



Human Exposure Report

Application No.: SZEM2006005236CR (SHEM2004003089CR)
FCC ID: 2AA7Y-MOSHIQI007
Applicant: AEVOE INC.
Address of Applicant: 27F, No.68 Zhong Xiao E. Rd, Sec. 5, Taipei City, 11065, Taiwan
Manufacturer: AEVOE INC.
Address of Manufacturer: 27F, No.68 Zhong Xiao E. Rd, Sec. 5, Taipei City, 11065, Taiwan
Factory: PEI YING INDUSTRIAL CO., LTD
 No.7, Wuquan 1st Rd., Xinzhuang Dist., New Taipei City 242, Taiwan
Address of Factory: (R.O.C.)
Equipment Under Test (EUT):
EUT Name: otto Q Wireless Charging Pad
Model No.: 99MO022219
Trade Mark: Moshi
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2020-04-24
Date of Test: 2020-05-09 to 2020-05-16
Date of Issue: 2020-05-28

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.


Keny Xu
EMC Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2020-05-28	/

Authorized for issue by:			
		 <hr/> Foray Chen /Project Engineer	
		 <hr/> Eric Fu /Reviewer	





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3 General Information

3.1 Details of E.U.T.

Power supply: Input: DC 5V/9V/12V/15V Max 2A by adapter
 Serial Number: BK20335500A
 Firmware Version: N/A
 Test voltage: AC 120V 60Hz
 Cable: DC Cable 1m for USB Port
 Wireless Output: Output: DC 5V/5W,5V/7.5W,9V/10W,12V/15W
 Operation frequency: 120kHz to 130kHz
 Antenna type: Inductive Loop Coil Antenna
 Modulation Type: FSK

3.2 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Serial No.
Load	provided by client	N/A	N/A
Mobile Phone	Samaung	Galaxy S8	N/A
Mobile Phone	Xiaomi	Xiaomi 10 Pro	N/A
Mobile Phone	Apple	Iphone 11 Pro	N/A
Adapter	Lanto Electronic Ltd.	191106C	/

Adapter Information

Power supply:	Input: AC100~240V 50/60Hz Output: DC 5V/3A,9V/3A,12V/3A or DC 15V/3A,20V/3.25A
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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date (yyyy-mm-dd)
1	Shielding Room	SAEMC	MSR733	SEM001-09	2021-05-09
2	EMF Tester	Narda	ELT-400	SZE039-4	2020-07-07



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5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
 Measurement Distance: 15 cm for surrounding the device and 20 cm for above the top surface.
 Test voltage Input:DC 5V/DC 9V/DC 12V/DC 15V,
 Wireless Output:5V/5W;5V/7.5W;9V/10W;12V/15W
 Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
(B) 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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
 *=Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).





E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device has been tested the worst status(AC input) of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

Measurement Data:

1: When use three type load to test, the worst case is Output Voltage=DC 12V; The max output power =15W;Calculation of resistor value=9.6Ω (DC 12V/1.25A)

Electric Field Emissions

Test Position	Operating Frequency	Test Distance (cm)	Probe Measure Result (V/m)	Limit (V/m)	50% Limit (V/m)
Side 1	129.45KHz	15	8.53	614	307
Side 2	129.45KHz	15	8.32	614	307
Side 3	129.45KHz	15	8.37	614	307
Side 4	129.45KHz	15	8.43	614	307
Top	129.45KHz	20	8.44	614	307
Bottom	129.45KHz	15	8.49	614	307

Magnetic Field Emissions

Test Position	Operating Frequency	Test Distance (cm)	Probe Measure Result (A/m)	Limit (A/m)	50% Limit (A/m)
Side 1	129.45KHz	15	0.098	1.63	0.815
Side 2	129.45KHz	15	0.102	1.63	0.815
Side 3	129.45KHz	15	0.104	1.63	0.815
Side 4	129.45KHz	15	0.096	1.63	0.815
Top	129.45KHz	20	0,121	1.63	0.815
Bottom	129.45KHz	15	0.099	1.63	0.815





