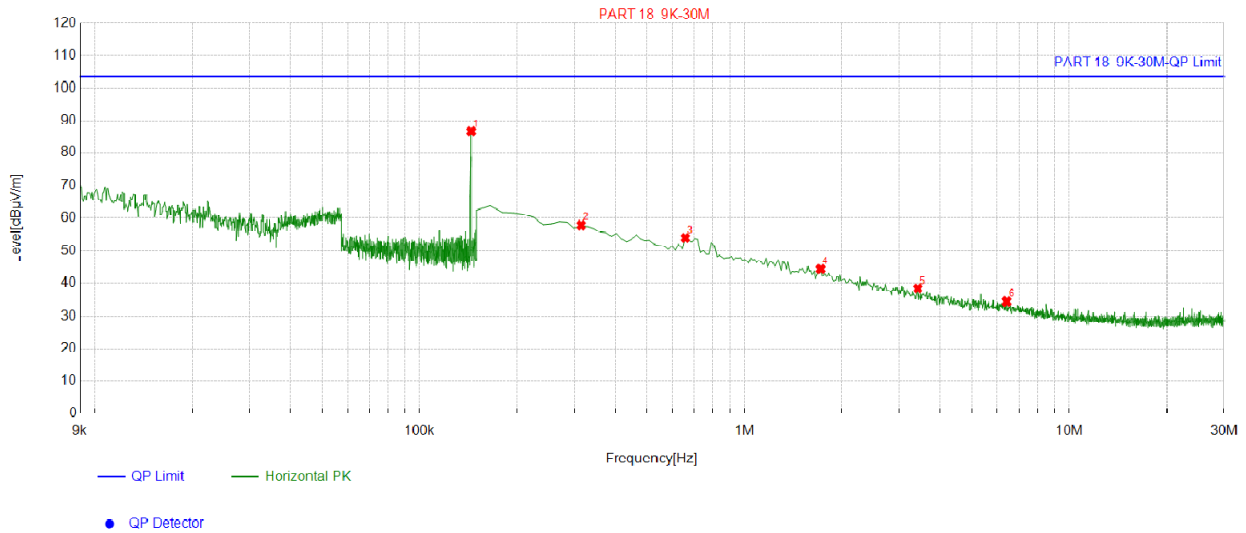
Measurements below 1000MHz are performed with a peak detector and compared to average limits, Measurements with an average detector are not required.

4.4. Test Result

PASS

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

For 9KHz - 30MHz



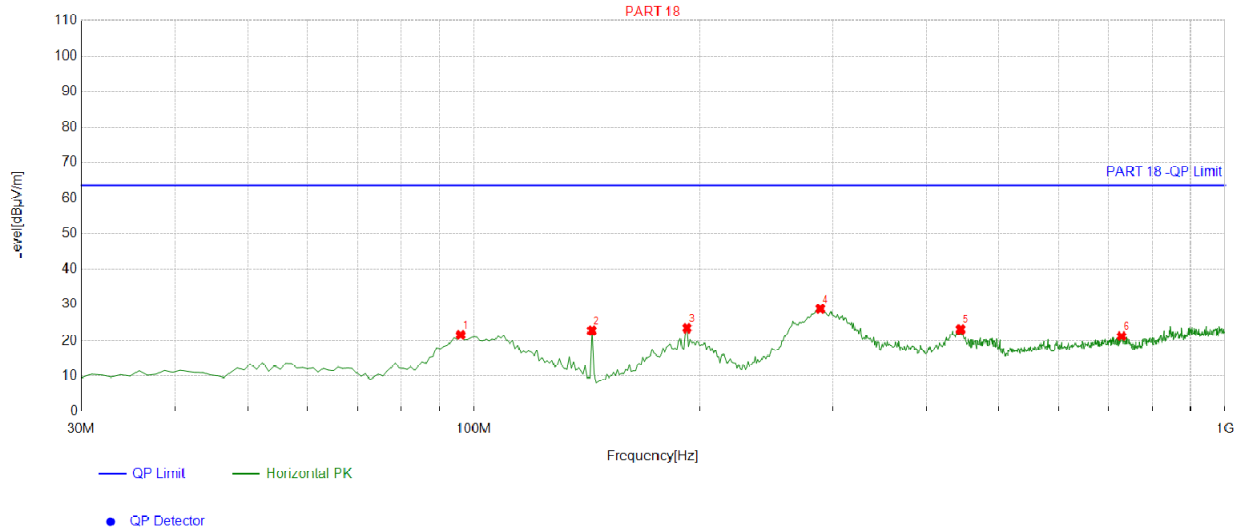
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.1441	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;

