



**Shenzhen Global Test Service Co.,Ltd.**

No.7-101 and 8A-104,Building 7 and 8,DCC Cultural and Creative Garden No.98,Pingxin North Road,Shangmugu,Pinghu Street, Longgang District,Shenzhen,Guangdong,China

**TEST REPORT**

**FCC Rules and Regulations Part 15 Subpart C (Section 15.209),  
ANSI C63.10: 2013**

**Report Reference No.....: GTS20230109008-1-1**

**FCC ID.....: 2A48S-E49A**

Compiled by

( position+printed name+signature)..: File administrators Peter Xiao

*Peter Xiao*

Supervised by

( position+printed name+signature)..: Test Engineer Jenny Zeng

*Jenny Zeng*

Approved by

( position+printed name+signature)..: Manager Jason Hu



*Jason Hu*

Date of issue.....: Feb.13, 2023

**Representative Laboratory Name ..: Shenzhen Global Test Service Co.,Ltd.**

Address.....: No.7-101 and 8A-104,Building 7 and 8,DCC Cultural and Creative Garden No.98,Pingxin North Road,Shangmugu,Pinghu Street,Longgang District,Shenzhen,Guangdong,China

**Applicant's name.....: Shenzhenshi Weiduli Technology Co.,Ltd.**

Address .....: 4h Floor, Building 4, Dejin Industrial Zone, No. 40, Fuyuan 1st Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

**Test specification .....**

Standard.....: FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2013

**Shenzhen Global Test Service Co.,Ltd. All rights reserved.**

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Global Test Service Co.,Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Global Test Service Co.,Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

**Test item description .....** **Power Bank**

Trade Mark.....: N/A

Manufacturer.....: Shenzhenshi Weiduli Technology Co.,Ltd.

Model/Type reference.....: E49A

List Model.....: E49B, E49

Modulation Type.....: FSK

Operation Frequency.....: 115-205KHz

Ratings.....: Battery Capacity:10000mAh

Battery Energy:38.5Wh/3.85V

IN (TYPE-C):5V 3A/9V 2A/12V 1.5A

OUT(TYPE-C):5V 3A/9V 2.22A/12V 1.67A

OUT/Wireless charger: 15W Max

Result.....: **PASS**

**TEST REPORT**

<b>Test Report No. :</b>	<b>GTS20230109008-1-1</b>	Feb.13, 2023
		Date of issue

Equipment under Test : Power Bank

Model /Type : E49A

Listed Models : E49B, E49

**Applicant** : **Shenzhenshi Weiduli Technology Co.,Ltd.**

Address : 4h Floor, Building 4, Dejin Industrial Zone, No. 40, Fuyuan 1st Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

**Manufacturer** : **Shenzhenshi Weiduli Technology Co.,Ltd.**

Address : 4h Floor, Building 4, Dejin Industrial Zone, No. 40, Fuyuan 1st Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

<b>Test Result:</b>	<b>PASS</b>
---------------------	-------------

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## Contents

<b>1. TEST STANDARDS .....</b>	<b>4</b>
<b>2. SUMMARY .....</b>	<b>5</b>
2.1. General Remarks .....	5
2.2. Product Description .....	5
2.3. Equipment Under Test .....	5
2.4. EUT Exercise Software .....	6
2.5. Special Accessories .....	6
2.6. External I/O Cable .....	6
2.7. Modifications .....	6
<b>3. TEST ENVIRONMENT .....</b>	<b>7</b>
3.1. Address of the test laboratory .....	7
3.2. Test Facility .....	7
3.3. Test Description .....	7
3.4. Statement of the measurement uncertainty .....	7
3.5. Equipments Used during the Test .....	8
<b>4. TEST CONDITIONS AND RESULTS .....</b>	<b>9</b>
4.1. AC Power Conducted Emission .....	9
4.2. Radiated Emission .....	11
4.3. Occupied Bandwidth .....	16
4.4. Antenna Requirement .....	17
<b>5. TEST SETUP PHOTOS OF THE EUT .....</b>	<b>18</b>
<b>6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT .....</b>	<b>21</b>

## **1. TEST STANDARDS**

The tests were performed according to following standards:

[FCC Rules and Regulations Part 15 Subpart C \(Section 15.209\)](#): Radiated emission limits; general requirements.

[ANSI C63.10: 2013](#): American National Standard for Testing Unlicensed Wireless Devices

## 2. SUMMARY

### 2.1. General Remarks

Date of receipt of test sample	:	Jan.10, 2023
Testing commenced on	:	Jan.10, 2023
Testing concluded on	:	Feb. 11, 2023

### 2.2. Product Description

Product Name:	Power Bank
Trade Mark:	N/A
Model/Type reference:	E49A
List Model:	E49B, E49
Model Declaration	PCB board, structure and internal of these model(s) are the same, Only the model name and shell different , So no additional models were tested.
Power supply:	Battery Capacity:10000mAh Battery Energy:38.5Wh/3.85V IN (TYPE-C):5V $\overline{=}$ 3A/9V $\overline{=}$ 2A/12V $\overline{=}$ 1.5A OUT(TYPE-C):5V $\overline{=}$ 3A/9V $\overline{=}$ 2.22A/12V $\overline{=}$ 1.67A OUT/Wireless charger: 15W Max
Hardware version	N/A
Software version	N/A
Sample ID	GTS20230109008-1-1-S0001-1#& GTS20230109008-1-1-S0001-2#
WPT	
Operation frequency	115-205KHz
Modulation Type	FSK
Load Sensing	Contact transmission
Antenna Type	Coil Antenna
Antenna Gain	0dBi

### 2.3. Equipment Under Test

#### Power supply system utilised

Power supply voltage	:	<input type="radio"/> 230V / 50 Hz	<input type="radio"/> 120V / 60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input checked="" type="radio"/> Other (specified in blank below)	

DC 5.0V

## Description of the test mode

Operation Frequency each of channel	
Channel	Frequency
1	126.277KHz

Mode	AC mode	Battery mode
Mode 1	Wireless Charging 15W+full load output	Wireless Charging 15W+full load output
Mode 2	Wireless Charging 5W+full load output	Wireless Charging 5W+full load output
Mode 3	Wireless Charging 7.5W+full load output	Wireless Charging 7.5W+full load output
Mode 4	Wireless Charging 10W+full load output	Wireless Charging 10W+full load output
Mode 5	Wireless Charging 5W	Wireless Charging 5W
Mode 6	Wireless Charging 7.5W	Wireless Charging 7.5W
Mode 7	Wireless Charging 10W	Wireless Charging 10W
Mode 8	Wireless Charging 15W	Wireless Charging 15W

Note :1.EUT has one Type-C port, and only Type-C supports wireless charging in AC mode.  
2. All the modes have been tested and recorded worst mode in the report(Mode 1).

### 2.4. EUT Exercise Software

N/A

### 2.5. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
DENMEN	Adapter	DC01	--	SDOC

**Note: The Adapter is only used for auxiliary testing.**

### 2.6. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	0.4M, Unscreened Cable

### 2.7. Modifications

No modifications were implemented to meet testing criteria.

### 3. TEST ENVIRONMENT

#### 3.1. Address of the test laboratory

##### **Shenzhen Global Test Service Co.,Ltd.**

No.7-101 and 8A-104,Building 7 and 8,DCC Cultural and Creative Garden No.98,Pingxin North Road,Shangmugu,Pinghu Street,Longgang District,Shenzhen,Guangdong,China

#### 3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

IC Registration Number is 24189.

