

FCC Test Report

Test Report
On Behalf of
Adam Elements International Co., LTD.
For
Magnetic Wireless Charging Power Bank
Model No.: GRAVITY C5

FCC ID: 2ABY9GRAVITY-C5

Prepared For: Adam Elements International Co., LTD.

8F.-5, No. 148, Sec.4, Zhongxiao E. Rd., Da'an Dist., Taipei City, 106, Taiwan

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: Sept. 01, 2023 ~ Sept. 11, 2023

Date of Report: Sept. 11, 2023

Report Number: HK2309044076-1E

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Test Result Certification

Applicant's Name.....: Adam Elements International Co., LTD.

8F.-5, No. 148, Sec.4, Zhongxiao E. Rd., Da'an Dist., Taipei City,

106, Taiwan

Manufacture's Name.....: GUANGDONG YICHENG TECHNOLOGY CO.,LTD.

11F Liangan Building,33 Huaiya Rd,Humen Town,Dongguan

City,523900,Guangdong,China

Product Description

Trade Mark...... a ADAM

Product Name...... Magnetic Wireless Charging Power Bank

Model and/or Type Reference: GRAVITY C5

Standards: FCC CFR 47 PART 18

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Date of Test

Date (s) of Performance of Tests Sept. 01, 2023 ~ Sept. 11, 2023

Date of Issue Sept. 11, 2023

Test Result...... Pass

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)

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** Modified History **

Revision			Description		Issue	d Data	Remar	k
Revision	on 1.0	Initial	Test Report Re	lease	Sept. 1	1, 2023	Jason Zh	nou
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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:	Magnetic Wireless Charging Power Bank
Model Name:	GRAVITY C5
Series Models:	N/A
Model Difference:	N/A MKTESTING
Trade Mark:	& ADAM WINTED
FCC ID:	2ABY9GRAVITY-C5
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation Frequency:	112KHz~205KHz
Test Frequency:	125KHz
Number of Channels:	1 0 HOLE 0 HOLE 0 HOLE
Modulation Type:	ASK
Power Source:	USB-C Input: DC 5V/3A, 9V/2.2A, 12V/1.67A USB-C Output: DC 5V/3A, 9V/2.2A, 12V/1.67A Wireless Output: 5W/7.5W/10W/15W Wireless+USB-C: 5V/3A(15W Max) Battery Capacity: 5000mAh/3.85V, 19.25Wh
Power Rating:	USB-C Input: DC 5V/3A, 9V/2.2A, 12V/1.67A USB-C Output: DC 5V/3A, 9V/2.2A, 12V/1.67A Wireless Output: 5W/7.5W/10W/15W Wireless+USB-C: 5V/3A(15W Max) Battery Capacity: 5000mAh/3.85V, 19.25Wh

AFICATION.

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2.2. Carrier Frequency of Channels

Operation F	requency each of channel	HUAKTE	WAY TES !!	HUAKTES
Channel	Frequency		0	
Middle CH	125KHz			

2.3. Operation of EUT during Testing

Test Item	Test mode	Description
O HO	Mode 1	AC/DC Adapter+ EUT + Load (Full Load)
Radiated &	Mode 2	AC/DC Adapter+ EUT + Load (Half Load)
Conducted test	Mode 3	AC/DC Adapter+ EUT + Load (Null Load)
cases	Mode 4	EUT + Mobile Phone (Full Load)
	Mode 5	EUT + Mobile Phone (Half Load)
0	Mode 6	EUT + Mobile Phone (Null Load)

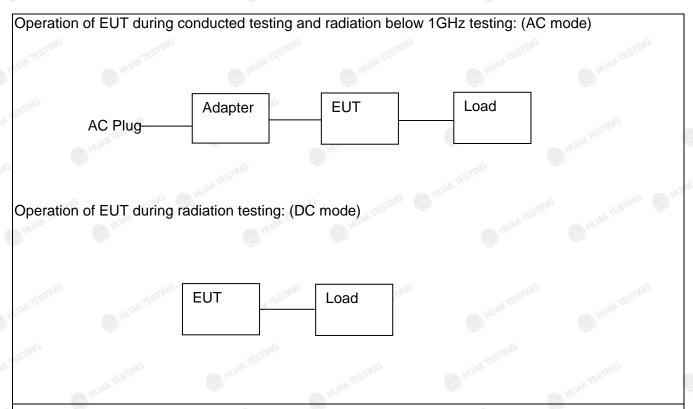
Note:

- 1. All modes and configurations above have been tested.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The wireless load replaces the Mobile Phone 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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	Magnetic Wireless Charging Power Bank	ē adam	GRAVITY C5	N/A N/A	EUT
2	USB Cable	N/A	N/A	Length: 25cm	Accessory
HUANTESTI	O HUAN TESTI	6 N	AKTESTING HUAKTE	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:	MANAY TESTING
3	Adapter	N/A HIMA	CD289	DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX USB-A Output: DC5V/4.5A, 4.5V/5A,	Peripheral
MHUAK TE	TIME HUNK-TESTING	(C)	HAKTESTING HUAKTEST	5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	HUAKTESTING ()
4	Load	YBZ	N/A	5W Max	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

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2.6. Measurement Instruments List

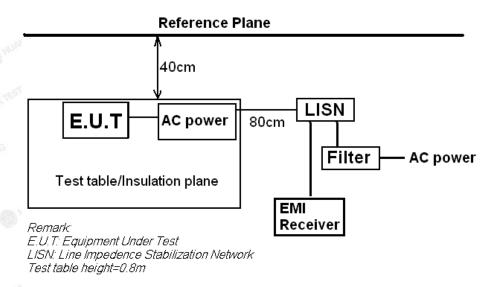
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 17, 2023	1 Year
2.	Receiver	R&S	ESR-7	HKE-005	Feb. 17, 2023	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	1 Year
4.	Spectrum analyzer	R&S	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.	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

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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)

	- 1/4	(8239)	- 10	C.	S229				
	F	Maximum RF Line Voltage (dBμV)							
	Frequency (MHz)	CLAS	SS A	CLASS B					
	(11112)	Q.P.	Ave.	Q.P.	Ave.				
	0.15 - 0.50	79	66	66-56*	56-46*				
Ý	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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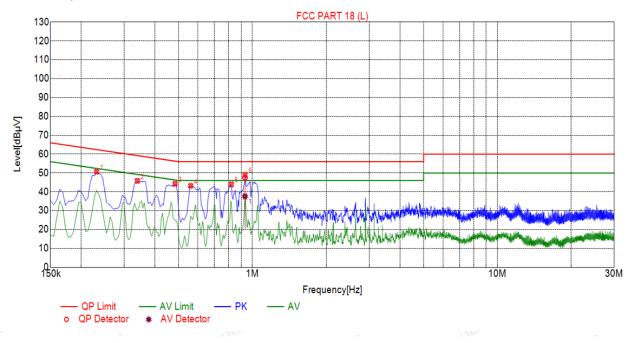


3.4. Test Result

PASS

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

Test Specification: Line



Sus	Suspected List										
NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре			
1	0.2310	50.63	20.03	62.41	11.78	30.60	PK	L			
2	0.3390	45.81	20.03	59.23	13.42	25.78	PK	L			
3	0.4830	44.25	20.04	56.29	12.04	24.21	PK	L			
4	0.5595	43.20	20.06	56.00	12.80	23.14	PK	L			
5	0.8205	43.95	20.06	56.00	12.05	23.89	PK	L			
6	0.9330	49.07	20.06	56.00	6.93	29.01	PK	L			

Final	Final Data List										
NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	QP Reading [dBµV]	AV Value [dBµV]	AV Limit [dBμV]	AV Margin [dB]	AV Reading [dBμV]	Туре
1	0.9323	20.06	47.58	56.00	8.42	27.52	37.63	46.00	8.37	17.57	L

Remark: Margin = Limit – Level

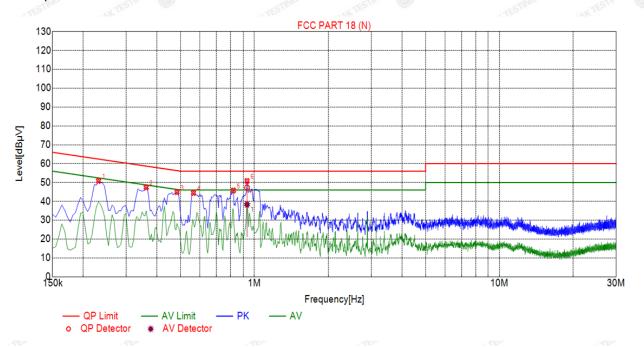
Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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TO

Test Specification: Neutral



Sus	Suspected List										
NO.	Freq. [MHz]	Level [dBµ√]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре			
1	0.2310	50.85	20.03	62.41	11.56	30.82	PK	N			
2	0.3615	47.42	20.04	58.69	11.27	27.38	PK	N			
3	0.4830	44.90	20.04	56.29	11.39	24.86	PK	N			
4	0.5640	44.48	20.06	56.00	11.52	24.42	PK	N			
5	0.8205	45.77	20.06	56.00	10.23	25.71	PK	N			
6	0.9330	50.81	20.06	56.00	5.19	30.75	PK	N			

