

# **FCC TEST REPORT**

Test report On Behalf of

Shenzhen DXR Electronic Technology Co., Limited (Dongguan Branch)

For

3-in-1 Wireless Charging Station Model No.: MI-QIS08, MIC-QIS08, MIQIS07

**FCC ID: 2A22V-QIS08** 

Prepared For: Shenzhen DXR Electronic Technology Co., Limited (Dongguan Branch)

4th Floor, #5 Building, #189, Yongji Industrial, Zhuweitian, Fenggang Town,

Dongguan, 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: May. 29, 2022 ~ Jun. 06, 2022

Date of Report: Jun. 06, 2022

Report Number: HK2203221092-1E

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#### TEST RESULT CERTIFICATION

Annlicant's name :	Shenzhen	DXR	Electronic	Technology	Co.,	Limited	(Dongguan
Applicant's name:	Branch)						

Address . 4th Floor, #5 Building, #189, Yongji Industrial, Zhuweitian,

Address.....Fenggang Town, Dongguan, China

Manufacture's Name......: Shenzhen DXR Electronic Technology Co., Limited (Dongguan

Branch)

Address...... 4th Floor, #5 Building, #189, Yongji Industrial, Zhuweitian,

Fenggang Town, Dongguan, China

**Product description** 

Trade Mark: MERKURY

Product name.....: 3-in-1 Wireless Charging Station Model and/or type reference : MI-QIS08, MIC-QIS08, MIQIS07

**Standards** .....: FCC CFR 47 PART 18

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Date of Test .....

Date of Issue...... Jun. 06, 2022

Test Result..... Pass

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	Jun. 06, 2022	Jason Zhou
LIANTES!	LAX TEST	ES!	LAKTES
	9 m		(D) W

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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 Station	HUAKTESTI	HUAKTESTIN
Model Name:	MI-QIS08	<b>.</b>	
Series Models:	MIC-QIS08, MIQIS07	OK TESTING	26
Model Difference:	All model's the function, software and model named different. Test sample m		the same, only
Trade Mark:	MERKURY	UAKTES	
FCC ID:	2A22V-QIS08	OK TESTING	, LAK TESTING
Antenna Type:	Coil Antenna	O HOW	(a)
Antenna Gain:	0dBi		
Operation frequency:	111.5KHz~205KHz	TESTING	TESTING
Test frequency:	115KHz	HUAR	HUAR
Number of Channels:	1	TNG	
Modulation Type:	ASK	HUAK TES	ESTING
Power Source:	Input: DC 9V 2A Wireless Charger Output #1 (Phone): 9 Wireless Charger Output #2 (Arpods): Wireless Charger Output #3 (Apple Water) Wireless Charger Output Total: 18W	5W	HUAN TESTING
Power Rating:	Input: DC 9V 2A Wireless Charger Output #1 (Phone): 9 Wireless Charger Output #2 (Arpods): Wireless Charger Output #3 (Apple Water) Wireless Charger Output Total: 18W	5W	WHAN TESTINE

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2.2. Carrier Frequency of Channels

Operation I	Frequency each of channel	LAK TESTING	- MAKTESTI	AK TESTINE	- WAKTESTI
Channel	Frequency	0 m	(iii)	0	
1	115KHz				

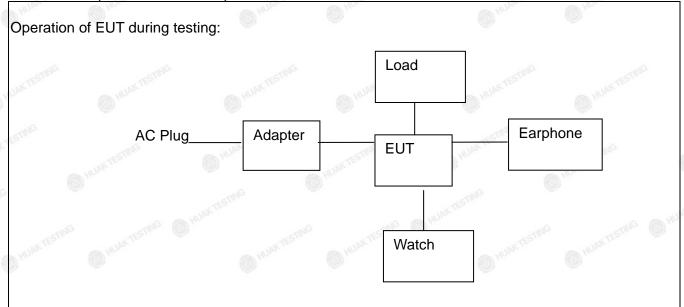
# 2.3. Operation of EUT during testing Operating Mode The mode is used: Transmitting mode

#### 2.4. Test Mode

THUAK TES	EUT Mode	Description		
(iii)		Cell load setting 10W		
	ANT 1	Cell load setting 7.5W		
		Cell load setting 5W		
TES	ANT 2	Cell Airpods setting 5W		
HUAR.	ANT 3	Cell Watch setting 2W Cell load setting 10W + Cell Airpods setting 5W		
9	ANT 1+ANT 2			
HUAK TESTING	ANT 1+ANT 3	Cell load setting 10W + Cell Watch setting 2W		
	ANT 2+ANT 3	Cell Airpods setting 5W + Cell Watch setting 2W		
NG WHATTESTIN	ANT1+ANT2+ANT3	Cell load setting 10W + Cell Airpods setting 5W + Cell Watch setting 2W		

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#### 2.5. Description of Test Setup



Watch information Model: Watch Input: DC 5V

Earphone information

Model: Airpods Input: DC 5V

Adapter information Model:UP0920

Input: AC100-240V, 50-60Hz, 0.5A Output: 5VDC 2A, 9VDC 2A

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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2.6. Measurement Instruments List