CAB identifier is CN0082.

#### 3.3. Test Description

Description Of Test	Result
Conducted Emissions Test	Compliant
Radiated Emission Test	Compliant
Occupied Bandwidth Measurement	Compliant
Antenna Requirement	Compliant

#### 3.4. Statement of the measurement uncertainty

Measurement Uncertainty		
Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	=	4.06dB, k=2

### 3.5. Equipments Used during the Test

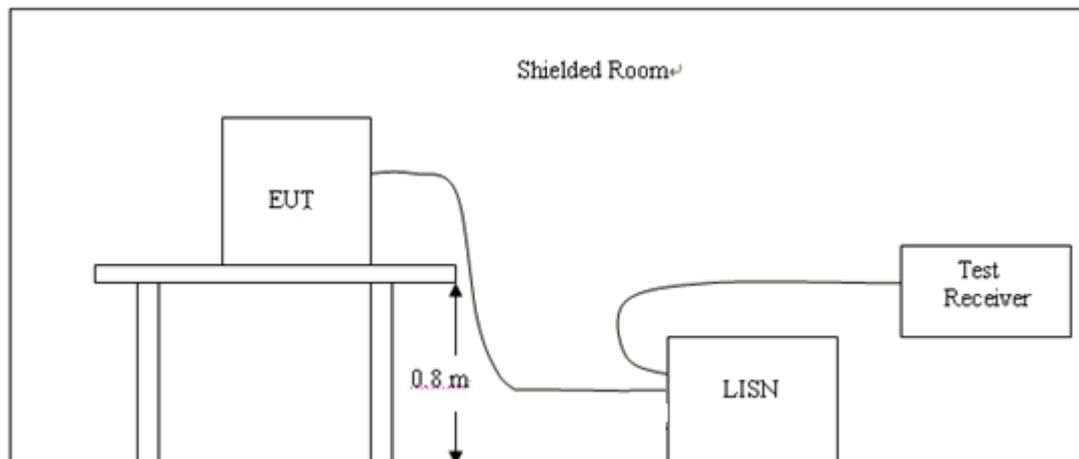
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2022/07/13	2023/07/12
LISN	R&S	ESH2-Z5	893606/008	2022/07/13	2023/07/12
EMI Test Receiver	R&S	ESPI3	101841-cd	2022/07/13	2023/07/12
EMI Test Receiver	R&S	ESCI7	101102	2022/09/09	2023/09/08
Spectrum Analyzer	Agilent	N9020A	MY48010425	2022/09/09	2023/09/08
Spectrum Analyzer	R&S	FSV40	100019	2022/07/13	2023/07/12
Vector Signal generator	Agilent	N5181A	MY49060502	2022/07/13	2023/07/12
Signal generator	Agilent	N5182A	3610AO1069	2022/09/09	2023/09/08
Climate Chamber	ESPEC	EL-10KA	A20120523	2022/09/09	2023/09/08
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2022/09/09	2023/09/08
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2022/09/09	2023/09/08
Bilog Antenna	Schwarzbeck	VULB9163	000976	2022/07/13	2023/07/12
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2022/09/09	2023/09/08
Amplifier	Schwarzbeck	BBV 9743	#202	2022/07/13	2023/07/12
Amplifier	Schwarzbeck	BBV9179	9719-025	2022/07/13	2023/07/12
Amplifier	EMCI	EMC051845B	980355	2022/07/13	2023/07/12
Temperature/Humidity Meter	Gangxing	CTH-608	02	2022/07/13	2023/07/12
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	KL142031	2022/07/13	2023/07/12
High-Pass Filter	K&L	41H10-1375/U12750-O/O	KL142032	2022/07/13	2023/07/12
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2022/07/13	2023/07/12
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2022/07/13	2023/07/12
Data acquisition card	Agilent	U2531A	TW53323507	2022/07/13	2023/07/12
Power Sensor	Agilent	U2021XA	MY5365004	2022/07/13	2023/07/12
Test Control Unit	Tonscend	JS0806-1	178060067	2022/07/13	2023/07/12
Automated filter bank	Tonscend	JS0806-F	19F8060177	2022/07/13	2023/07/12
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

The calibration interval is 1 year.

## 4. TEST CONDITIONS AND RESULTS

### 4.1. AC Power Conducted Emission

#### TEST CONFIGURATION



#### 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 adapter, the adapter received 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.

#### AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\* Decreases with the logarithm of the frequency.

#### TEST RESULTS

1. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:.

Temperature	25°C	Humidity	60%
Test Engineer	Jenny Zeng	Configurations	WPT

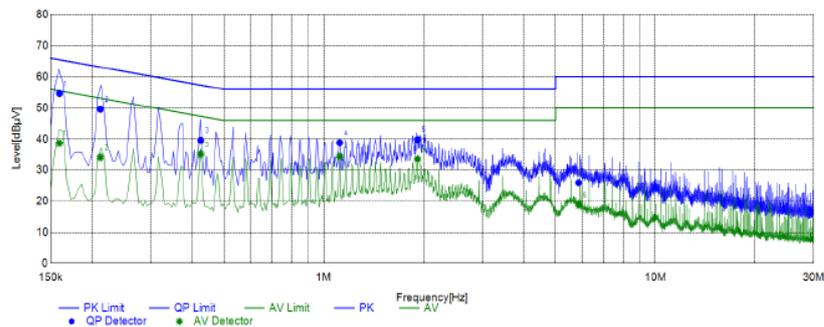
Power supply:

AC 120V/60Hz

Polarization

L

Test Graph



Final Data List

NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1595	45.04	29.06	9.60	54.64	38.66	65.49	55.49	10.85	16.83	L1	PASS
2	0.2121	40.06	24.63	9.54	49.60	34.17	63.12	53.12	13.52	18.95	L1	PASS
3	0.4261	30.18	25.72	9.43	39.61	35.15	57.33	47.33	17.72	12.18	L1	PASS
4	1.1172	29.42	25.04	9.39	38.81	34.43	56.00	46.00	17.19	11.57	L1	PASS
5	1.9201	30.45	24.23	9.35	39.80	33.58	56.00	46.00	16.20	12.42	L1	PASS
6	5.8647	16.61	9.48	9.35	25.96	18.83	60.00	50.00	34.04	31.17	L1	PASS

Note: 1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

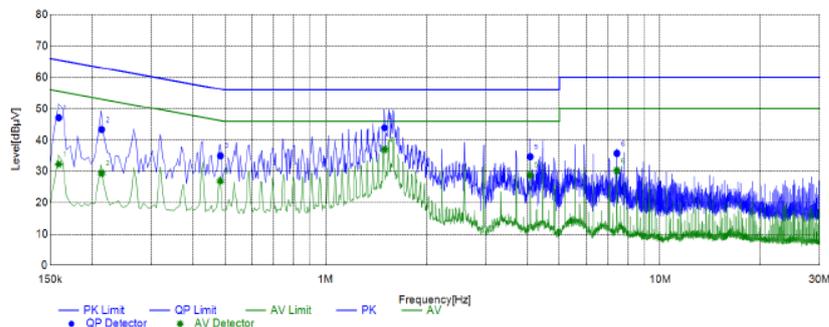
Power supply:

AC 120V/60Hz

Polarization

N

Test Graph



Final Data List

NO.	Frequency	QP	AVG.	Factor	QP	AVG.	QP	AVG.	QP	AVG.	Line	Remark
		Reading	Reading		Result	Result	Limit	Limit	Margin	Margin		
1	0.1592	37.55	22.71	9.60	47.15	32.31	65.50	55.50	18.35	23.19	N	PASS
2	0.2140	33.76	19.85	9.57	43.33	29.42	63.05	53.05	19.72	23.63	N	PASS
3	0.4851	25.59	17.50	9.41	35.00	26.91	56.25	46.25	21.25	19.34	N	PASS
4	1.5020	34.56	27.63	9.36	43.92	36.99	56.00	46.00	12.08	9.01	N	PASS
5	4.0924	25.32	19.43	9.39	34.71	28.82	56.00	46.00	21.29	17.18	N	PASS
6	7.4396	26.42	20.90	9.32	35.74	30.22	60.00	50.00	24.26	19.78	N	PASS

Note: 1. Result (dBµV) = Reading (dBµV) + Factor (dB).

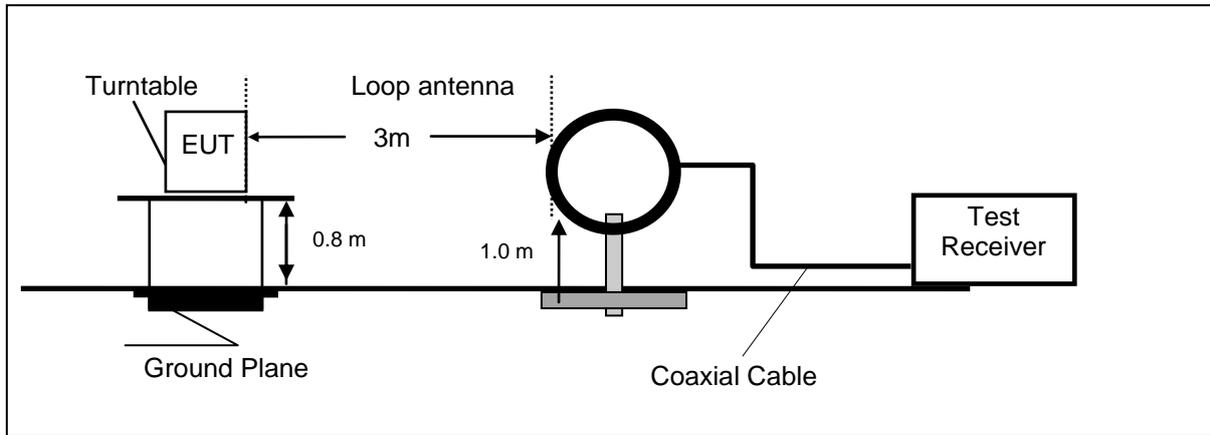
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Note: All the modes have been tested and recorded worst mode in the report.

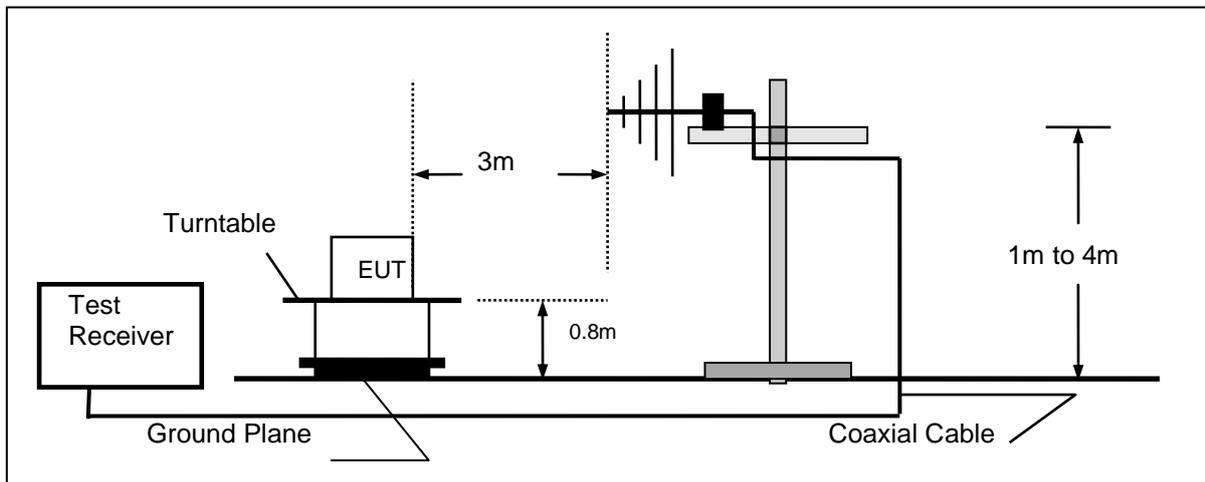
### 4.2. Radiated Emission

#### TEST CONFIGURATION

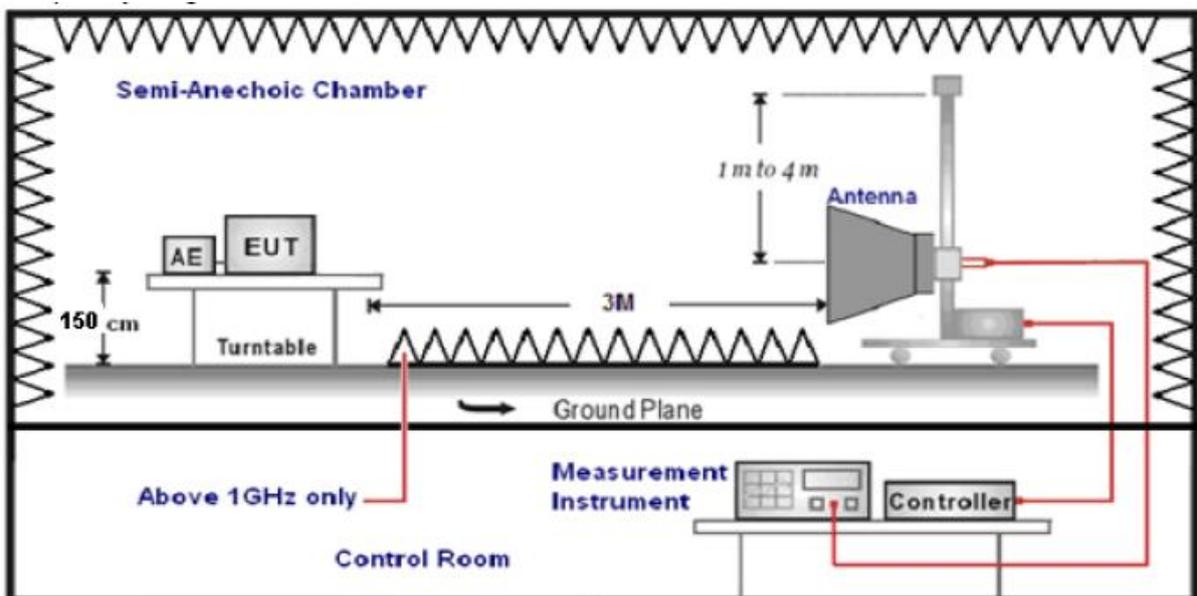
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



