



RF Exposure Test Report

Report No.: CIVM-ESH-P24110685B-2

FCC ID: 2AG62M13

Product: FOUR-LEG ELECTRIC SIT-STAND DESK

Model: M13-42R-B

Received Date: Nov.26, 2024

Test Date: Nov.26 to Dec.16, 2024

Issued Date: Dec.19, 2024

Applicant: LUMI LEGEND CORPORATION

Address: 22/F., Building 1, Lisi Plaza, Huifeng East Road, Ningbo, China

Manufacturer: LUMI LEGEND CORPORATION

Address: 22/F., Building 1, Lisi Plaza, Huifeng East Road, Ningbo, China

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

Lab Address: No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)



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Release Control Record

Issue No.	Description	Date Issued
CIVM-ESH-P24110685B-2	Original release	Dec.19, 2024



1 Certificate of Conformity

Product: FOUR-LEG ELECTRIC SIT-STAND DESK

Brand: --

Model: M13-42R-B

Applicant: LUMI LEGEND CORPORATION

Test Date: Nov.26 to Dec.16, 2024

Standards: 47 CFR FCC Part 1,1.1307(b) and 1.1310
KDB 680106 D01v04

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :

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, Date:

Dec.19, 2024

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Dec.19, 2024

2 General Information

2.1 General Description of EUT

WPT

Product	FOUR-LEG ELECTRIC SIT-STAND DESK
Brand	--
Test Model	M13-42R-B
Power Rating	100-240V~,50/60 Hz, 1.5A
Modulation Type	FSK
Modulation Technology	Qi
Operating Frequency	110-205 KHz
Antenna Type	Coil Antenna
Antenna Connector	--

Note:

1. For more details, please refer to the User's manual of the EUT.

3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

(1) Table 1 to § 1.1310(e)(1) sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) 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
(ii) 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.

(2) 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. The phrase fully aware in the context of applying these exposure limits means that an exposed person has received written and/or verbal information fully explaining the potential for RF exposure resulting from his or her employment. With the exception of transient persons, this phrase also means that an exposed person has received appropriate training regarding work practices relating to controlling or mitigating his or her exposure. In situations when an untrained person is transient through a location where occupational/controlled limits apply, he or she must be made aware of the potential for exposure and be supervised by trained personnel pursuant to § 1.1307(b)(2) of this part where use of time averaging is required to ensure compliance with the general population exposure limit. The phrase exercise control means that an exposed person is allowed and also knows how to reduce or avoid exposure by administrative or engineering work practices, such as use of personal protective equipment or time averaging of exposure.

(3) 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.

3.2 Measurement Equipment

Instrument	Manufacturer	Model No.	Fre Range	Last Cal.	Due Date
Field Meter Probe	WAVECONTROL	WPF6-HP	100KHz-400kHz	Jul.30, 24	Jul.29, 25
Field Meter	WAVECONTROL	SMP2	-	Jul.30, 24	Jul.29, 25
Fully Anechoic Chamber	ETS-LINDGREN	C1FA002	-	Jan.16, 23	Jan.15, 26

3.3 Support Units

Description	Manufacturer	Model No.	Serial No.
Adaptor	Dongguan YIHENG Electronics Co., Ltd	A50R6203218	N/A
Iphone 14	Apple Inc.	A2884	N/A

3.4 RF Exposure Evaluation

Desktop WPT testing guidance from FCC KDB 680106 D01v03 is applied. RF Exposure evaluation at 15cm surrounding the device and 20cm above the top surface, Emissions between 50 KHz to 300 KHz should be assessed versus the limits at 300 KHz in table 1 of section 1.1310:1.63A/m and aggregate H-field strengths from all simultaneous transmitting coils.

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.5 Test mode

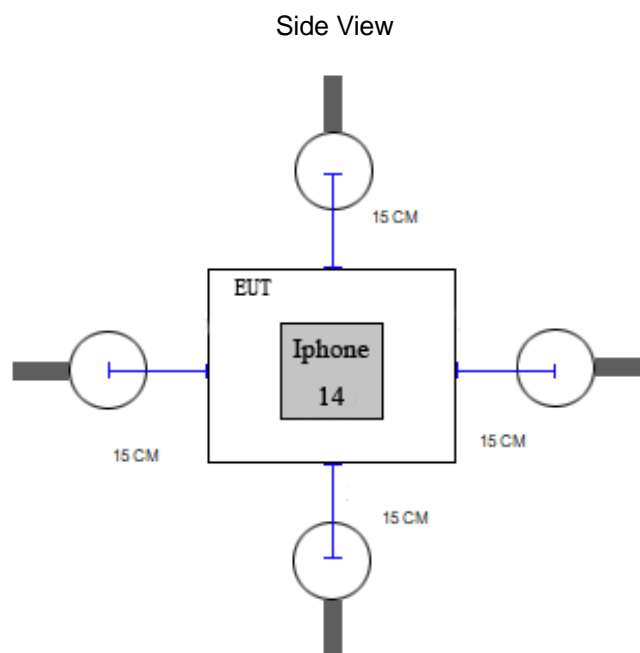
The EUT was tested under the following modes, the final worst mode were marked in boldface and recorded in this report.

WPT

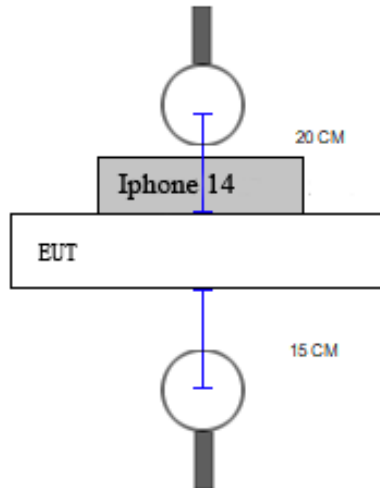
Test Mode	Test setup configuration	Changing current condition
Mode 1	EUT charging to receiver load	Near 100% battery status
Mode 2	EUT charging to receiver load	50% battery status
Mode 3	EUT charging to receiver load	<1% battery status
Mode 4	EUT charging standby mode	

Note: The EUT is test under transmitted power 7.5W, due to the load Iphone 14 is only support 7.5W max under Qi Wireless Charging Protocol.

3.6 Test setup for WPT



Top View



3.7 Calculation Result of Maximum Permissible Exposure

WPT

Magnetic Field Emissions

Frequency Band	Test Distance (cm)	H-Field Strength (A/m)	Limit (A/m)	50% of the MPE Limit (A/m)	Pass / Fail
Side 1	15	0.05	1.63	0.815	Pass
Side 2	15	0.05	1.63	0.815	Pass
Side 3	15	0.06	1.63	0.815	Pass
Side 4	15	0.04	1.63	0.815	Pass
Top	20	0.03	1.63	0.815	Pass
Bottom	15	0.15	1.63	0.815	Pass

Electric Field Emissions

Frequency Band	Test Distance (cm)	E-Field Strength (V/m)	Limit (V/m)	50% of the MPE Limit (V/m)	Pass / Fail
Side 1	15	1.48	614	307	Pass
Side 2	15	0.96	614	307	Pass
Side 3	15	1.08	614	307	Pass
Side 4	15	1.11	614	307	Pass
Top	20	1.26	614	307	Pass
Bottom	15	0.49	614	307	Pass

Conclusion:

The test worst result of MPE is less than the limit

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