



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467702

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Human Exposure Report

Application No.: SZCR2412004677AT
Applicant: JEM ACCESSORIES INC.
Address of Applicant: 32 Brunswick Avenue, Edison, New Jersey 08817 United States
Manufacturer: JEM ACCESSORIES INC.
Address of Manufacturer: 32 Brunswick Avenue Edison New Jersey US
Equipment Under Test (EUT):
EUT Name: 15W 3 IN 1 MAG wireless charger station
Model No.: XWC8-1046-WHT
FCC ID: 2AHAS-XWC81046
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091
KDB 680106 D01 Wireless Power Transfer v04
Date of Receipt: 2024-12-11
Date of Test: 2024-12-12 to 2024-12-16
Date of Issue: 2025-01-02

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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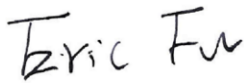
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-01-02		Original

Authorized for issue by:				
				
		Bill Chen/Project Engineer		
				
		Eric Fu/Reviewer		



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3 General Information

3.1 Details of E.U.T.

Power supply:	Input:DC 9V/2A,5V/3A iPhone Charging Output:5W,7.5W,10W,15W Airpods Charging Output:5W Apple watch Charging Output:2.5W
Cable(s):	Type C cable:100cm unshielded
Operation frequency:	Output1:123.08-128.92KHz (phone) Output2:124.8-127.3KHz (earbud) Output3:327.8-330.08KHz (watch)
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: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.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A2244	REF. No.SEA05D14G
Mobile Phone	HUAWEI	NOH-AN00	REF. No.SEA16C01
iPhone 15Pro	Apple	A3104	REF. No.SEA16Q02
Earpods	Apple	A1472	REF. No.SEA10B03
Watch	Apple	A2980	Client supply
E-loading	YZB	A2244	Client supply



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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.

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	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025/04/01
2	MAGPy-8H3D+E3D	SPEAG	MAGPy	SEM060-31	2025/2/22
3	MAGPy-DAS	SPEAG	MAGPy	SEM060-32	2025/2/22



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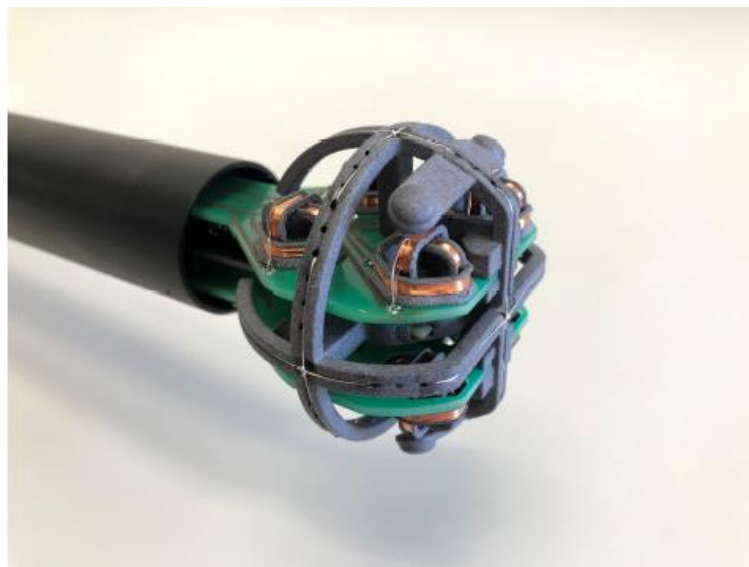
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Probe parameter:

Parameter	Specs
PROBE DESIGN	
Diameter	60 mm
8 isotropic <i>H</i> -field sensors	concentric loops of 1 cm ² arranged at the corner of a cube of 22 mm side length
1 isotropic <i>E</i> -field sensor	orthogonal dipole/monopole (arm length: 50 mm)
Measurement center	18.5 mm from the probe tip
Temperature range	0–40 °C
Dimensions	110 × 635 × 35 mm (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)
<i>H</i>-FIELD SPECIFICATION	
Frequency range	3 kHz–10 MHz
Measurement range	0.1–3200 A/m, 0.12 μT–4 mT
Gradient range	0–80 T/m/T
<i>E</i>-FIELD SPECIFICATION	
Frequency range	3 kHz–10 MHz
Measurement range	0.08–2000 V/m



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5 RF Exposure Evaluation

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: 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).



