

Wyze Labs, Inc.

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

WLPPO1

REPORT NUMBER:

200800345SHA-002

ISSUE DATE:

Sep 22, 2020

DOCUMENT CONTROL NUMBER:

TTRFFCCMPE-01 V1 © 2018 Intertek





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Report no.: 200800345SHA-002

Applicant: Wyze Labs, Inc.

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Manufacturer: Wyze Labs, Inc.

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Manufacturing site: Ningbo Comen Electronics Technology Co., Ltd.

No.599 Jinda Road, Zhenhai Economic Development Zone

315221 Ningbo, China

FCC ID: 2AUIUWLPPO1

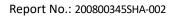
SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:	REVIEWED BY:	
Stephenie	Warkeyer	
Project Engineer	Reviewer	
Stephanie Zhang	Wakeyou Wang	

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Revision History

Report No.	Version	Description	Issued Date
200800345SHA-002	Rev. 01	Initial issue of report	Sep 22, 2020

Report No.: 200800345SHA-002



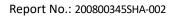
1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	WIFI OUTDOOR PLUG
Type/Model:	WLPPO1
Description of EUT:	It is a plug with wifi function, there is one model only.
Rating:	Input: 120VAC,60Hz; Output:120VAC,15A MAX
Category of EUT:	Class B
EUT type:	☐ Table top ☐ Floor standing
Software Version:	1.0.0.12
Hardware Version:	V2
Sample received date:	09/02/2020
Date of test:	09/02/2020 ~ 09/20/2020

1.2 Technical Specification

Frequency Range:	2412MHz ~ 2462MHz		
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20		
	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)		
	IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
Type of Modulation:	IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
Channel Number:	11 Channels for 802.11b, 802.11g and 802.11n(HT20)		
	IEEE 802.11b: Up to 11 Mbps		
	IEEE 802.11g: Up to 54 Mbps		
Data Rate:	IEEE 802.11n-HT20: Up to MCS7		
Channel Separation:	5 MHz		
Antenna Information:	2.5dBi, PIFA antenna		





1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized,	CNAS Accreditation Lab Registration No. CNAS L0139
certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN1175
organizacions.	IC Registration Lab Registration code No.: 2042B-1
	VCCI Registration Lab Registration No.: R-4243, G-845, C-4723, T-2252
	NVLAP Accreditation Lab NVLAP LAB CODE: 200849-0
	A2LA Accreditation Lab Certificate Number: 3309.02





2 MPE Assessment

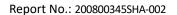
Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

The blic device expectate for standardic operations.				
Frequency range	E-field strength	H-field strength	B-field	Equivalent plane wave
	(V/m)	(A/m)	(uT)	power density
				S _{eq} (W/m ²)
0-1 Hz	-	$3,2 \times 10^4$	4×10^{4}	-
1-8 Hz	10 000	$3.2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	4 000/f	5 000/f	-
0,025-0,8 kHz	250/f	4/f	5/f	-
0,8-3 kHz	250/f	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	0,73/f	0,92/f	-
1-10 MHz	87/f ^{1/2}	0,73/f	0,92/f	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	1,375 f ^{1/2}	0,0037 f ^{1/2}	0,0046 f ^{1/2}	f/200
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is \leq 1.0





TEST REPORT

2.2 Assessment Results

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

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

Where $S = power density in mW/cm^2$

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 200800345SHA-001: The maximum radiated power = 18.65dBm = 73.28mW; Here R is chosen to be 20cm,

 $S = P / (4\pi R^2) = 73.28 / (4 * 3.14 * 20 * 20) = 0.0146 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$





Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.