



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700283903

Page: 1 of 13

Human Exposure Report

Application No.: SZCR2407002839AT
Applicant: JEM ACCESSORIES INC.
Address of Applicant: 32 Brunswick Avenue Edison New Jersey 08817 New Jersey
Manufacturer: JEM ACCESSORIES INC.
Address of Manufacturer: 32 Brunswick Avenue Edison New Jersey 08817 New Jersey
Factory: Filsion Technology Company Limited
Address of Factory: B13-7C, GuangLong Plaza, PingXin North Road, Longgang district, Shenzhen, China

Equipment Under Test (EUT):
EUT Name: Smart Watch power bank
Model No.: XBB8-1022-WHT
Trade Mark: XTREME
FCC ID: 2AHAS-XBB81022
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2024-07-22
Date of Test: 2024-07-23 to 2024-07-25
Date of Issue: 2024-07-26

Test Result :

Pass*

* In the configuration tested, the EUT complied with the standards specified above

Keny Xu

Ken Xu
EMC Laboratory Manager



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Shenzhen Branch Testing Laboratory

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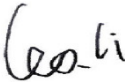
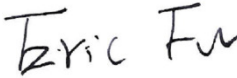
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-07-26		Original

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:	Input: DC 5V Output: 2.5W Lithium Ion Battery: DC 3.7V 1200mAh rechargeable battery which charged by USB port
Cable(s):	USB Cable: 100cm unshielded
Operation frequency:	320.49kHz to 322.59kHz & 1.6687MHz to 1.6824MHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna
Duty cycle:	100%

Remark 1: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Remark 2: the frequency range 320.49kHz to 322.59kHz is for charging Series 5 and 1.6687MHz to 1.6824MHz is for charging A2474.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1443	REF. No.SEA05D11D
Type-C Cable	SGS	N/A	REF. No.SEA07B00
Watch	Apple	Series 5	REF. No.SEA32A00
Watch	Apple	A2474	REF. No.SEA32A01



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3.3 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, 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 (Member No. 1937)**

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.

Shenzhen EMC laboratory 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: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **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 Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-04-01
2	MAGPy-8H3D+E3D	SPEAG	3061	SEM060-31	2025/04/11
3	MAGPy-DAS	SPEAG	3063	SEM060-32	2025/04/11

5 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charging mode_Keep the EUT charging for iWatch(2.5W)(Series 5)
Pre-scan	01	Charging mode_Keep the EUT charging for iWatch(2.5W)(A2474)
Final test	03	Battery Charging + Wireless Charging mode_Keep the battery of the EUT in charging mode and keep the EUT charging for iWatch(2.5W)(Series 5)
Final test	04	Battery Charging + Wireless Charging mode_Keep the battery of the EUT in charging mode and keep the EUT charging for iWatch(2.5W)(A2474)



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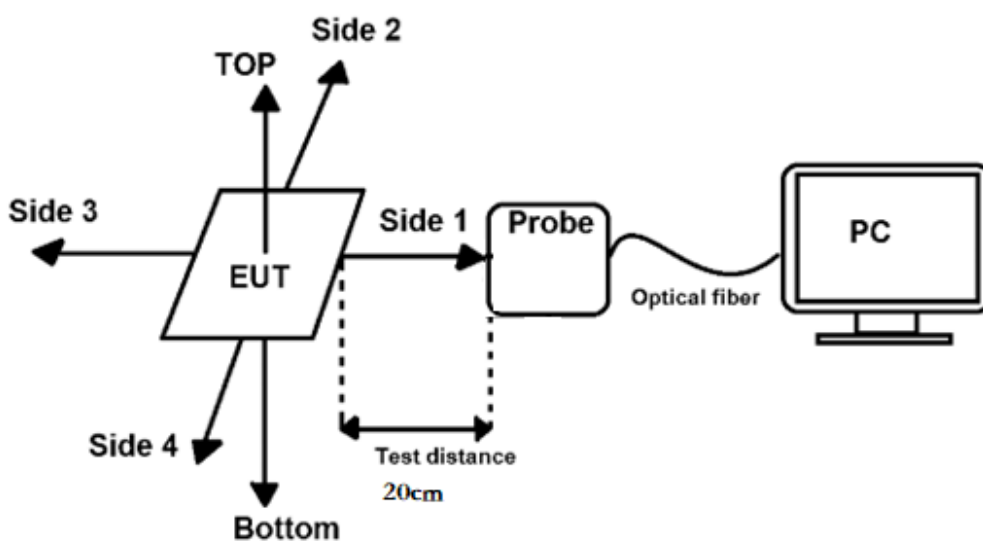
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6 Test Block Diagram



7 Test Results

7.1 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: 20cm

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).

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 52.9 % RH

Atmospheric Pressure: 1020 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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7.1.2 Measurement Data

Mode:03

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		
321.2 KHz which is the worst case within the operation frequency range	20	Side 1	0.038	0.081	0.087	0.815	0.163
		Side 2	0.040	0.041	0.047		
		Side 3	0.034	0.063	0.066		
		Side 4	0.040	0.043	0.051		
		Top	0.037	0.038	0.042		



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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		
321.2KHz which is the worst case within the operation frequency range	20	Side 1	0.04	1.74	2.30	307	61.4
		Side 2	0.04	0.97	1.28		
		Side 3	0.04	0.75	0.99		
		Side 4	0.04	1.17	1.54		
		Top	0.04	1.07	1.42		



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Mode: 04

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		
1.6734MHz which is the worst case within the operation frequency range	20	Side 1	0.106	0.089	0.046	0.815	0.163
		Side 2	0.051	0.043	0.021		
		Side 3	0.077	0.065	0.035		
		Side 4	0.058	0.049	0.026		
		Top	0.046	0.038	0.020		



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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)
			zero charge	intermediate charge	full charge		
1.6734MHz which is the worst case within the operation frequency range	20	Side 1	2.03	1.69	0.98	307	61.4
		Side 2	1.13	0.94	0.55		
		Side 3	0.88	0.73	0.43		
		Side 4	1.36	1.13	0.66		
		Top	1.26	1.04	0.61		



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8 Test Setup Photos

Refer to Appendix - Test Setup Photo for SZCR2407002839AT

- End of the Report -



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