



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

Report Reference No.....: GTS20220216009-1-6

FCC ID.....: 2A4M2-I13

Compiled by

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Simon Hu

Date of issue.....: Feb.22, 2022

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.....: Shenzhen Hasmine Technology Co., Ltd.

Address: office 208 room, floor 8, Haomai High-tech park, Huating Road, Dalang street, Longhua new district, Shenzhen, Guangdong, China

Test specification

Standard: FCC KDB 680106 D01

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Test item description: **Magnetic Wireless Fast Charging Power Bank**

Trade Mark: N/A

Manufacturer: Shenzhen Hasmine Technology Co., Ltd.

Model/Type reference.....: I13

List Model: N/A

Modulation Type: CW (Continuous Wave)

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

Ratings: Input: DC 5.0V/3.0A, DC 9.0V/2.0A

Type-C Output: DC 5.0V/2.4A, DC 9.0V/2.2A, DC 12.0V/1.5A(Max)

Wireless Output:15W(Max)

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

TEST REPORT

Test Report No. : GTS20220216009-1-6	Feb.22, 2022 Date of issue
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Equipment under Test : Magnetic Wireless Fast Charging Power Bank

Model /Type : I13

Listed Models : N/A

Applicant : **Shenzhen Hasmine Technology Co., Ltd.**

Address : office 208 room, floor 8, Haomai High-tech park, Huating Road,
Dalang street, Longhua new district, Shenzhen, Guangdong, China

Manufacturer **Shenzhen Hasmine Technology Co., Ltd.**

Address : office 208 room, floor 8, Haomai High-tech park, Huating Road,
Dalang street, Longhua new district, Shenzhen, Guangdong, China

Test Result:	PASS
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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.

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1. SUMMARY

1.1. General Remarks

Date of receipt of test sample	:	Feb.18, 2022
Testing commenced on	:	Feb.18, 2022
Testing concluded on	:	Feb.21, 2022

1.2. Product Description

Product Name:	Magnetic Wireless Fast Charging Power Bank
Trade Mark:	N/A
Model/Type reference:	I13
List Model:	N/A
Model Declaration	N/A
Power supply:	Input: DC 5.0V/3.0A, DC 9.0V/2.0A Type-C Output: DC 5.0V/2.4A, DC 9.0V/2.2A, DC 12.0V/1.5A(Max) Wireless Output:15W(Max)
Hardware version	N/A
Software version	N/A
Sample ID	GTS20220216009-1-1#
WPT	
Operation frequency	115-205KHz
Modulation Type	CW (Continuous Wave)
Load Sensing	Contact transmission
Antenna Type	Coil Antenna
Antenna Gain	0dBi

1.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐	230V / 50 Hz	☐	120V / 60Hz
		☐	12 V DC	☐	24 V DC
		☒	Other (specified in blank below)		

DC 9.0V

Description of the test mode

Operation Frequency each of channel	
Channel	Frequency
1	147.03KHz

Mode	Mode1	Mode2
AC mode	Wireless Charging 15W	/
Battery mode	Wireless Charging 15W	Wireless Charging 15W+full load output

Note: EUT has only one type-c port, and only supports wireless charging in AC mode.

1.4. Modifications

No modifications were implemented to meet testing criteria.

1.5. 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

1.6. 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.

1.7. Statement of the measurement uncertainty

Test Item	Frequency Range	Uncertainty
H-Field Strength Uncertainty	1Hz~400KHz	3.12dB, k=2
F-Field Strength Uncertainty	1Hz~400KHz	2.68dB, k=2

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. TEST STANDARDS

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 680106 D01 RF Exposure Wireless Charging Apps v03](#): RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices

[FCC CFR 47 part 18.107](#): Industrial, Scientific, and Medical Equipment

1.9. Equipments Used during the Test

Description	Brand	Model No.	Serial no.	Calibrated Date	Calibrated Until
Exposure Level Tester	NARDA	ELT-400	N-0713	Apr. 02, 2021	Apr. 01, 2022
B-Field Probe	NARDA	ELT-400	M-1154	Apr. 10, 2021	Apr. 09, 2022

NOTE: 1. The calibration interval of the above test instruments is 12 months .

2. TEST CONDITIONS AND RESULTS

2.1. Evaluation Method

Per KDB 680106 D01 Section 3. RF Exposure Requirements;

1. Consumer wireless power transfer devices approved under Part 18 in some cases have to demonstrate compliance with RF exposure requirements. The potential for exposure must be assessed according to the operating configurations of the wireless system and the exposure conditions of users and bystanders. RF exposure must be evaluated with the client device(s) being charged by the primary at maximum output power. The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Section 2.1091 and Section 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to 1.1307 (c) and (d) of the FCC rules.

2. Based on the design and implementation of the power transfer application, it must be clearly identified if mobile or portable RF exposure conditions apply. Devices that are installed to provide separation of at least 20 cm from users and bystanders may qualify for mobile exposure conditions. For some conditions where users and bystanders may be exposed at closer than 20 cm, section 2.1091(d) (4) of the rules may apply.

3. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

4. Portable exposure conditions from 100 kHz to 6 GHz are determined with respect to SAR requirements. Existing SAR systems and test procedures are generally intended for measurements above 100 MHz. While numerical modeling can be an alternative, the constraints of substantial computational resources at low frequencies could introduce further limitations. Under these circumstances, including operations below 100 kHz, the Commission may consider a combination of analytical analysis, field strength, radiated and conducted power measurements, in conjunction with some limited numerical modeling to assess compliance.

5. Depending on the operating frequency, existing SAR and MPE measurement procedures may be adapted to evaluate wireless power transfer devices for compliance with respect to mobile or portable exposure conditions. If the grantee or its test lab have any questions regarding RF exposure evaluation they should contact the FCC Laboratory with sufficient system operating configuration details to determine if RF exposure evaluation is necessary and, if required, how to apply specific test procedures. Below 100 MHz, when SAR testing is required and the device is operating at close proximity to persons, information on device design, implementation, operating configurations, exposure conditions of users and bystanders are needed to determine the evaluation and testing requirements. In addition, the influence of nearby objects may also need consideration according to the wireless power transfer system implementation; for example, the effects of placing the device, its coils or radiating elements on or near metallic surfaces

6. According to April 2018 TCB Workshop, No need to report E-field measurements. Only H-field required.

7. According to April 2018 TCB Workshop, for inductive applications where the primary does not physically attach (clip, lock on) to the client, and it is intended for desktop use, the desktop guidance in KDB 680106 D01 may be applied.

