



Human Exposure Report

Application No.: SZEM2004003253CR
Applicant: Shenzhen Shuo Yu Technology co.,LTD
Address of Applicant: 30F East Block, Wenhua Building,1027 Shennan East Road, Luohu District, Shenzhen, Guangdong, China
Manufacturer: Shenzhen Shuo Yu Technology co.,LTD
Address of Manufacturer: 30F East Block, Wenhua Building,1027 Shennan East Road, Luohu District, Shenzhen, Guangdong, China
Factory: Shenzhen Shuo Yu Technology co.,LTD
Address of Factory: 30F East Block, Wenhua Building,1027 Shennan East Road, Luohu District, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: UV Disinfection Lamp Alarm Clock Wireless Charger
Model No.: SY-W0290, SY-W0290-1 ♣
♣ Please refer to section 3.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Pointuch
FCC ID: 2ATLB-SY-W0290
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2020-04-29
Date of Test: 2020-05-06 to 2020-05-26
Date of Issue: 2020-05-27

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

Kenx. Xu

Kenx Xu
EMC Laboratory Manager



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Shenzhen Branch

Report No.: SZEM200400325303
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-05-27		Original

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



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3 General Information

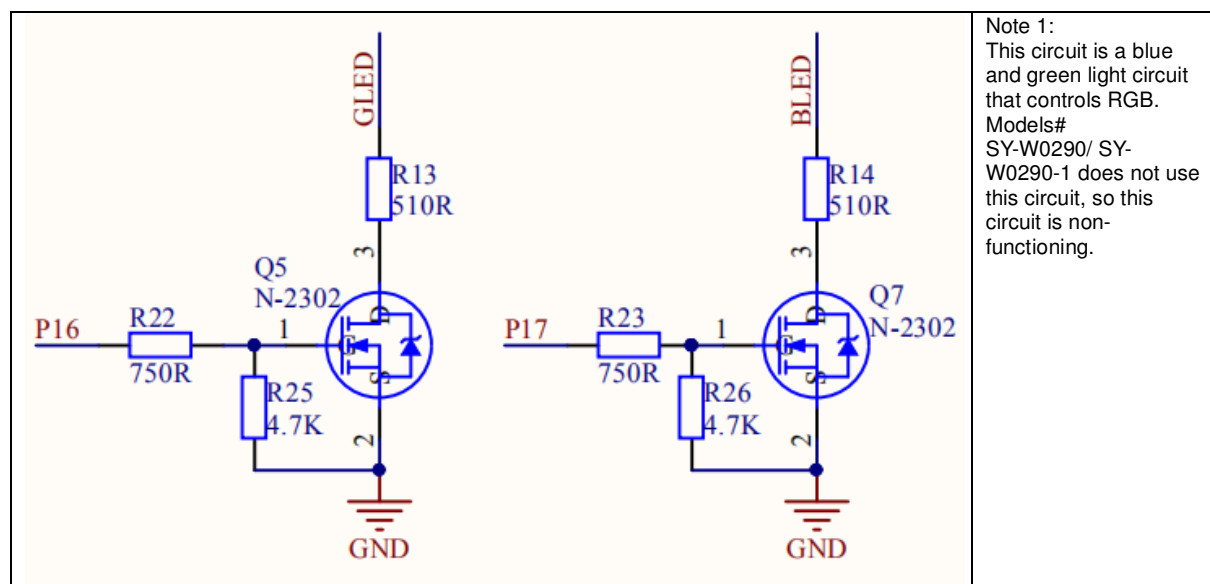
3.1 Details of E.U.T.