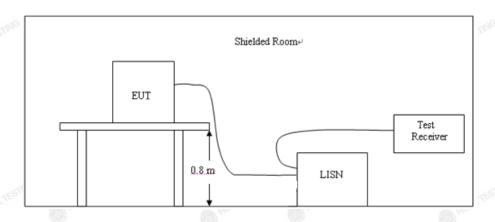
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
L.I.S.N.  1. Artificial Mains Network		R&S	ENV216	HKE-002	Feb. 18, 2022	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	1 Year
4.	Spectrum analyzer	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	N/A	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. 17, 2020	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)

F	M	Maximum RF Line Voltage (dBμV)					
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

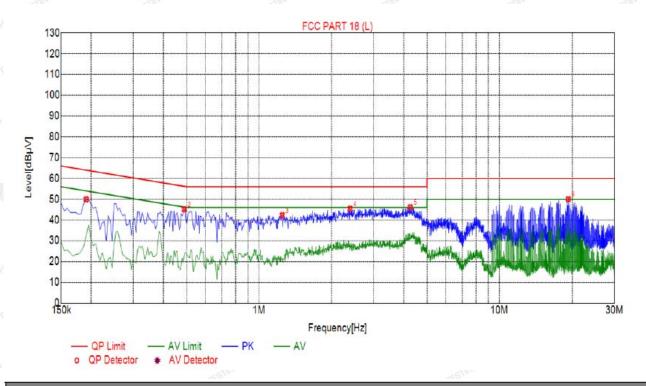
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3.4. Test Result

#### **PASS**

All the test modes completed for test. Only the worst result (ANT1+ANT2+ANT3) was reported as below:

Test Specification: Line



Sus	Suspected List										
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре			
1	0.1905	49.93	20.04	64.01	14.08	29.89	PK	L			
2	0.4875	45.11	20.04	56.21	11.10	25.07	PK	L			
3	1.2480	42.28	20.09	56.00	13.72	22.19	PK	L			
4	2.3955	45.41	20.18	56.00	10.59	25.23	PK	L			
5	4.2585	46.19	20.25	56.00	9.81	25.94	PK	L			
6	19.2660	50.01	20.07	60.00	9.99	29.94	PK	L			

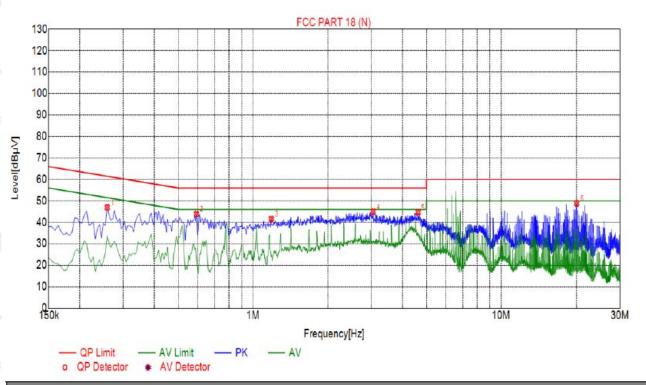
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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Test Specification: Neutral



	Suspected List									
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
	1	0.2580	46.94	20.04	61.50	14.56	26.90	PK	N	
	2	0.5910	43.86	20.05	56.00	12.14	23.81	PK	N	
ž	3	1.1850	41.61	20.09	56.00	14.39	21.52	PK	N	
	4	3.0525	44.97	20.22	56.00	11.03	24.75	PK	N	
۲	5	4.6275	44.66	20.26	56.00	11.34	24.40	PK	N	
	6	20.0535	48.83	20.11	60.00	11.17	28.72	PK	N	

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

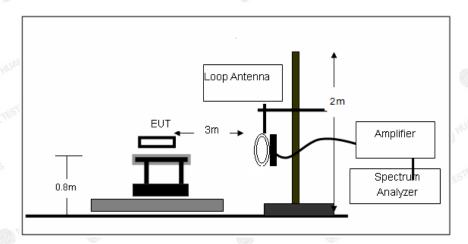
FICATION

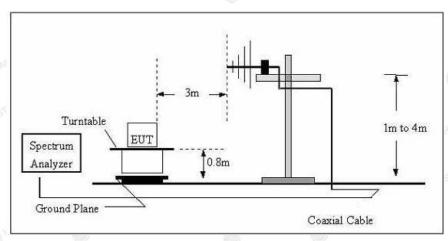
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#### 4. RADIATED EMISSIONS

# 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

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#### 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 measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade, According to part 15.31(f)(2), 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

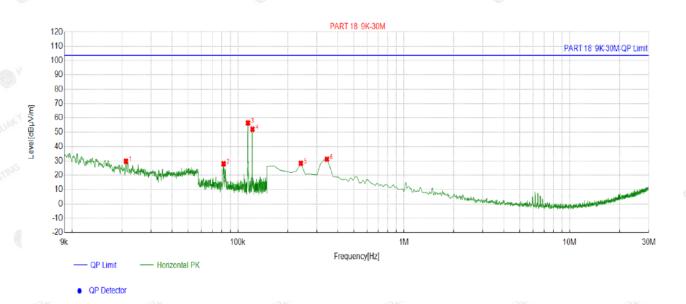
#### **PASS**

Note: All the test modes completed for test. Only the worst result (ANT1+ANT2+ANT3) was reported as below:

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# For 9KHz - 30MHz



As well to the second		The Art of		ATTEN-	Alle Ave		
	Suspe	cted List					
	NO.	Freq.	Factor	Reading	Level	Limit	Margin
		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
	1	0.0211	-16.54	46.31	29.77	103.50	73.73
	2	0.0820	-17.09	45.05	27.96	103.50	75.54
	3	0.1149	-17.18	73.58	56.40	103.50	47.10
	4	0.1222	-17.19	69.33	52.14	103.50	51.36
	5	0.2396	-17.37	45.75	28.38	103.50	75.12
	6	0.3441	-17.29	48.41	31.12	103.50	72.38

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

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For 30MHz-1GHz

# Antenna polarity: H



	Suspe	Suspected List								
	NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
	1	119.3293	-15.67	54.37	38.70	63.50	24.80	100	134	Horizontal
	2	220.3103	-14.46	53.54	39.08	63.50	24.42	100	256	Horizontal
	3	248.4685	-13.15	54.19	41.04	63.50	22.46	100	276	Horizontal
	4	290.2202	-12.63	53.54	40.91	63.50	22.59	100	157	Horizontal
	5	316.4364	-12.04	54.82	42.78	63.50	20.72	100	177	Horizontal
	6	331.0010	-11.58	52.01	40.43	63.50	23.07	100	177	Horizontal

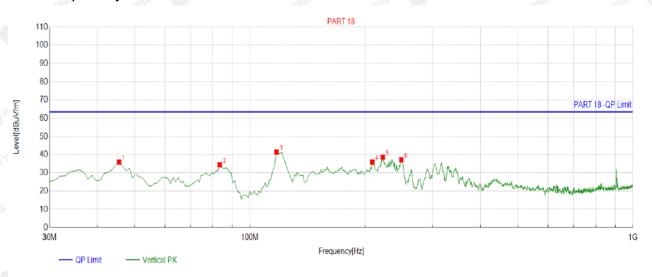
Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor;

Margin = Limit – Level

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# Antenna polarity: V



QP Detector

Susp	Suspected List								
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dolovity
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	45.5355	-15.14	51.06	35.92	63.50	27.58	100	333	Vertical
2	83.4034	-17.82	52.22	34.40	63.50	29.10	100	100	Vertical
3	117.3874	-15.35	56.85	41.50	63.50	22.00	100	155	Vertical
4	208.6587	-14.69	50.61	35.92	63.50	27.58	100	215	Vertical
5	222.2523	-14.35	52.97	38.62	63.50	24.88	100	191	Vertical
6	248.4685	-13.15	50.27	37.12	63.50	26.38	100	198	Vertical

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

Margin = Limit – Level

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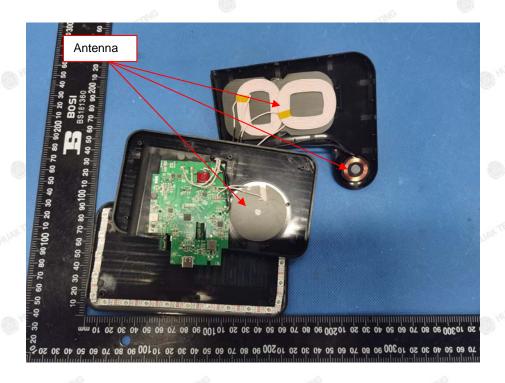
#### 5. ANTENNA REQUIREMENT

#### 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.

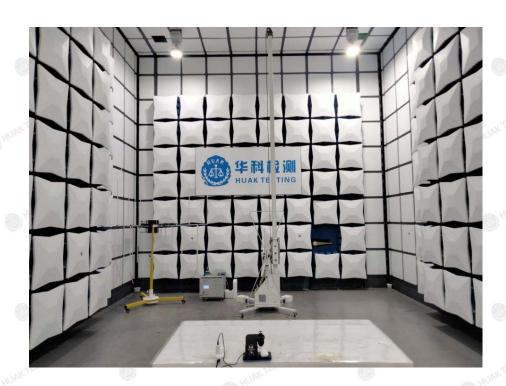


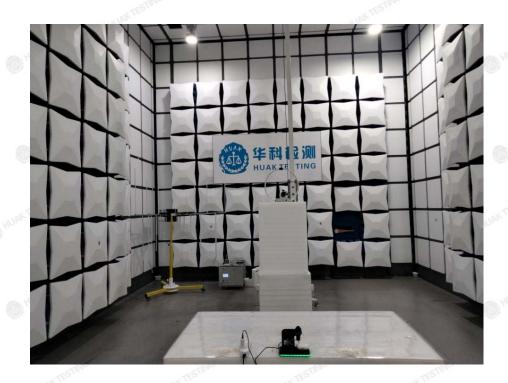
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#### 6. PHOTOGRAPH OF TEST

# Radiated Emission





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**Conducted Emissions** 



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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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