



Human Exposure Report

Application No.: SZCR2104020531AT
Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.
Address of Applicant: 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, shenzhen, 518026 China
Manufacturer: SHENZHEN DNS INDUSTRIES CO., LTD.
Address of Manufacturer: 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China
Factory: 1. HUIZHOU D&S CABLE CO., LTD.
2. HUI ZHOU DNS TECHNOLOGY CO., LTD.
3. D AND S INDUSTRIES (PHILIPPINES) CORPORATION
Address of Factory: 1. Longjin Dongjiang Industry Zone Shuikou, Huicheng, Huizhou, Guangdong, China
2. 5 Dongshun South Road, Dongjiang Hi-tech Industrial Park, Zhongkai Hi-tech Zone, Huizhou City, Guangdong, China
3. 1 to 5 Orient Goldcrest Suntrust Ecotown Building 2, Lot 8 Block 8, Sahud Ulan, Suntrust Ecotown Tanza, Region IV-A, Cavite, Philippines
Equipment Under Test (EUT):
EUT Name: WIRELESS CHARGER, iWatch portable charger with USB A cable
iWatch portable charger with USB C cable
Model No.: WD-254A, WD-254B, 699396 ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: DNS, omars, mbest, NOVOO, KEYMOX, Infinitive
FCC ID: ZBCWD254A
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2021-04-14
Date of Test: 2021-04-17 to 2021-04-26
Date of Issue: 2021-04-26

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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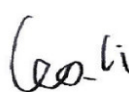
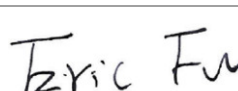
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Report No.: SZCR210402053102
Page: 2 of 9

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-04-26		Original

Authorized for issue by:				
				
		Leo Li/Project Engineer		
				
		Eric Fu/Reviewer		



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2 Contents

1	COVER PAGE	1
2	CONTENTS	3
3	GENERAL INFORMATION	4
3.1	DETAILS OF E.U.T.	4
3.2	DESCRIPTION OF SUPPORT UNITS	5
3.3	TEST LOCATION	6
3.4	TEST FACILITY	6
3.5	DEVIATION FROM STANDARDS	6
3.6	ABNORMALITIES FROM STANDARD CONDITIONS	6
4	EQUIPMENTS USED DURING TEST	7
5	TEST RESULTS	8
5.1	RF EXPOSURE TEST	8
5.1.1	E.U.T. Operation	8



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3 General Information

3.1 Details of E.U.T.

Power adapter:	Input: DC 5V, 1A Output: DC 5V, 0.5A(2.5W)
Power supply:	Input: DC 5V, 1A Output: 2.5W(Max)
Operation frequency:	326.5kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Declaration of EUT Family Grouping:

Model No.: WD-254A, WD-254B, 699396

Only the model WD-254B was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on input port, circuitry about power input, product name, and trade mark.

Details see below:

Trade mark	Product name	Model number	input port	circuitry about power input
DNS,omars,mbest,NOVOO, KEYMOX	Wireless Charger for Apple Watch, Watch Magnetic Charger	WD-254A	USB A	See note
DNS,omars,mbest,NOVOO, KEYMOX	Wireless Charger for Apple Watch, Watch Magnetic Charger	WD-254B	TYPE C	See note
Infinitive	Wireless Charger for Apple Watch, Watch Magnetic Charger	699396	USB A	See note



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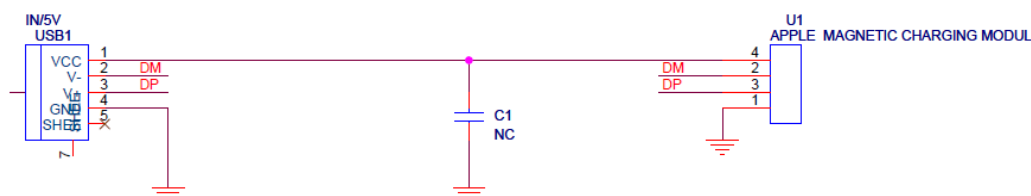
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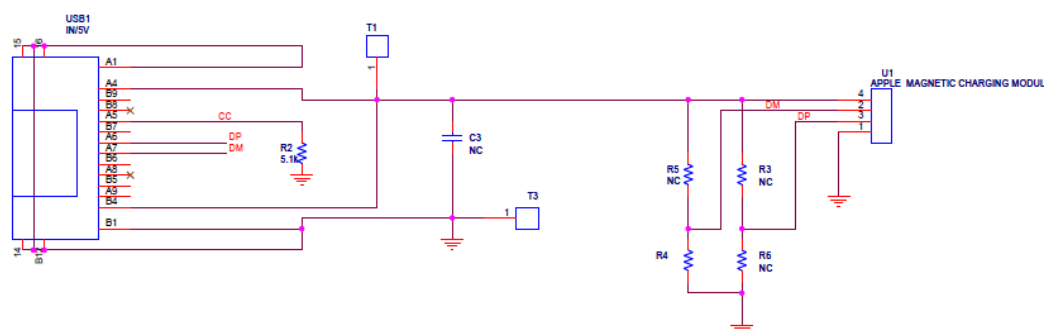
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Note :

circuitry about USB A port



circuitry about TYPE C port



3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iwatch	Apple	Series5	N/A
Adapter	Apple	A1357	REF. No.SEA0501C



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3.3 Test Location

All tests were performed at:

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

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

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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
1	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2021-11-26
2	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-03-22



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5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 15cm

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).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1015 mbar

This device has been tested the worst status of full load and the device has been tested with iwatch at zero charge, intermediate charge, and full charge.



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Output Voltage=DC 5V; The max output power =2.5W;

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
326.5 kHz	15	Side 1	0.1625	0.815
		Side 2	0.1732	0.815
		Side 3	0.1645	0.815
		Side 4	0.1722	0.815
		Top	0.1612	0.815

Iwatch has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
326.5 kHz	15	Side 1	0.1819	0.1571	0.1343	0.815
		Side 2	0.1908	0.1550	0.1410	0.815
		Side 3	0.1758	0.1551	0.1368	0.815
		Side 4	0.1803	0.1538	0.1328	0.815
		Top	0.1431	0.1646	0.1477	0.815

- End of the Report -



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