

# **FCC Test Report**

Test Report
On Behalf of
Shenzhen Yiqizhao Technology Co.,Ltd
For
2-in-1 Wireless Charging
Model No.: N4-1, N4

FCC ID: 2BC2X-N4-1

Prepared For: Shenzhen Yiqizhao Technology Co.,Ltd

201, Floor 2, Building 6, Yunli Intelligent Park, No. 3, Changfa

MiddleRoad, YangmeiCommunity, BantianStreet, Shenzhen, 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: Jun. 20, 2024 ~ Jun. 28, 2024

Date of Report: Jun. 28, 2024

Report Number: HK2406203233-1E

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### **Test Result Certification**

Applicant's Name.....: Shenzhen Yiqizhao Technology Co.,Ltd

201, Floor 2, Building 6, Yunli Intelligent Park, No. 3, Changfa

Report No.: HK2406203233-1E

Address.....: MiddleRoad, YangmeiCommunity, BantianStreet, Shenzhen,

China

Manufacturer's Name .....: Shenzhen Yiqizhao Technology Co.,Ltd

310-313 Room 3 Floor A Building Baiwangda Intelligent Park,

Shenzhen, Guangdong, China

**Product Description** 

Trade Mark .....: N/A

Model and/or Type Reference: N4-1, N4

Standards ..... FCC CFR 47 PART 18

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Date of Test .....:

Date (s) of performance of tests ...... Jun. 20, 2024 ~ Jun. 28, 2024

Test Result..... Pass

**Testing Engineer** 

en lian

Len Liao

**Technical Manager** 

When

Sliver Wan

**Authorized Signatory** 

Jason Muu

Jason Zhou

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\*\* Modified History \*\*

Revision	Description	Issued	Data Remark
Revision 1.0	Initial Test Report R	elease Jun. 28,	2024 Jason Zhou
CTING	TING	- STING	STING STING
MAKTER	TAKTES	NAX PEC	MAKTER

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# 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 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 CN3229.

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	4.28dB, k=2

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# 2. General Information

2.1. General Description of EUT

Equipment:	2-in-1 Wirele	ess Charging				
Model Name:	N4-1	STING	GTNG	STA	G	STING
Series Models:	N4		HUAKTE	HUAKTE		HUAKTE
Model Difference:				electric circuit a Test sample m		
Trade Mark:	N/A		ESTING	HUAK TES	· ·	STING
FCC ID:	2BC2X-N4-	1 HUAK			HUAK	
Antenna Type:	Coil Antenna	a		AK TESTING		
Operation Frequency:	112KHz~20	5KHz	TESTING OF HE	).	STING	TESTING
Test Frequency:	Mobile Phor Watch: 133k		New	1 HUAK TE	O H	Die
Modulation Type:	ASK					
Power Source:		e /Earphone	DC9V/3A, DC output: 15W/1	12V/2A I0W/7.5W/5W		HUAKTESTING
Power Rating:		e /Earphone	DC9V/3A, DC output: 15W/1	12V/2A I0W/7.5W/5W	HUAKTE	STING

#### Note:

- 1. The transfer system includes two coils, 2 coils can work individually or can work at the same time. All situations have been tested, only the worst situation was recorded in the report.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 3. The cable loss data is obtained from the supplier.
- 4. The test results in the report only apply to the tested sample.



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2.2. Carrier Frequency of Channels

100 April 100 Ap	All V	100 April 1	400 V	ALIE 4/1/11	400 V
Operation	Frequency each of char	nnel		(ii)	
Channel	Frequency				
01,511115	134KHz	TESTING	TESTING	TESTING	7551
02	133KHz				HUAN

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2.3. Test Mode

Test Item	Test Mode	Description (S) HUAK TESTING (S) HUAK TE
STING	Mode 1	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%) + Watch (Battery Status: <1%)
	Mode 2	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%) + Watch (Battery Status <1%)
	Mode 3	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%) + Watch (Battery Status <1%)
	Mode 4	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%) + Watch (Battery Status <50%)
	Mode 5	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%) + Watch (Battery Status <50%)
Radiated &	Mode 6	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%) + Watch (Battery Status
Conducted Test Cases	Mode 7	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%) + Watch (Battery Status >95%)
	Mode 8	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%) + Watch (Battery Status >95%)
	Mode 9	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%) + Watch (Battery Status >95%)
	Mode 10	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%)
	Mode 11	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%)
	Mode 12	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%)
	Mode 13	AC/DC Adapter + EUT + Watch (Battery Status: <1%)
	Mode 14	AC/DC Adapter + EUT + Watch (Battery Status: <50%)
	Mode 15	AC/DC Adapter + EUT + Watch (Battery Status: >95%)
MAKTES	Mode 16	AC/DC Adapter + EUT (Null Load)