2.2. Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500	/	/	f/300	6
1,500-100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500	/	/	f/1500	30
1,500-100,000	/	/	1.0	30

F=frequency in MHz

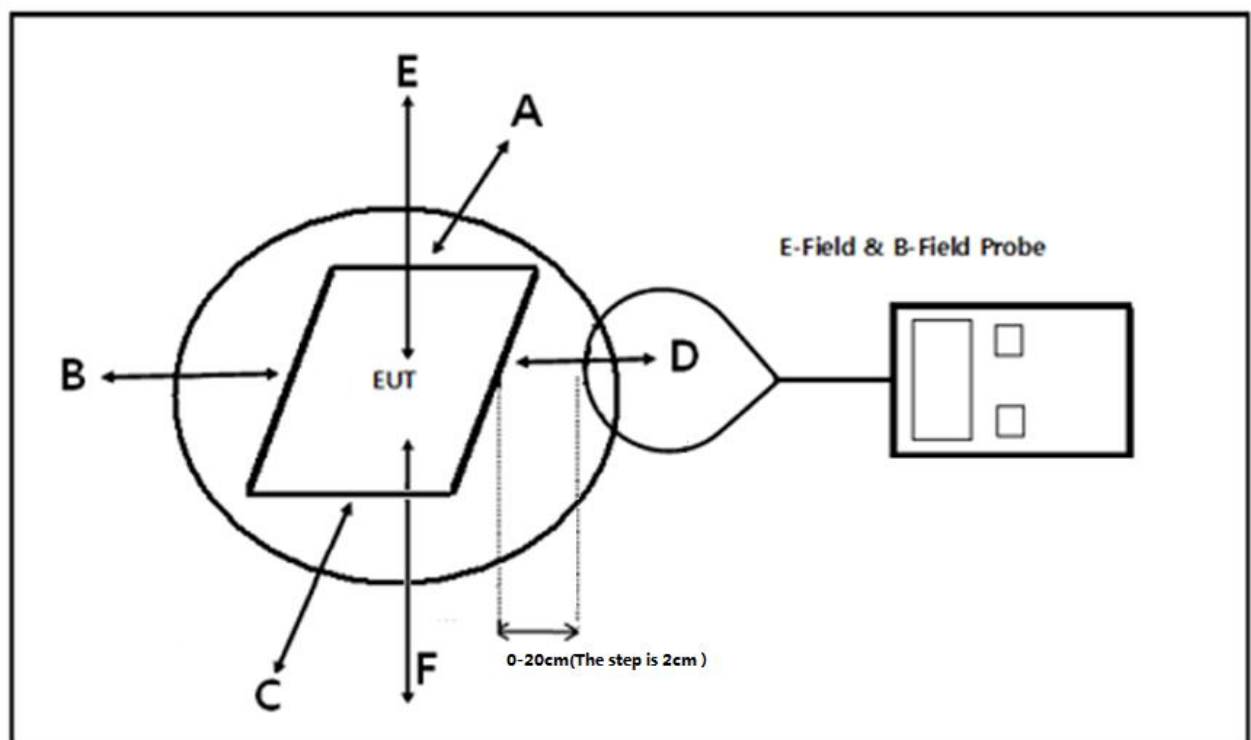
*=Plane-wave equivalent power density

According to FCC KDB 680106 D01 Section 3. RF Exposure Requirements clause 3 the Emission-Limits in the frequency range from 100 KHz to 300 KHz should be assessed versus the limits at 300 KHz in Table 1 of CFR 47 – Section1.310 as following (measured distance shall be 0cm from the edge of the probe to the edge of the device):

	E-Field	*/*	B-Field
Frequency	V/m	A/m	uT
0.3 MHz – 3.0 MHz	614	1.613	2.0
3.0 MHz – 30 MHz	824/f (=27.530MHz)	2.19/f (=0.07330MHz)	--

A KDB inquire was required to determine/confirm the applicable limits below 100 KHz.

2.3. Test Setup Diagram



Remark: The ELT-400 probe antenna diameter is 11.3cm

2.4. Measurement Procedure

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (15cm and 20cm) which is between the edges of the charger and the geometric center of probe.
The measurement probe was placed at test distance (0cm) which is between the edge of the charger and the edge of probe.
- c) The turn table was rotated 360 degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- e) The EUT were measured according to the dictates of KDB 680106D01v03.

2.5. Equipment Approval Considerations

The EUT does comply with item 5.2 of KDB 680106 D01v03 as follows table;

Requirements of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operate in the frequency range 115.0 KHz - 205 KHz
Output power from each primary coil is less than or equal to 15 watts.	Yes	The maximum output power of the primary coil is 15W
The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes	The transfer system includes one primary coils.
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	NO	portable exposure
The aggregate H-field strengths at 0 cm and 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	Yes	The EUT H-field strengths at 0 cm surrounding the device and 0 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

In all other cases, unless excluded above, an RF exposure evaluation report must be reviewed and accepted through a KDB or PBA inquiry to enable authorization of the equipment. When evaluation is required to show compliance; for example, using field strength, power density, SAR measurements or computational modeling etc., the specific authorization requirements will be determined based on the results of the RF exposure evaluation.

