Maximum Permissible Exposure

FCC ID	:	**2AA7Y-MOSHIQI003**
Equipment	:	**porto Q 5K**
Brand Name	:	**moshi**
Model Name	:	**99MO022213 & 99MO022212**
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 Sep. 18, 2018, and testing was started from Sep. 20, 2018 and completed on Sep. 20, 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
FA891729	01	Initial issue of report	Oct. 02, 2018
FA891729	02	Revised model name and update photographs of EUT. (This report is the latest version replacing for the report issued on Oct. 02, 2018.)	Oct. 18, 2018

Reviewed by: Jackson Tsai

Report Producer: Michelle Tsai

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/ 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	($900 / f^2$)*	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/ 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	($180/f^2$)*	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 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
99MO022213	All the models are identical, the difference model as marketing strategy.
99MO022212	

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

1.3 Testing Location Information

Testing Location					
☒	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	Andy	24.5°C / 64%	20/Sep/2018

1.4 Accessories

Accessories Information				
USB Cable	**Brand Name**	moshi	**Model Name**	1700000239
	Signal Line	0.5 meter, Shielded cable, without ferrite core		

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

1.5 Support Equipment

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	iPhone	Apple	A1905	BCG-E3172A

1.6 The Worst Condition

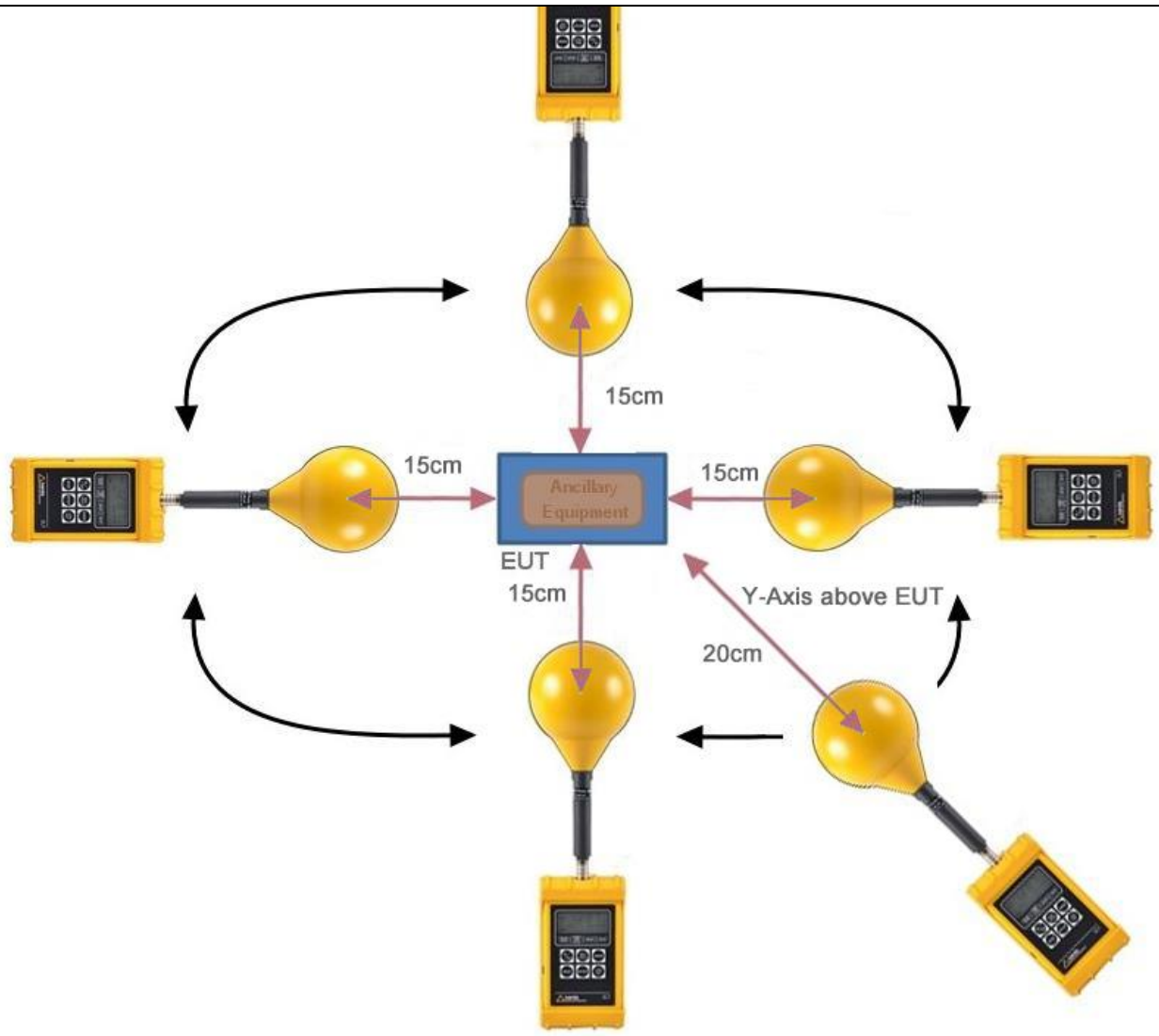
Ancillary Equipment	Charging Condition	Worst Charging Condition
The Phone	Charging Mode	Charging Mode

1.6.1 Test Method

Test Method	
☒	Performed aggregate both leakage E-field and H-field at surrounding the device from all simultaneous transmitting coils.
☒	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.
☒	E-field transfer to H-field
-	E-field = Z_0 × H-field H-field = E-field ÷ Z_0 Where Z_0 = Free Space Impedance = 377Ω

1.6.2 Test Setup

E-field and H-field Measurement



Note1 : find worst position for each axis.
Note2 : This shall be measured as the distance from the edge of the device to the center of the measurement probe.

1.6.3 Result of Maximum Permissible Exposure

Maximum Permissible Exposure				
Charging Condition	**Separation**	**Probe from EUT Side**	**E-field (V/m)**	**H-field (A/m)**
Operating	15cm	Left	0.45	0.001
Operating	15cm	Right	0.63	0.002
Operating	15cm	Top	0.54	0.001
Operating	15cm	Bottom	0.53	0.001
Operating	20cm	Y-axis above EUT	0.44	0.001
Limit			614	1.63
Margin Limit (%)			0.10%	0.10%

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