

FCC Test Report

Test Report
On Behalf of
Alogic Corporation Pty Ltd
For

Matrix Ultimate Fold 3-in-1 Stand with Power Bank
Model No.: MFPB5KM, MFPB5KM-AU, MFPB5KQ-AU,
MFPB5KM-UK, MFPB5KQ-UK, MFPB5KM-EU, MFPB5KQ-EU,
MUPB5KM, MUPB5KQ, MUAWC, MFPB5KM-G

FCC ID: 2ATCA-MFPB5KM

Prepared For: Alogic Corporation Pty Ltd

Level 40, 140 William Street, Melbourne VIC 3000, Australia

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. 13, 2023 ~ Dec. 22, 2023

Date of Report: Dec. 22, 2023

Report Number: HK2312136073-1E



Test Result Certification

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Addross	· Lovol 40	-140 William Stroot	Molhourno VIC 3000	Auctro

Manufacture's Name.....: Alogic Corporation Pty Ltd

Applicant's Name.....: Alogic Corporation Pty Ltd

Address.....: Level 40, 140 William Street, Melbourne VIC 3000, Australia

Product Description

Trade Mark: N/A

MFPB5KM, MFPB5KM-AU, MFPB5KQ-AU, MFPB5KM-UK,

Report No.: HK2312136073-1E

Model and/or Type Reference: MFPB5KQ-UK, MFPB5KM-EU, MFPB5KQ-EU, MUPB5KM,

MUPB5KQ, MUAWC, MFPB5KM-G

Standards: FCC CFR 47 PART 18

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Date of Test:

Date (s) of Performance of Tests Dec. 13, 2023 ~ Dec. 22, 2023

Date of Issue Dec. 22, 2023

Test Result..... Pass

Testing Engineer :

(Len Liao)

Technical Manager : Siver Wan

(Sliver Wan)

Authorized Signatory: Jasim 24

(Jason Zhou)



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** Modified History **

Revi	ision		Description		Issued Data		Remark	
Revision 1.0		Initial Test Report Release			Dec. 22, 2023		Jason Zho	u
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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:	Matrix Ultimate Fold 3-in-1 Stand with Power Bank
Model Name:	MFPB5KM
Series Models:	MFPB5KM-AU, MFPB5KQ-AU, MFPB5KM-UK, MFPB5KQ-UK,
	MFPB5KM-EU, MFPB5KQ-EU, MUPB5KM, MUPB5KQ, MUAWC,
	MFPB5KM-G
Model Difference:	All model's the function, software and electric circuit are the same, only
	with model named different. Test sample model: MFPB5KM.
Trade Mark:	N/A
FCC ID:	2ATCA-MFPB5KM
Antenna Type:	Coil Antenna
Antenna Gain:	OdBi ms
Operation Frequency:	112KHz~205KHz
Test Frequency:	131KHz
Modulation Type:	ASK THE THE THE
	Input: 12V 2.0A
Power Source:	Output: DC 5V 1.75A
	Wireless Output: 5W Max
	Input: 12V 2.0A
Power Rating:	Output: DC 5V 1.75A
	Wireless Output: 5W Max

FICATION

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2.2. Carrier Frequency of Channels

-61	450		7000 CUIV	460
Operation F	requency each of channel	HUAK TES	HUAK TES	HUAK
Channel	Frequency		9	
01	131KHz			

2.3. Operation of EUT during Testing

Operating Mode

The mode is used: Transmitting mode

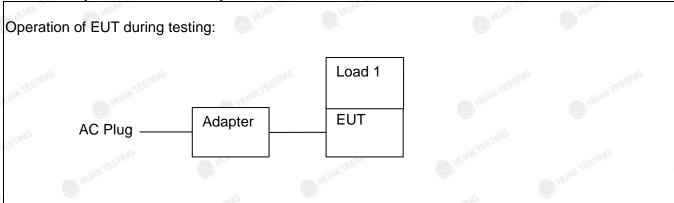
2.4. Test Mode

STATE TESTALE OF	EUT Mode	Description
MUNKITY MILAN	MUNCTLE MUAN	Full Load
Working	ANT 1	Half Load
.0		No Load

Note: All modes have been tested, and the report only reflects the worst case data.