2.6. Symbols

For the purpose of the present document, the following symbols apply;

B: Magnetic flux

E: Filed strength

H: Magnetic field strength

EAVG = Spatial average of Filed strength

HAVG = Spatial average of Magnetic field strength

B1: Magnetic flux of wireless charge port 1 (Wireless load)

E1: Filed Strength of wireless charge port 1 (Wireless load)

H1: Magnetic field strength of wireless charge port 1 (Wireless load)

2.7. Test Results

Test mode: Normal Operation (Charging mode)

B-filed Strength at 0 cm from the edges surrounding the EUT and 0 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.276	0.273	0.280	0.274	0.279	0.257	-	-
	50%	0.14703	0.275	0.282	0.273	0.273	0.274	0.270	-	-
	99%	0.14703	0.272	0.266	0.273	0.263	0.269	0.267	-	-

E-Filed Strength at 0 cm from the edges surrounding the EUT and 0 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	82.943	82.123	84.166	82.417	83.959	77.210	307.0	614.0
	50%	0.14703	82.628	84.649	82.031	82.004	82.244	81.078	307.0	614.0
	99%	0.14703	81.704	80.124	82.052	78.930	80.738	80.294	307.0	614.0

H-Filed Strength at 0 cm from the edges surrounding the EUT and 0 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.221	0.219	0.224	0.219	0.223	0.205	0.815	1.63
	50%	0.14703	0.220	0.225	0.218	0.218	0.219	0.216	0.815	1.63
	99%	0.14703	0.217	0.213	0.218	0.210	0.215	0.214	0.815	1.63

B-filed Strength at 2 cm from the edges surrounding the EUT and 2 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.235	0.245	0.238	0.232	0.242	0.233	-	-
	50%	0.14703	0.249	0.241	0.249	0.239	0.248	0.249	-	-
	99%	0.14703	0.234	0.242	0.238	0.247	0.234	0.247	-	-

E-Filed Strength at 2 cm from the edges surrounding the EUT and 2 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	70.639	73.782	71.464	69.894	72.902	69.920	307.0	614.0
	50%	0.14703	74.726	72.349	75.010	71.903	74.651	74.750	307.0	614.0
	99%	0.14703	70.337	72.641	71.455	74.309	70.378	74.148	307.0	614.0

H-Filed Strength at 2 cm from the edges surrounding the EUT and 2 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.188	0.196	0.190	0.186	0.194	0.186	0.815	1.63
	50%	0.14703	0.199	0.193	0.200	0.191	0.199	0.199	0.815	1.63
	99%	0.14703	0.187	0.193	0.190	0.198	0.187	0.197	0.815	1.63

B-filed Strength at 4 cm from the edges surrounding the EUT and 4 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.193	0.184	0.184	0.196	0.195	0.199	-	-
	50%	0.14703	0.186	0.184	0.202	0.185	0.194	0.197	-	-
	99%	0.14703	0.183	0.200	0.189	0.183	0.183	0.192	-	-

E-Filed Strength at 4 cm from the edges surrounding the EUT and 4 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	58.158	55.323	55.417	58.953	58.566	59.774	307.0	614.0
	50%	0.14703	56.067	55.183	60.609	55.717	58.463	59.254	307.0	614.0
	99%	0.14703	54.933	60.157	56.828	55.007	55.173	57.774	307.0	614.0

H-Filed Strength at 4 cm from the edges surrounding the EUT and 4 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.155	0.147	0.147	0.157	0.156	0.159	0.815	1.63
	50%	0.14703	0.149	0.147	0.161	0.148	0.156	0.158	0.815	1.63
	99%	0.14703	0.146	0.160	0.151	0.146	0.147	0.154	0.815	1.63

B-filed Strength at 6 cm from the edges surrounding the EUT and 6 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.152	0.154	0.172	0.166	0.165	0.165	-	-
	50%	0.14703	0.170	0.169	0.162	0.152	0.156	0.170	-	-
	99%	0.14703	0.166	0.171	0.161	0.169	0.157	0.164	-	-

E-Filed Strength at 6 cm from the edges surrounding the EUT and 6 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	45.736	46.374	51.651	49.964	49.579	49.496	307.0	614.0
	50%	0.14703	51.147	50.764	48.583	45.818	46.787	51.019	307.0	614.0
	99%	0.14703	49.832	51.445	48.475	50.929	47.178	49.211	307.0	614.0

H-Filed Strength at 6 cm from the edges surrounding the EUT and 6 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.122	0.123	0.137	0.133	0.132	0.132	0.815	1.63
	50%	0.14703	0.136	0.135	0.129	0.122	0.124	0.136	0.815	1.63
	99%	0.14703	0.133	0.137	0.129	0.136	0.126	0.131	0.815	1.63

B-filed Strength at 8 cm from the edges surrounding the EUT and 8 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.135	0.148	0.133	0.147	0.143	0.133	-	-
	50%	0.14703	0.144	0.136	0.133	0.139	0.139	0.142	-	-
	99%	0.14703	0.148	0.138	0.145	0.137	0.152	0.140	-	-

E-Filed Strength at 8 cm from the edges surrounding the EUT and 8 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	40.446	44.505	39.877	44.202	42.984	40.051	307.0	614.0
	50%	0.14703	43.372	40.842	40.013	41.644	41.676	42.738	307.0	614.0
	99%	0.14703	44.491	41.598	43.585	41.320	45.564	42.175	307.0	614.0

H-Filed Strength at 8 cm from the edges surrounding the EUT and 8 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.108	0.118	0.106	0.118	0.114	0.107	0.815	1.63
	50%	0.14703	0.115	0.109	0.106	0.111	0.111	0.114	0.815	1.63
	99%	0.14703	0.118	0.111	0.116	0.110	0.121	0.112	0.815	1.63

B-filed Strength at 10 cm from the edges surrounding the EUT and 10 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.109	0.117	0.114	0.110	0.121	0.120	-	-
	50%	0.14703	0.111	0.116	0.114	0.110	0.102	0.114	-	-
	99%	0.14703	0.106	0.116	0.108	0.119	0.107	0.117	-	-

E-Filed Strength at 10 cm from the edges surrounding the EUT and 10 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	32.657	35.155	34.190	32.924	36.493	36.019	307.0	614.0
	50%	0.14703	33.309	35.004	34.316	32.967	30.754	34.314	307.0	614.0
	99%	0.14703	31.755	34.939	32.497	35.904	32.259	35.148	307.0	614.0

H-Filed Strength at 10 cm from the edges surrounding the EUT and 10 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.087	0.094	0.091	0.088	0.097	0.096	0.815	1.63
	50%	0.14703	0.089	0.093	0.091	0.088	0.082	0.091	0.815	1.63
	99%	0.14703	0.084	0.093	0.086	0.096	0.086	0.094	0.815	1.63

