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Report No.: HK2303070685-1E

# **FCC Test Report**

## Test Report On Behalf of SABRINA MANUFACTURING GROUP IRELAND LIMITED For Power Bank Model No.: SMGP208 FCC ID: 2BAOX-SMGP208

Prepared For:

SABRINA MANUFACTURING GROUP IRELAND LIMITED LITTLETON FACTORY, KILLEENS BALLYNONTY THURLES CO. TIPPERARY, E41R960, Ireland

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:
 Mar. 14, 2023 ~ Mar. 21, 2023

 Date of Report:
 Mar. 21, 2023

 Report Number:
 HK2303070685-1E

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## **Test Result Certification**

Applicant's Name:	SABRINA MANUFACTURING GROUP IRELAND LIMITED
Address:	LITTLETON FACTORY, KILLEENS BALLYNONTY THURLES CO. TIPPERARY, E41R960, Ireland
Manufacture's Name	SABRINA MANUFACTURING GROUP LIMITED
Address	19/F, Hua Le Building, 2017 East Shen Nan Road, Shenzhen, 518002, China
Product Description	

Trade Mark	N/A
Product Name:	Power Bank
Model and/or type reference :	SMGP208
Standards	FCC CFR 47 PART 18

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Date of Test	
Date (s) of performance of tests	Mar. 14, 2023 ~ Mar. 21, 2023
Date of Issue	Mar. 21, 2023
Test Result	Pass

**Testing Engineer** 

(Gary Qian)

**Technical Manager** 

(Eden Hu)

Authorized Signatory :

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(Jason Zhou)

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**HUAK TESTING** 

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

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Mar. 21, 2023	Jason Zhou
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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
Radiated emission expanded uncertainty(9kHz-30MHz)
Radiated emission expanded uncertainty(30MHz-1000MHz)
Radiated emission expanded uncertainty(Above 1GHz)

- = 2.71dB, k=2
- = 3.90dB, k=2
- = 3.90dB, k=2
- = 4.28dB, k=2

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## 2. General Information

## 2.1. General Description of EUT

Equipment:	Power Bank
Model Name:	SMGP208
Series Models:	N/A O O O
Model Difference:	N/A come
Trade Mark:	N/A
FCC ID:	2BAOX-SMGP208
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation Frequency:	112KHz~205KHz
Test Frequency:	118KHz
Number of Channels:	1 resting resting resting
Modulation Type:	ASK O
Power Source:	Type-C Input: 5V, 2.5A(Max) USB Output 1: 5V, 2.1A(Max) USB Output 2: 5V, 2.1A(Max) Wireless Output: 5W
Power Rating:	Type-C Input: 5V, 2.5A(Max) USB Output 1: 5V, 2.1A(Max) USB Output 2: 5V, 2.1A(Max) Wireless Output: 5W

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## 2.2. Carrier Frequency of Channels

Operation I	Frequency each of channel	HUAKTE	HUAN	HUAK TEL	HUAK
Channel	Frequency			w.	
1	118KHz				
TING	TING	TING	TING	-7045	-11

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

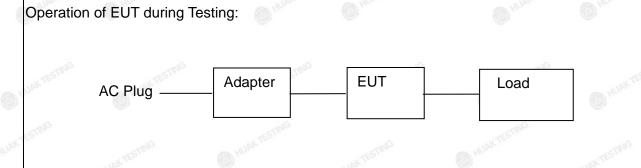
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### 2.4. Description of Test Setup



Adapter information Model: 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

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. Measurement Instruments List

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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.	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 Yea
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	1 Yea
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Feb. 17, 2023	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 17, 2023	1 Yea
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 Yea
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 17, 2023	1 Yea
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 17, 2023	1 Yea
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year

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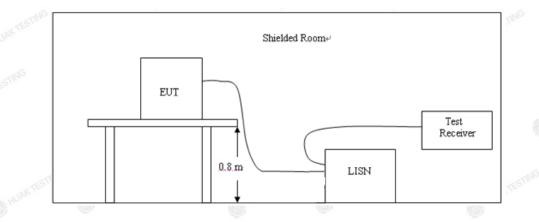
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## 3. Conducted Emission Test

