

# FCC Test Report

**Test Report  
On Behalf of  
Shenzhen Vanyust Technology Limited  
For  
Magnetic Power bank**

**Model No.: S2105, S2105H, S3105, S3105H, S2106, S2106H, S3106,  
S3106H, S4106, S1105, S1122, S1121**

**FCC ID: 2BPHE-S2105**

**Prepared For :** **Shenzhen Vanyust Technology Limited**  
**6th Floor, Block C5, Zhu ao Zhizao Park, Gushu 1st Road, Xixiang Street,**  
**Bao'an District, Shenzhen, Guangdong, China**

**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:** **Mar. 20, 2025 ~ Apr. 10, 2025**  
**Date of Report:** **Apr. 10, 2025**  
**Report Number:** **HK2503201350-E**

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## Test Result Certification

**Applicant's Name** ..... : Shenzhen Vanyust Technology Limited  
Address ..... : 6th Floor, Block C5, Zhu ao Zhizao Park, Gushu 1st Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

**Manufacturer's Name** ..... : Shenzhen Vanyust Technology Limited  
Address ..... : 6th Floor, Block C5, Zhu ao Zhizao Park, Gushu 1st Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

### Product Description

Trade Mark ..... : N/A  
Product Name ..... : Magnetic Power bank  
Model and/or Type Reference: S2105, S2105H, S3105, S3105H, S2106, S2106H, S3106, S3106H, S4106, S1105, S1122, S1121

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

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

Date (s) of performance of tests ..... : **Mar. 20, 2025 ~ Apr. 10, 2025**  
Date of Issue ..... : **Apr. 10, 2025**  
Test Result ..... : **Pass**

Testing Engineer



Len Liao

Len Liao

Technical Manager



Sliver Wan

Sliver Wan

Authorized Signatory



Jason Zhou

Jason Zhou

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

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Apr. 10, 2025	Jason Zhou

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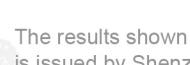
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## 1. Test Summary

### 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



## 2. General Information

### 2.1. General Description of EUT

Equipment:	Magnetic Power bank
Model Name:	S2105
Series Models:	S2105H, S3105, S3105H, S2106, S2106H, S3106, S3106H, S4106, S1105, S1122, S1121
Model Difference:	All model's the function, software and electric circuit are the same, only with product model named different. Test sample mode: S2105.
Trade Mark:	N/A
FCC ID:	2BPHE-S2105
Antenna Type:	Coil Antenna
Operation Frequency:	112KHz~205KHz
Test Frequency:	DC Mode: 154KHz AC Mode: 114KHz
Modulation Type:	ASK
Power Source:	Type-C Input: DC5V/3.0A, 9V/2.2A Type-C Output: DC5V/3.0A, 9V/2.2A Wireless Output: 5W/7.5W/10W/15W Battery: 3.85V
Power Rating:	Type-C Input: DC5V/3.0A, 9V/2.2A Type-C Output: DC5V/3.0A, 9V/2.2A Wireless Output: 5W/7.5W/10W/15W Battery: 3.85V
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>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
01	154KHz
02	114KHz

## 2.3. Test Mode

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%)
	Mode 4	EUT + Mobile Phone (Battery Status: <1%)
	Mode 5	EUT + Mobile Phone (Battery Status: <50%)
	Mode 6	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 is 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%.



## 2.5. 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	Remark
1	Magnetic Power bank	N/A	S2105	HUAK TESTING N/A	EUT
2	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
3	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. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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**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