**TEST PROCEDURE**

- 1.The EUT was placed on a turn table which is 12mm above ground plane when testing frequency range 9 KHz –25GHz.
- 2.Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3.And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4.Repeat above procedures until all frequency measurements have been completed.
- 5.The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 205KHz.so radiated emission test frequency band from 9KHz to 1GHz.
- 6.The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

- 7.Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

**Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$Transd=AF +CL-AG$$

**RADIATION LIMIT**

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

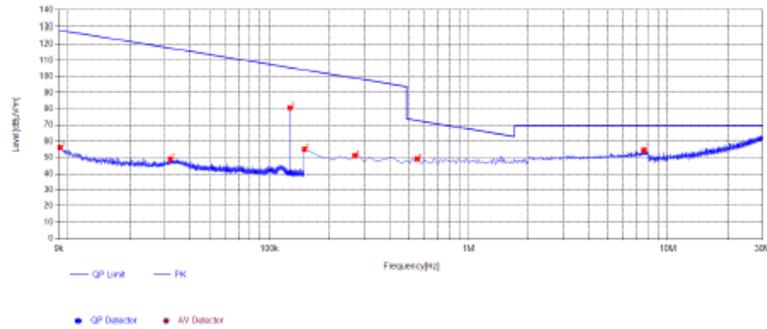
**TEST RESULTS**

Temperature	25°C	Humidity	58%
Test Engineer	Jenny Zeng	Configurations	WPT

**For 9 KHz-30MHz**

**Coplanar**

Test Graph



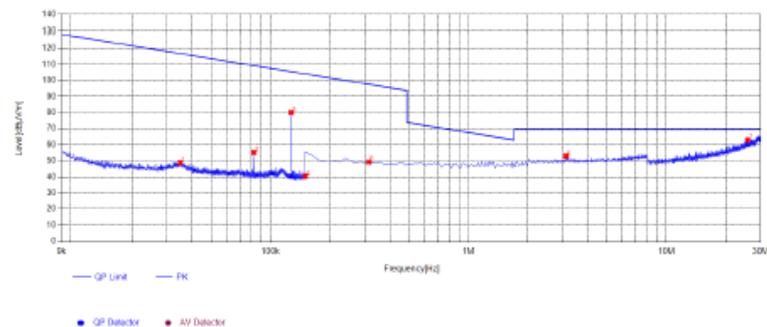
Suspected List											
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	0.0091	56.06	0.10	56.16	128.46	72.30	100	120	QP	Coplanar	PASS
2	0.0319	48.94	0.14	49.08	117.53	68.45	100	320	QP	Coplanar	PASS
3	0.127	80.30	0.34	80.64	105.53	24.89	100	150	QP	Coplanar	PASS
4	0.15	54.78	0.38	55.16	104.08	48.92	100	10	QP	Coplanar	PASS
5	0.2894	50.70	0.45	51.15	99.00	47.85	100	90	QP	Coplanar	PASS
6	0.553	48.55	0.62	49.17	72.75	23.58	100	230	QP	Coplanar	PASS
7	7.5976	49.78	4.75	54.53	69.54	15.01	100	60	QP	Coplanar	PASS

Note:1. Result (dBuV/m) = Reading (dBuV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

**Coaxial**

Test Graph



Suspected List											
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	0.035	48.71	0.15	48.86	116.71	66.98	100	130	QP	Coaxial	PASS
2	0.0823	55.03	0.24	55.27	109.29	53.96	100	180	QP	Coaxial	PASS
3	0.127	79.76	0.34	80.10	105.53	25.43	100	260	QP	Coaxial	PASS
4	0.15	40.09	0.38	40.47	104.08	48.59	100	10	QP	Coaxial	PASS
5	0.3142	48.83	0.48	49.31	97.66	48.35	100	260	QP	Coaxial	PASS
6	3.1201	50.80	2.14	52.94	69.54	16.60	100	310	QP	Coaxial	PASS
7	25.821	47.73	15.24	62.97	69.54	6.57	100	210	QP	Coaxial	PASS

Note:1. Result (dBuV/m) = Reading (dBuV/m) + Factor (dB) .

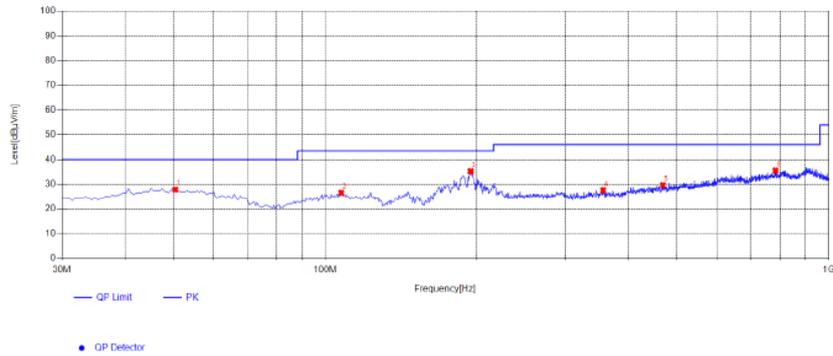
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

For 30MHz-1GHz

AC mode:

Horizontal

Test Graph



Suspected List

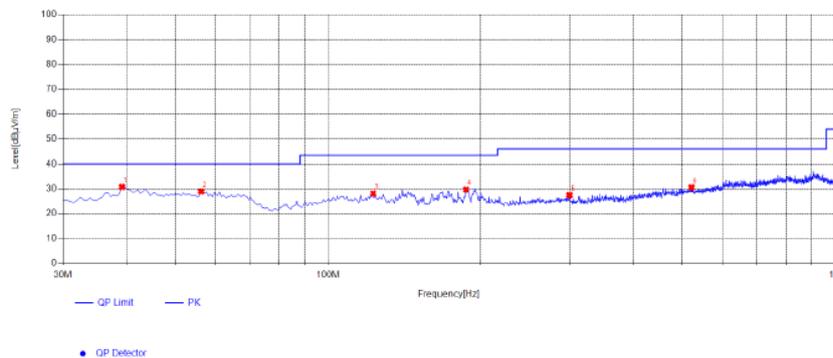
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	50.37	43.41	-15.63	27.78	40.00	12.22	100	73	PK	Horizontal	PASS
2	107.6	43.68	-17.20	26.48	43.50	17.02	100	117	PK	Horizontal	PASS
3	194.415	54.01	-18.75	35.26	43.50	8.24	100	338	PK	Horizontal	PASS
4	356.405	42.69	-15.21	27.48	46.00	18.52	100	358	PK	Horizontal	PASS
5	468.44	43.48	-13.86	29.62	46.00	16.38	100	34	PK	Horizontal	PASS
6	784.175	44.76	-9.24	35.52	46.00	10.48	100	293	PK	Horizontal	PASS

Note: 1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	39.215	47.86	-17.11	30.75	40.00	9.25	100	355	PK	Vertical	PASS
2	56.19	45.20	-16.31	28.89	40.00	11.11	100	211	PK	Vertical	PASS
3	122.635	48.09	-20.00	28.09	43.50	15.41	100	92	PK	Vertical	PASS
4	187.14	49.24	-19.58	29.66	43.50	13.84	100	44	PK	Vertical	PASS
5	299.175	44.24	-16.84	27.40	46.00	18.60	100	54	PK	Vertical	PASS
6	520.82	43.18	-12.61	30.57	46.00	15.43	100	153	PK	Vertical	PASS