B-filed Strength at 12 cm from the edges surrounding the EUT and 12 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.097	0.084	0.093	0.102	0.082	0.090	-	-
	50%	0.14703	0.101	0.086	0.083	0.102	0.087	0.091	-	-
	99%	0.14703	0.099	0.095	0.088	0.085	0.087	0.097	-	-

E-Filed Strength at 12 cm from the edges surrounding the EUT and 12 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	29.194	25.282	28.060	30.628	24.689	27.077	307.0	614.0
	50%	0.14703	30.308	25.925	25.054	30.615	26.138	27.442	307.0	614.0
	99%	0.14703	29.849	28.689	26.433	25.573	26.212	29.219	307.0	614.0

H-Filed Strength at 12 cm from the edges surrounding the EUT and 12 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.078	0.067	0.075	0.081	0.066	0.072	0.815	1.63
	50%	0.14703	0.081	0.069	0.067	0.081	0.070	0.073	0.815	1.63
	99%	0.14703	0.079	0.076	0.070	0.068	0.070	0.078	0.815	1.63

B-filed Strength at 14 cm from the edges surrounding the EUT and 14 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.079	0.074	0.080	0.066	0.074	0.079	-	-
	50%	0.14703	0.074	0.079	0.073	0.063	0.068	0.071	-	-
	99%	0.14703	0.078	0.079	0.070	0.066	0.073	0.068	-	-

E-Filed Strength at 14 cm from the edges surrounding the EUT and 14 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	23.630	22.340	24.054	19.758	22.356	23.679	307.0	614.0
	50%	0.14703	22.269	23.845	21.968	19.048	20.356	21.317	307.0	614.0
	99%	0.14703	23.597	23.839	21.013	19.875	21.816	20.413	307.0	614.0

H-Filed Strength at 14 cm from the edges surrounding the EUT and 14 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.063	0.059	0.064	0.053	0.059	0.063	0.815	1.63
	50%	0.14703	0.059	0.063	0.058	0.051	0.054	0.057	0.815	1.63
	99%	0.14703	0.063	0.063	0.056	0.053	0.058	0.054	0.815	1.63

B-filed Strength at 16 cm from the edges surrounding the EUT and 16 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.056	0.050	0.051	0.053	0.059	0.057	-	-
	50%	0.14703	0.056	0.056	0.044	0.051	0.054	0.050	-	-
	99%	0.14703	0.060	0.062	0.054	0.045	0.045	0.057	-	-

E-Filed Strength at 16 cm from the edges surrounding the EUT and 16 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	16.867	15.051	15.402	15.966	17.773	17.010	307.0	614.0
	50%	0.14703	16.845	16.774	13.210	15.441	16.207	14.944	307.0	614.0
	99%	0.14703	18.014	18.603	16.319	13.409	13.429	17.212	307.0	614.0

H-Filed Strength at 16 cm from the edges surrounding the EUT and 16 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.045	0.040	0.041	0.042	0.047	0.045	0.815	1.63
	50%	0.14703	0.045	0.045	0.035	0.041	0.043	0.040	0.815	1.63
	99%	0.14703	0.048	0.049	0.043	0.036	0.036	0.046	0.815	1.63

B-filed Strength at 18 cm from the edges surrounding the EUT and 18 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.036	0.031	0.032	0.035	0.034	0.036	-	-
	50%	0.14703	0.037	0.027	0.028	0.030	0.036	0.023	-	-
	99%	0.14703	0.024	0.026	0.041	0.037	0.030	0.039	-	-

E-Filed Strength at 18 cm from the edges surrounding the EUT and 18 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	10.700	9.322	9.671	10.397	10.183	10.863	307.0	614.0
	50%	0.14703	11.033	7.971	8.352	9.004	10.677	7.013	307.0	614.0
	99%	0.14703	7.269	7.801	12.261	11.167	9.074	11.626	307.0	614.0

H-Filed Strength at 18 cm from the edges surrounding the EUT and 18 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.028	0.025	0.026	0.028	0.027	0.029	0.815	1.63
	50%	0.14703	0.029	0.021	0.022	0.024	0.028	0.019	0.815	1.63
	99%	0.14703	0.019	0.021	0.033	0.030	0.024	0.031	0.815	1.63

B-filed Strength at 20 cm from the edges surrounding the EUT and 20 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Measured B-filed Strength Values (uT)						FCC E-Field Strength 50% Limits (uT)	FCC E-Field Strength Limits (uT)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
B1	1%	0.14703	0.011	0.008	0.021	0.010	0.018	0.019	-	-
	50%	0.14703	0.006	0.010	0.004	0.003	0.018	0.016	-	-
	99%	0.14703	0.016	0.015	0.003	0.022	0.014	0.008	-	-

E-Filed Strength at 20 cm from the edges surrounding the EUT and 20 cm above the top surface

Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed E-filed Strength Values (V/m)						FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
E1	1%	0.14703	3.327	2.547	6.315	3.090	5.517	5.693	307.0	614.0
	50%	0.14703	1.909	3.023	1.160	0.970	5.349	4.671	307.0	614.0
	99%	0.14703	4.905	4.511	0.766	6.573	4.251	2.433	307.0	614.0

H-Filed Strength at 20 cm from the edges surrounding the EUT and 20 cm above the top surface