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2.5. 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.

IE.



2.6. 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

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1 TESTING	Matrix Ultimate Fold 3-in-1 Stand with Power Bank	N/A	MFPB5KM	N/A	EUT
2	Adapter	N/A	WCG1X30WH-US	15V/2A, 20V/1.5A(30W PD) PPS: 3.3~11V/2.7A MAX	Accessory
5	Load 1	YBZ	N/A	Total Output: 30W 5W Max	Peripheral
STIN	STIVE	_0	TING CALL	- CTII-ST	STING

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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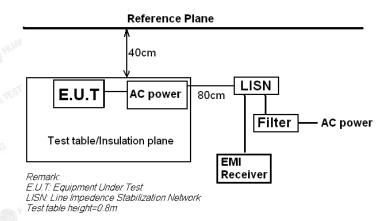
2.7. Measurement Instruments List

	Measurement misi	Marie Title					
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 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	eck 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	rn Antenna Schwarzbeck 9120D		HKE-013	Feb. 17, 2023	1 Year	
11.	Pre-amplifier	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	m 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)

Eraguanay	M	aximum RF L	ine Voltage (d	BμV)	
Frequency (MHz)	CLAS	SS 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

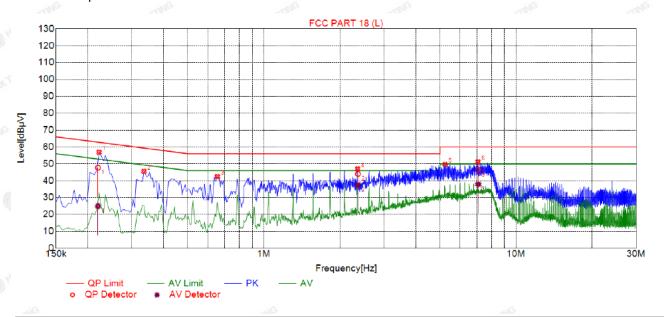
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3.4. Test Result

PASS

All the test modes completed for test. Only the worst result (full load 5W) was reported as below:

Test Specification: Line



	Suspected List												
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре				
	1	0.2220	56.87	20.04	62.74	5.87	36.83	PK	L				
	2	0.3345	45.53	20.04	59.34	13.81	25.49	PK	L				
	3	0.6540	42.43	20.05	56.00	13.57	22.38	PK	L				
į.	4	2.3550	46.95	20.18	56.00	9.05	26.77	PK	L				
	5	5.2350	49.64	20.26	60.00	10.36	29.38	PK	L				
	6	7.0665	51.17	20.19	60.00	8.83	30.98	PK	L				

3	Final Data List											
	NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	AV Reading [dBµV]	Туре
	1	0.2198	20.05	47.72	62.83	15.11	27.67	24.93	52.83	27.90	4.88	L
	2	2.3617	20.18	44.03	56.00	11.97	23.85	37.37	46.00	8.63	17.19	L
	3	7.0853	20.19	46.42	60.00	13.58	26.23	37.90	50.00	12.10	17.71	L

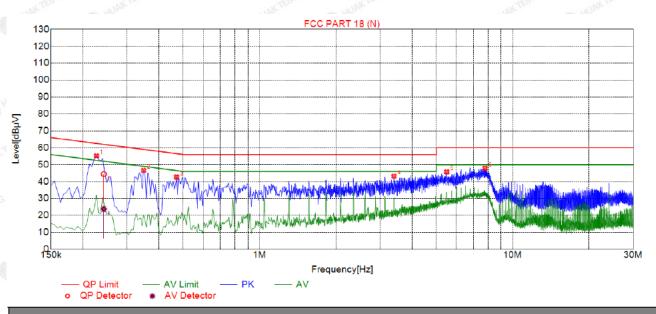
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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Test Specification: Neutral