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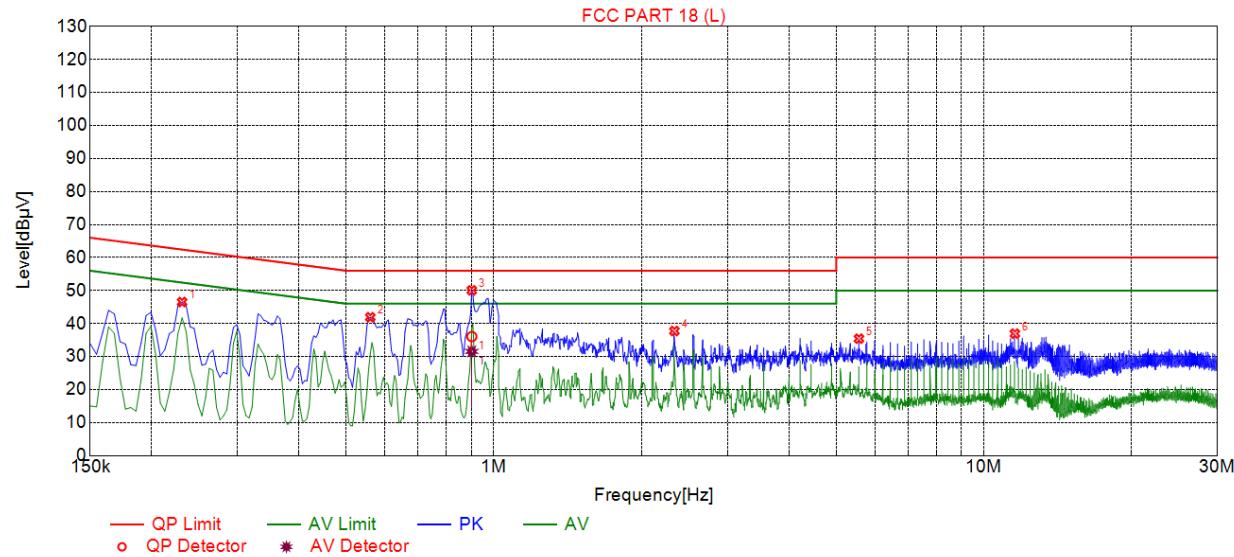
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**3.4. Test Result****PASS**

All the test modes completed for test. Only the worst result (Mobile Phone AC Working Full Load) 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	0.2310	46.53	19.83	62.41	15.88	26.70	PK	L
2	0.5595	41.91	19.86	56.00	14.09	22.05	PK	L
3	0.9015	50.07	19.87	56.00	5.93	30.20	PK	L
4	2.3370	37.74	20.00	56.00	18.26	17.74	PK	L
5	5.5635	35.42	20.11	60.00	24.58	15.31	PK	L
6	11.5800	36.94	19.88	60.00	23.06	17.06	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	0.9015	19.73	36.07	56.00	19.93	16.34	31.56	46.00	14.44	11.83	L

Remark: Margin = Limit – Level

Correction factor = Cable loss + ISN insertion loss

Level=Test receiver reading + correction factor

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## 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.



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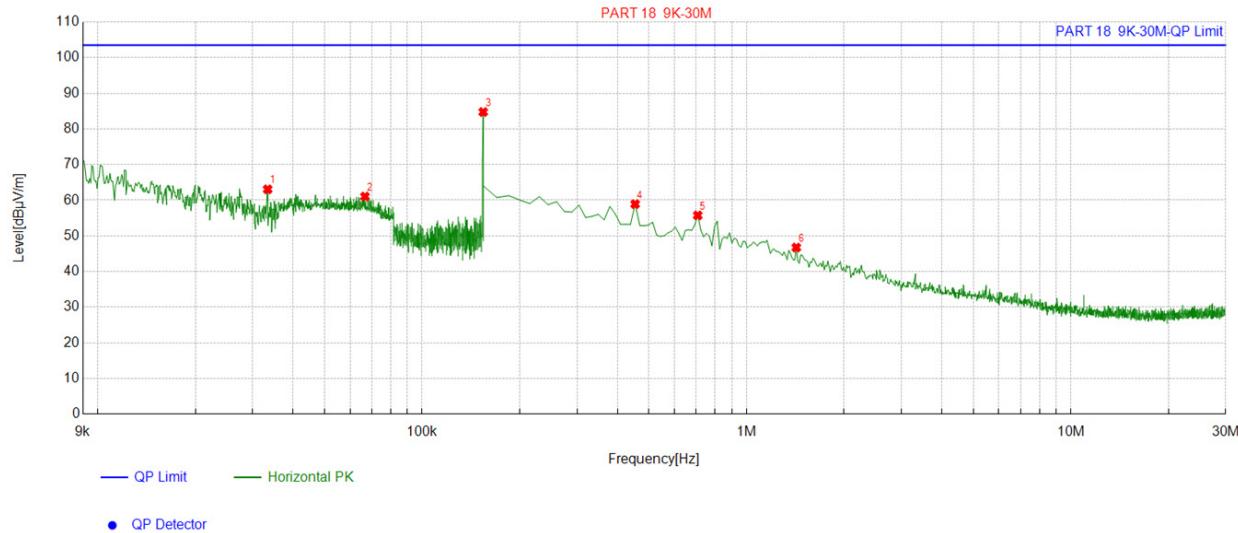
#### 4.4. Test Result