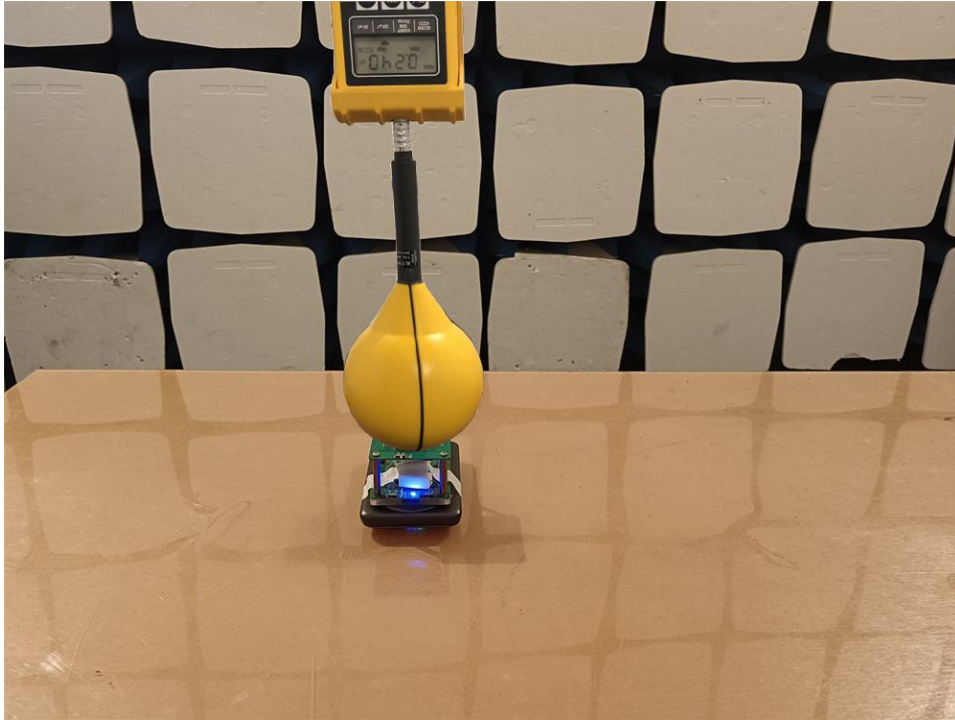
Charge Port	Charging Battery Level	Frequency Range (MHz)	Computed H-filed Strength Values (A/m)						FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F		
H1	1%	0.14703	0.009	0.007	0.017	0.008	0.015	0.015	0.815	1.63
	50%	0.14703	0.005	0.008	0.003	0.003	0.014	0.012	0.815	1.63
	99%	0.14703	0.013	0.012	0.002	0.017	0.011	0.006	0.815	1.63

Note:

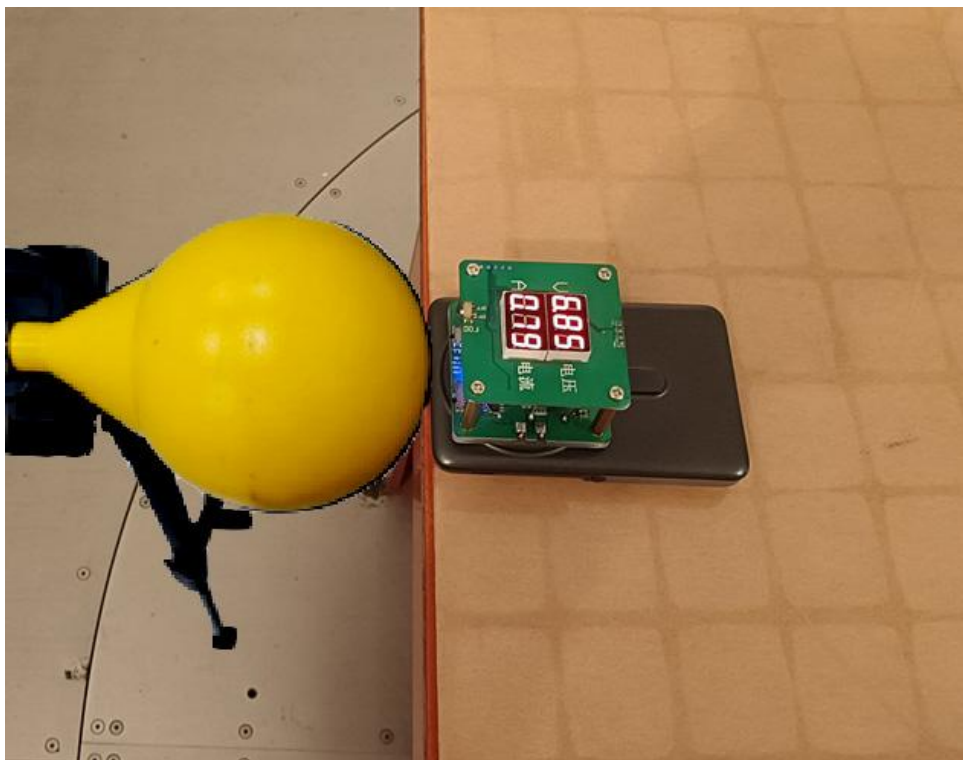
$$V/m = 10^{((dBuV/m) - 120)/20} = 10^{(((dBuA/m + 51.5) - 120)/20)} = 10^{((20 \lg(A/m \cdot 10^6) + 51.5) - 120)/20}$$

