

MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

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Product Name: Smart Plug

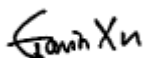
FCC ID: 2A3MAP1

Standard(s): 47 CFR §1.1310, 47 CFR §2.1091,
47 CFR §15.247(i)

Report Number: 2402W53070E-RF-00D

Report Date: 2024/8/20

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).



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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402W53070E-RF-00D	Original Report	2024/8/20

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name:	Smart Plug
EUT Model:	P1
Rated Input Voltage:	AC 120V
EUT Received Date:	2024/8/3
EUT Received Status:	Good

2. RF EXPOSURE EVALUATION (MPE)

2.1 RF Exposure Evaluation

2.1.1 Applicable Standard

According to subpart 15.247(i) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
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;

According to §1.1310 and §2.1091 RF exposure is calculated.

2.1.2 Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

2.1.3 Calculated Data:

Operation Modes	Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402-2480	4.16	2.61	19.5	89.13	20.00	0.046	1.0
2.4G Wifi	2412-2462	4.16	2.61	24.5	281.84	20.00	0.146	1.0

Note:

The Conducted output power including Tune-up Tolerance provided by manufacturer.

2.4G Wifi and BLE can't transmit simultaneously.

Result: Compliant. The device compliant Simultaneous transmission at 20cm distances.

EXHIBI A - EUT PHOTOGRAPHS

Please refer to the attachment 2402W53070E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402W53070E-RF-INP EUT INTERNAL PHOTOGRAPHS.

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