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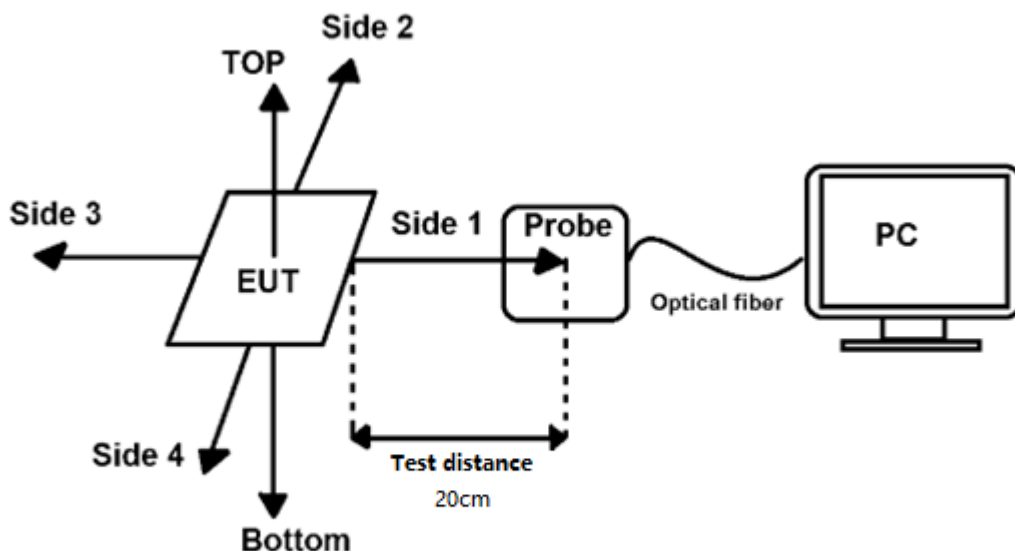
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5.2 Test Block Diagram



5.3 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar

5.4 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charging mode_Keep the EUT charging (Output1: 5W).
Pre-scan	01	Charging mode_Keep the EUT charging (Output1: 7.5W).
Pre-scan	02	Charging mode_Keep the EUT charging (Output1: 10W).
Pre-scan	03	Charging mode_Keep the EUT charging (Output1: 15W).



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Pre-scan	04	Charging mode_Keep the EUT charging (Output2: 5W).
Pre-scan	05	Charging mode_Keep the EUT charging (Output3: 2.5W).
Pre-scan	06	Charging mode_Keep the EUT charging (Output1: 5W+Output2: 5W).
Pre-scan	07	Charging mode_Keep the EUT charging (Output1: 7.5W+Output2: 5W).
Pre-scan	08	Charging mode_Keep the EUT charging (Output1: 10W+Output2: 5W).
Pre-scan	09	Charging mode_Keep the EUT charging (Output1: 15W+Output2: 5W).
Pre-scan	10	Charging mode_Keep the EUT charging (Output1: 5W+Output3: 2.5W).
Pre-scan	11	Charging mode_Keep the EUT charging (Output1: 7.5W+Output3: 2.5W).
Pre-scan	12	Charging mode_Keep the EUT charging (Output1: 10W+Output3: 2.5W).
Pre-scan	13	Charging mode_Keep the EUT charging (Output1: 15W+Output3: 2.5W).
Pre-scan	14	Charging mode_Keep the EUT charging (Output2: 5W+Output3: 2.5W).
Pre-scan	15	Charging mode_Keep the EUT charging (Output1: 5W+Output2: 5W+Output3: 2.5W).
Pre-scan	16	Charging mode_Keep the EUT charging (Output1: 7.5W+Output2: 5W+Output3: 2.5W).
Pre-scan	17	Charging mode_Keep the EUT charging (Output1: 10W+Output2: 5W+Output3: 2.5W).
Final test	18	Charging mode_Keep the EUT charging (Output1: 15W+Output2: 5W+Output3: 2.5W).



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5.5 Measurement Data

Input Voltage=DC 12V; The max output power =15W.

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	
127 kHz which is the worst case within the operation frequency range	20	Side 1	0.171	0.082	0.727	0.815
		Side 2	0.161	0.070	0.712	
		Side 3	0.166	0.083	0.203	
		Side 4	0.142	0.062	0.245	
		Top	0.100	0.042	0.617	

Electric Field Emissions

Operation Frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)
			Zero Charge	Intermediate Charge	Full Charge	
127 kHz which is the worst case within the operation frequency range	20	Side 1	0.102	0.085	0.881	307
		Side 2	0.104	0.082	1.71	
		Side 3	0.108	0.086	1.75	
		Side 4	0.080	0.066	0.37	
		Top	0.061	0.050	0.44	

- End of the Report -



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