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	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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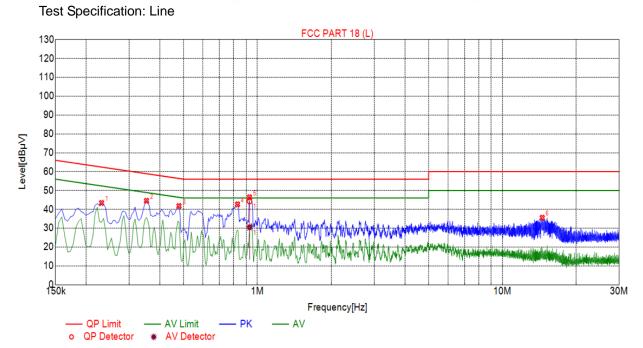
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## 3.4. Test Result



#### All the test modes completed for test. Only the worst result was reported as below:



Suspected List											
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре			
1	0.2310	43.40	20.03	62.43	19.03	23.37	РК	L			
2	0.3525	44.56	20.03	58.97	14.41	24.53	РК	L			
3	0.4785	41.78	20.04	56.42	14.64	21.74	РК	L			
4	0.8295	42.66	20.06	56.00	13.34	22.60	РК	L			
5	0.9285	46.39	20.06	56.00	9.61	26.33	РК	L			
6	14.5545	35.57	19.95	60.00	24.43	15.62	РК	L			

## Final Data List

G	NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	QP Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	A∨ Margin [dB]	AV Reading [dBµV]	Туре
	1	0.9282	20.06	44.35	56.00	11.65	24.29	30.50	46.00	15.50	10.44	L
	Maria		HUM	1								

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

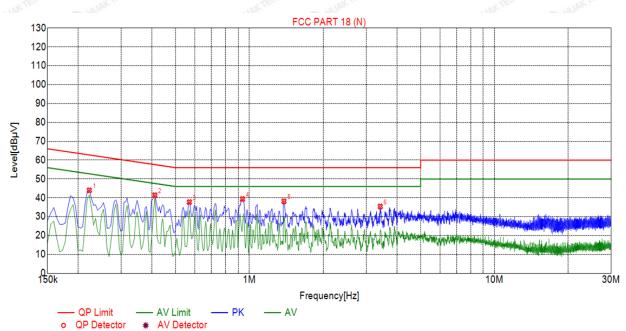
Level=Test receiver reading + correction factor

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#### Test Specification: Neutral



2										
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
	1	0.2220	43.98	20.04	62.82	18.84	23.94	PK	N	
	2	0.4110	41.39	20.03	57.67	16.28	21.36	PK	N	
7000	3	0.5685	37.74	20.05	56.00	18.26	17.69	PK	N	
	4	0.9375	39.36	20.06	56.00	16.64	19.30	PK	N	
	5	1.3830	38.17	20.11	56.00	17.83	18.06	PK	N	
ş	6	3.4215	35.41	20.24	56.00	20.59	15.17	PK	N	

Remark: Margin = Limit - Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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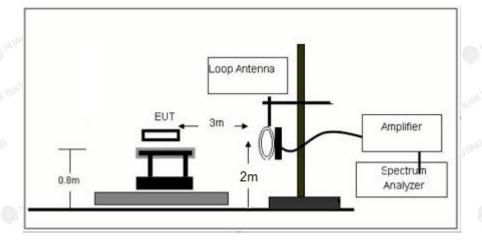
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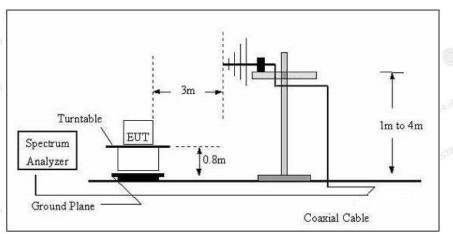


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4. Radiated Emissions

## 4.1. Block Diagram of Test Setup





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## **HUAK TESTING**

#### 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 was reported as below:

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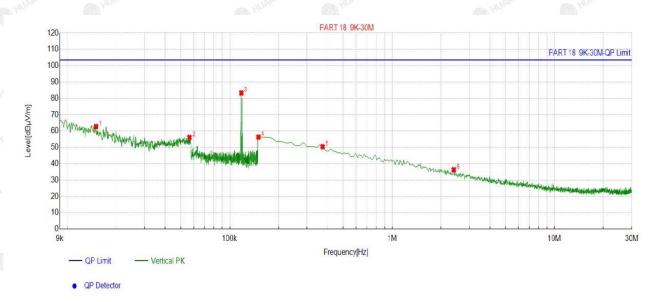
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For 9KHz - 30MHz



