

FCC Test Report

Test Report
On Behalf of
Shenzhen Xiangdangwen Technology Co.,Ltd.
For
3-in-1 Wireless Charging Power Bank
Model No.: 2E416

FCC ID: 2AW73-2E416

Prepared For: Shenzhen Xiangdangwen Technology Co.,Ltd.

106, 1/F, No.313-4 Building, Huachang Road, Langkou Community, Dalang

Street, Longhua District, Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Sept. 25, 2023 ~ Oct. 19, 2023

Date of Report: Oct. 19, 2023

Report Number: HK2309254436-1E



Test Result Certification

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

106, 1/F, No.313-4 Building, Huachang Road, Langkou

Community, Dalang Street, Longhua District, Shenzhen, China

Report No.: HK2309254436-1E

Manufacture's Name.....: Huizhou Yimai Electronics Technology Co., Ltd.

13rd Floor, Building B, Huakai High-tech Industrial Park,

Electronic City Road, Longxi Street, Boluo Country, China

Product Description

Trade Mark LISEN, AINOPE, VEICO

Model and/or Type Reference: 2E416

Standards: FCC CFR 47 PART 18

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Date of Test

Sept. 25, 2023 ~ Oct. 19, 2023 Date (s) of Performance of Tests

Oct. 19, 2023 Date of Issue....:

Test Result.....

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)

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** Modified History **

Revision		Description			Issued Data		Remark	
Revision 1.0 Initial Test Report Release		elease	Oct. 19, 2023		Jason Zhou			
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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 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:	3-in-1 Wireless Charging Powe	r Bank	QC
Model Name:	2E416	- WAY TEST	- WAY TEST
Series Models:	N/A	0,	9
Model Difference:	N/A MTGSTING	. av TESTING	-NG
Trade Mark:	LISEN, AINOPE, VEICO	(1) Inn	- WAY TESTIN
FCC ID:	2AW73-2E416	TING	
Antenna Type:	Coil Antenna	NG HUAKTES	e me
Antenna Gain:	0dBi	"IAK TESTIN	HUAKTESTA
Operation	0		
Frequency(Mobile	112KHz~205KHz		
Phone):	TS/TNG		
Operation Frequency(Watch):	314KHz	HUARTE	My Harage
Test Frequency:	Mobile Phone:113KHz Watch: 314KHz	HUANTESTING	V. TESTING
Modulation Type:	ASK		O HUND
Power Source:	Lightning Input:5V/2.4A Type-C Input: 5V/3A, 9V/2A, 12 Type-C Output: 5V/3A, 9V/2.23 USB Output: 5V/3A, 9V/2A, 12\ Type-C Cable Output: 5V/3A, 9 Lightning Cable Output: 5V/3A, Multi-port Simultaneous Output Phone Output: 5W/ 7.5W/10W/ working alone) Watch Output: 1.5W (Max.)	A, 12V/1.67A(PD 20W N V/1.5A(QC 18W Max) V/2.23A, 12V/1.67A(20V 9V/2.22A (20W Max) : 5V/3A, 15W Max	V Max)
Power Rating:	Lightning Input:5V/2.4A Type-C Input: 5V/3A, 9V/2A, 12 Type-C Output: 5V/3A, 9V/2A, 12 USB Output: 5V/3A, 9V/2A, 12 Type-C Cable Output: 5V/3A, 9 Lightning Cable Output: 5V/3A, Multi-port Simultaneous Output Phone Output: 5W/ 7.5W/10W/ working alone) Watch Output: 1.5W (Max.) em includes two coils, 2 coils can w	A, 12V/1.67A(PD 20W M V/1.5A(QC 18W Max) V/2.23A, 12V/1.67A(20V 9V/2.22A (20W Max) : 5V/3A, 15W Max 15W(15Max:Supported	W Max) only when

time. All the situation (full load, half load and empty load) has been tested, only the worst situation (ANT1+ANT2) was recorded in the report.