Suspected List Reading Freq. Level Factor Limit Margin NO. Detector Type [dBµV] [MHz] [dBµV] [dB] [dBµV] [dB] 0.2265 55.21 20.03 62.58 7.37 35.18 PΚ Ν 2 0.3480 46.56 20.03 59.01 12.45 26.53 PK Ν 3 0.4695 42.70 20.04 56.52 13.82 22.66 PK 4 3.3990 20.24 56.00 12.80 22.96 PΚ 43.20 N PΚ 5 5.4915 45.73 20.26 60.00 14.27 25.47 N 7.7775 47.86 20.16 PΚ 60.00 12.14 27.70 N

Fi	nal	Data List										
N	O.	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		0.2423	20.03	44.46	62.02	17.56	24.43	23.77	52.02	28.25	3.74	N

Remark: Margin = Limit - Level

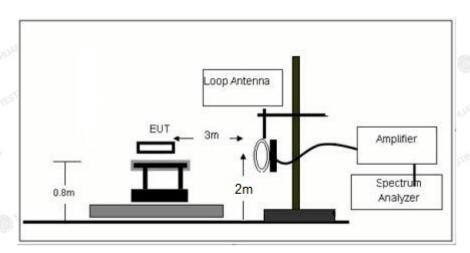
Correction factor = Cable lose + LISN insertion loss

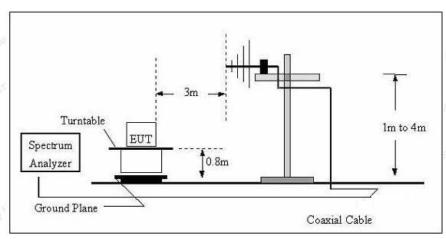
Level=Test receiver reading + correction factor



4. Radiated Emissions

4.1. Block Diagram of Test Setup







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:

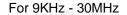
For battery operated equipment, the equipment tests shall be performed using a new battery.

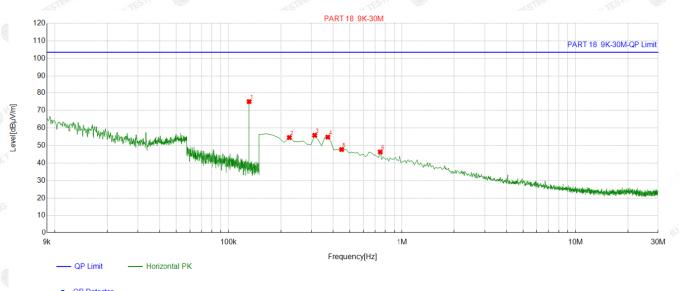
4.4. Test Result

PASS

Note: All the test modes completed for test. Only the worst result (full load 5W) was reported as below:

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	Suspe	Suspected List										
	NO.	Freq.	Factor	Reading	Level	Limit	Margin [dB]					
3		[MHz]	[dB]	[dBµ√/m]	[dBµ√/m]	[dBµ√/m]						
	1	0.131167	13.78	61.33	75.11	103.50	28.39					
	2	0.224662	13.66	40.93	54.59	103.50	48.91					
	3	0.314257	13.70	42.15	55.85	103.50	47.65					
	4	0.373987	13.76	41.05	54.81	103.50	48.69					
	5	0.448649	13.76	33.98	47.74	103.50	55.76					
	6	0.747299	13 92	32.43	46.35	103.50	57 15					