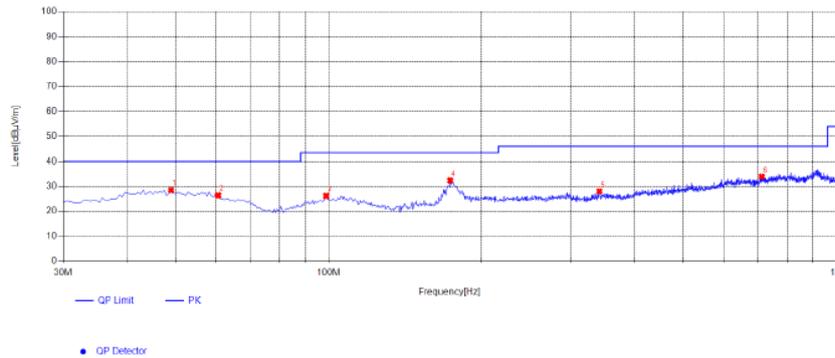
Note: 1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Battery mode:

Horizontal

Test Graph



Suspected List

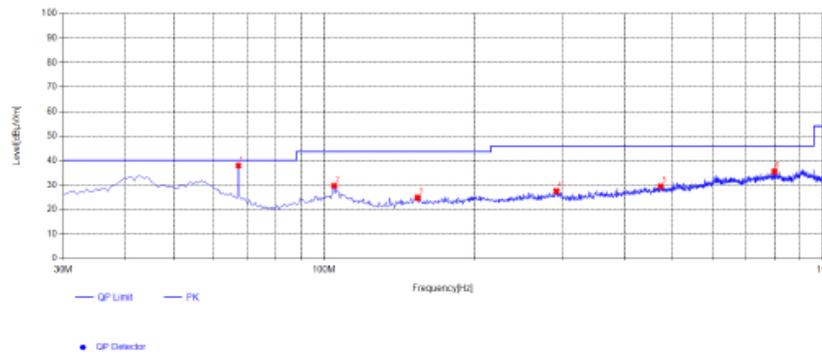
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	48.915	44.22	-15.76	28.46	40.00	11.54	100	54	PK	Horizontal	PASS
2	60.555	44.02	-17.69	26.33	40.00	13.67	100	60	PK	Horizontal	PASS
3	98.87	43.89	-17.76	26.13	43.50	17.37	100	108	PK	Horizontal	PASS
4	173.56	52.93	-20.66	32.27	43.50	11.23	100	50	PK	Horizontal	PASS
5	341.37	43.67	-15.70	27.97	46.00	18.03	100	267	PK	Horizontal	PASS
6	712.395	44.34	-10.49	33.85	46.00	12.15	100	162	PK	Horizontal	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	67.346	56.78	-18.87	37.91	40.00	2.09	100	207	PK	Vertical	PASS
2	104.69	46.94	-17.33	29.61	43.50	13.89	100	242	PK	Vertical	PASS
3	154.16	46.44	-21.61	24.83	43.50	18.67	100	2	PK	Vertical	PASS
4	292.385	44.32	-16.91	27.41	46.00	18.59	100	236	PK	Vertical	PASS
5	473.29	43.25	-13.85	29.40	46.00	16.60	100	312	PK	Vertical	PASS
6	799.695	44.89	-9.39	35.50	46.00	10.50	100	303	PK	Vertical	PASS

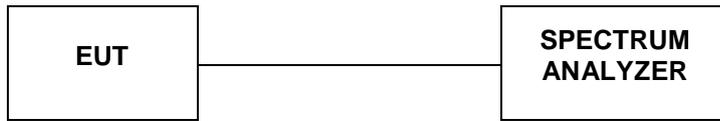
Note:1. Result (dBuV/m) = Reading(dBuV/m) + F actor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + C able loss (dB) - P re Am plifier gain (dB).

Note: All the modes have been tested and recorded worst mode in the report.

### 4.3. Occupied Bandwidth

#### TEST CONFIGURATION



#### TEST PROCEDURE

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator’s antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

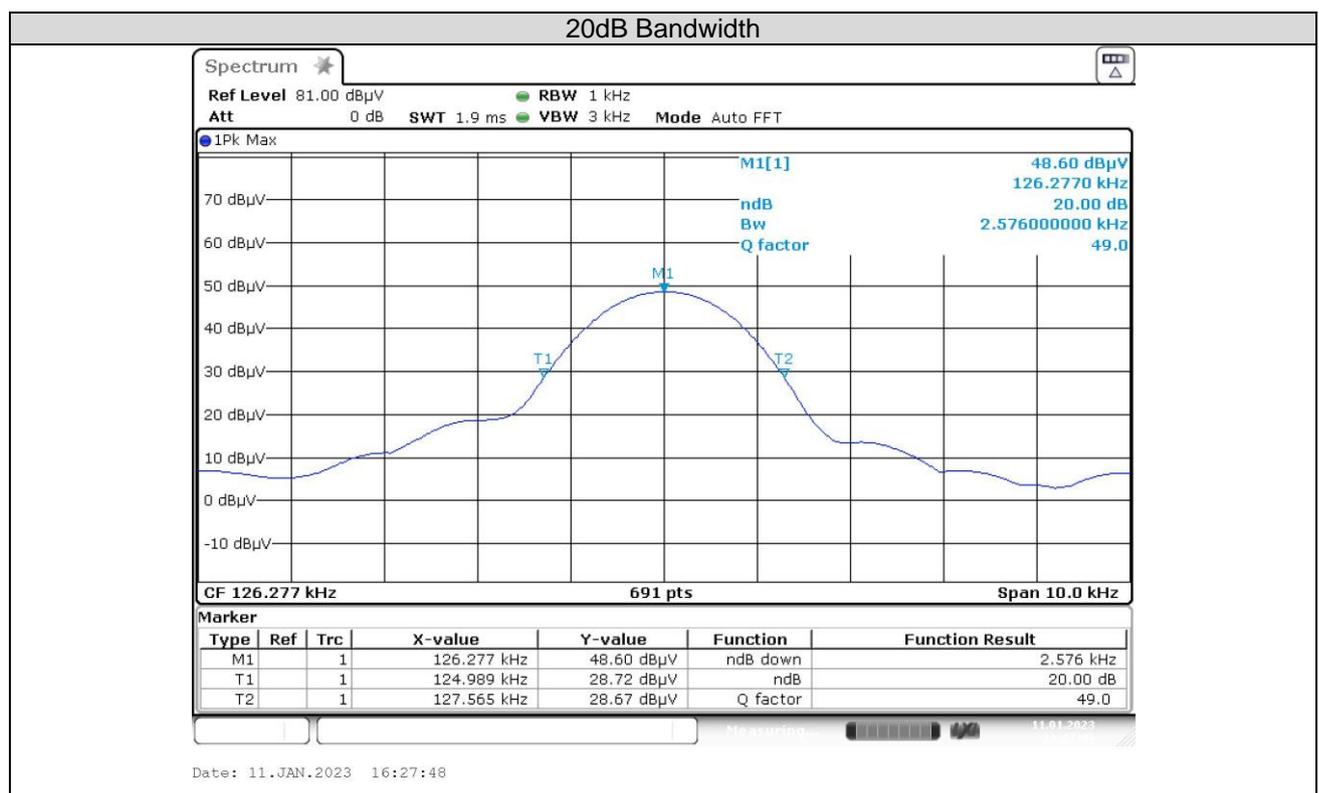
#### LIMIT

./

#### TEST RESULTS

Temperature	24.5°C	Humidity	53.9%
Test Engineer	Jenny Zeng	Configurations	WPT

Mode	Freq (KHz)	20dB Bandwidth (KHz)	Limit (kHz)	Conclusion
Tx Mode	126.277	2.576	/	PASS



#### 4.4. Antenna Requirement

##### Standard Applicable

##### **Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

##### **Antenna Information**

The antenna used in this product is a Coil Antenna, The directional gains of antenna used for transmitting is 0dBi.

