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# FCC TEST REPORT

Test report On Behalf of Shenzhen Aibaoke Electronic Technology Co.,Ltd For Wireless charger Model No.: ABK-Q900 FCC ID: 2A5GT-ABK-Q900

Prepared For :

Shenzhen Aibaoke Electronic Technology Co.,Ltd Room 404, 4th floor, Liaokeng first Industrial Area, Shiyan Street, Baoan District, 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:
 Dec. 08, 2022 ~ Dec. 15, 2022

 Date of Report:
 Dec. 15, 2022

 Report Number:
 HK2212095581-1E

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Report No.: HK2212095581-1E

## TEST RESULT CERTIFICATION

Applicant's name	Shenzhen Aibaoke Electronic Technology Co.,Ltd
Address:	Room 404, 4th floor, Liaokeng first Industrial Area, Shiyan Street, Baoan District, Shenzhen, China
Manufacture's Name:	Shenzhen Aibaoke Electronic Technology Co.,Ltd
Address:	Room 404, 4th floor, Liaokeng first Industrial Area, Shiyan Street, Baoan District, Shenzhen, China
Product description	
Trade Mark:	N/A
Product name:	Wireless charger
Model and/or type reference :	ABK-Q900
Standards	FCC CFR 47 PART 18

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Date of Test		
Date (s) of performance of tests	Dec. 08, 2022 ~ Dec. 15, 2022	
Date of Issue	Dec. 15, 2022	
Fest Result	Pass	
۲est Result:	Pass	

Testing Engineer

;an

(Gary Qian)

Technical Manager :

(Eden Hu)

Authorized Signatory :

(Jason Zhou)

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Т 691

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

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Dec. 15, 2022	Jason Zhou
UAK TEST. UAK TE	IAK TEST	TEST. UAKTEST.	UAK TES !!
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- 1. TEST SUMMARY
  - 1.1. Test Procedures And Results

DESCRIPTION OF TEST CONDUCTED EMISSIONS TEST RADIATED EMISSION TEST SECTION NUMBER 18.307 18.305 RESULT COMPLIANT 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	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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FICATION.

## 2. GENERAL INFORMATION

## 2.1. General Description of EUT

TNG TNG	-MG	TNG	NG	TNG
Equipment:	Wireless charger	5 <sup>11</sup>	NUAK TEST.	HUAKTESI
Model Name:	ABK-Q900	()		C.
Series Models:	N/A Mariana		<b>RESTING</b>	Dia
Model Difference:	N/A			
Trade Mark:	N/A N/A	STING	۲	
FCC ID:	2A5GT-ABK-Q900	ING HUAK IL	-16	ang a
Antenna Type:	Coil Antenna		HUAKTESTIN	HUAKTES
Antenna Gain:	0dBi		9.	Ð
Operation frequency:	112KHz~205KHz			
Test frequency:	120KHz	STING	AKTESTING	AK TESTING
Number of Channels:	1 0 <sup>40</sup>	0	0	O Home
Modulation Type:	ASK		<b>TESTING</b>	
Power Source:	Input: 9V-2A, 9V-2.22A Phone Output: 15W/10W/7.5W Earbuds Output: 5W	//5W	0"	AN TESTING
	Watch Output: 2W			
	Input: 9V-2A, 9V-2.22A	6	HUAKTE	D HUAR
Power Rating:	Phone Output: 15W/10W/7.5W	//5W		
r ower realing.	Earbuds Output: 5W			
	Watch Output: 2W	STIM	NAK TESTING	LAKTESTIN
Note: The transfer system	n includes two coils, 2 coils can v	ork individually	or can work a	at the same
time. All the situation(full	load, half load and empty load) h	as been tested,	only the wors	st situation

(ANT1+ANT2 full load 15W) was recorded in the report.