PASS

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

For 9KHz - 30MHz

DC Mode:



#### 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	0.033394	20.42	42.65	63.07	103.50	40.43
2	0.066626	20.47	40.58	61.05	103.50	42.45
3	0.15427	20.42	64.33	84.75	103.50	18.75
4	0.453599	20.19	38.73	58.92	103.50	44.58
5	0.707409	20.25	35.51	55.76	103.50	47.74
6	1.424047	20.49	26.25	46.74	103.50	56.76

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

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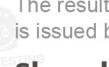
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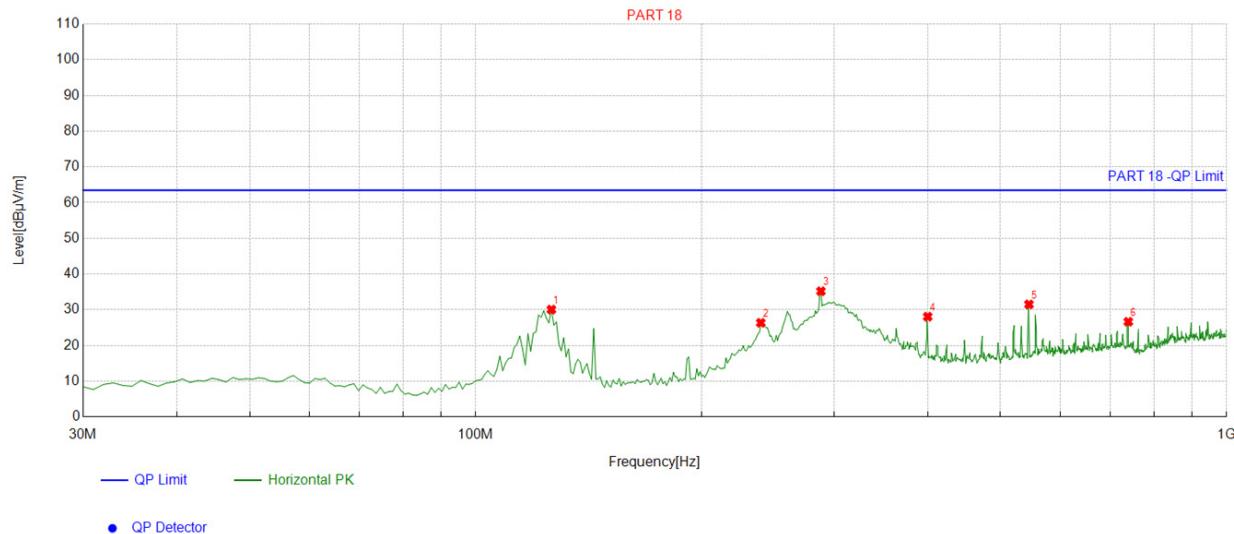
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For 30MHz-1GHz

DC Mode:

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	126.12612	-16.75	46.82	30.07	63.50	33.43	100	164	Horizontal
2	239.72973	-13.71	40.07	26.36	63.50	37.14	100	231	Horizontal
3	288.27827	-12.19	47.39	35.20	63.50	28.30	100	266	Horizontal
4	399.93994	-9.84	37.91	28.07	63.50	35.43	100	182	Horizontal
5	545.58558	-7.29	38.80	31.51	63.50	31.99	100	225	Horizontal
6	739.77978	-3.39	30.04	26.65	63.50	36.85	100	37	Horizontal

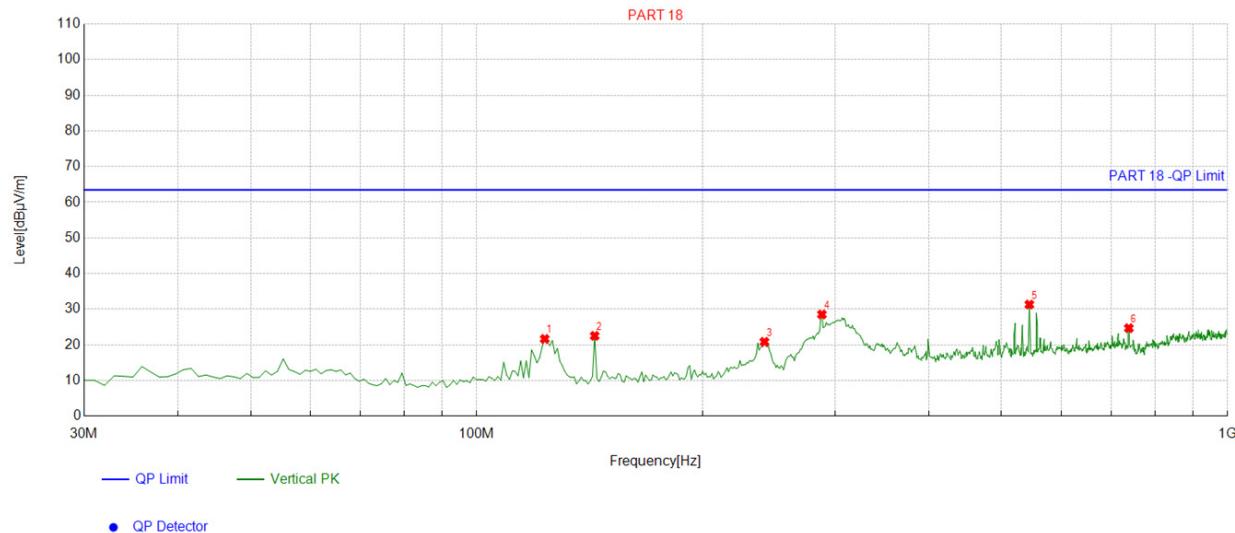
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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Antenna polarity: V