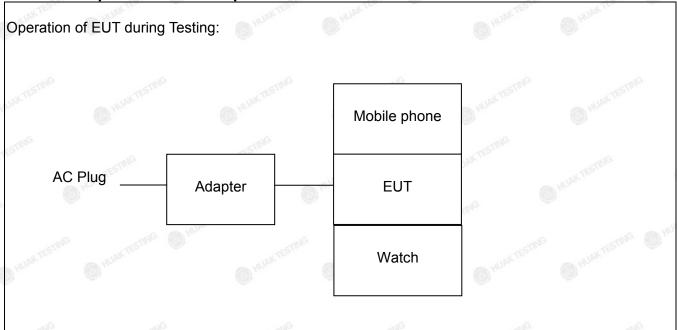
Note: 1. All modes and configurations above have been tested, the report only shows the worst-case.

- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode, including the mobile phone in vertical and horizontal positions.
- 3. The Mobile Phone, Watch 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%.

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2.4. Description of Test Setup



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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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.

Equipment  2-in-1 Wireless Charging	Trade Mark	Model/Type No.	Specification	Remark
	N1/A			
	N/A	N4-1	N/A	EUT
Adapter	N/A	191106C	Input: AC100-240V, 1.8A, 50/60Hz Output: DC5V/3A, 9V3A, 12V/3A, 15V/3A, 20V/3.25A, (65W Max)	Peripheral
MICH TESTING		ESTING HARVESTIN	Input: AC100-240V, 50/60Hz, 2A Max USB-C1 Output: DC5V/3A, 9V3A, 12V/3A, 15V/3A,	
Adapter	N/A	CD289	USB-C2 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX	Peripheral
WANTESTING	MAKTESTING	WAN TESTING	4.5V/5A, 5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	TESTING
USB Cable	N/A	N/A	Length: 1m	Peripheral
Mobile phone	APPLE	iPhone 13	N/A	Peripheral
Watch	Apple	Ultra	N/A TESTING	Peripheral
0	(I) HURS	0,100	O HU	Arc.
	Adapter  USB Cable  Mobile phone	Adapter N/A  USB Cable N/A  Mobile phone APPLE	Adapter N/A CD289  USB Cable N/A N/A  Mobile phone APPLE iPhone 13	Adapter N/A 191106C Output: DC5V/3A, 9V3A, 12V/3A, 15V/3A, 20V/3.25A, (65W Max)  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  USB Cable N/A N/A Length: 1m  Mobile phone APPLE iPhone 13 N/A

### 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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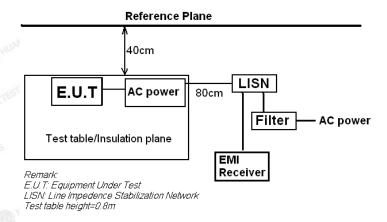
2.6. Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 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-025	Feb. 20, 2024	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	1 Year
6.	Preamplifier	EMCI	EMC051845S	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	1	<sub>6</sub> /
15.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	HUAKTE	1
16.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	1 Year

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#### 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)

ESSEN .	TOTAL .	15	2007	100 May 1	
F	M	aximum RF Li	ine Voltage (d	ΒμV)	
Frequency (MHz)	CLAS	SS A	CLASS B		
(111112)	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	

<sup>\*</sup> 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.

AFICATION.

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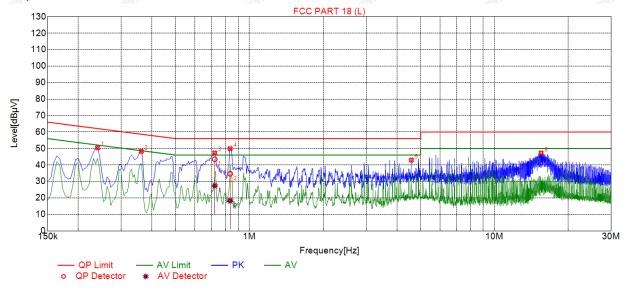
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## 3.4. Test Result

