

Report No.: FYCR220500018503

Page: 1 of 12

RF EXPOSURE EVALUATION REPORT

Application No.: FYCR2205000185AT

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: Alarm Clock Wireless Charger

Model No.: SYW0258

FCC ID: 2ATLB-SYW0258

Standard(s): 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2022-05-20

Date of Evaluation: 2022-05-24 to 2022-06-02

Date of Issue: 2022-06-09

Evaluation Result: Pass*







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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



Report No.: FYCR220500018503

Page: 2 of 12

	Revision Record						
Version	Version Chapter Date Modifier Re						
01		2022-06-09		Original			

Authorized for issue by:			
	Tree Zhan		
	Tree Zhan/Project Engineer	-	
	WinkeyWarg		
	Winkey Wang/Reviewer	-	



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Report No.: FYCR220500018503

Page: 3 of 12

2 Evaluation Summary

Radio Spectrum Matter Part								
Item	Standard	Method	Requirement	Result				
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310	KDB 680106 D01 TCB Workshop Presentation November 2019 RF Exposure	CFR 47 Part 1.1310	Pass				

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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Report No.: FYCR220500018503

Page: 4 of 12

3 Contents

		Page
1 (Cover Page	1
2 I	Evaluation Summary	3
3 (Contents	4
4 (General Information	5
4.1	Details of E.U.T	5
4.2		
4.3	· · · · · · · · · · · · · · · · · · ·	
4.4	Measurement Uncertainty	6
5 I	Equipments Used during Test	6
5.1	Evaluating Location	7
5.2		
5.3	2 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	
5.4	Abnormalities from Standard Conditions	8
5.5	Test Block Diagram	٤ ٤
6 -	Test Results	g
6.1	RF Exposure test	g
(6.1.1 E.U.T. Operation	
(6.1.2 Measurement Data	
7 I	Photographs- RF exposure Setup photos	12



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Report No.: FYCR220500018503

Page: 5 of 12

4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC 5V/3A, DC 9V/3A, DC 12V/2A	
	3V DC(3V x 1 "CR2032" Button Cell)	
	Wireless Output: 15W (MAX)	
	USB Output: DC 5V/1A (MAX)	
Cable(s):	Type-C cable: 100cm unshielded	
Operation frequency:	110.2kHz to 128.8kHz	
Modulation type:	Load modulation	
Antenna type:	Loop Antenna	

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.				
Adapter	Huawei	HW-05920CHQ	K68247GBP14582				
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00				
iPhone 8	Apple	A1863	REF. No.SEA16J00				
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	REF. No.SEA16M01				
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00				
E-loading	SGS	N/A	REF. No.SEA42A00				



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Report No.: FYCR220500018503

Page: 6 of 12

4.3 Test modes description:

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty	
RF Exposure Evaluation	MF: 0.13dB, EF: 0.4dB	

5 Equipments Used during Test

RF Exposure					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi- Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Electric and Magnetic Field Probe - Analyzer(3kHz-30MHz)	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1



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Report No.: FYCR220500018503

Page: 7 of 12

5.1 Evaluating Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

5.2 Facility

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

A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.





Report No.: FYCR220500018503

Page: 8 of 12

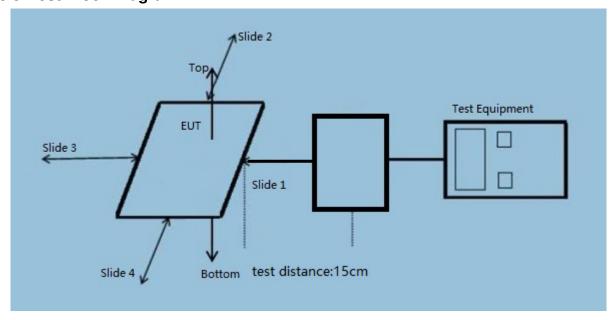
5.3 Deviation from Standards

None

5.4 Abnormalities from Standard Conditions

None

5.5 Test Block Diagram





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Report No.: FYCR220500018503

Page: 9 of 12

6 Test Results

6.1 RF Exposure test

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

Measurement Distance: 15cm

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	cy range Electric field strength Magnetic field strength (V/m) (A/m)		Power density (mW/cm²)	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 Genera	l Population/Uncontrolle	ed 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

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).

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

 $S = power density (mW/cm^2)$

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)



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^{*=}Plane-wave equivalent power density



Report No.: FYCR220500018503

Page: 10 of 12

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 51.4% RH Atmospheric Pressure: 1010 mbar

EUT Operation:

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



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Report No.: FYCR220500018503

Page: 11 of 12

6.1.2 Measurement Data

Mode 03:

The max output 1 power =15W

Magnetic Field Emissions

Operation frequency	Test Distance	Test Position	Probe	Measure Resu	50 % Limit (A/m)	10 % Limit (A/m)	
	(cm)		unload	Half load	full load		
127.2 kHz		Side 1	0.106	0.118	0.142		
which is the worst		Side 2	0.121	0.134	0.162		
case	15	Side 3	0.102	0.116	0.141	0.815	0.100
within the	15	Side 4	0.127	0.147	0.173	0.615	0.163
operation frequency range		Тор	0.126	0.140	0.170		

Magnetic Field Emissions

Operation	Test Distance	Toot	Probe Measure Result(A/m)			Probe Measure Result(A/m)		50 % Limit	10 % Limit
Operation frequency	(cm)	Test Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)		
124.3 kHz	124.3 kHz	Side 1	0.145	0.122	0.097		0.163		
which is the worst		Side 2	0.171	0.144	0.114				
case	15	Side 3	0.140	0.118	0.093	0.015			
within the	15	Side 4	0.174	0.146	0.116	0.815			
operation frequency range		Тор	0.179	0.151	0.120				



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Report No.: FYCR220500018503

Page: 12 of 12

7 Photographs- RF exposure Setup photos

Refer to Appendix - RF Exposure Setup Photo for FYCR2205000185AT

- End of the Report -



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