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## 2.2. Carrier Frequency of Channels

Operation F	requency each of channel	ALAK TESTIN	HUAK TES.	IAK TESTIN	HUAK TES
Channel	Frequency	0"		0	0
1	120KHz				

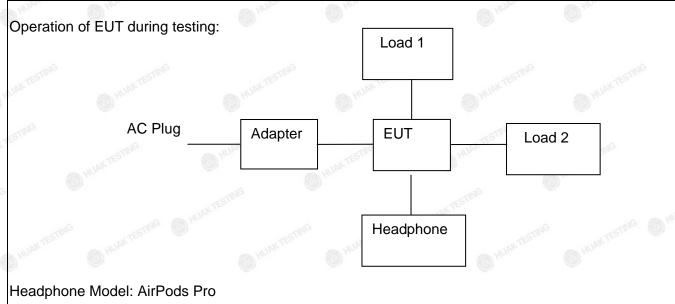
2.3. Operation of EUT during testing Operating Mode The mode is used: Transmitting mode

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## 2.4. Description of Test Setup



Adapter information Model: BD-F1 Input: AC100-240V, 50/60Hz, 1.5A USB-C Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3.25A Max USB-A Output: DC5V/2.4A

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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## **HUAK TESTING**

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#### 2.5. 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. 18, 2022	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 18, 2022	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 18, 2022	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 18, 2022	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 18, 2022	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Feb. 18, 2022	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 18, 2022	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 18, 2022	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Feb. 18, 2022	<sup>©</sup> N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 18, 2022	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 18, 2022	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 18, 2022	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year

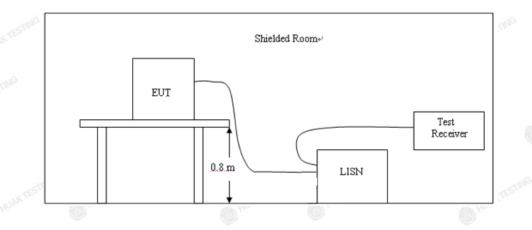
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- 3. CONDUCTED EMISSION TEST
  - 3.1. Block Diagram of Test Setup



## 3.2. Conducted Power Line Emission Limit

According to FCC Part 18.307(b)

<b>F</b>	Maximum RF Line Voltage (dBμV)						
Frequency (MHz)	CLAS	CLASS A		CLASS B			
(11112)	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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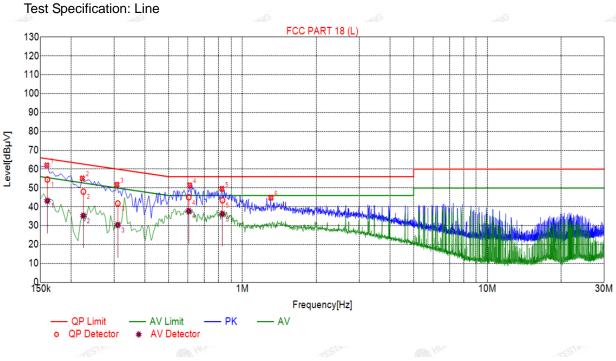
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## 3.4. Test Result

PASS

All the test modes completed for test. Only the worst result (ANT1+ANT2) was reported as below:



Sus	spected	l List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.1590	62.00	20.01	65.62	3.62	41.99	PK	L
2	0.2220	55.08	20.04	62.82	7.74	35.04	PK	L
3	0.3075	51.73	20.05	60.13	8.40	31.68	PK	L
4	0.6090	51.43	20.05	56.00	4.57	31.38	PK	L
5	0.8250	49.56	20.06	56.00	6.44	29.50	PK	L
6	1.3065	44.81	20.10	56.00	11.19	24.71	PK	L

Final Data Lis	Final	Data	Lis
----------------	-------	------	-----

Freq. Correction QP QP QP QP AV AV AV	AV Reading	
NO.         If eq. [MHz]         Confection         Value         Limit         Margin         Reading         Value         Limit         Margin           [MHz]         factor[dB]         [dBµV]         [dBµV]         [dB]         [dB]         [dBµV]         [dB]         [dB] <th>[dBµV]</th> <th>Туре</th>	[dBµV]	Туре
1 0.1598 20.00 54.55 65.47 10.92 34.55 43.19 55.47 12.28	23.19	L
2 0.2242 20.04 48.08 62.66 14.58 28.04 35.31 52.66 17.35	15.27	L
3 0.3097 20.05 41.81 59.98 18.17 21.76 30.38 49.98 19.60	10.33	L
a " a la l		NG AN
4         0.6035         20.05         45.05         56.00         10.95         25.00         37.78         46.00         8.22	17.73	L
5 0.8286 20.06 43.46 56.00 12.54 23.40 36.21 46.00 9.79	16.15	L