For 30MHz-1GHz

Antenna polarity: H

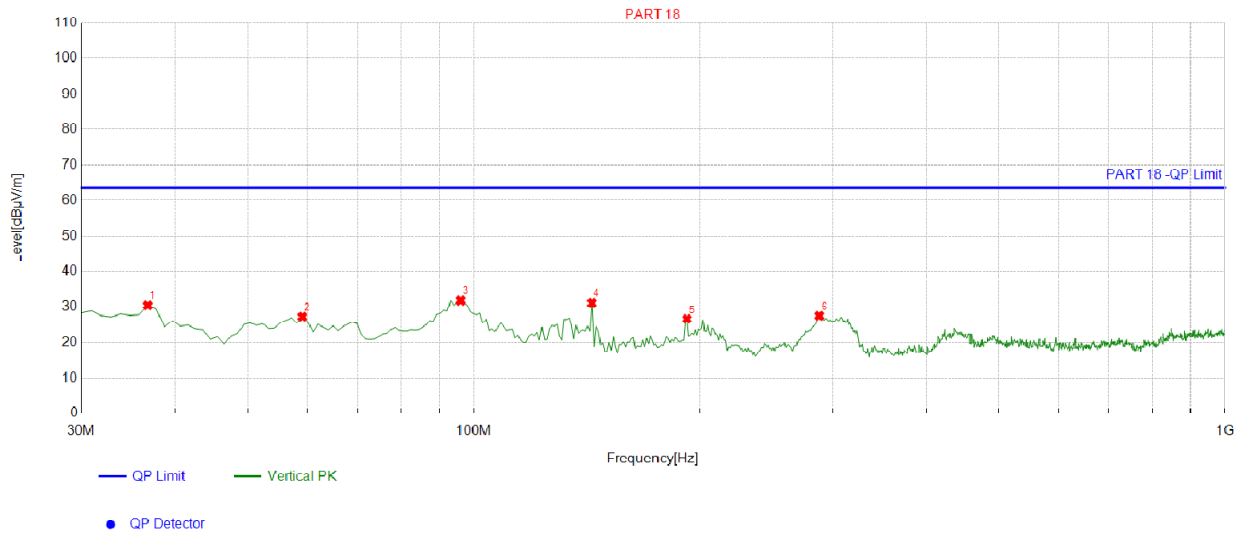


Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	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;

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;

5. Antenna Requirement

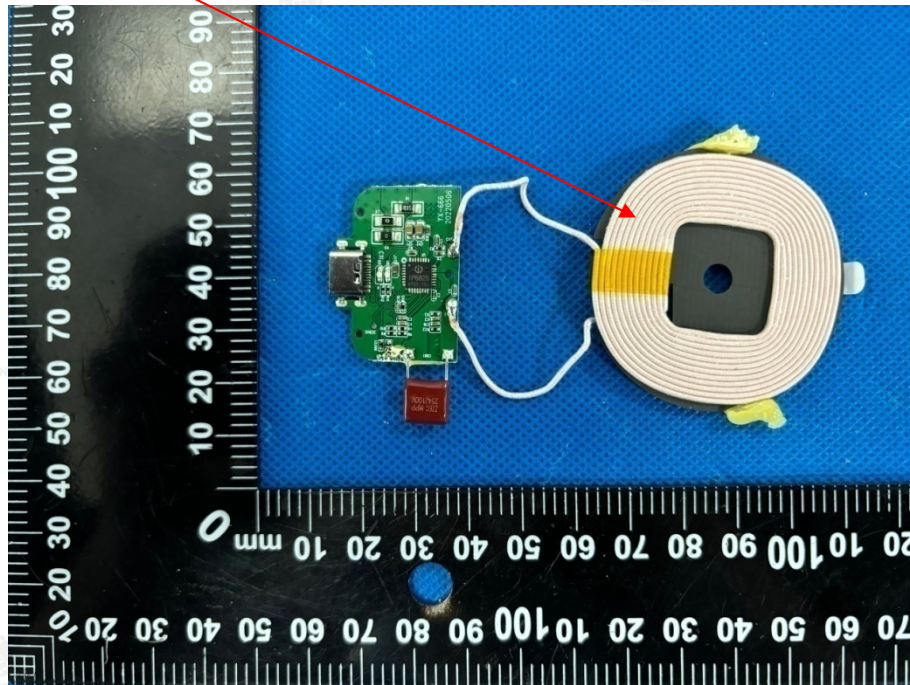
Refer to statement below for compliance.