Final Data List												
NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	QP Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	AV Reading [dBμV]	Туре	
1	0.9330	20.06	47.28	56.00	8.72	27.22	38.33	46.00	7.67	18.27	N	

Remark: Margin = Limit - Level

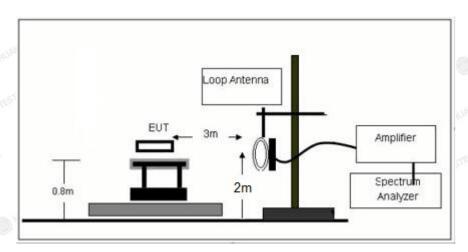
Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

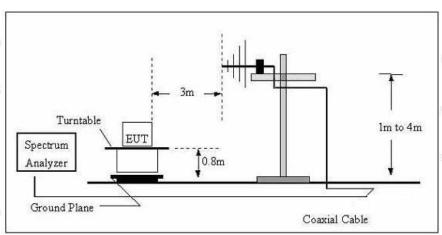
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4. Radiated Emissions

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 $0.009\sim30$ 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.

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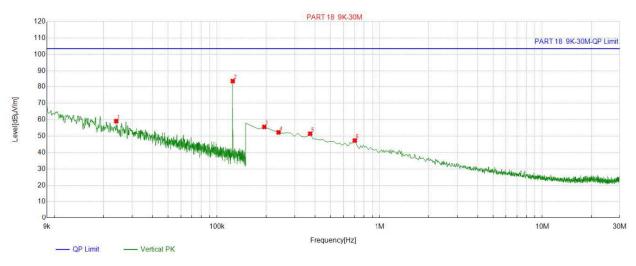
4.4. Test Result

PASS

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

For 9KHz - 30MHz

DC Mode:



QP Detecto

Suspe	ected List					
NO	Freq.	Factor	Reading	Level	Limit	Margin
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
1	0.023953	14.63	44.50	59.13	103.50	44.37
2	0.124748	13.78	69.68	83.46	103.50	20.04
3	0.194797	13.67	41.90	55.57	103.50	47.93
4	0.239595	13.68	38.60	52.28	103.50	51.22
5	0.373987	13.76	37.68	51.44	103.50	52.06
6	0.702501	13.81	33.51	47.32	103.50	56.18

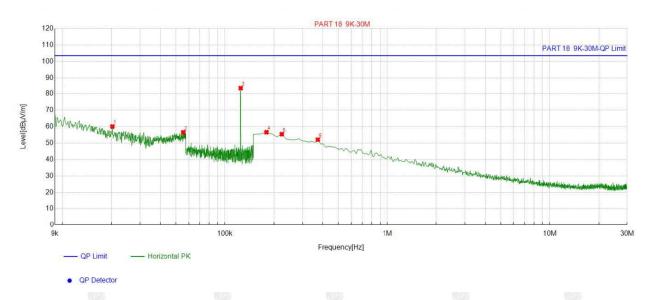
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

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For 9KHz - 30MHz

AC Mode:



Suspected List											
NO	Freq.	Factor	Reading	Level	Limit	Margin					
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]					
1	0.020286	14.55	45.53	60.08	103.50	43.42					
2	0.055483	13.94	42.59	56.53	103.50	46.97					
3	0.125031	13.79	69.67	83.46	103.50	20.04					
4	0.179865	13.70	42.92	56.62	103.50	46.88					
5	0.224662	13.66	41.77	55.43	103.50	48.07					
6	0.373987	13.76	38.31	52.07	103.50	51.43					

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

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For 30MHz-1GHz

Antenna polarity: H



Suspected List

Freq. Factor Reading Level Limit Margin

	NO.	Freq. Factor		Reading	Level	Limit	Margin	Height	Angle	Polarity	
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polatity	
(1	41.651652	-15.27	31.62	16.35	63.50	47.15	100	359	Horizontal	
	2	149.42942	-18.78	45.90	27.12	63.50	36.38	100	11	Horizontal	
	3	183.41341	-16.65	49.96	33.31	63.50	30.19	100	360	Horizontal	
	4	201.86186	-14.99	47.47	32.48	63.50	31.02	100	341	Horizontal	
	5	217.39739	-14.36	45.59	31.23	63.50	32.27	100	11	Horizontal	
	6	202 04204	44.02	24.00	22.00	62.50	40.62	100	257	Horizontal	

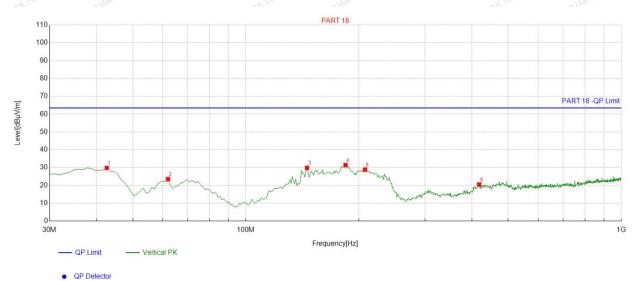
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level