$$A/m = uT/1.25$$

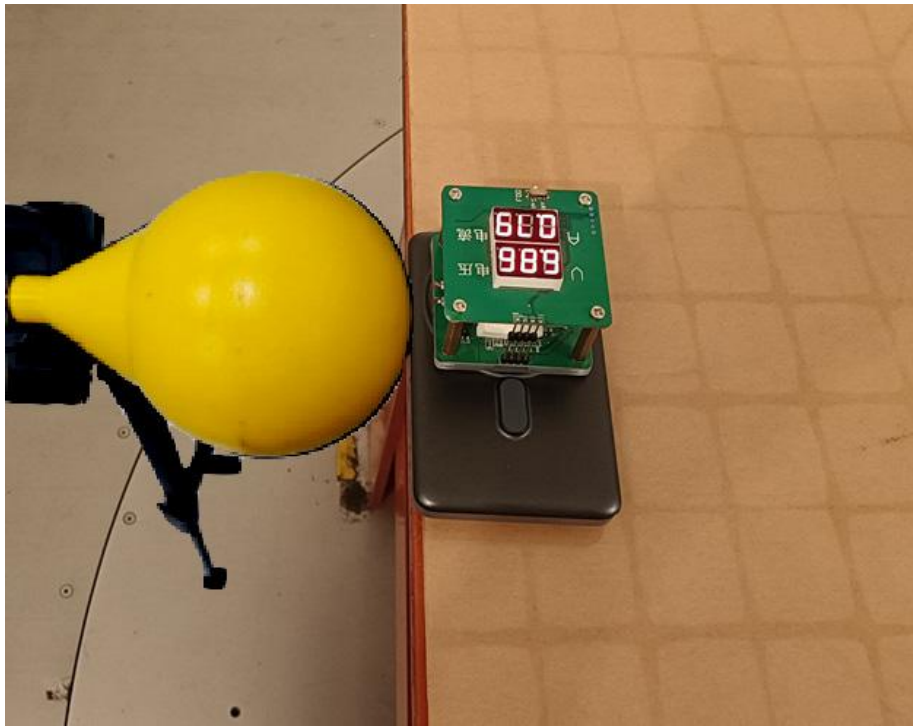
3. Test Setup Photos of the EUT



Test Position A - Exposure photo from top surface (TM1)- 0 cm



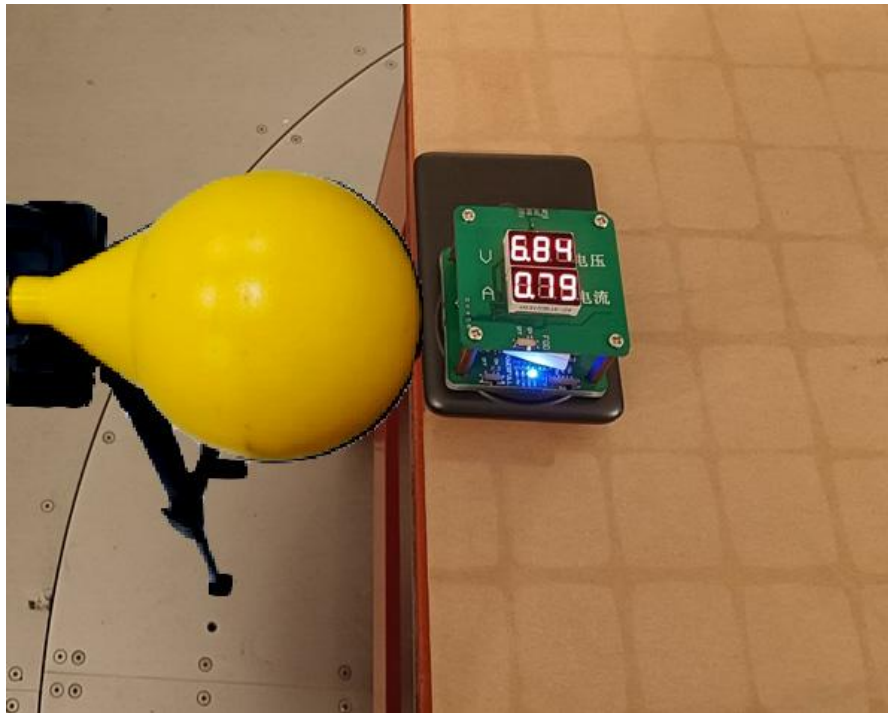
Test Position B - Exposure photo from side edge surface-Rear(TM1) - 0 cm



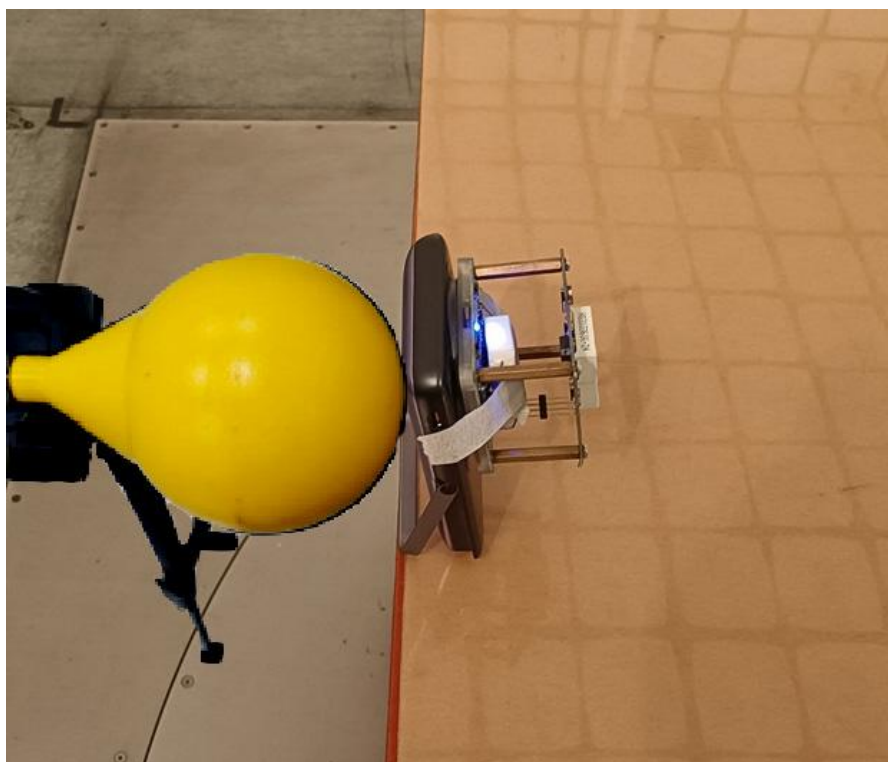
Test Position C - Exposure photo from side edge surface-Left(TM1) - 0 cm



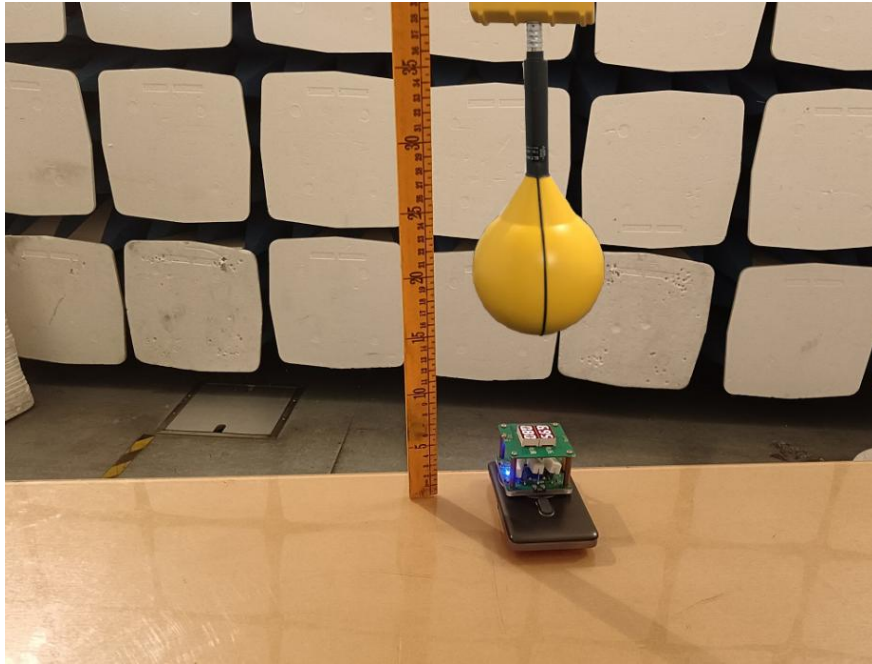
Test Position D - Exposure photo from side edge surface-Front(TM1) - 0 cm