2: Mobile phone has been charge at zero charge, intermediate charge, and full charge. The Maximum value has been recorded in the below table.(DC 12V 15W)

Electric Field Emissions

Test Position	Operating Frequency	Test Distance (cm)	Probe Measure Result(V/m)			Limit(V/m)/ 50%Limit(V/m)
			zero charge	intermediate charge	full charge	
Side 1	129.45KHz	15	6.32	6.79	7.15	614/307
Side 2	129.45KHz	15	6.29	7.11	7.32	614/307
Side 3	129.45KHz	15	6.64	6.84	7.19	614/307
Side 4	129.45KHz	15	6.29	6.32	7.29	614/307
Top	129.45KHz	20	7.49	8.21	8.18	614/307
Bottom	129.45KHz	15	6.59	7.39	7.01	614/307

Magnetic Field Emissions

Test Position	Operating Frequency	Test Distance (cm)	Probe Measure Result(A/m)			Limit(A/m)/ 50%Limit(A/m)
			zero charge	intermediate charge	full charge	
Side 1	129.45KHz	15	0.0718	0.0812	0.0910	1.63/0.815
Side 2	129.45KHz	15	0.0912	0.0919	0.0942	1.63/0.815
Side 3	129.45KHz	15	0.0832	0.0916	0.0981	1.63/0.815
Side 4	129.45KHz	15	0.0884	0.0810	0.0921	1.63/0.815
Top	129.45KHz	20	0.1716	0.2197	0.1982	1.63/0.815
Bottom	129.45KHz	15	0.1109	0.12198	0.1198	1.63/0.815