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

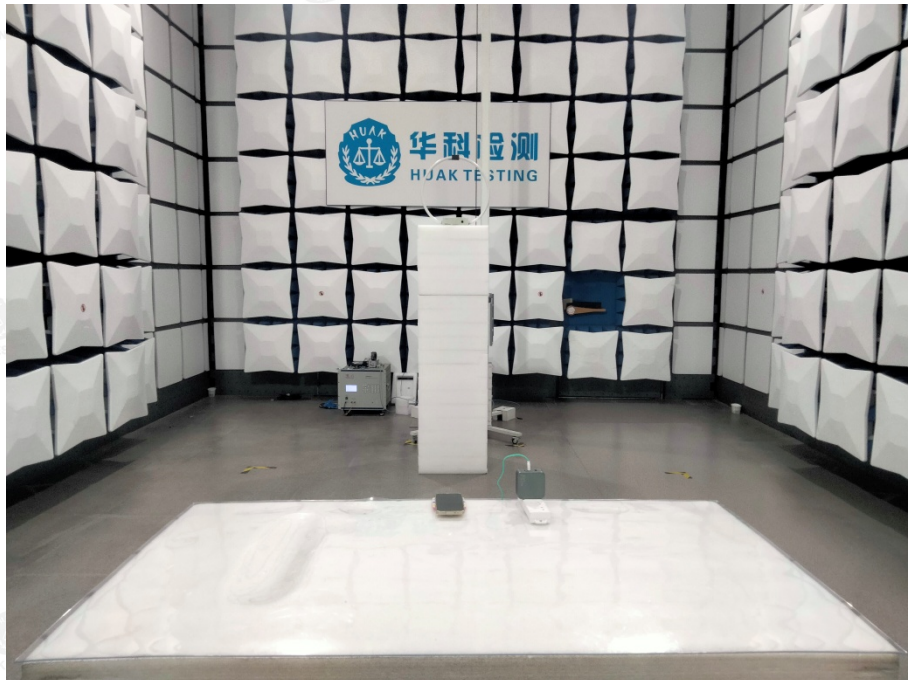
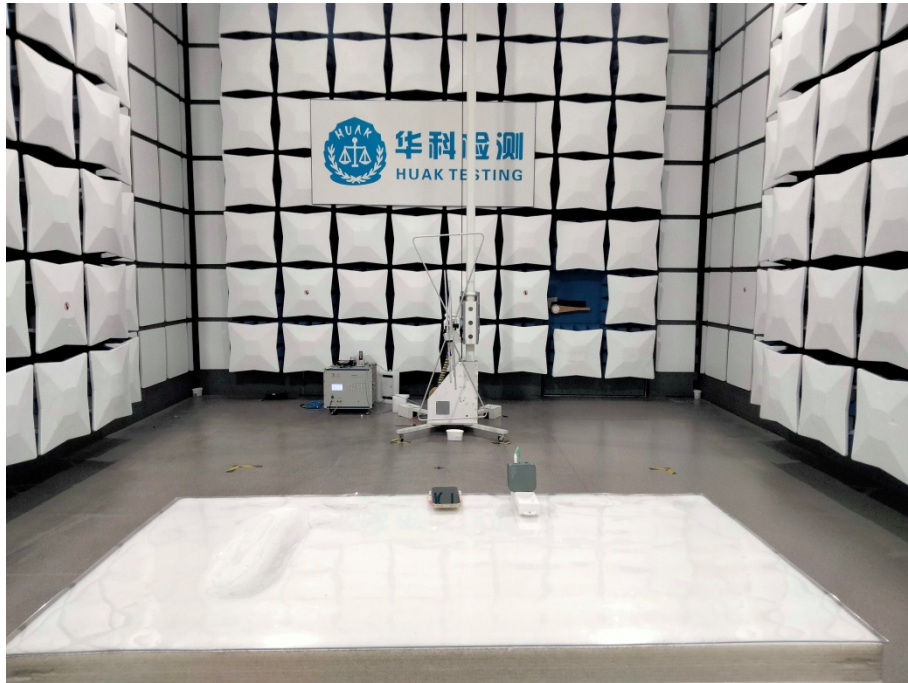
The antenna used in this product is a Coil Antenna, which permanently attached. It conforms to the standard requirements.

Antenna



6. Photographs of Test

Radiated Emission



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-----