Remark: Margin = Limit - Level Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

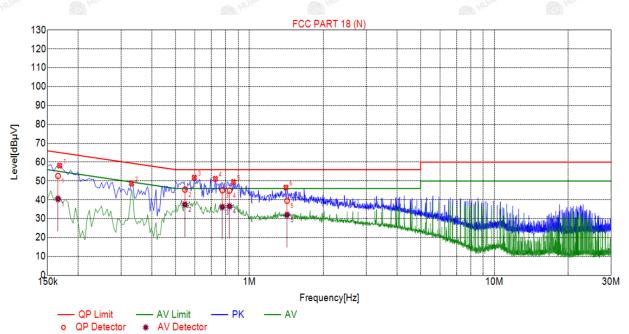
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FICATION

#### Test Specification: Neutral



Sus	Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре		
1	0.1680	58.11	20.01	65.08	6.97	38.10	PK	N		
2	0.3300	48.65	20.04	59.49	10.84	28.61	PK	N		
3	0.5955	51.81	20.05	56.00	4.19	31.76	PK	N		
4	0.7260	51.15	20.06	56.00	4.85	31.09	PK	N		
5	0.8610	49.46	20.06	56.00	6.54	29.40	PK	N		
6	1.4100	46.50	20.11	56.00	9.50	26.39	PK	N		

#### Final Data List

_ [												
2	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	0.1654	20.00	52.69	65.19	12.50	32.69	40.46	55.19	14.73	20.46	N
	2	0.5456	20.06	45.42	56.00	10.58	25.36	37.52	46.00	8.48	17.46	N
<	3	0.7754	20.05	45.06	56.00	10.94	25.01	36.23	46.00	9.77	16.18	N
_												
	4	0.8293	20.06	44.93	56.00	11.07	24.87	36.60	46.00	9.40	16.54	N
	5	1.4248	20.11	39.53	56.00	16.47	19.42	32.05	46.00	13.95	11.94	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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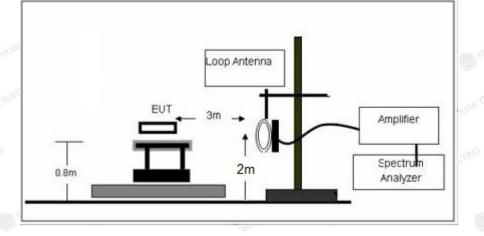
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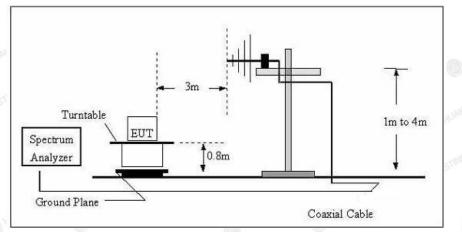


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## 4. RADIATED EMISSIONS

## 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 0.009~30MHz = 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.

### 4.4. Test Result

### PASS

Note: All the test modes completed for test. Only the worst result (ANT1+ANT2) was reported as below:

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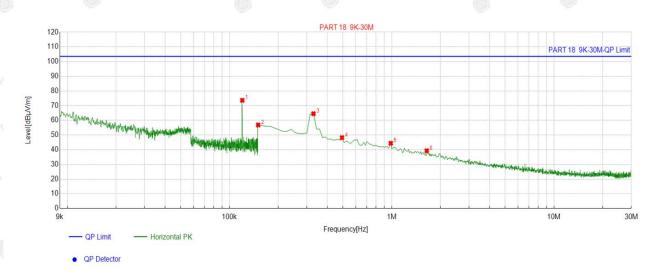
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## For 9KHz - 30MHz



# Suspected List

NO	Freq.	Factor	Reading	Level	Limit	Margin	
NO.	[MHz]	[dB]	[dBµ∨/m]	[dBµ∨/m]	[dBµ∨/m]	[dB]	
1	0.1198	13.79	59.81	73.60	103.50	29.90	
2	0.1500	13.76	43.06	56.82	103.50	46.68	
3	0.3292	13.72	50.79	64.51	103.50	38.99	
4	0.4934	13.73	34.47	48.20	103.50	55.30	
5	0.9862	14.11	30.28	44.39	103.50	59.11	
6	1.6432	14.38	24.89	39.27	103.50	64.23	