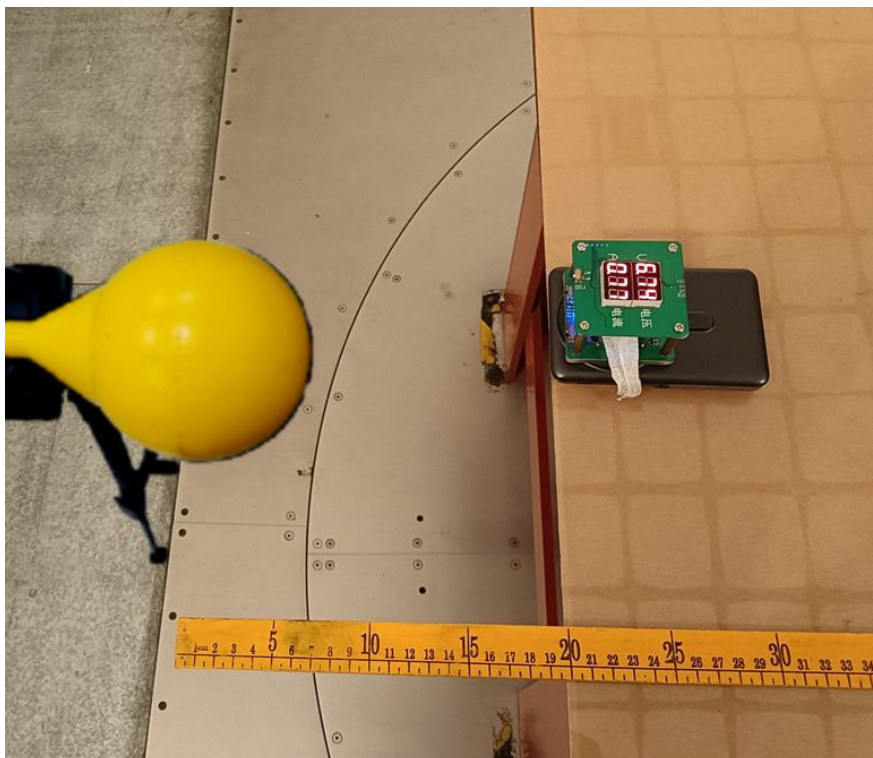
Test Position E - Exposure photo from side edge surface-Right(TM1) - 0 cm



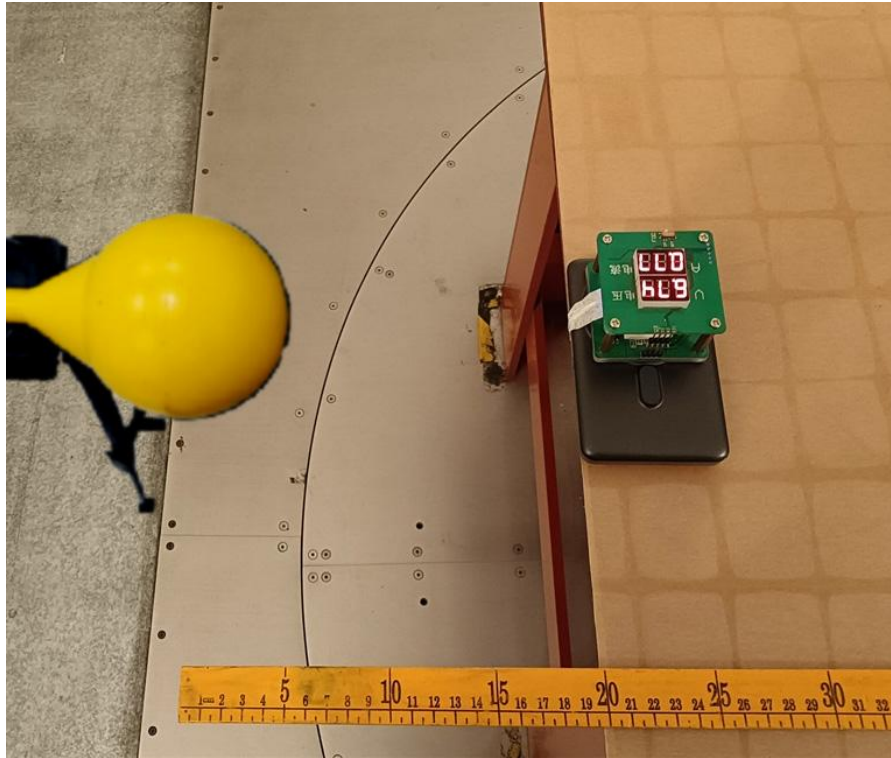
Test Position F - Exposure photo from side edge surface-Back (TM1) - 0 cm



