

Test Report

Microtest

Report No. : MTi250418014-0202E2

Date of Issue : 2025-05-28

Applicant : Chug, Inc.

Product : Desktop Surge Protector with Charging Pad

Model(s) : SPC56

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FCC ID : 2AO23-SPC56

Shenzhen Microtest Co., Ltd.

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Test Result Certific	cation					
Applicant	Chug, Inc.					
Applicant Address	7157 Shady	y Oak Road Eden Prairie Was	shington, MN 55344			
Manufacturer 1	PYS VIETN	IAM TECHNOLOGY COMPAI	NY LIMITED			
Manufacturer 1 Address		CN-06, THUAN THANH II INDUSTRIAL ZONE, MAO DIEN COMMUNE, THUAN THANH DISTRICT, BACNINH, VIETNAM				
Manufacturer 2	PYS High-1	ech Co., Ltd	ates			
Manufacturer 2 Address	1F~12F, Blo 518109 CH		e, Longhua, Shenzhen, Guangdong			
Factory1	PYS VIETN	IAM TECHNOLOGY COMPAI	NY LIMITED			
Factory 1 Address	·	JAN THANH II INDUSTRIAL 2 E, THUAN THANH DISTRICT,				
Factory2	PYS High-1	ech Co., Ltd				
Factory 2 Address	1F~12F, Blo 518109 CH		e, Longhua, Shenzhen, Guangdong			
Product description	on	NICTOL				
Product name	Desktop Su	rge Protector with Charging F	Pad			
Trademark	dealw	orthy™	·est			
Model name	SPC56		a victor			
Series Model(s)	N/A					
Standards	47 CFR PA 47 CFR PA	RT 1, § 1.1310 RT 2.1091				
Test Method	KDB 68010	6 D01 Wireless Power Transf	er v04			
Testing Informatio	n	"ICLOS				
Date of test	2025-05-20	to 2025-05-26	atest			
Test result	Pass		Micro			
Prepared t	by:	Yanice.Xie	Yanice Xie			
Reviewed	by:	David Lee				
Approved I	by:	Lewis Lian	laws lin			



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1 General Description

1.1 Description of the EUT

	-		
	Product name:	Desktop Surge Protector with Charging Pad	
	Model name:	SPC56	
	Series Model:	N/A	
	Model difference:	N/A	
	Electrical rating:	Input:125V~60Hz 15A 1875W Output: USB-C: DC 5V/3A, 9V/2.22A, 12V/1.67A USB-A1/A2: DC 5V/2.4A USB-A1+USB-A2: DC 5V/3A USB-A1/A2+USB-C: DC 5V/3A USB-A1+USB-A2+USB-C: DC 5V/3A Wireless Charger:15W Total Output:35W Max	Microte
	Accessories:	N/A	
AR AR	Hardware version:	V1.0	
	Software version:	V1.0	
	Test sample(s) number:	MTi250418014-02-R001	
	RF specification:		
	Operation frequency:	115-205kHz	ast
	Modulation type:	ASK	- crofte
	Antenna type:	Coil	@NIC.
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1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

Emission test modes	
Wireless Output(5W)	
Wireless Output(7.5W)	
Wireless Output(10W)	
Wireless Output(15W)	-cl
Standby	Trojes
	Wireless Output(5W) Wireless Output(7.5W) Wireless Output(10W) Wireless Output(15W)

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1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment lis	st				
Description	Model	Serial No.	Manufacturer		
Mobile phone	Find X3		OPPO		
Support cable list					
Description	Length (m)	From	To		
/	/	/			

2 Measurement uncertainty

	Parameter	Expanded Uncertainty	
Magnetic field measurements(3kHz~10MHz)		±14.8%	
	Electric field measurements(3kHz~10MHz)	±17.5%	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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3 Test facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573



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4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E143	Near-field Electric and Magnetic Field Sensor System	SPEAG	MAGPy-8H3 D+ED3	3101	2024/3/12	2027/3/11

No.	Equipment	Manufacturer	Model	Software version:	Cal. date	Cal. Due
MTI-E016S	MPE test software	SPEAG	MAGPY 2.6	2.6	/	1
						te,



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5 Test result

5.1.1 Requirement

§1.1310: 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 §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	range (V/m) st		Power density (mW/cm²)	Averaging time (minutes)
	(i) Limits for Occ	upational/Controlled E	xposure	"CLO
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		Č.	f/300	<6
1500-100000		rotes	5	<6
	(ii) Limits for Genera	Population/Uncontroll	ed 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
1500-100000			1.0	<30

f = frequency in MHz

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

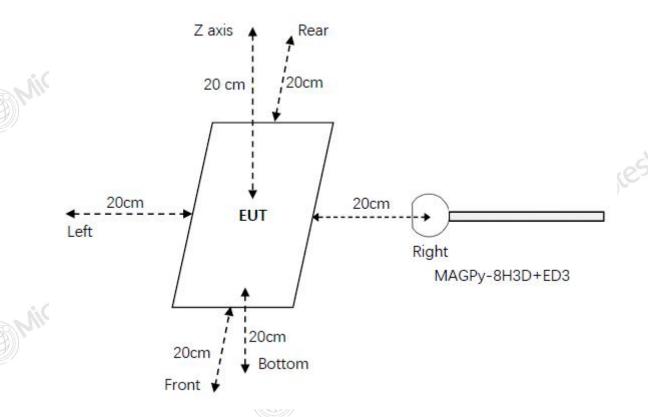
^{* =} Plane-wave equivalent power density



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5.2 Test setup



5.3 Test Procedures

- a. The RF exposure test was performed in anechoic chamber.
- b. E and H-field measurements should be made with these devices considered to meet the § 2.1091-Mobile conditions ("generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and [the nearest person]").
- c. The highest emission level was recorded and compared with limit.
- d. The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.



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5.4 Information of test equipment

Test equipment: MAGPy-8H3D+ED3	
Diameter	60mm
8 isotropic H-field sensors	Concentric loops of 1cm ² arranged at the corner of a cube of 22mm side length
1 isotropic E-field sensor	Orthogonal dipole/monopple(arm length:50mm)
Measurement center	18.5mm from the probe tip
Dimensions	110*635*35mm (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)



Test probe, without the casing



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5.5 Test results

Test condition 1: Mode 4 operating mode with client device (1 % battery status of client device)

Probe	rest	E –field (V/m)			H–field (A/m)	
Position	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	1.68		Microt	0.12		
Left	1.59			0.03		
Right	1.31	614	0.27%	0.04	1.63	7.36%
Front	1.28	014	0.21%	0.06		7.30%
Rear	1.09			0.03		
Bottom	1.24			0.01		

Test condition 2: Mode 4 operating mode with client device (50 % battery status of client

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Z axis	1.34	614	0.22%	0.10	1.63	5.89%
Left	1.27			0.02		
Right	1.05			0.03		
Front	1.02			0.05		
Rear	0.87			0.02		
Bottom	0.99			0.009		

Test condition 3: Mode 4 operating mode with client device (99 % battery status of client device)

Probe Position	E –field (V/m)			H-field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	1.09	614	0.18%	0.08	1.63	4.79%
Left	1.03			0.01		
Right	0.85			0.02		
Front	0.83			0.04		

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Rear	0.71		0.01	Micro
Bottom	0.81		0.008	



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Photographs of the Test Setup

See the Appendix - Test Setup Photos.



See the Appendix - EUT Photos.



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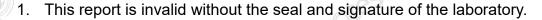
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- 6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

****** END OF REPORT ******