	Suspected List									
×.	NO.	Freq.	Factor	Reading	Level	Limit	Margin			
		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]			
	1	0.0150	15.61	47.13	62.74	103.50	40.76			
	2	0.0566	13.95	42.17	56.12	103.50	47.38			
	3	0.1178	13.79	69.81	83.60	103.50	19.90			
	4	0.1500	13.76	42.53	56.29	103.50	47.21			
	5	0.3740	13.76	36.65	50.41	103.50	53.09			
5	6	2.4048	14.53	21.75	36.28	103.50	67.22			

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

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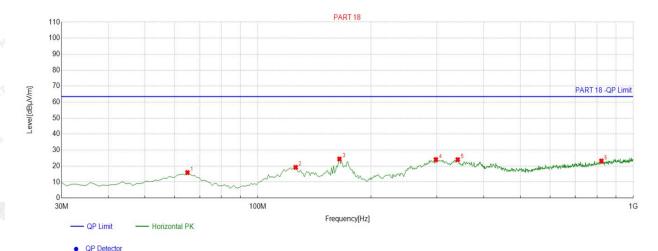


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## For 30MHz-1GHz

Antenna polarity: H



-muc		- and		Oldr-		-and			-nNG		
Suspected List											
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	64.9550	-14.59	30.51	15.92	63.50	47.58	100	359	Horizontal		
2	126.1261	-16.21	35.41	19.20	63.50	44.30	100	155	Horizontal		
3	164.9650	-17.39	41.82	24.43	63.50	39.07	100	59	Horizontal		
4	297.9880	-11.99	36.05	24.06	63.50	39.44	100	179	Horizontal		
5	340.7107	-11.32	35.31	23.99	63.50	39.51	100	211	Horizontal		
6	822.3123	-1.39	24.59	23.20	63.50	40.30	100	43	Horizontal		

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

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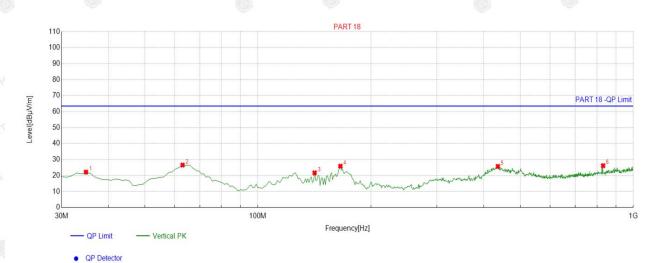
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RO

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## Antenna polarity: V



Suspe	Suspected List										
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
1	34.8549	-16.04	38.18	22.14	63.50	41.36	100	250	Vertical		
2	63.0130	-14.39	40.96	26.57	63.50	36.93	100	190	Vertical		
3	141.6617	-18.11	39.80	21.69	63.50	41.81	100	167	Vertical		
4	165.9359	-17.21	43.07	25.86	63.50	37.64	100	167	Vertical		
5	435.8659	-8.21	33.93	25.72	63.50	37.78	100	175	Vertical		
6	831.0511	-1.35	27.53	26.18	63.50	37.32	100	90	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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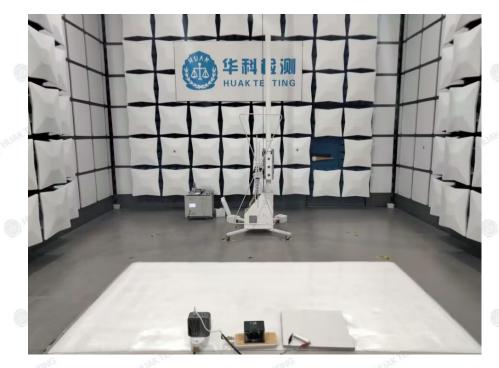
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## 6. Photograph of Test

**Radiated Emission** 





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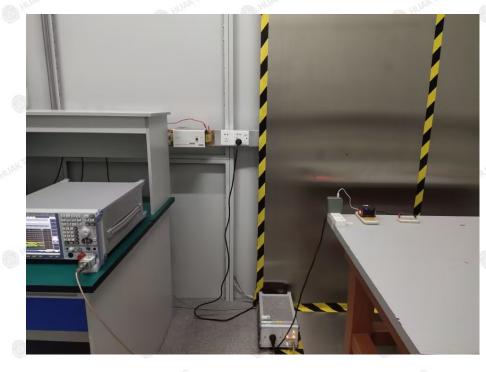
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## **Conducted Emission**



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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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