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

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For 30MHz-1GHz

Antenna polarity: H



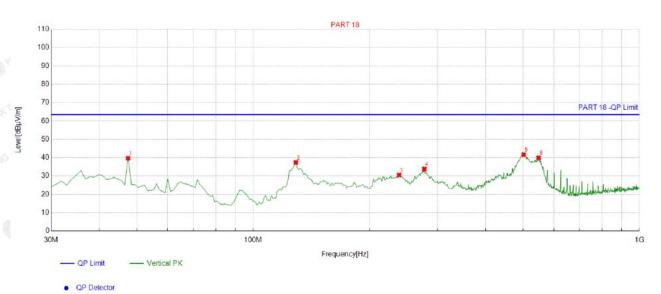
Suspected List										
	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
3		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Folanty
	1	128.06806	-16.53	51.86	35.33	63.50	28.17	100	201	Horizontal
	2	170.79079	-17.04	53.98	36.94	63.50	26.56	100	191	Horizontal
8	3	204.77477	-14.64	44.36	29.72	63.50	33.78	100	33	Horizontal
	4	276.62662	-12.55	44.92	32.37	63.50	31.13	100	150	Horizontal
	5	397.02702	-9.66	41.47	31.81	63.50	31.69	100	339	Horizontal
	6	496.06606	-7.20	42.60	35.40	63.50	28.10	100	336	Horizontal

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

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Antenna polarity: V



	Suspe	Suspected List									
3	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity	
3	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Folding	
	1	47.477477	-14.95	54.63	39.68	63.50	23.82	100	270	Vertical	
	2	129.03903	-16.76	54.12	37.36	63.50	26.14	100	163	Vertical	
	3	238.75875	-13.34	43.84	30.50	63.50	33.00	100	14	Vertical	
	4	277.59759	-12.57	46.37	33.80	63.50	29.70	100	169	Vertical	
	5	501.89189	-7.09	48.71	41.62	63.50	21.88	100	166	Vertical	
	6	548.49849	-6.18	46.10	39.92	63.50	23.58	100	63	Vertical	

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





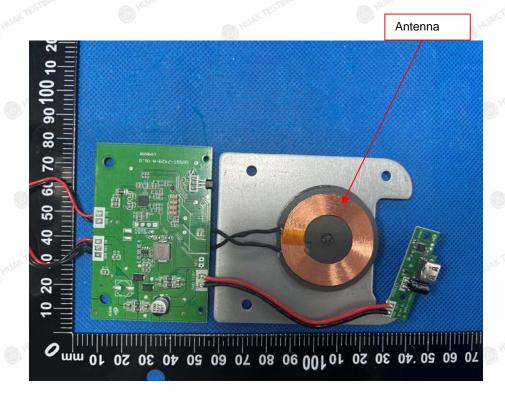
5. Antenna Requirement

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.

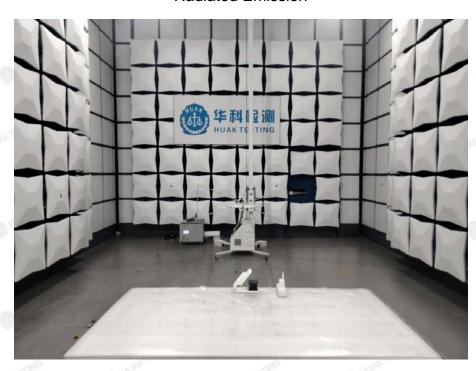


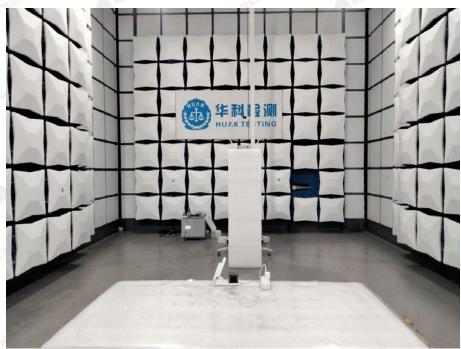
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6. Photographs of Test

Radiated Emission





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STING

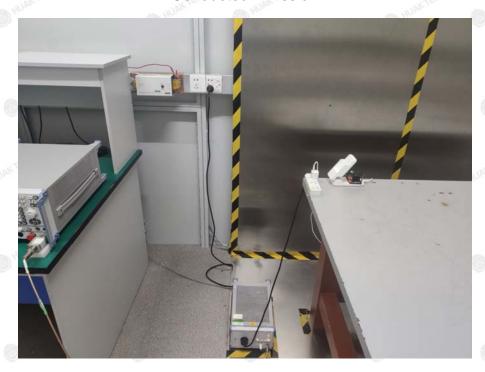




JAK TES!

Report No.: HK2312136073-1E

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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