

RF EXPOSURE EVALUATION REPORT

Application No.: FYCR2210000423AT
Applicant: Scosche Industries Inc.
Address of Applicant: 1550 Pacific Ave. Oxnard CA 93033 USA
Manufacturer: Scosche Industries Inc.
Address of Manufacturer: 1550 Pacific Ave. Oxnard CA 93033 USA
Factory: AQUILSTAR TECHNOLOGY (VIET NAM) CO.,LTD
Address of Factory: Hamlet Ve, Dong Tam Commune, Ninh Giang District, Hai Duong Province, Viet Nam.

Equipment Under Test (EUT):

EUT Name: BaseLynx 2.0 Watch Magnetic Charger for Apple Watch®
Model No.: BL2AW, BL2AWWT-AP, BL2AWWT-XV ♣
♣ Please refer to section 2 of this report which indicates which model was actual tested and which were electrically identical.

Trade Mark: 

FCC ID: IKQBL2AW

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

Date of Receipt: 2022-10-27

Date of Evaluation: 2022-11-03 to 2023-11-16

Date of Issue: 2023-11-19

Evaluation Result:	Pass*
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* In the configuration evaluated, the EUT complied with the standards specified above.



EMC Technical Manager



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Shenzhen Branch

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000042302

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-11-19		Original

Authorized for issue by:			
		<i>Tree Zhan</i>	
		Tree Zhan/Project Engineer	
		<i>Winkey Wang</i>	
		Winkey Wang/Reviewer	



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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.

Declaration of EUT Family Grouping:

Model No.: BL2AW, BL2AWWT-AP, BL2AWWT-XV

Only the model BL2AW was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on color and market needs.

Details as below.

BL2AWWT-AP: Gift box

BL2AWWT-XV: Gift box with premium sleeve



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC Socket Input: 100-240V 50/60Hz 2.5A AC output:100-240V 50/60Hz 1.5A Output: 5V1A
Test voltage:	AC 120V/60Hz
Cable(s):	AC cable: 180cm shielded
Operation frequency:	325.4-327.8kHz & 1.77616-1.77936MHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Watch	Apple	Series 5	REF. No.SEA32A00
Watch	Apple	A2474	REF. No.SEA32A01
E-Loading	SGS	N/A	REF. No.SEA42A00

4.3 Test modes description:

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge mode_Keep the EUT charging(5W)

4.4 Measurement Uncertainty

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



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4.5 Evaluating Location

All tests were performed at:

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Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



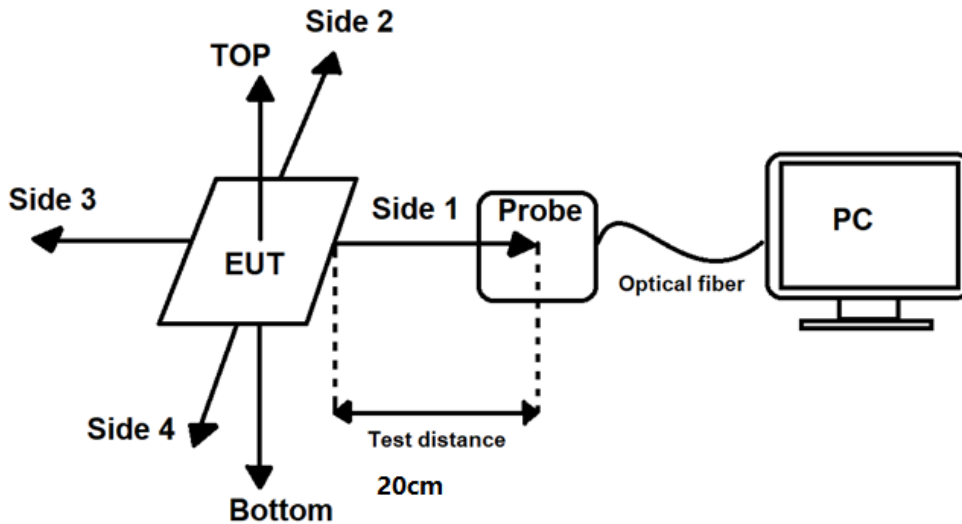
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5 Equipments Used during Test

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
				2023/4/1	2024/3/31

5.1 Test Block Diagram



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6 Test Results

6.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
 Measurement Distance: 20cm
 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)	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).

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/cm²)
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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6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °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.

6.1.2 Measurement Data

For 326.5KHz

Mode 00:

The max output power =5W

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
326.5 kHz which is the worst case within the operation frequency range	20	Side 1	0.1183	0.1372	0.1571	0.815	0.163
		Side 2	0.1105	0.1271	0.1495		
		Side 3	0.1182	0.1335	0.1574		
		Side 4	0.1147	0.1294	0.1512		
		Top	0.1278	0.1473	0.1709		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
326.5 kHz which is the worst case within the operation frequency range	20	Side 1	0.1613	0.1357	0.1075	0.815	0.163
		Side 2	0.1532	0.1292	0.1022		
		Side 3	0.1674	0.1404	0.1115		
		Side 4	0.1631	0.1372	0.1094		
		Top	0.1786	0.1509	0.1193		



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Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			unload	Half load	full load		
326.5 kHz which is the worst case within the operation frequency range	20	Side 1	0.51	0.63	0.78	307	61.4
		Side 2	0.63	0.77	0.89		
		Side 3	0.52	0.61	0.77		
		Side 4	0.54	0.65	0.84		
		Top	0.67	0.75	0.92		

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			zero charge	intermediate charge	full charge		
326.5 kHz which is the worst case within the operation frequency range	20	Side 1	0.79	0.61	0.49	307	61.4
		Side 2	0.86	0.72	0.64		
		Side 3	0.75	0.57	0.49		
		Side 4	0.68	0.55	0.46		
		Top	0.93	0.71	0.61		



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For 1.778MHz:

Mode 00:

The max output power =5W

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
			1.778MHz which is the worst case within the operation frequency range	20	Side 1		
Side 2	0.0722	0.0816	0.0992				
Side 3	0.0314	0.0354	0.0479				
Side 4	0.0723	0.0808	0.0982				
Top	0.0874	0.0983	0.1157				

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
			1.778MHz which is the worst case within the operation frequency range	20	Side 1		
Side 2	0.0924	0.0787	0.0623				
Side 3	0.0397	0.0332	0.0265				
Side 4	0.0933	0.0787	0.0624				
Top	0.1129	0.0965	0.0882				



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			unload	Half load	full load		
1.778MHz which is the worst case within the operation frequency range	20	Side 1	0.53	0.64	0.79	307	61.4
		Side 2	0.62	0.75	0.88		
		Side 3	0.51	0.60	0.78		
		Side 4	0.55	0.67	0.86		
		Top	0.68	0.77	0.94		

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			zero charge	intermediate charge	full charge		
1.778MHz which is the worst case within the operation frequency range	20	Side 1	0.78	0.60	0.47	307	61.4
		Side 2	0.87	0.71	0.63		
		Side 3	0.76	0.56	0.47		
		Side 4	0.72	0.59	0.48		
		Top	0.94	0.73	0.62		



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7 Photographs- RF exposure Setup photos

Refer to Appendix – RF Exposure Setup Photo for FYCR2210000423AT

- End of the Report -



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