MPE TEST REPORT

Report No: STS1806118W01

Issued for

TOPMORE TECHNOLOGY INC.

No.1-1, Taiyuan 2nd St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)

Product Name:	Wireless Charging Pad
Brand Name:	TOPMORE
Model Name:	WP-1
Series Model:	N/A
FCC ID:	2ANH6-WP-1
Test Standard:	FCC CFR 47 part 1, 1.1310

Shenzhen STS Test Services Co., Ltd.
1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China
TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail:sts@stsapp.com

TEST RESULT CERTIFICATION

Applicant's name.....:	TOPMORE TECHNOLOGY INC.
Address.....:	No.1-1, Taiyuan 2nd St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)
Manufacture's Name .....:	SHENZHEN Billion Digital CO., LTD
Address.....:	7 floor, R2-A, high tech industrial park, Nanshan district, shenzhen, China

Product description

Product Name .....:	Wireless Charging Pad
Brand Name .....:	TOPMORE
Model Name.....:	WP-1
Series Model .....:	N/A
Standards :	FCC CFR 47 part 1, 1.1310
Test Procedure :	680106 D01 RF Exposure Wireless Charging Apps v03

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Date of performance of tests:	24 Apr. 2018~27 Apr. 2018
Date of Issue :	13 June 2018
Test Result :	**Pass**

Testing Engineer : Chris chen
(Chris chen)

Technical Manager : Sean She
(Sean she)

Authorized Signatory : Vita Li
(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	27 Apr. 2018	STS1804236W01	ALL	Initial Issue
00	13 June 2018	STS1806118W01	ALL	Updated Applicant Company, Product Name, Model Name and Brand

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v03	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.
Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China
CNAS Registration No.: L7649; FCC Registration No.: 625569
IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ±U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	All emissions,radiated(<30M)(9KHz-30MHz)	±2.45dB
2	Temperature	±0.5°C
3	Humidity	±2%

1.3 GENERAL DESCRIPTION OF EUT

Product Name	Wireless Charging Pad
Trade Name	TOPMORE
Model Name	WP-1
Series Model	N/A
Model Difference	N/A
Equipemnt Category	Non-ISM frequency
Operating frequency	110 KHz ~205KHz
Modulation Type	GFSK
Power Adapter	DC 5V
Hardware version number	N/A
Software version number	N/A

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	NOTE
1	TOPMORE	WP-1	Coil	N/A	Antenna

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMF Meter	NARDA	ELT-400	N-0342	2017.10.23	2018.10.22

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time |E|²,|H|² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time |E|²,|H|² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

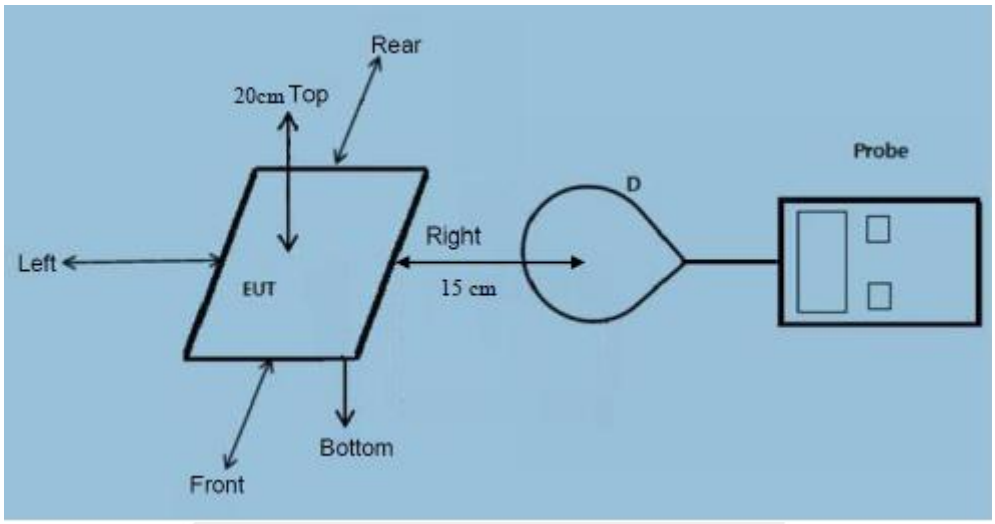
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: The aggregate H-field strengths at 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 .

