

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467502

Page: 1 of 10

Human Exposure Report

SZCR2412004675AT Application No.: 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 Wireless Charger stand

Model No.: XWC8-1044-BLK FCC ID: 2AHAS-XWC81044

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: 2024-12-13 to 2024-12-28

Date of Issue: 2025-01-02

Test Result: Pass*

Ceny. xu **EMC Laboratory Manager**



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467502

2 of 10 Page:

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

Authorized for issue by:			
	Bir Chen		
	Bill Chen/Project Engineer	_	
	Exic Fu		
	Eric Fu/Reviewer	-	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467502

Page: 3 of 10

Contents

1	Cove	er Page	
2		tents	
_	Com		
3	Gen	eral Information	4
	3.1	Details of E.U.T.	Δ
	3.2	Description of Support Units	4
	3.3	Test Location	
	3.4	Test Facility	
	3.5	Deviation from Standards	5
	3.6	Abnormalities from Standard Conditions	5
4	Eaui	pments Used during Test	
4	⊑qui	prinents used during rest	
5	RF E	xposure Evaluation	8
	5.1	RF Exposure test	
	5.1	Test Block Diagram	
	5.2	E.U.T. Operation	
	5.3 5.4	Test Mode Description	
	5.4 5.5	Measurement Data	
	ວ.ວ	weasurement data	I U



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467502

Page: 4 of 10

General Information 3

3.1 Details of E.U.T.

Power supply:	Input:DC 9V/2.22A,5V/3A
	Wireless Output:5W,7.5W,10W,15W
Cable(s):	Type C cable:100cm unshielded
Operation frequency:	113.6kHz to 159.4kHz
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
E-loading	YZB	A2244	Client supply



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467502

5 of 10 Page:

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, 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467502

Page: 6 of 10

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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467502

7 of 10 Page:

Probe parameter:

Parameter	Specs
Probe design	
Diameter	$60\mathrm{mm}$
8 isotropic H -field sensors	concentric loops of 1 cm ² arranged at the corner of a cube of 22 mm side length
1 isotropic E -field sensor	orthogonal dipole/monopole (arm length: $50\mathrm{mm})$
Measurement center	18.5 mm from the probe tip
Temperature range	0-40°C
Dimensions	$110\times635\times35\mathrm{mm}$ (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)
H-field specification	
Frequency range	$3\mathrm{kHz}{-}10\mathrm{MHz}$
Measurement range	$0.1-3200 A/m, 0.12 \mu T-4 mT$
Gradient range	$0-80\mathrm{T/m/T}$
E-field specification	
Frequency range	$3\mathrm{kHz}{-}10\mathrm{MHz}$
Measurement range	$0.08-2000\mathrm{V/m}$





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467502

Page: 8 of 10

5 **RF Exposure Evaluation**

RF Exposure test

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

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/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/f²)	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	d Exposure					
0.3-1.34	614	1.63	*(100)	30				
1.34-30	824/f	2.19/f	*(180/f²)	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).



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^{*=}Plane-wave equivalent power density

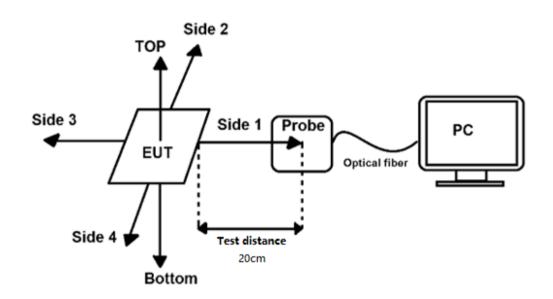


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467502

Page: 9 of 10

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200467502

10 of 10 Page:

5.5 **Measurement Data**

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

Magnetic Field Emissions

Operation Frequency	Test Distance (cm)	Test	Probe	50 %		
		Position	Zero Charge	Intermediate Charge	Full Charge	Limit (A/m)
122 kHz which is the worst case within the operation frequency range	20	Side 1	0.24	0.15	0.09	
		Side 2	0.49	0.35	0.19	
		Side 3	0.21	0.14	0.06	0.815
		Side 4	0.18	0.12	0.07	
		Тор	0.51	0.33	0.16	

Electric Field Emissions

Operation Frequency	Test	Test	Probe	50 %		
	Distance (cm)	Ce Position	Zero Charge	Intermediate Charge	Full Charge	Limit (V/m)
122 kHz which is the worst case within the operation frequency range	20	Side 1	0.57	0.39	0.22	
		Side 2	0.49	0.31	0.12	
		Side 3	0.91	0.64	0.39	307
		Side 4	0.54	0.32	0.17	
		Тор	1.21	0.87	0.51	

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