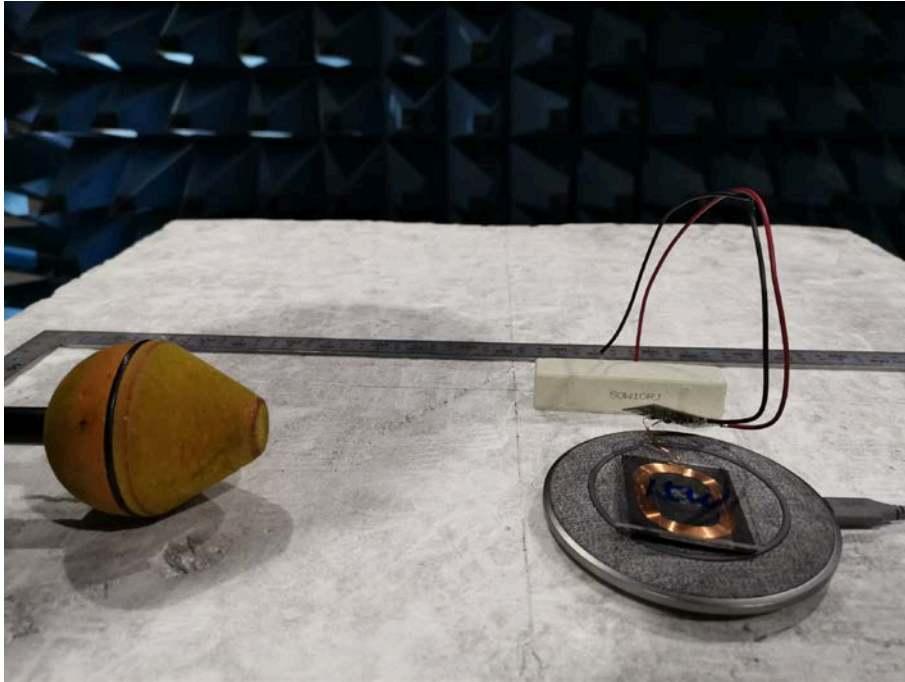


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6 Photographs

6.1 Test photos

Side 1



Side 2



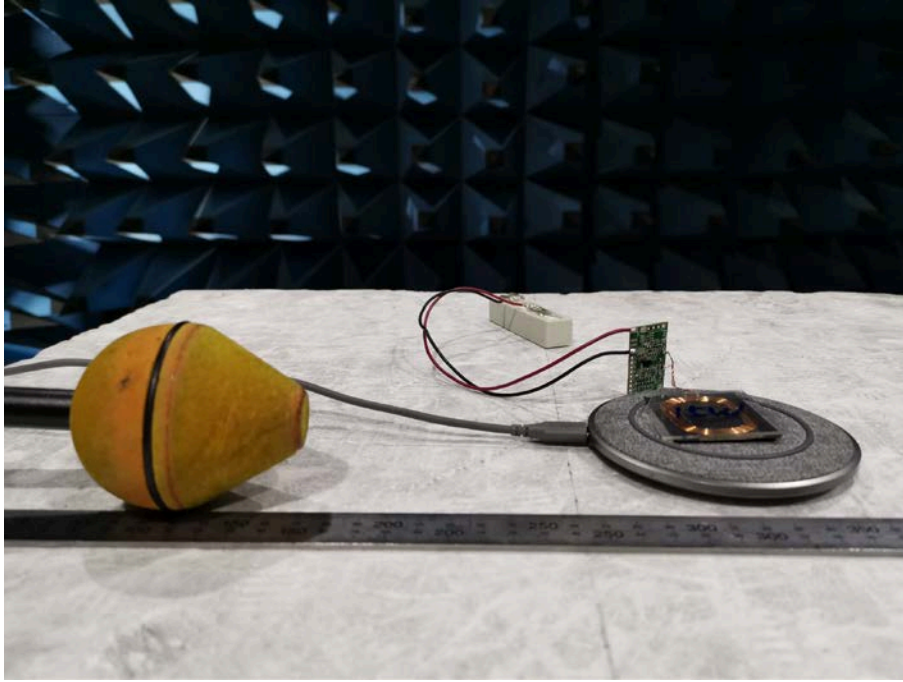


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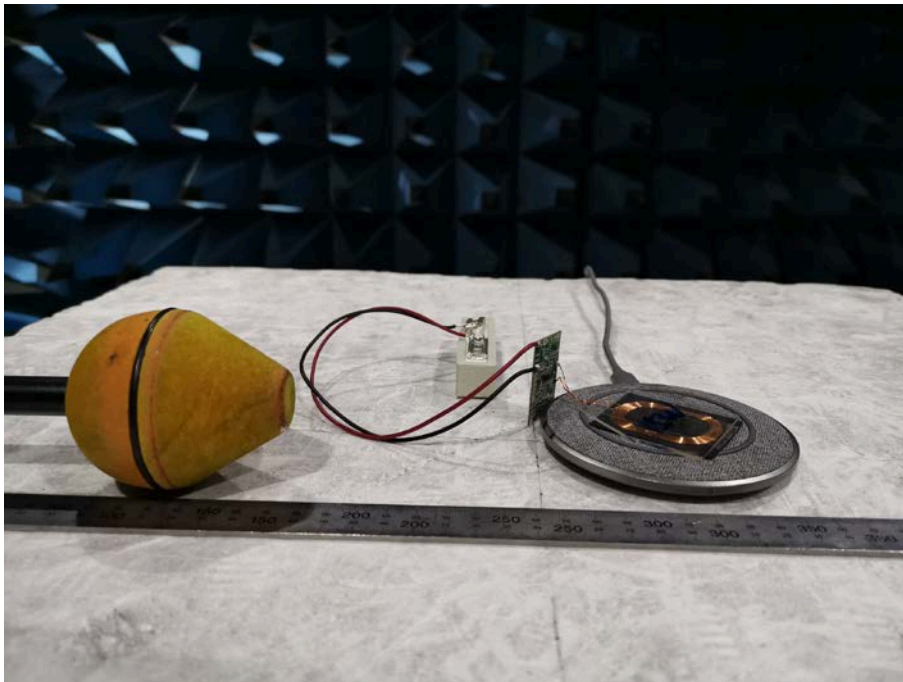
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Side 3