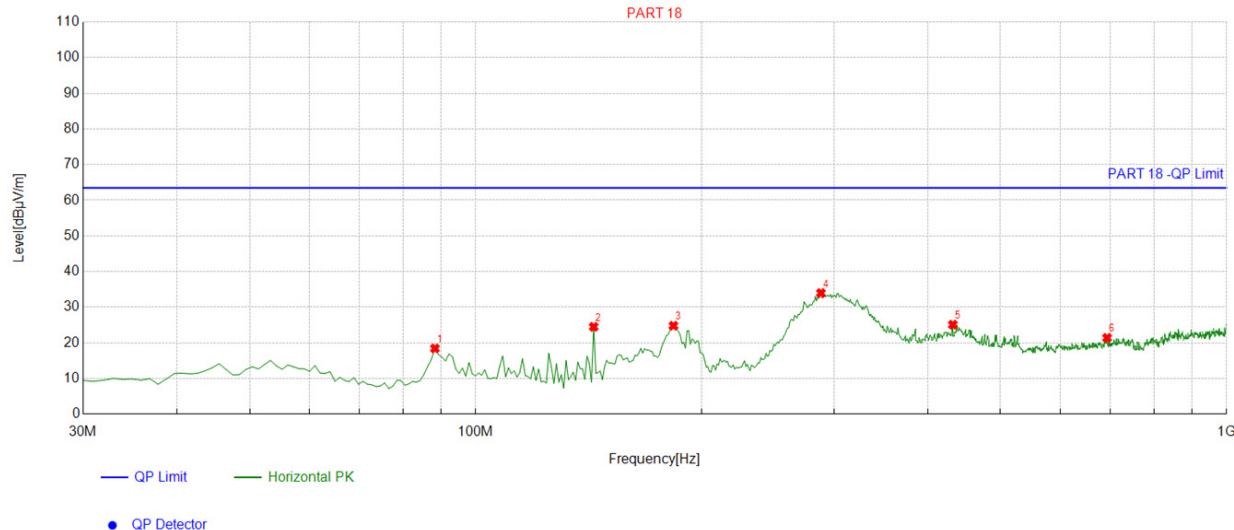
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	123.21321	-16.28	37.94	21.66	63.50	41.84	100	277	Vertical
2	143.60360	-18.35	40.88	22.53	63.50	40.97	100	323	Vertical
3	241.67167	-13.52	34.38	20.86	63.50	42.64	100	190	Vertical
4	288.27827	-12.19	40.73	28.54	63.50	34.96	100	359	Vertical
5	544.61461	-7.29	38.60	31.31	63.50	32.19	100	115	Vertical
6	738.80880	-3.42	28.11	24.69	63.50	38.81	100	359	Vertical

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



AC Mode:

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	88.258258	-17.03	35.47	18.44	63.50	45.06	100	3	Horizontal
2	143.60360	-18.35	42.86	24.51	63.50	38.99	100	324	Horizontal
3	183.41341	-15.63	40.45	24.82	63.50	38.68	100	313	Horizontal
4	288.27827	-12.19	46.17	33.98	63.50	29.52	100	120	Horizontal
5	431.98198	-8.85	33.96	25.11	63.50	38.39	100	152	Horizontal
6	693.17317	-4.14	25.55	21.41	63.50	42.09	100	284	Horizontal

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

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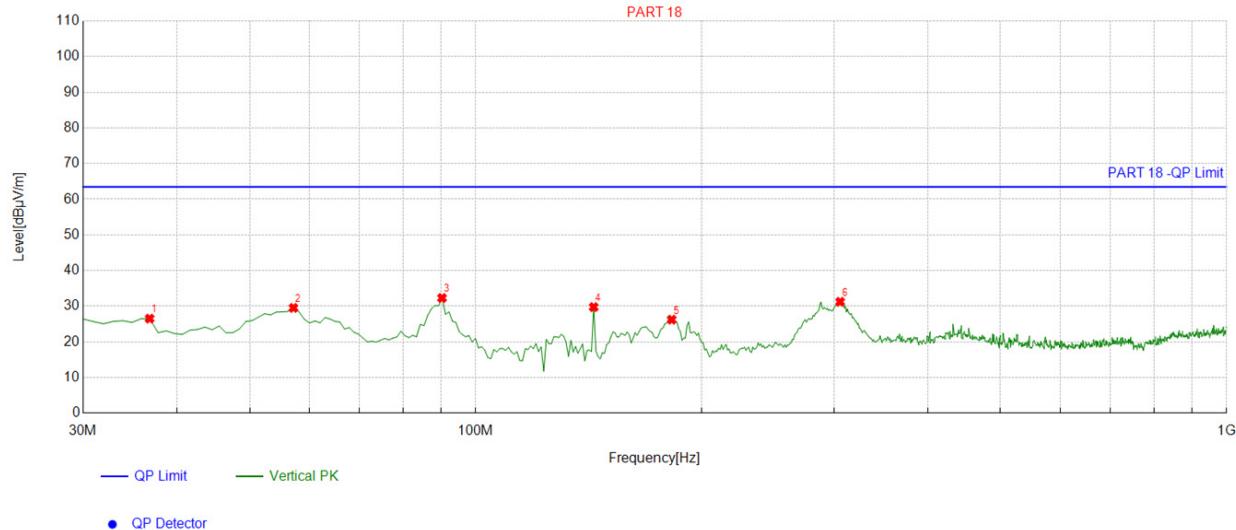
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Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Antenna polarity: V



