



REPORT No.: SZ25080103S01

TEST REPORT

APPLICANT : TWELVE SOUTH, LLC
PRODUCT NAME : PowerCapsule
MODEL NAME : PC5K
BRAND NAME : N/A
FCC ID : 2AREBPC5K
STANDARD(S) : FCC 47 CFR Part 2(2.1093)
RECEIPT DATE : 2025-08-07
TEST DATE : 2025-08-13 to 2025-08-16
ISSUE DATE : 2025-11-25



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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2025-10-13	First edition
2.0	2025-11-25	1. Replaced the version 1.0. 2. Updated the details of the applicant and manufacturer.



1. Statement of Compliance

Operation Frequency	Highest MPE Summary	
	E-field (V/m)	H-field (A/m)
115 kHz ~ 205 kHz	13.12	0.803
360 kHz	15.674	0.795

Note: The declarations of EUT presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information.



2. Technical Information

Note: Provide by applicant.

2.1. Applicant and Manufacturer Information

Applicant:	TWELVE SOUTH, LLC
Applicant Address:	1503 KING ST STE201 Charleston, SC29405, USA
Manufacturer:	TWELVE SOUTH, LLC
Manufacturer Address:	1503 KING ST STE201 Charleston, SC29405, USA
Factory:	HANK ELECTRONICS VIETNAM COMPANY LIMITED
Factory Address:	Lot 74B/75A, No. 55, Road 11, VSIP Bac Ninh Industrial, Urban and Service Park, Dai Dong Commune, Bac Ninh Province, Vietnam.

2.2. Equipment under Test (EUT) Description

ProductName:	PowerCapsule
EUT No.:	1#
Hardware Version:	V1.0
Software Version:	V1.0
Frequency Bands:	Wireless charging 1:115 ~ 205 kHz Wireless charging 2: 360 kHz
Modulation Mode:	Wireless charging: MPP
Antenna Type:	Wireless charging: Coil Antenna



2.3. Photographs of the EUT

Please refer to the External Photos for the Photos of the EUT

2.4. Applied Reference Documents

Leading reference documents for testing:

Identity	Document Title	Remark
FCC 47CFR Part 2(2.1093)	Radio Frequency Radiation Exposure Evaluation: Portable Devices	/
KDB 680106 D01v04	Equipment Authorization of Wireless Power Transfer Devices	/
Note: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".		



3. RF Exposure Requirement

3.1. Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to 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 made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

3.2. Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3. RF Exposure Limit

Basic Restrictions Reference levels

Basic Restriction for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz)

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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Note: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1: 614 V/m and 1.63 A/m.

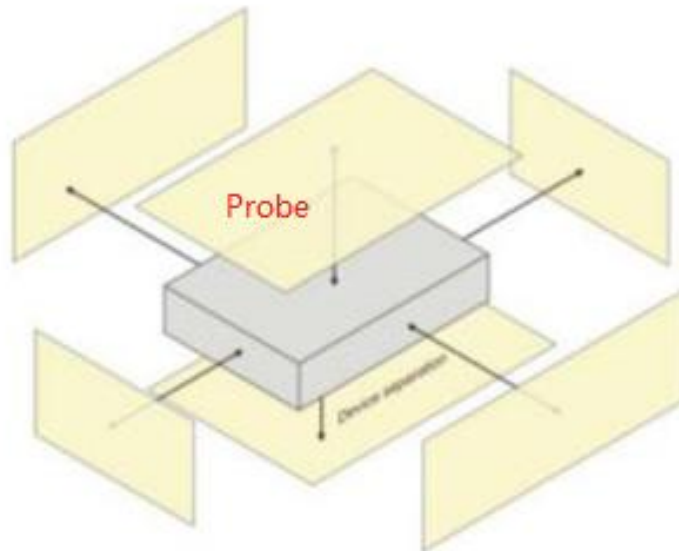
3.4. Test Information

The EUT working at normal charging mode, use the E-Probe measure the H-field Strength, E-field Strength separately.

