

RF EXPOSURE REPORT For FCC ID: 2AN8FMSL-M6023Q

Product Name:	UVC Sterilizer w/ Wireless Power Bank
Trademark:	N/A
Model Number:	MSL-M6023Q 7121-78
Prepared For :	ShenZhen Mossloo Industrial CO., Ltd.
Address :	Road One No.4, Science Industrial Park, Shangxue Village, Bantian Street, Longgang District, Shenzhen, China
Prepared By :	Shenzhen BCTC Testing Co., Ltd.
Address :	BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
Test Date:	Jul. 29, 2020 to Aug. 4, 2020
Date of Report :	Aug. 5, 2020
Report No.:	BCTC2007002342-1E



TEST RESULT CERTIFICATION

Applicant's name:	ShenZhen Mossloo Industrial CO., Ltd.			
Address:	Road One No.4, Science Industrial Park, Shangxue			
	Village, Bantian Street, Longgang District, Shenzhen,			
	China			
Manufacture's Name:	ShenZhen Mossloo Industrial CO., Ltd.			
Address:	Road One No.4, Science Industrial Park, Shangxue			
	Village, Bantian Street, Longgang District, Shenzhen,			
	China			
Product description				
Product name:	UVC Sterilizer w/ Wireless Power Bank			
Trademark:	N/A			
Model and/or type reference :	MSL-M6023Q			
	7121-78			
Serial Model :	N/A			
Power	Battery: DC 3.7V			
Supply :	Input:DC5V/2A USB Output: DC5V/2A			
	Wireless Output: 5W			
Standards	FCC CFR 47 part1, 1.1307(b), 1.1310			

This device described above has been tested by BCTC, and the test results show that the equipment under And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of BCTC, this document may be altered or revised by BCTC, personal only, and shall be noted in the revision of the document.

Prepared by(Engineer):	Willem Wang	Willem Woing
Reviewer(Supervisor):	Eric Yang	2 MARPROVED
Approved(Manager):	Zero Zhou	Contraction of the second seco



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1. GENERAL INFORMATION

1.1. Independent Operation Mode

The basic operation mode is:

- 1.1.1. Charging
- 1.2. Test Supporting System

Mobile phone Model No. : iphone8P



2.LIST OF TEST AND MEASUREMENT INSTRUMENTS

2.1. For conducted emission at the mains terminals test

Equipment	Manufacturer Model No. Serial N		Serial No.	Last Cal.	Next Cal.	
Exposure	Nordo ELT 400		N 0224	Jul. 07, 2020	Jul. 06, 2021	
Level Tester	Narda	ELT-400	N-0231	001. 07, 2020	001.00,2021	
Magnetic field	Neude	B-Field Probe	10075	Jul. 07, 2020	Jul. 06, 2021	
probe 100cm2	Narda	100cm2	M0675	5ul. 07, 2020	501. 00, 2021	
843 Chamber	ETS	843	84301	Aug. 27, 2020	Aug. 26, 2023	



3. METHOD OF MEASUREMENT

3. 1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

3. 2. Test Modes

Test Modes

keeping TX+Charging mode

3. 3. MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

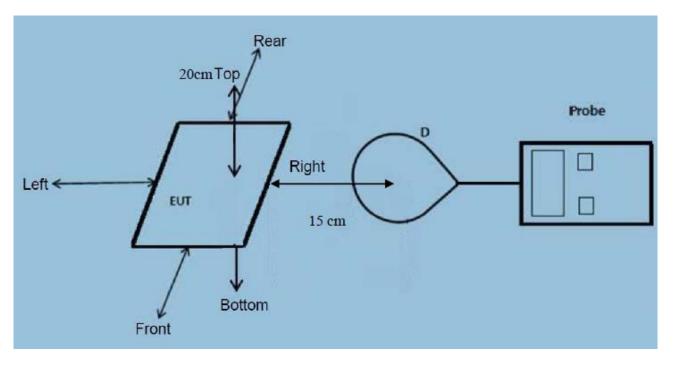
	Limits for Occupational / Controlled Exposure									
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)						
0.3-3.0	614	1.63	(100)*	6						
3.0-30	1842 / f	4.89 / f	(900 / f)*	6						
30-300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



4. TEST RESULT

4.1. Conducted Emission at the Mains Terminals Test



Note: 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

Test 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) which is between the edge of the charger and the geometric centre of probe.

c) The turn table was rotated 360d 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) were completed.

e) The EUT were measured according to the dictates of KDB 680106D01v03.



4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 D01v03

- 1) Power transfer frequency is less than 1MHz Yes, the device operate in the frequency range from 112-220KHz
- 2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 5W.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

Yes, the transfer system includes only single primary and secondary coils.