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	36.796797	-14.57	41.10	26.53	63.50	36.97	100	91	Vertical
2	57.187187	-13.76	43.29	29.53	63.50	33.97	100	88	Vertical
3	90.2002	-16.68	48.99	32.31	63.50	31.19	100	237	Vertical
4	143.60360	-18.35	48.11	29.76	63.50	33.74	100	53	Vertical
5	182.44244	-15.91	42.14	26.23	63.50	37.27	100	0	Vertical
6	305.75575	-11.90	43.14	31.24	63.50	32.26	100	358	Vertical

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



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## 5. Antenna Requirement

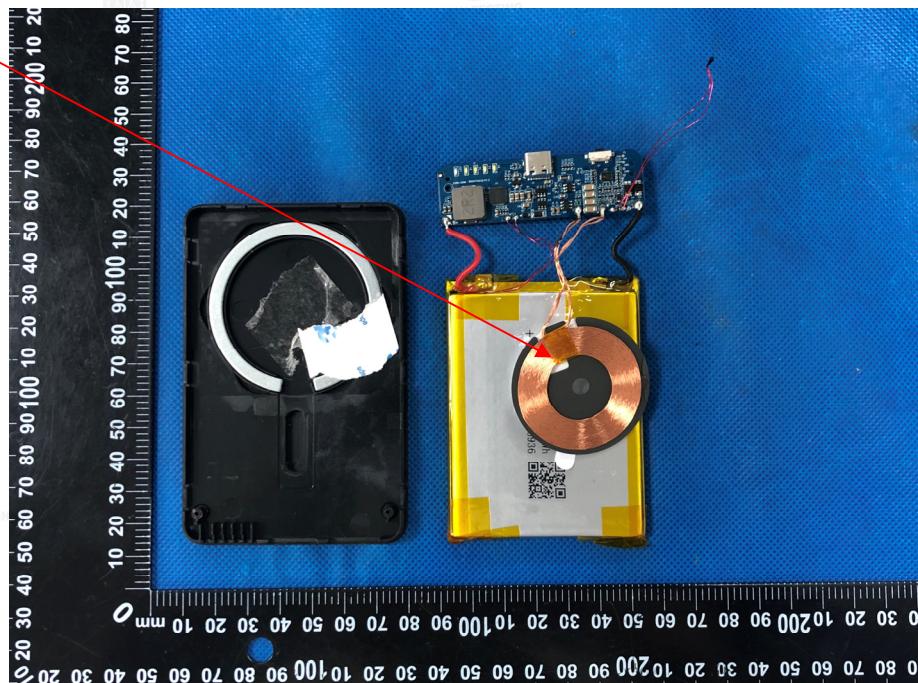
### Refer to statement below for compliance.

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 Coil Antenna, which permanently attached. It conforms to the standard requirements.