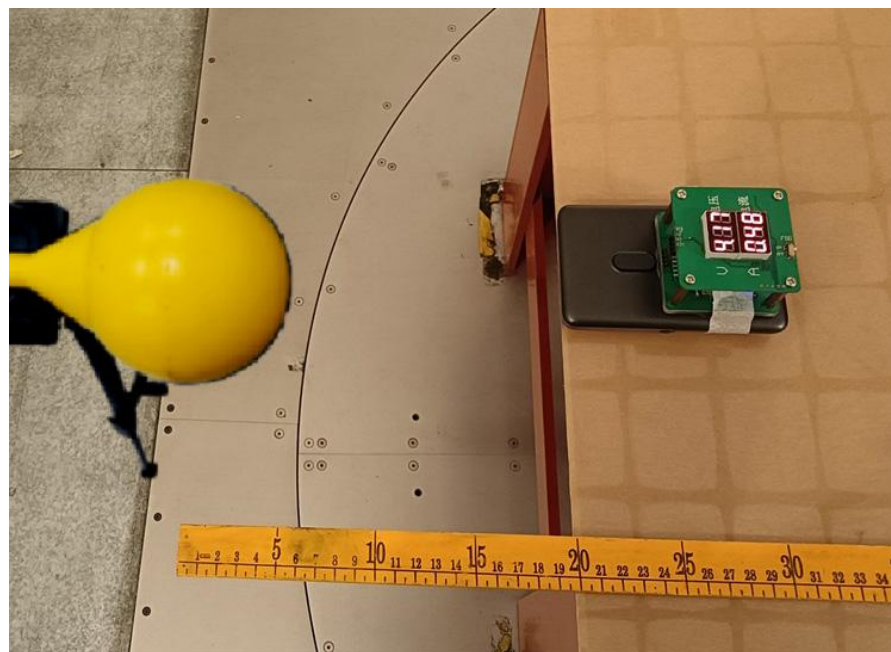
Test Position A - Exposure photo from top surface (TM1) - 20 cm



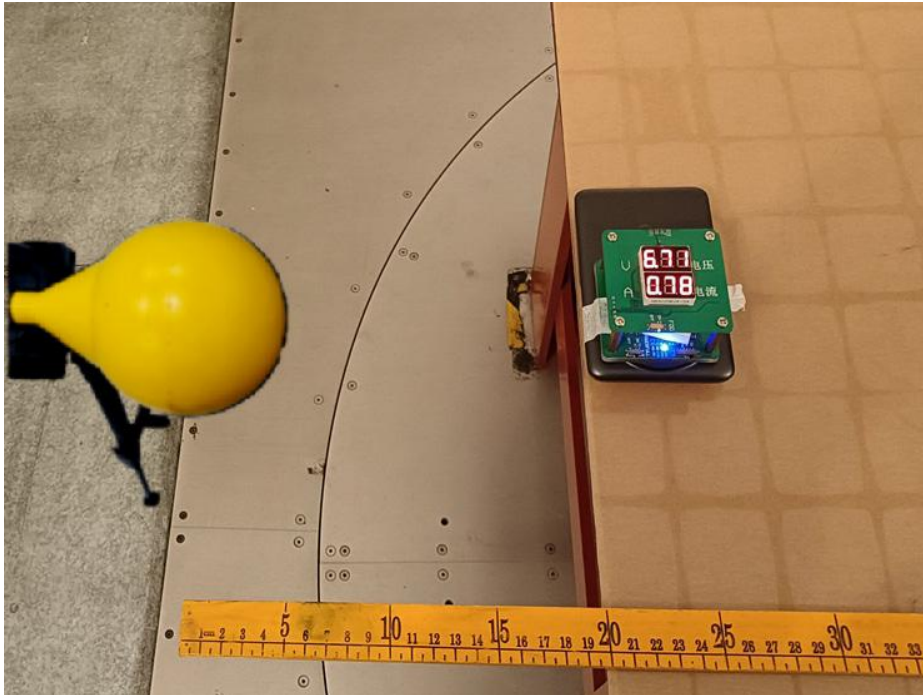
Test Position B - Exposure photo from side edge surface-Rear(TM1) - 20 cm



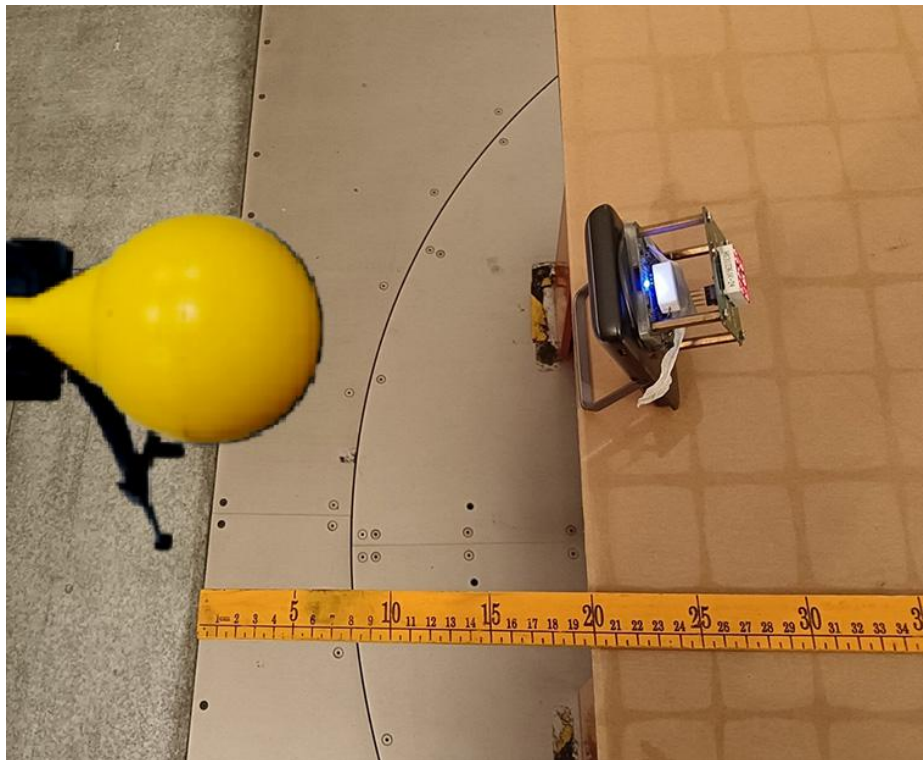
Test Position C - Exposure photo from side edge surface-Left(TM1) - 20 cm



Test Position D - Exposure photo from side edge surface-Front(TM1) - 20 cm



Test Position E - Exposure photo from side edge surface-Right(TM1) - 20 cm



Test Position F - Exposure photo from side edge surface-Back (TM1) - 20 cm

4. Conclusion

A minimum safety distance of at 0 cm surrounding the device and 0 cm above the top surface of the device is required when the device is charging a Wireless load. The detected emissions with a distance of 0 cm surrounding the device and 0 cm above the top surface of the device are below the limitations according to FCC KDB 680106 D01 Section 3. RF Exposure Requirement Clause 3.

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