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2.2. Carrier Frequency of Channels

WAY TESTIN	Test Frequency	HARTEST
01	Mobile Phone:113KHz	
02	Watch: 314KHz	

2.3. Operation of EUT during Testing

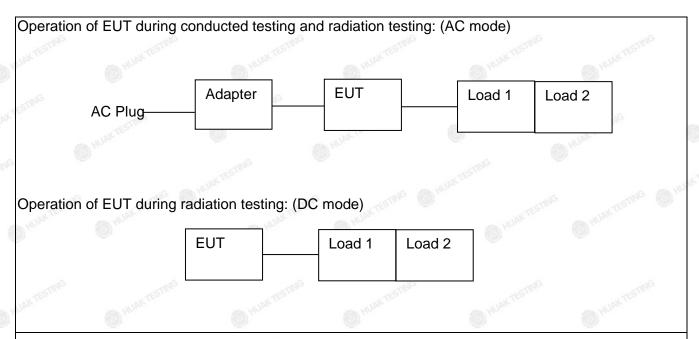
Test Item	Test mode	Description
	Mode 1	AC/DC Adapter+ EUT +Wireless load (Full Load)
Dadistad 9	Mode 2	AC/DC Adapter+ EUT +Wireless load (Half Load)
Radiated &	Mode 3	AC/DC Adapter+ EUT +Wireless load (Null Load)
Conducted test	Mode 4	EUT +Wireless load (Full Load)
cases	Mode 5	EUT +Wireless load (Half Load)
	Mode 6	EUT +Wireless load (Null Load)

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 and Mode 4.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The wireless load replaces the Mobile Phone and Watch 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%.
- 5. When wireless charging is working simultaneously, other output ports cannot work

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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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	3-in-1 Wireless Charging Power Bank	LISEN, AINOPE, VEICO	2E416	N/A	EUT
2	Load 1	YBZ	N/A	5W/7.5W/10W/15W Max	Peripheral
3	Load 2	YBZ	N/A	1.5W Max	Peripheral
STING 4	Adapter	N/A HUM	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
N TESTIN	a v Testin	9	N TESTING	ESTAVE	OK TESTING

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

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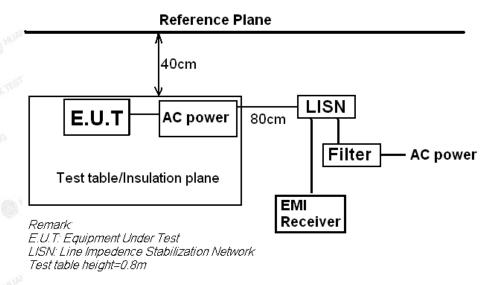
2.6. Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 17, 2023	1 Year
2.	Receiver	R&S	ESR-7	HKE-005	Feb. 17, 2023	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 17, 2023	1 Year
7.75	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 17, 2023	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 17, 2023	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 17, 2023	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 17, 2023	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 17, 2023	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 17, 2023	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 17, 2023	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 17, 2023	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 17, 2023	1 Year



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)

F	Maximum RF Line Voltage (dΒμV)					
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		

^{*} 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.

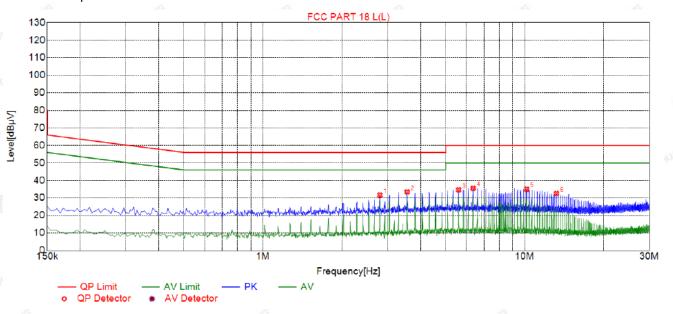
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3.4. Test Result

PASS

All the test modes completed for test. Only the worst result(AC Working Full Load) was reported as below:





	Suspected List									
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
	1	2.8005	31.65	20.21	56.00	24.35	11.44	PK	L	
	2	3.5610	33.46	20.25	56.00	22.54	13.21	PK	L	
	3	5.5995	34.63	20.25	60.00	25.37	14.38	PK	L	
ě	4	6.3600	35.55	20.22	60.00	24.45	15.33	PK	L	
	5	10.1850	35.04	20.05	60.00	24.96	14.99	PK	L	
1	6	13.2360	32.62	19.96	60.00	27.38	12.66	PK	L	