2.2 TEST PROCEDURE

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 15cm(Edge). 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 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.

2.3 TEST SETUP



2.4 Test results

The EUT does comply with item 5 KDB680106 D01 v03.

(1) Power transfer frequency is less than 1 MHz.
(Conform)

(2) Output power from each primary coil is less than or equal to 15 watts.
(Conform)

(3) 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.
(Conform)

(4) Client device is placed directly in contact with the transmitter.
(Conform)

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
(Conform)

(6) The aggregate H-field strengths at 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.
(Conform)

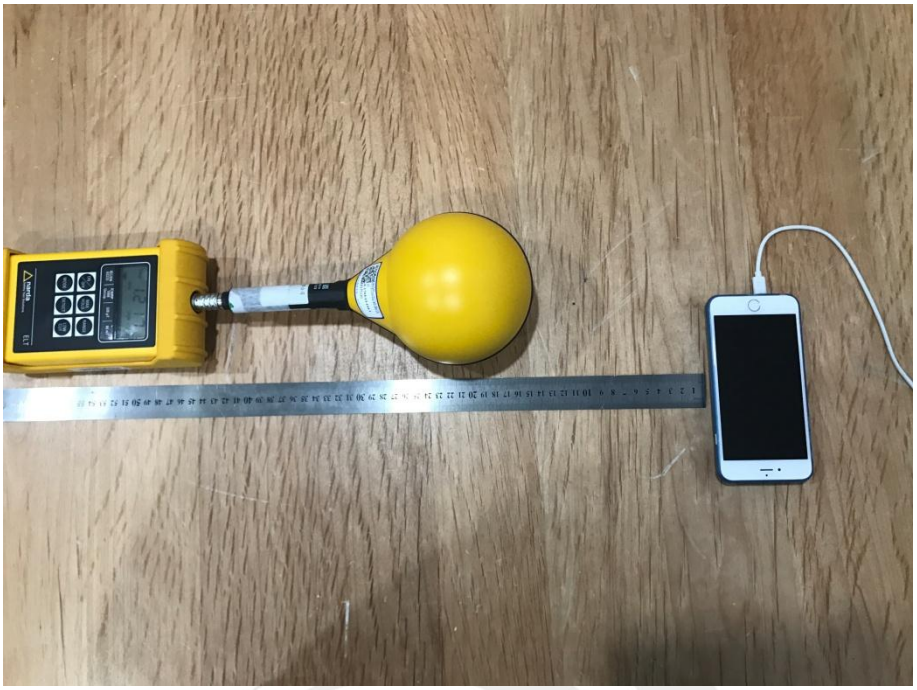
2.4 MAXIMUM PERMISSIBLE EXPOSURE

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
< 1% Battery	15cm	Front	0.441	0.117
< 1% Battery	15cm	Rear	0.432	0.115
< 1% Battery	15cm	Left	0.431	0.103
< 1% Battery	15cm	Right	0.445	0.120
< 1% Battery	20cm	Top	0.453	0.124
Limit			614	1.63
Margin Limit (%)			0.074%	7.6%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
50% Battery	15cm	Front	0.443	0.105
50% Battery	15cm	Rear	0.422	0.109
50% Battery	15cm	Left	0.431	0.120
50% Battery	15cm	Right	0.433	0.111
50% Battery	20cm	Top	0.450	0.125
Limit			614	1.63
Margin Limit (%)			0.073%	7.7%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
＞99% Battery	15cm	Front	0.445	0.110
＞99% Battery	15cm	Rear	0.431	0.115
＞99% Battery	15cm	Left	0.422	0.107
＞99% Battery	15cm	Right	0.435	0.120
＞99% Battery	20cm	Top	0.448	0.123
Limit			614	1.63
Margin Limit (%)			0.073%	7.5%

MPE SETUP PHOTO



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