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Antenna polarity: V



	Suspe	Suspected List										
	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity		
Y	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Folarity		
	1	42.622623	-15.19	44.99	29.80	63.50	33.70	100	294	Vertical		
	2	62.042042	-14.19	37.73	23.54	63.50	39.96	100	132	Vertical		
`	3	145.54554	-18.47	48.35	29.88	63.50	33.62	100	107	Vertical		
	4	184.38438	-16.67	48.06	31.39	63.50	32.11	100	198	Vertical		
	5	207.68768	-14.61	43.49	28.88	63.50	34.62	100	8	Vertical		
3	6	418.38838	-8.81	29.34	20.53	63.50	42.97	100	115	Vertical		

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

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5. Antenna Requirement

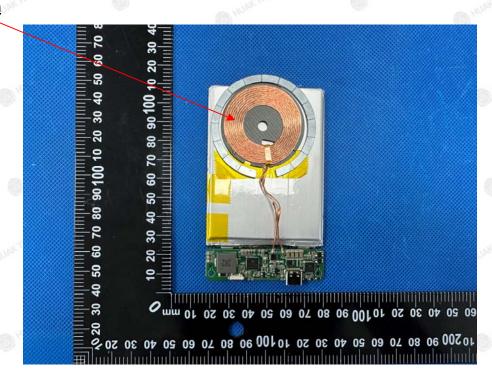
Refer to statement below for compliance.

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.

Antenna



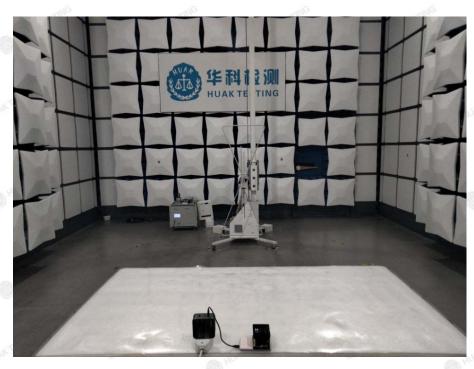
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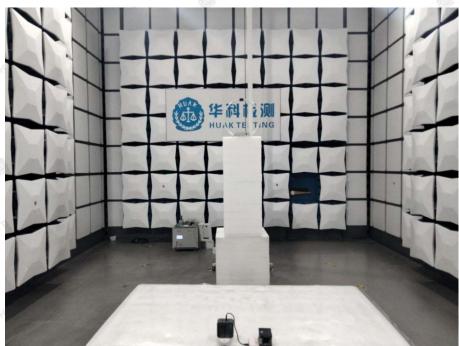


6. Photograph of Test

Radiated Emission

AC Mode:

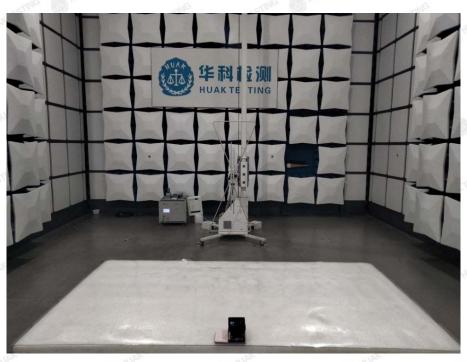


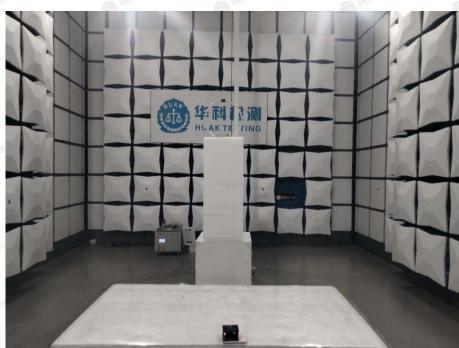


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DC Mode:

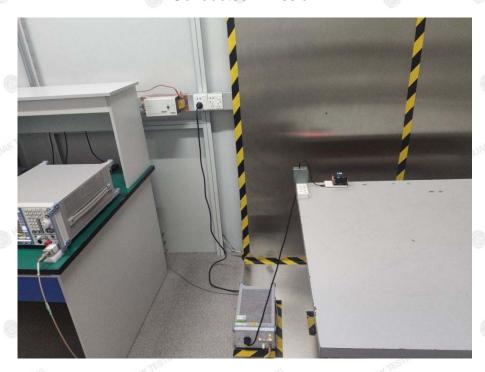




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Conducted Emission



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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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