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

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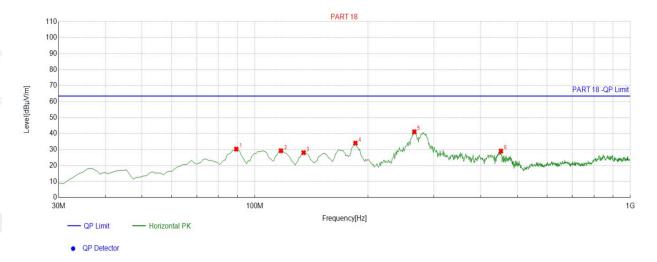


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For 30MHz-1GHz

Antenna polarity: H



Susp	uspected List									
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity	
NO.	[MHz]	[dB]	[dBµ∀/m]	[dBµ∨/m]	[dBµ∀/m]	[dB]	[cm]	[°]	Forality	
1	89.2292	-17.44	47.74	30.30	63.50	33.20	100	192	Horizontal	
2	117.3874	-15.19	44.43	29.24	63.50	34.26	100	174	Horizontal	
3	134.8649	-17.58	45.66	28.08	63.50	35.42	100	345	Horizontal	
4	185.3554	-16.83	50.85	34.02	63.50	29.48	100	128	Horizontal	
5	265.9459	-12.71	53.80	41.09	63.50	22.41	100	179	Horizontal	
6	452.3724	-8.26	37.31	29.05	63.50	34.45	100	163	Horizontal	

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

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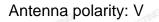


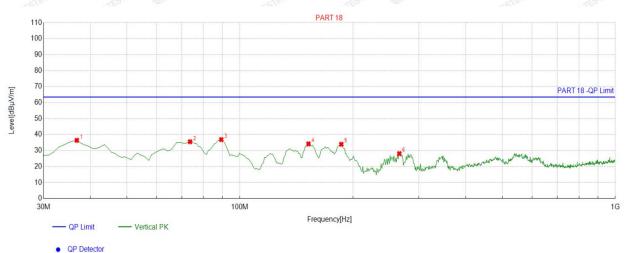
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Suspected List										
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delerity	
NO.	[MHz]	[dB]	[dBµ∨/m]	[dBµ∨/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	36.7968	-15.71	52.13	36.42	63.50	27.08	100	33	Vertical	
2	73.6937	-16.44	51.96	35.52	63.50	27.98	100	70	Vertical	
3	89.2292	-17.44	54.30	36.86	63.50	26.64	100	30	Vertical	
4	152.3423	-18.68	52.86	34.18	63.50	29.32	100	184	Vertical	
5	186.3263	-16.93	50.86	33.93	63.50	29.57	100	168	Vertical	
6	265.9459	-12.71	40.82	28.11	63.50	35.39	100	203	Vertical	

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

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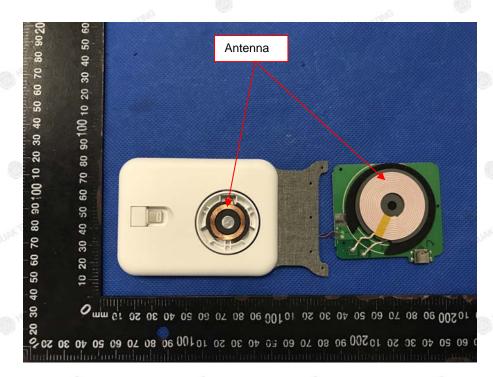
## 5. ANTENNA REQUIREMENT

#### 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 a Coil Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.



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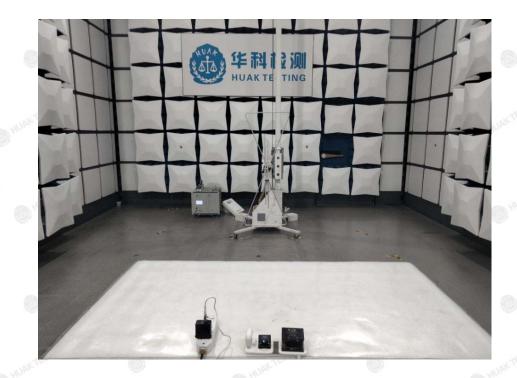


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## 6. PHOTOGRAPH OF TEST

## Radiated 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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