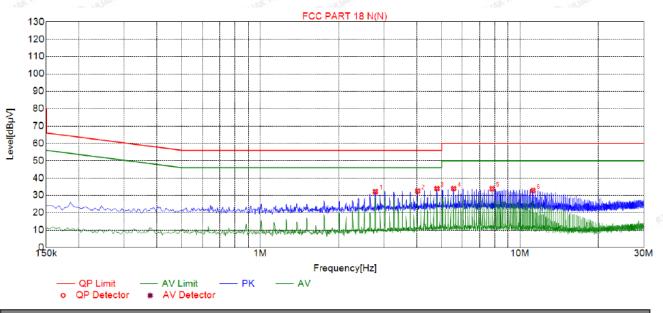
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor



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Test Specification: Neutral



Sus	Suspected List										
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре			
1	2.7780	32.22	20.21	56.00	23.78	12.01	PK	N			
2	4.0380	32.56	20.25	56.00	23.44	12.31	PK	N			
3	4.7940	33.93	20.26	56.00	22.07	13.67	PK	N			
4	5.5590	33.92	20.25	60.00	26.08	13.67	PK	N			
5	7.8225	33.82	20.16	60.00	26.18	13.66	PK	N			
6	11.2335	32.83	20.00	60.00	27.17	12.83	PK	N			

Remark: Margin = Limit - Level

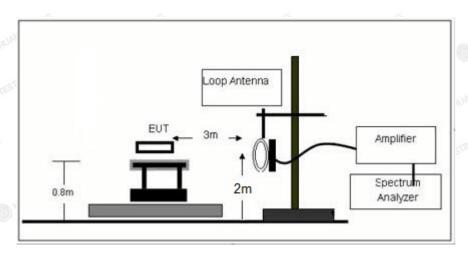
Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

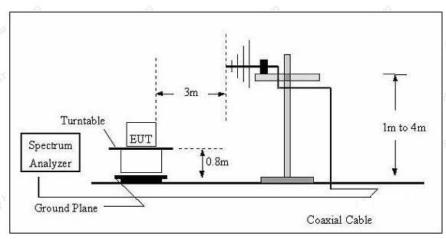
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4. Radiated Emissions

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 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.

Note:

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

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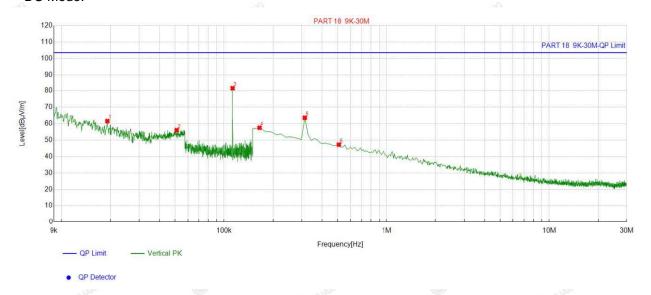
4.4. Test Result

PASS

Note: All the test modes completed for test. Only the worst result AC(DC) Working Full Load was reported as below:

For 9KHz - 30MHz

DC Mode:



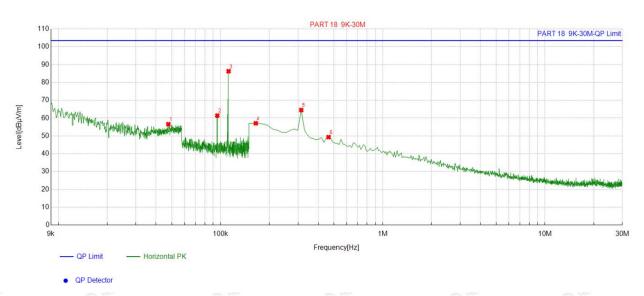
Suspected List Factor Reading Limit Freq. Level Margin NO. [MHz] [dB] [dBµV/m] $[dB\mu V/m]$ [dBµV/m] [dB] 14.72 0.019157 46.87 61.59 103.50 41.91 2 0.051251 13.92 42.10 56.02 103.50 47.48 3 0.112828 13.80 67.89 81.69 103.50 21.81 0.164932 13.73 43.79 57.52 103.50 4 45.98 5 0.314257 13.70 49.87 63.57 103.50 39.93 0.508379 13.73 33.49 47.22 103.50 56.28

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

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For 9KHz - 30MHz

AC Mode:



	Suspected List											
	NO.	Freq.	Factor	Reading	Level	Limit	Margin					
3		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]					
100	1	0.047653	14.05	42.53	56.58	103.50	46.92					
939	2	0.095476	13.97	47.45	61.42	103.50	42.08					
	3	0.112052	13.81	72.48	86.29	103.50	17.21					
ě	4	0.164932	13.73	43.37	57.10	103.50	46.40					
	5	0.314257	13.70	50.83	64.53	103.50	38.97					
1	6	0.463582	13.75	35.61	49.36	103.50	54.14					

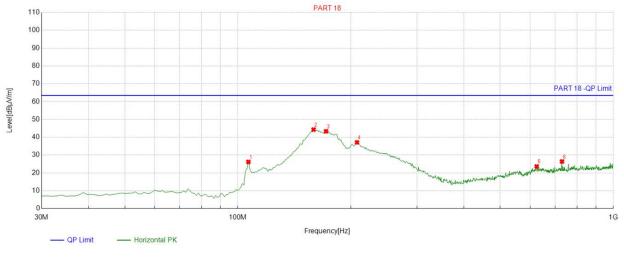
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

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For 30MHz-1GHz

DC Mode:

Antenna polarity: H



QP Detector

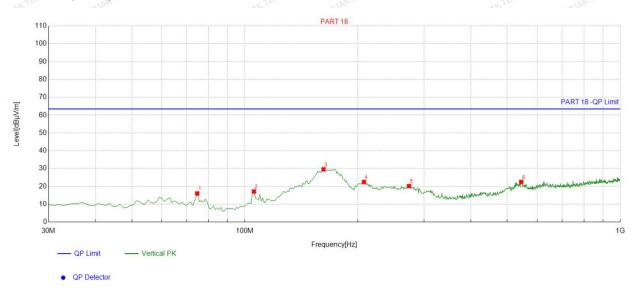
.4Gi				. 1G	-161				
Suspected List									
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	
1	106.70670	-14.75	40.94	26.19	63.50	37.31	100	157	Horizontal
2	159.13913	-17.21	61.53	44.32	63.50	19.18	100	165	Horizontal
3	171.76176	-16.91	60.27	43.36	63.50	20.14	100	196	Horizontal
4	207.68768	-14.61	51.75	37.14	63.50	26.36	100	179	Horizontal
5	625.20520	-4.37	28.00	23.63	63.50	39.87	100	110	Horizontal
6	730.07007	-3.26	29.69	26.43	63.50	37.07	100	105	Horizontal

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

AFICATION



Antenna polarity: V



Suspe	Suspected List									
1	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	74.664665	-16.60	32.69	16.09	63.50	47.41	100	170	Vertical	
2	105.73573	-14.81	31.98	17.17	63.50	46.33	100	244	Vertical	
3	162.05205	-17.28	46.89	29.61	63.50	33.89	100	82	Vertical	
4	207.68768	-14.61	37.14	22.53	63.50	40.97	100	132	Vertical	
5	273.71371	-12.55	32.76	20.21	63.50	43.29	100	359	Vertical	
6	544.61461	-6.42	28.96	22.54	63.50	40.96	100	124	Vertical	

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

AC Mode:

Antenna polarity: H



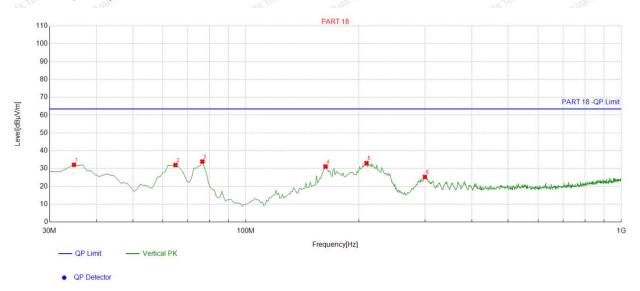
QP Detecto

	(SSSE) .			ASSES.		ASSESSOR A		ASSAULT			
;	Suspected List										
3	NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delerity	
3	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
	1	76.606607	-17.08	41.89	24.81	63.50	38.69	100	163	Horizontal	
	2	143.60360	-18.31	43.78	25.47	63.50	38.03	100	155	Horizontal	
9	3	163.99399	-17.19	46.50	29.31	63.50	34.19	100	36	Horizontal	
8	4	193.12312	-16.63	47.92	31.29	63.50	32.21	100	163	Horizontal	
	5	217.39739	-14.36	50.66	36.30	63.50	27.20	100	158	Horizontal	
	6	298.95895	-11.95	39.06	27.11	63.50	36.39	100	116	Horizontal	