**PASS** 

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





Sus	Suspected List													
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре						
1	0.2400	50.46	19.83	62.10	11.64	30.63	PK	٦						
2	0.3615	48.28	19.84	58.69	10.41	28.44	PK	L						
3	0.7215	47.30	19.86	56.00	8.70	27.44	PK	٦						
4	0.8340	49.93	19.87	56.00	6.07	30.06	PK	L						
5	4.5825	42.99	20.10	56.00	13.01	22.89	PK	L						
6	15.5175	47.28	19.81	60.00	12.72	27.47	PK	L						

ı	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]	Туре
	1	0.7215	19.87	43.50	56.00	12.50	23.63	27.42	46.00	18.58	7.55	L
	2	0.8340	19.87	34.68	56.00	21.32	14.81	18.28	46.00	27.72	-1.59	L

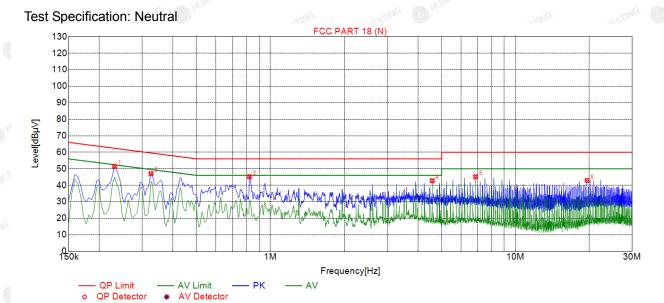
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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Sus	Suspected List													
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре						
1	0.2310	51.45	19.73	62.41	10.96	31.72	PK	N						
2	0.3255	47.07	19.74	59.57	12.50	27.33	PK	N						
3	0.8205	45.23	19.74	56.00	10.77	25.49	PK	N						
4	4.5825	42.76	19.99	56.00	13.24	22.77	PK	N						
5	6.8775	45.17	19.97	60.00	14.83	25.20	PK	N						
6	19.6485	42.94	19.97	60.00	17.06	22.97	PK	N						

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

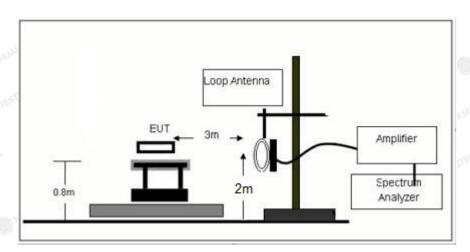
Level=Test receiver reading + correction factor

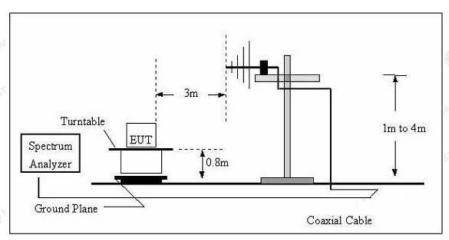
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# 4. Radiated Emissions

# 4.1. Block Diagram of Test Setup





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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 <sup>1</sup> 300

#### Remark:

- (1) Emission level dBuV/m for  $0.009\sim30$ MHz =  $20\log(15) + 40\log(300/3)$  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.

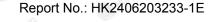
Note:

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

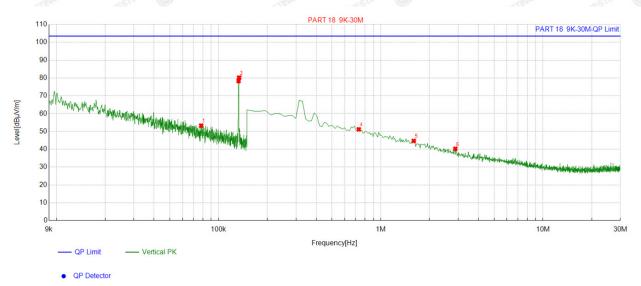
### 4.4. Test Result

PASS.

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### For 9KHz - 30MHz



	Suspe	Suspected List									
ų		Freq.	Factor	Reading	Level	Limit	Margin				
<	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]				
	1	0.078125	20.69	32.58	53.27	103.50	50.23				
	2	0.13286	20.41	57.86	78.27	103.50	25.23				
	3	0.133706	20.41	59.77	80.18	103.50	23.32				
1	4	0.732366	20.25	30.95	51.20	103.50	52.30				
	5	1.598449	20.50	24.19	44.69	103.50	58.81				
	6	2.882641	20.19	20.08	40.27	103.50	63.23				

