



FCC RF EXPOSURE REPORT

For

Kasa Smart Wi-Fi Light Switch Dimmer

MODEL NUMBER: HS220

FCC ID: 2AXJ4HS220V3

REPORT NUMBER: 4789585813-2

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Prepared for

TP-Link Corporation Limited Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong

Prepared by

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S =	PG/(4πR ²)	.5



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 Light Switch Dimmer				
Model:	HS220				
HVIN:	HS220V3				
Brand Name:	tp-link				
Sample Received Date:	December 29, 2020				
Sample Status:	Normal				
Sample ID:	3556055				
Date of Tested:	December 29, 2020~ January 11, 2021				

APPLICABLE STANDARDS

STANDARD

TEST RESULTS

FCC 47CFR§2.1091 KDB-447498 D01 V06 PASS

Tested By:

Kebo. zhang

Checked By:

Laboratory Leader

Shawn Wen

Kebo Zhang Project Engineer

Approved By:

Sephenbur

Stephen Guo Laboratory Manager



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.



4. REQUIREMENT

<u>LIMIT</u>

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure							
Frequency Range (MHz)	Electric FieldMagnetic FieldStrength (E)Strength (H)(V/m)(A/m)		Power Density (S) (mW/cm ²)	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/f2)*	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 1.0mW/cm² is available for this EUT.

MPE CALCULATION METHOD

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

where: S = 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

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



Radio Frequency Radiation Exposure Evaluation

WIFI 2.4G (Worst case)								
Operating Mode	Max. Tune up Power	Directional Gain		Power density	Limit			
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)				
802.11b	23	4.41	2.76	0.10958	1			

Note: 1. The calculated distance is 20cm.

END OF REPORT