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



Antenna polarity: V



Sus	Suspected List									
4		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
NO	Э.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	I	34.854855	-16.04	48.17	32.13	63.50	31.37	100	43	Vertical
. 2	2	64.954955	-14.58	46.58	32.00	63.50	31.50	100	316	Vertical
3	3	76.606607	-17.08	51.04	33.96	63.50	29.54	100	1	Vertical
4	1	163.02302	-17.19	48.34	31.15	63.50	32.35	100	167	Vertical
5	5	209.62963	-14.60	47.66	33.06	63.50	30.44	100	358	Vertical
6	3	299.92993	-11.91	37.25	25.34	63.50	38.16	100	5	Vertical

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



5. Antenna Requirement

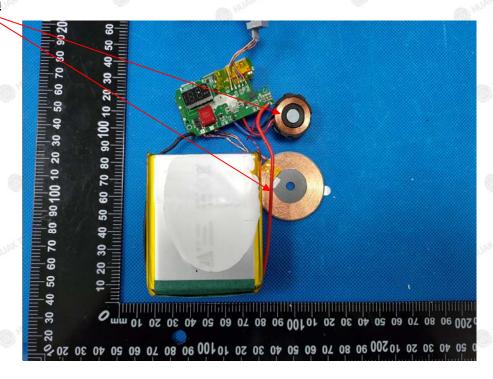
Refer to statement below for compliance.

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. The directional gains of antenna used for transmitting is 0dBi.

Antenna



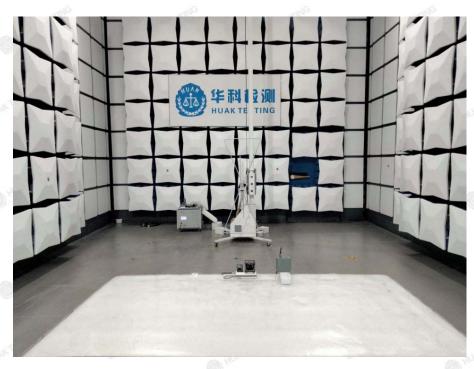
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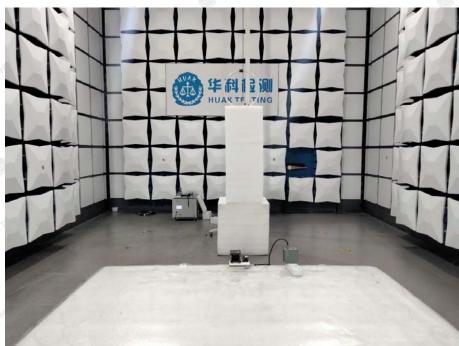


6. Photograph of Test

Radiated Emission

AC Mode:

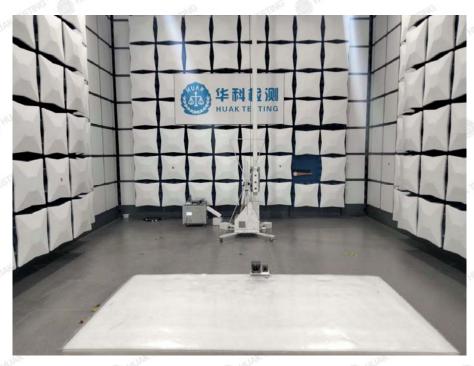


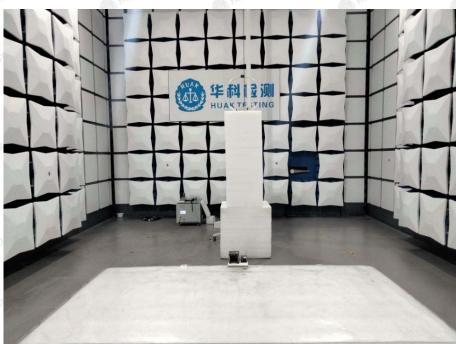


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DC Mode:







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-----