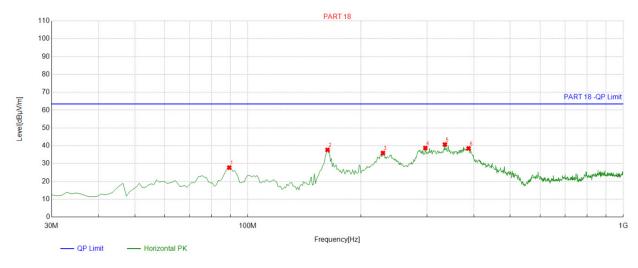
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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# For 30MHz-1GHz

## Antenna polarity: H



QP Detecto

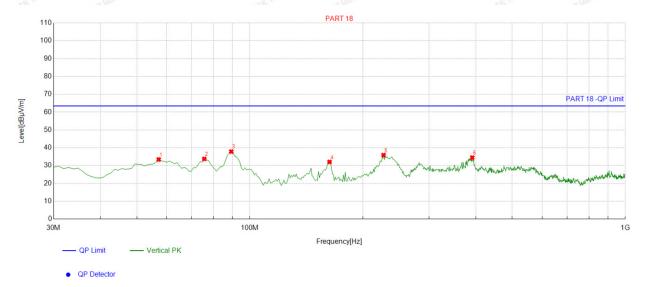
_	16.67		16.60		MC SC No.	W. W. W.		1000		N. S. D.
ð	Suspe	cted List	List							
<	NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dolositu
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	89.229229	-16.75	44.50	27.75	63.50	35.75	100	360	Horizontal
	2	163.02302	-17.59	55.29	37.70	63.50	25.80	100	175	Horizontal
	3	229.04904	-13.93	49.88	35.95	63.50	27.55	100	97	Horizontal
	4	297.01701	-11.84	50.58	38.74	63.50	24.76	100	175	Horizontal
	5	334.88488	-10.61	51.34	40.73	63.50	22.77	100	161	Horizontal
	6	387.31731	-9.31	47.85	38.54	63.50	24.96	100	142	Horizontal

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



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# Antenna polarity: V



	Suspe	spected List								
4		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
<	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
Г	1	57.187187	-13.76	47.19	33.43	63.50	30.07	100	254	Vertical
	2	75.635636	-17.98	51.73	33.75	63.50	29.75	100	216	Vertical
3	3	89.229229	-16.75	54.62	37.87	63.50	25.63	100	216	Vertical
	4	163.02302	-17.59	49.64	32.05	63.50	31.45	100	57	Vertical
	5	227.10710	-13.92	49.82	35.90	63.50	27.60	100	359	Vertical
	6	391.20120	-9.51	44.00	34.49	63.50	29.01	100	88	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.

### <u>Antenna</u>

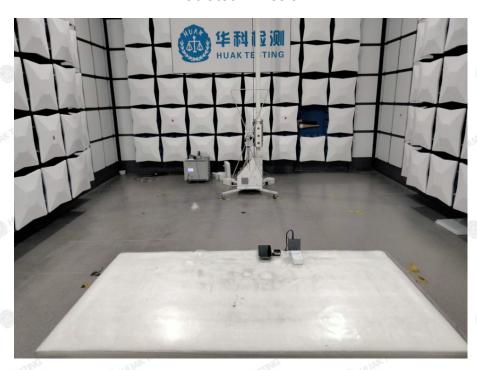


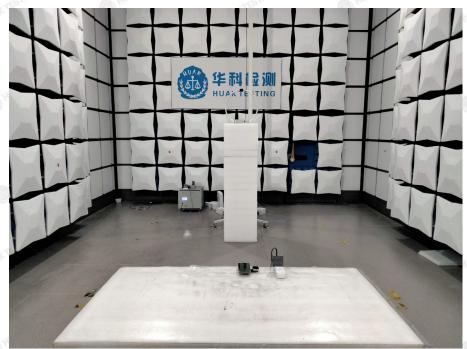
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# 6. Photographs of Test

## Radiated Emission



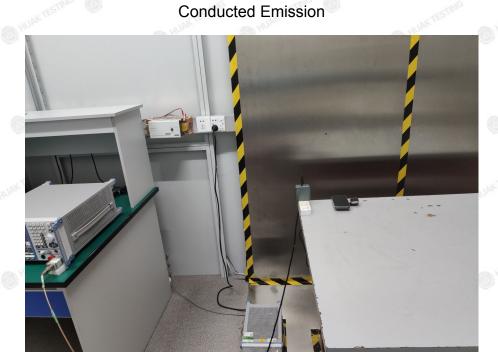


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NG HUAR

Report No.: HK2406203233-1E



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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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