Side 4





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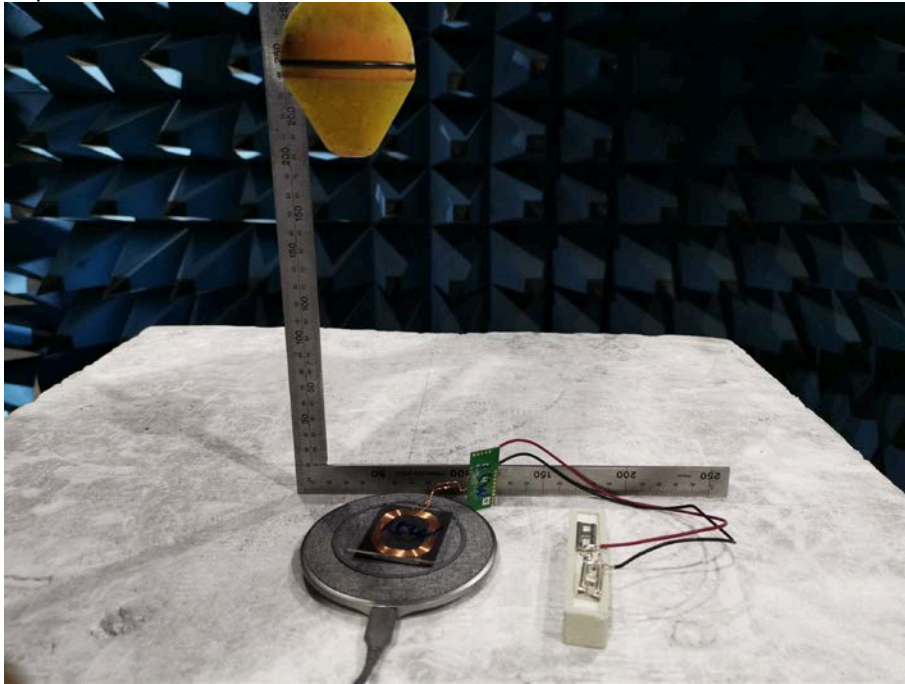


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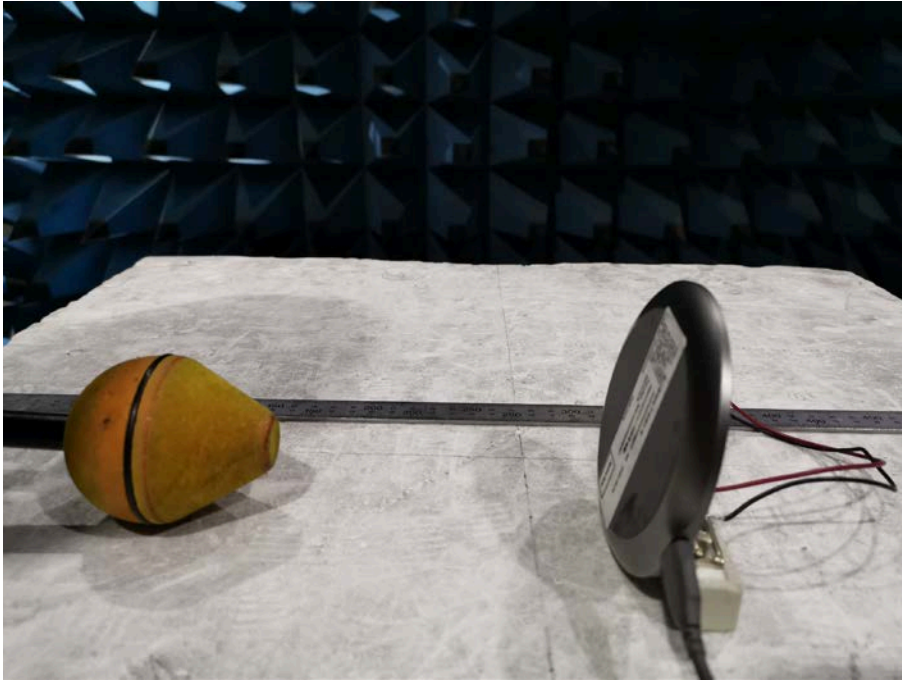
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- End of the Report -



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