

Maximum Permissible Exposure

FCC ID : 2AA7Y-MOSHIQI001
Equipment : Otto Q wireless charging pad
Brand Name : moshi
Model Name : otto Q
Applicant : Aevoe Inc.
27F., NO.68, Sec. 5, Zhongxiao E. Rd., Xinyi Dist.,
Taipei City 11065, Taiwan
Manufacturer : Powergene Technology Co., Ltd. Taiwan Branch
1F-5, No.1, Wuquan 1st Rd., Xinzhuang Dist.,
New Taipei City, Taiwan
Standard : 47 CFR Part 2.1091

The product was received on Jun. 29, 2018, and testing was started from Jul. 27, 2018 and completed on Jul. 27, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB680106 D01 RF Exposure Wireless Charging Apps v03 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of United States government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FA862906	01	Initial issue of report	Aug. 16, 2018

Reviewed by: Sam Tsai

Report Producer: Amber Chiu

1 Human Exposure Assessment

1.1 Maximum Permissible Exposure

1.1.1 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/ cm ²)	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 ²)*	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/ cm ²)	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 ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	F/1500	30
1500-100,000	-	-	1.0	30
Note 1: f = frequency in MHz ; *Plane-wave equivalent power density				
Note 2: For the applicable limit, see FCC 1.1310				

1.1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2.1091
- ♦ KDB680106 D01 RF Exposure Wireless Charging Apps v03

1.2 Testing Location Information

Testing Location				
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.		
		TEL : 886-3-327-3456 FAX : 886-3-327-0973		
Test site Designation No. TW1190 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Randy	22.5°C / 61.5%	27/Jul/2018

1.3 Accessories

Accessories Information				
USB Cable	Brand Name	moshi	Model Name	1700000237
	Power Rating	1 meter, Shielded cable, without ferrite core		

Note: Regarding to more detail and other information, please refer to user manual.

1.4 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	R33002 / DOC
2	Adapter for NB	DELL	HA65NM130	R35737 / DOC
3	DC Power Supply	GW	GPS-3030DD	N/A
4	IPhone	Apple	MRRM2TA/A	N/A

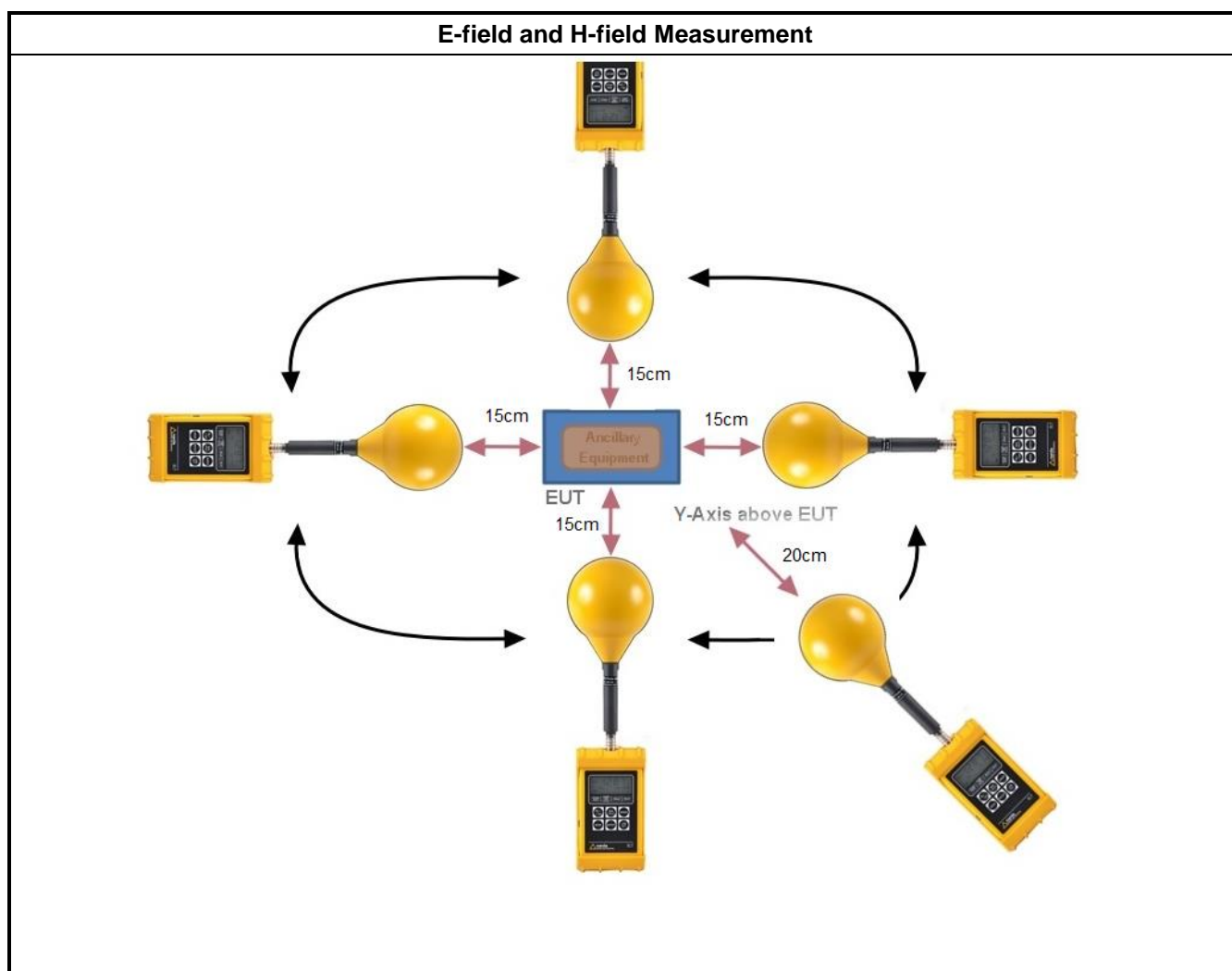
1.5 The Worst Condition

Ancillary Equipment	Charging Condition	Worst Charging Condition
The Phone	Charging Mode	Charging Mode

1.5.1 Test Method

Test Method
<input checked="" type="checkbox"/> Performed aggregate both leakage E-field and H-field at surrounding the device from all simultaneous transmitting coils.
<input checked="" type="checkbox"/> During testing, the EUT was placed on a non-conductive table top and the ancillary equipment (e.g., mobile phone) was placed on the EUT for charging. Maximum E-field and H-field measurements were tested 10cm from each side of the EUT. Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

1.5.2 Test Setup



1.5.3 Result of Maximum Permissible Exposure

Maximum Permissible Exposure				
Charging Condition	Separation	Probe from EUT Side	E-field (V/m)	H-field Limit (A/m)
Operating	15cm	Left	0.41	0.001
Operating	15cm	Right	0.43	0.001
Operating	15cm	Top	0.46	0.001
Operating	15cm	Bottom	0.48	0.001
Operating	20cm	Y-axis above EUT	0.36	0.001
Limit			614	1.63
Margin Limit (%)			0.08%	0.08%



2 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Probe	ETS-LINDGREN	HI-6005	00052473	0.1 MHz - 6 GHz	23/Apr/2018	22/Apr/2019