4) Client device is inserted in or placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter.

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

Yes, the EUT is a Next Integrated Wireless Charger.

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.

Yes, the EUT field strength levels are 10% x MPE limit.



4.3. E and H field Strength

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery	Frequency	Test	Test	Test	Test	Test	10% Limits	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Test (V/m)	Test
		А	В	С	D	Е		(V/m)
1%	0.112-0.220	0.36	0.37	0.39	0.30	0.29	61.4	614
50%	0.112-0.220	0.32	0.41	0.35	0.38	0.40	61.4	614
99%	0.112-0.220	0.24	0.26	0.27	0.24	0.21	61.4	614

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery	Frequency	Test	Test	Test	Test	Test	10%	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Limits Test	Test
		А	В	С	D	Е	(A/m)	(A/m)
1%	0.112-0.220	0.038	0.034	0.037	0.030	0.031	0.163	1.63
50%	0.112-0.220	0.032	0.030	0.035	0.031	0.040	0.163	1.63
99%	0.112-0.220	0.033	0.035	0.027	0.024	0.029	0.163	1.63

E-Field Strength at 0 cm surrounding the EUT and 0cm above the top surface of the EUT

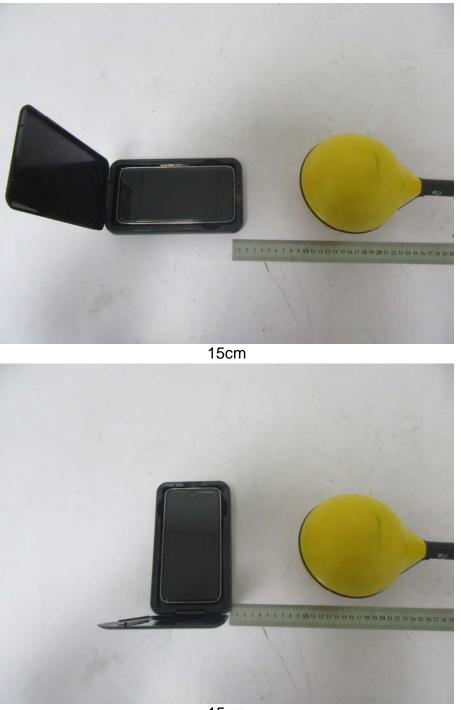
Battery	Frequency	Test	Test	Test	Test	Test	10% Limits	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Test (V/m)	Test
		А	В	С	D	Е		(V/m)
1%	0.112-0.220	0.52	0.50	0.53	0.52	0.49	61.4	614
50%	0.112-0.220	0.49	0.47	0.45	0.48	0.43	61.4	614
99%	0.112-0.220	0.27	0.29	0.30	0.28	0.23	61.4	614

H-Field Strength at 0 cm surrounding the EUT and 0cm above the top surface of the EUT

Battery	Frequency	Test	Test	Test	Test	Test	10%	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Limits Test	Test
		А	В	С	D	Е	(A/m)	(A/m)
1%	0.112-0.220	0.060	0.056	0.054	0.052	0.055	0.163	1.63
50%	0.112-0.220	0.038	0.041	0.039	0.040	0.046	0.163	1.63
99%	0.112-0.220	0.035	0.033	0.030	0.027	0.032	0.163	1.63

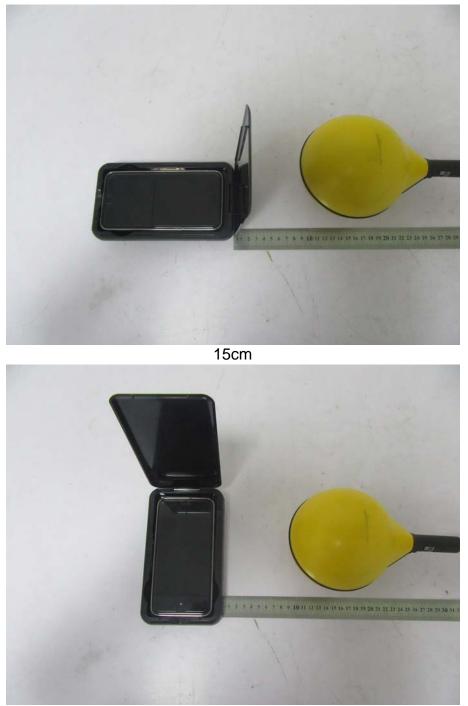


5. Photographs of test set-up



15cm





15cm



Report No.: BCTC2007002342-1E



20cm



0cm





0cm



0cm





0cm



0cm

******* END OF REPORT ******