

#### FCC RF EXPOSURE REPORT

#### **CERTIFICATION TEST REPORT**

For

Kasa Smart Wi-Fi Outlet

MODEL NUMBER: KP200

FCC ID: 2AXJ4KP200V3

HIVN: KP200V3

REPORT NUMBER: 4789827834-2

ISSUE DATE: February 22, 2021

Prepared for

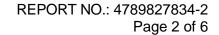
TP-Link Corporation Limited
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Prepared by

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# 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: TP-Link Corporation Limited

Address: Room 901, 9/F., New East Ocean Centre, 9 Science Museum

Road, Tsim Sha Tsui, Kowloon, Hong Kong

**Manufacturer Information** 

Company Name: TP-Link Corporation Limited

Address: Room 901, 9/F., New East Ocean Centre, 9 Science Museum

Road, Tsim Sha Tsui, Kowloon, Hong Kong

**EUT Information** 

EUT Name: Kasa Smart Wi-Fi Outlet

Model: KP200 HVIN: KP200V3 Brand Name: tp-link

Sample Received Date: February 5, 2021

Sample Status: Normal Sample ID: 3651825

Date of Tested: February 6, 2021~ February 22, 2021

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
FCC 47CFR§2.1091	PASS			
KDB-447498 D01 V06	PASS			

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#### 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

## 3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.
Accreditation Certificate	FCC (FCC Designation No.: CN1187)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.  VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.  Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004  Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



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#### 4. REQUIREMENT

#### LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time  E ²,  H ² or S (minutes)			
0.3-1.34	614	1.63	(100)*	30			
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30			
30-300	27.5	0.073	0.2	30			
300-1500			f/150	30			
1500-100,000			1.0	30			

Note 1: f = frequency in MHz, \* means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that 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.

Note 3: The limit value 1.0 mW/cm<sup>2</sup> is available for this EUT.

#### **MPE CALCULATION METHOD**

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

where: S = power density (in appropriate units, e.g. mW/ cm<sup>2</sup>) 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

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



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## **CALCULATED RESULTS**

Radio Frequency Radiation Exposure Evaluation

2.4 GHz WIFI (Worst case)									
Operating Mode	Max. Tune up Power	Directional Gain		Power density	Limit				
Operating Mede	(dBm)	(dBi)	(num)	(mW/cm <sup>2</sup> )	Liiiii				
802.11b	23	0.67	1.17	0.04632	1				

Note: 1. Antenna Gain=14.0dBi (Numeric 25.12),  $\pi$ =3.141.

- 2. The power comes from turn up power which was declared by customer.
- 3. The minimum separation distance of the device is greater than 20 cm.
- 4. Calculate by WORST-CASE mode.
- 5. Owing to the maximum Calculated Result is below the limit, so it deemed to comply with the basic restrictions without testing which means that no SAR is required.

**END OF REPORT**