Reference to the **Internal photos**.

## 5. Test Setup Photos of the EUT

Photo of Radiated Emissions Measurement



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Photo of Conducted Emissions Measurement

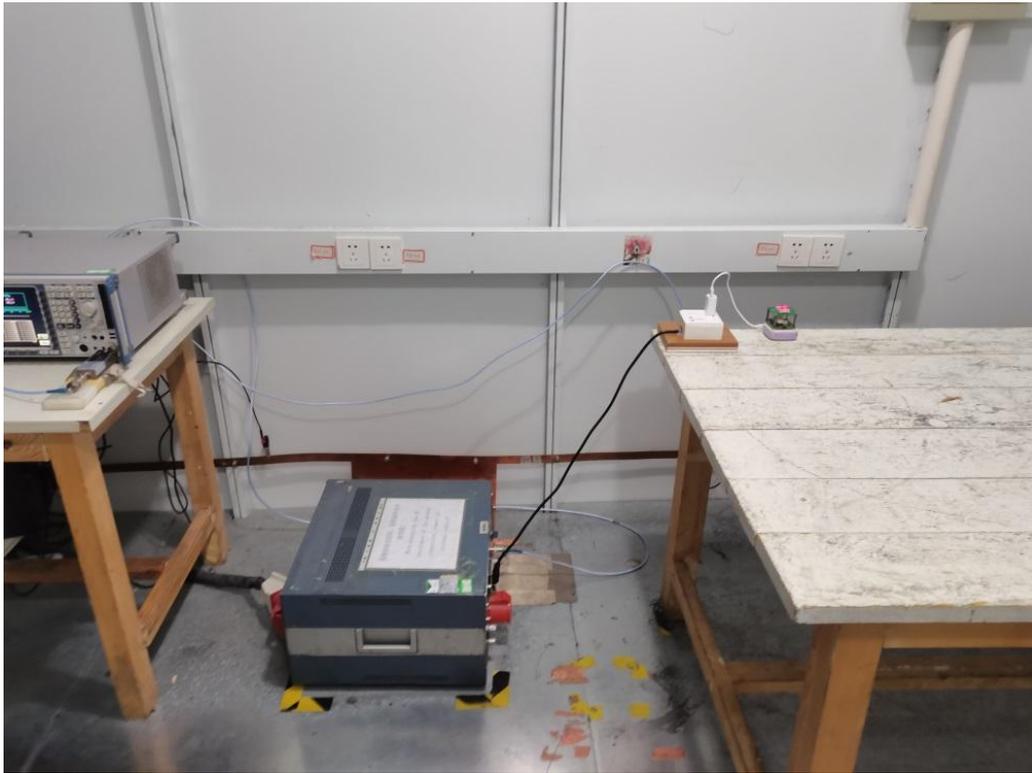