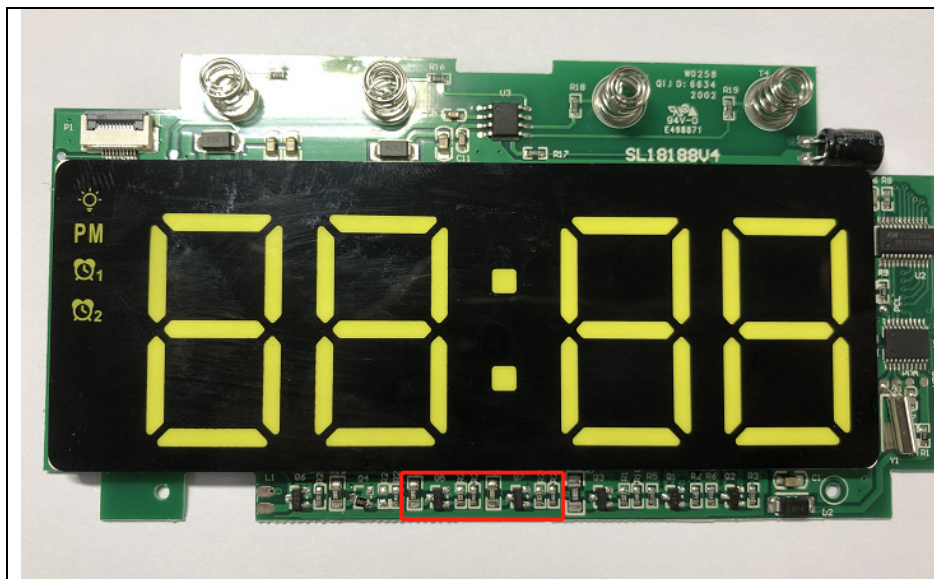
Power Supply:	3V DC (1 x 3V "CR2032" Button cell) for clock Back-up Input: Type-C Port DC 5V/2.65A(MAX), 9V2.5A(MAX) Output: USB Port: DC 5V/1A(MAX) WPC: 5W(DC 5V/1A); 7.5W(DC 5V/1.5A); 10W(DC 9V/1.1A)
Cable:	Type C cable: 100cm unshielded
Operation Frequency:	111.06kHz to 171.96kHz
Modulation Type:	Load modulation
Antenna Type:	Loop antenna
Remark:	This device has been tested the worst status of full load and the device has been tested with load at 5W,7.5W and 10W, the worst case 10W(9V/1.1A) is reported only.

Remark:

Model No.: SY-W0290, SY-W0290-1

Only the model SY-W0290 was tested. Since 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 as below:





Note 2:

SY-W0290 Lamp

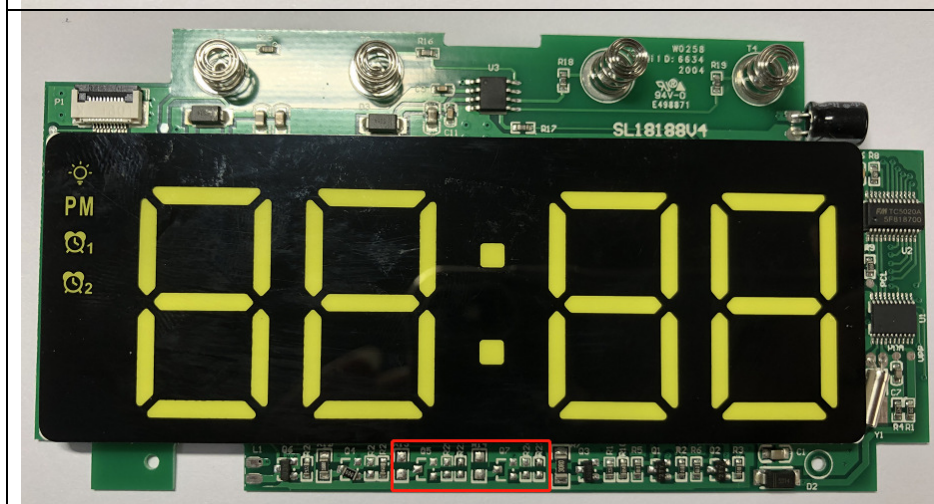
Board Picture (with

8pcs SMT

component:

Q5/Q7/R22/R23/R25/R

26/R13/R14



Note 3:

SY-W0290-1 Lamp

Board Picture (without

8pcs SMT component:

Q5/Q7/R22/R23/R25/R

26/R13/R14



3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	SAMSUNG	EP-TA200	R37J8YA7W71DK3
Dummy Load	Client supply	N/A	N/A
iPhone 8	Apple	A1863	F4GVQ656JC6D
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB

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.



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3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2020-06-10
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-11-27



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

EUT Operation:

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



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5.1.2 Measurement Data

Output Voltage=DC 9V; The max output power =10W;Calculation of resistor value=8.1Ω

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
128.23 kHz	15	Side 1	0.0790	0.815
		Side 2	0.0846	0.815
		Side 3	0.0751	0.815
		Side 4	0.0828	0.815
		Top	0.0563	0.815

Mobile phone 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	
128.23 kHz	15	Side 1	0.0796	0.0774	0.0729	0.815
		Side 2	0.0855	0.0816	0.0787	0.815
		Side 3	0.0736	0.0714	0.0732	0.815
		Side 4	0.0813	0.0786	0.0757	0.815
		Top	0.0585	0.0542	0.0496	0.815

6 Photographs

6.1 Test setup photos

Please refer to RF exposure test setup photo.

- End of the Report -