3.5. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Radiated Frequency	7×10^8
Uncertainty for test site temperature and humidity	0.6 °C
	3%

3.6. Test Setup



4. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
STT	Broadband Field meter	SEM-600	D-1044	2024.11.07	2027.11.06
STT	Probe	LF-04	I-1044	2024.11.07	2027.11.06
STT	Probe holder	TR-01	N/A	N/A	N/A
STT	Optical fiber line	L=5M	N/A	N/A	N/A

5. RF Exposure Assessment

➤ Environment of Test Condition

Test Date: 2025.08.13 ~ 2025.08.16
Temperature: 18-25 °C Humidity: 30-75%

➤ E-Field Strength Result

E-field strength result (Test frequency range from 115 kHz ~ 205 kHz & 360 kHz)						
Test Loading	Exposure Position	Distance (cm)	E-field Strength (Max. V/m)		Limit 50%(V/m)	Verdict
			Value	30% Dvi.		
115 kHz ~ 205 kHz	Front Side	0	4.73	20.93	307	PASS
		2	3.74			PASS
	Back Side	0	13.12	15.168	307	PASS
		2	11.13		307	PASS
	Left Side	0	12.09	20.347	307	PASS
		2	9.63		307	PASS
	Right Side	0	7.36	10.19	307	PASS
		2	6.61		307	PASS
	Top Side	0	7.15	26.014	307	PASS
		2	5.29		307	PASS
	Bottom Side	0	3.79	22.691	307	PASS
		2	2.93		307	PASS



360 kHz	Front Side	0	5.173	-25.362	307	PASS
		2	6.485			PASS
	Back Side	0	15.674	24.525	307	PASS
		2	11.83		307	PASS
	Left Side	0	14.765	23.989	307	PASS
		2	11.223		307	PASS
	Right Side	0	8.663	-0.658	307	PASS
		2	8.72		307	PASS
	Top Side	0	9.581	44.766	307	PASS
		2	5.292		307	PASS
	Bottom Side	0	5.629	18.831	307	PASS
		2	4.569		307	PASS

➤ H-Field Strength Result

H-field strength result (Test frequency range from 115 kHz ~ 205 kHz & 360 kHz)						
Test Loading	Exposure Position	Distance (cm)	H-field Strength (Max. A/m)		Limit 50%(A/m)	Verdict
			Value	30% Dvi.		
115 kHz ~ 205 kHz	Front Side	0	0.7996	27.926	0.815	PASS
		2	0.5763			PASS
	Back Side	0	0.2335	19.872	0.815	PASS
		2	0.1871		0.815	PASS
	Left Side	0	0.5997	21.277	0.815	PASS
		2	0.4721		0.815	PASS
	Right Side	0	0.467	27.409	0.815	PASS
		2	0.339		0.815	PASS
	Top Side	0	0.803	11.955	0.815	PASS
		2	0.707		0.815	PASS
	Bottom Side	0	0.103	25.825	0.815	PASS
		2	0.0764		0.815	PASS
360 kHz	Front Side	0	0.709	15.092	0.815	PASS
		2	0.602			PASS
	Back Side	0	0.244	11.475	0.815	PASS
		2	0.216		0.815	PASS
	Left Side	0	0.704	12.216	0.815	PASS
		2	0.618		0.815	PASS
	Right Side	0	0.47	18.298	0.815	PASS
		2	0.384		0.815	PASS



	Top Side	0	0.795	6.4151	0.815	PASS
		2	0.744		0.815	PASS
	Bottom Side	0	0.15	21.333	0.815	PASS
		2	0.118		0.815	PASS

Note:

1. When the product is close to the phone, it must be placed on a flat surface for use. If it is held and moved while wirelessly charging, the charging coil may not be in contact, causing it to malfunction.
2. According to the user manual, output power from each primary coil is less than or equal to 15 watts.
3. According to KDB 680106 D01V04 section 5.2), the E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit.
4. The difference between distance 0cm and 2cm tests(E- and/or H-field) is not more than 30%.
5. The EUT test photos, please see the annex B.

➤ Simultaneous Transmission Consideration

There is only one transmitter in this device, therefore simultaneous transmission evaluation is not required.

➤ Conclusion:

According to FCC 47 CFR Part 2(2.1093), this device complies with human exposure basic restrictions.



Annex A General Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

The FCC designation number is CN1192, the test firm registration number is 226174.

Note:

The main report is end here and the other annex B will be submitted separately.

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