Fig. 5

## 6. External and Internal Photos of the EUT



Fig. 1



Fig. 2

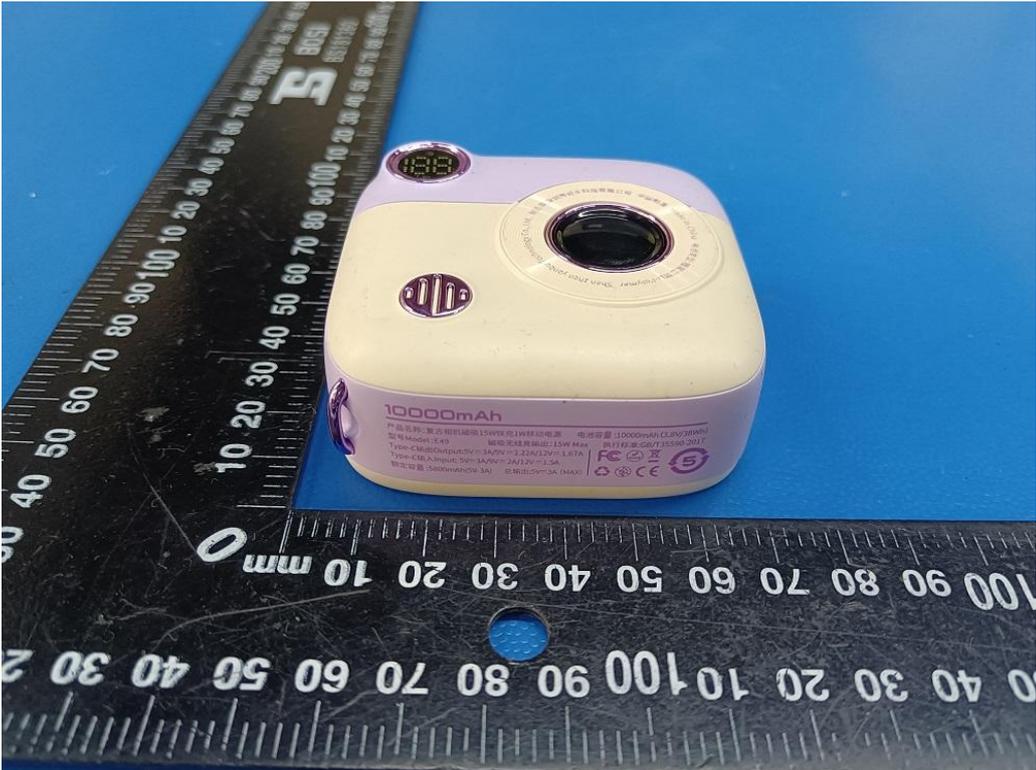


Fig. 3



Fig. 4



Fig. 5

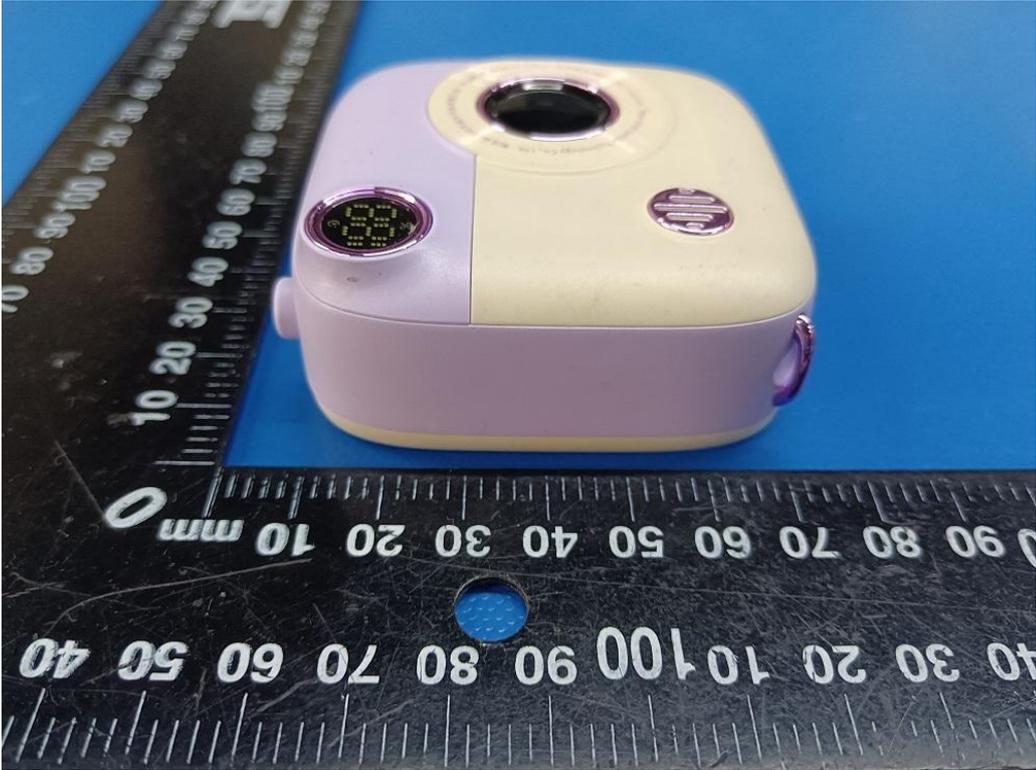


Fig. 6

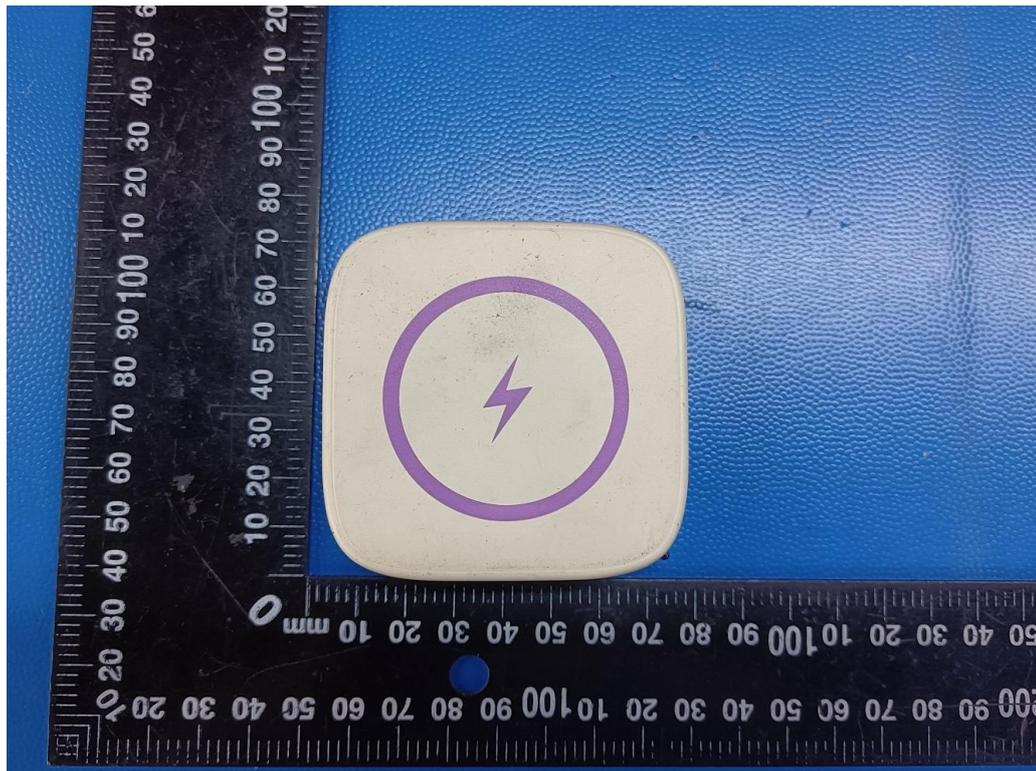