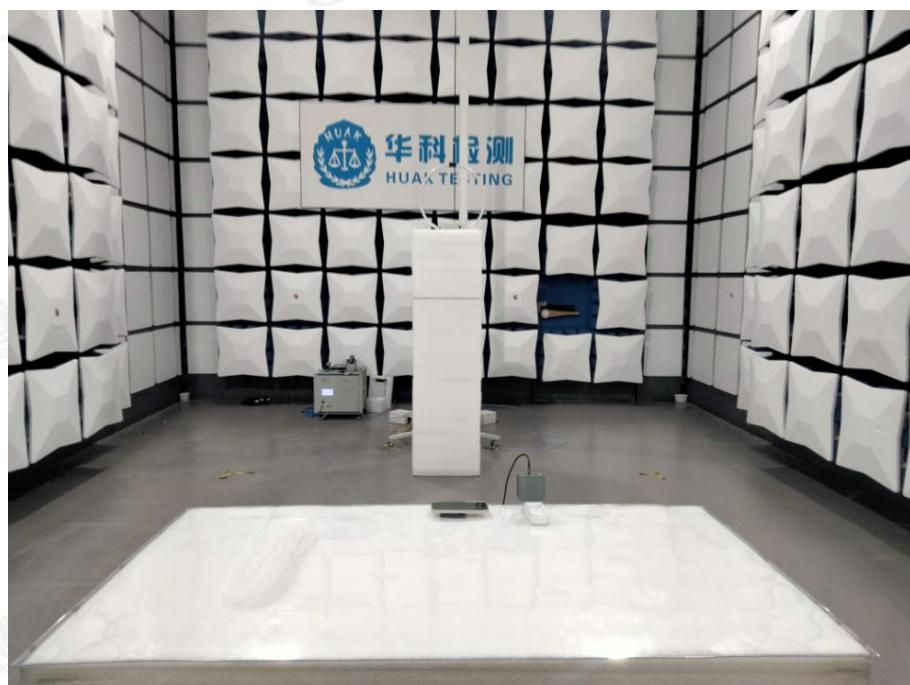
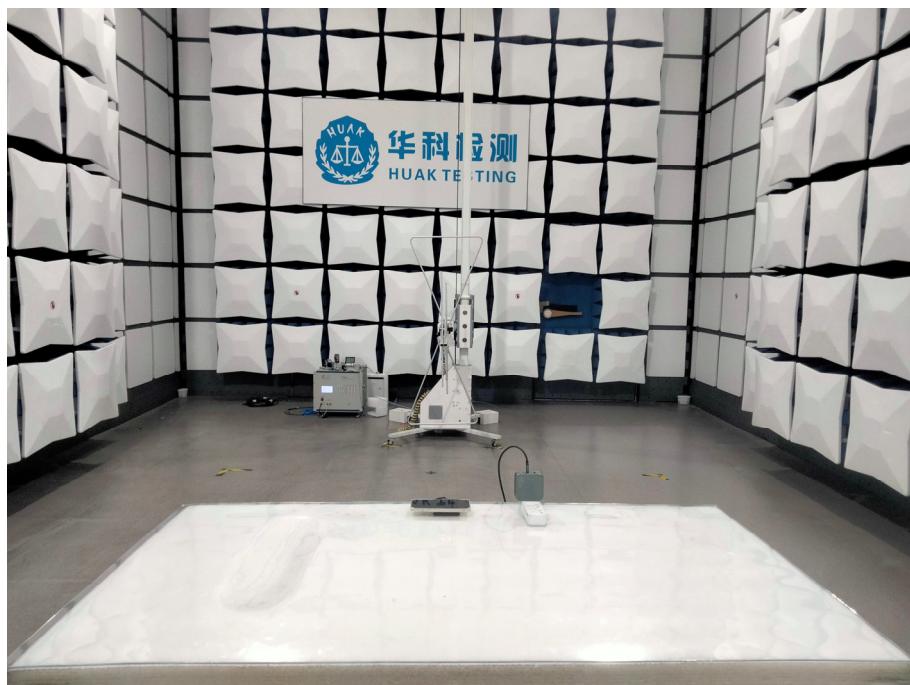
Antenna



## 6. Photographs of Test

AC Mode:

## Radiated Emission



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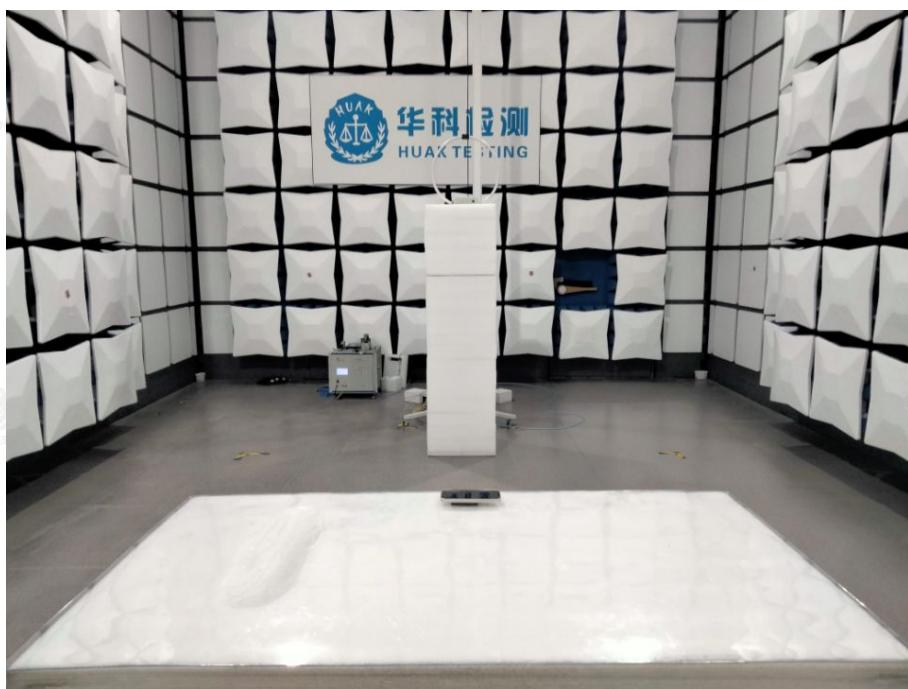
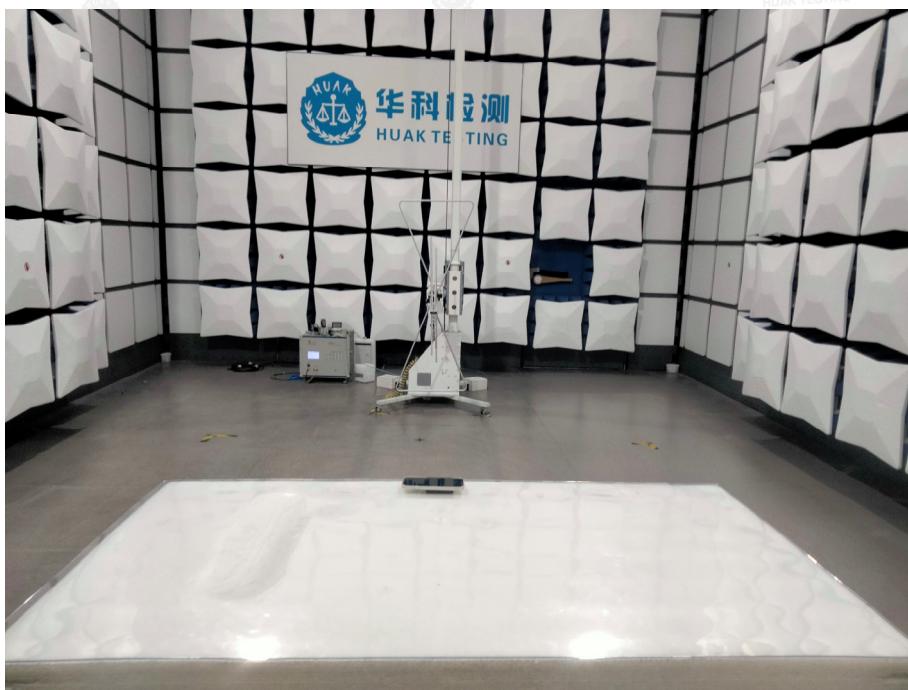
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DC Mode:



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### AC Conducted Emission



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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-----



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