Fig. 7

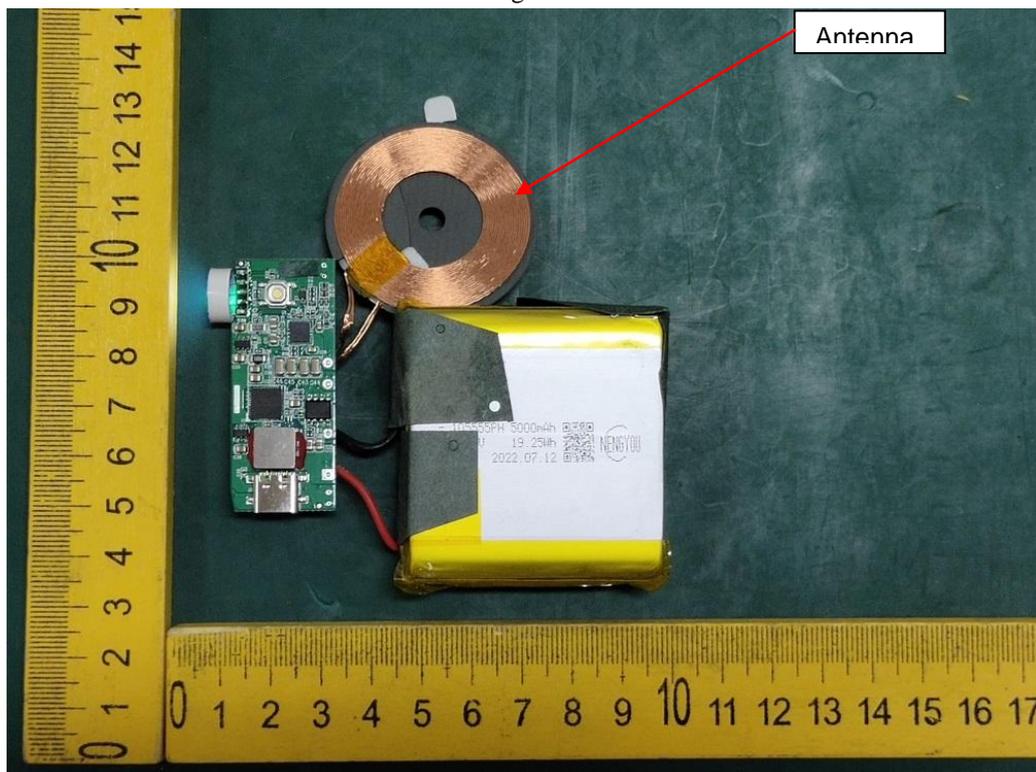


Fig. 8

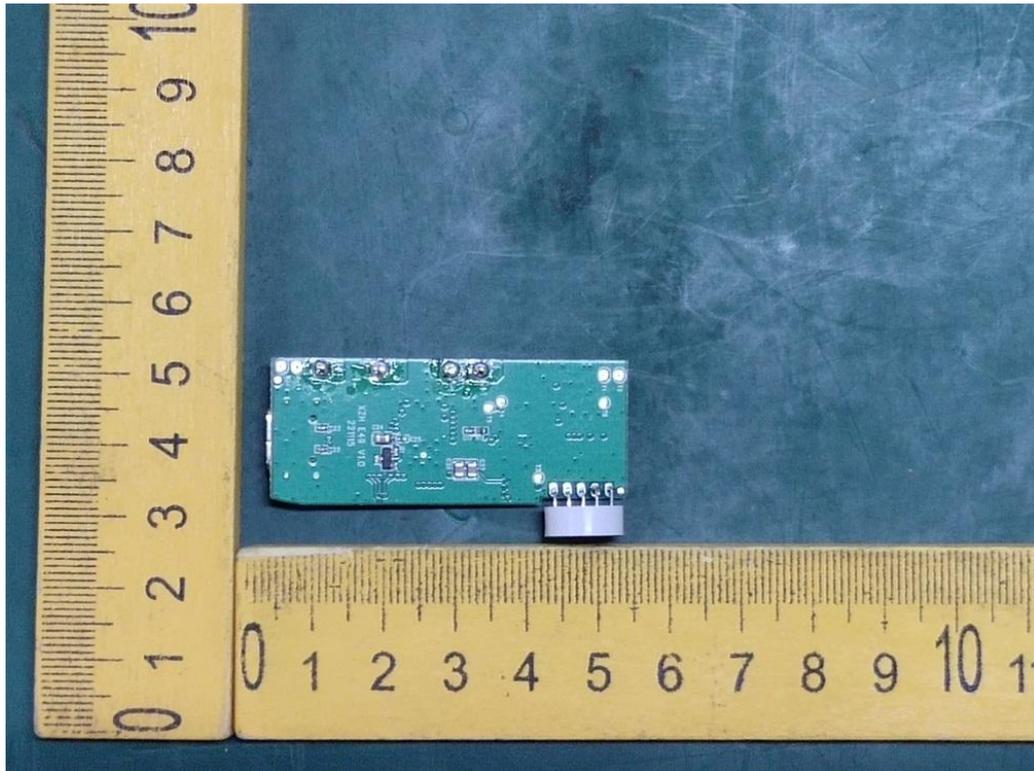


Fig. 9

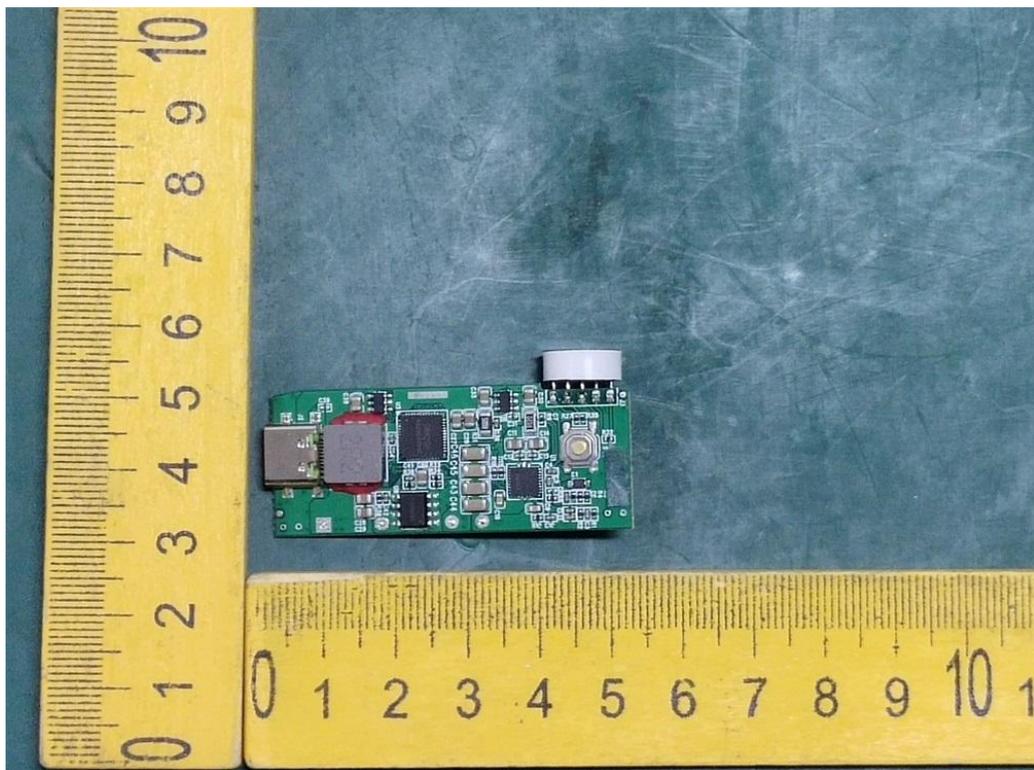


Fig. 10



Fig. 11

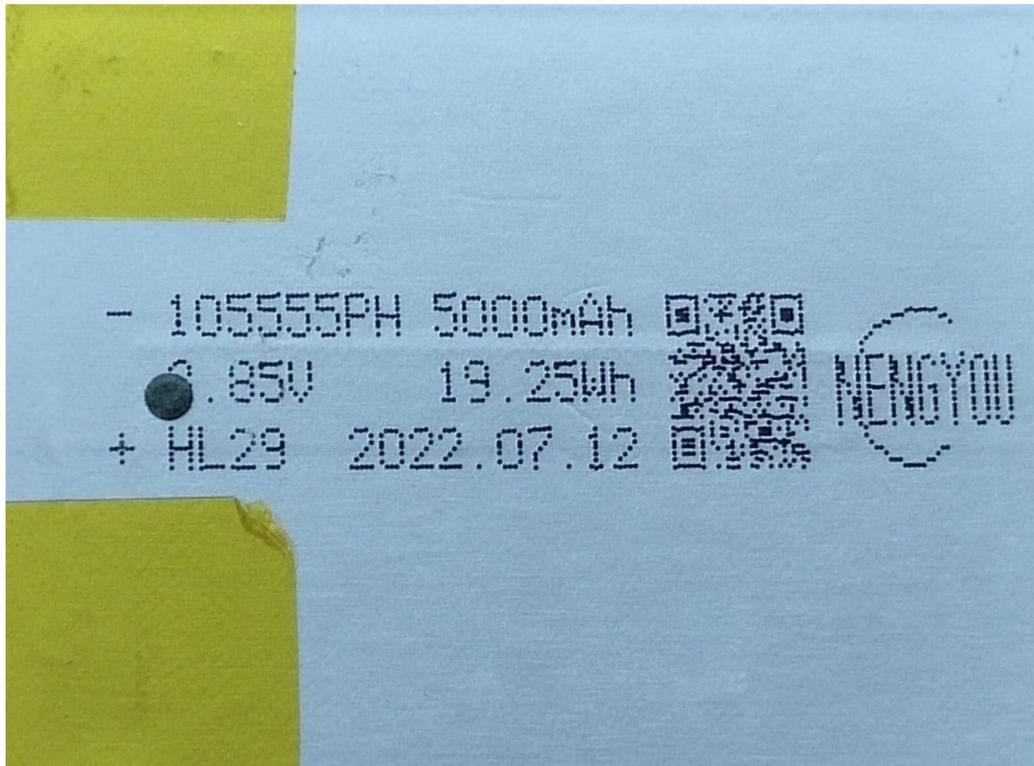


Fig. 12

.....End of Report.....