

GUANGDONG HAILEA GROUP CO., LTD. MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

ASSP-3

REPORT NUMBER:

191002149SHA-002

ISSUE DATE:

February 25, 2020

DOCUMENT CONTROL NUMBER:

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Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North) Caohejing Development Zone Shanghai 200233, China

Telephone: 86 21 6127 8200

www.intertek.com

Report no.: 191002149SHA-002

Applicant: GUANGDONG HAILEA GROUP CO., LTD.

HAILEA INDUSTRIE ZONE, HAILEA ROAD, RAOPING GUANGDONG

PROVINCE, 515700 CHINA

Manufacturer: GUANGDONG HAILEA GROUP CO., LTD.

HAILEA INDUSTRIE ZONE, HAILEA ROAD, RAOPING GUANGDONG

PROVINCE, 515700 CHINA

Manufacturing site: GUANGDONG HAILEA GROUP CO., LTD.

HAILEA INDUSTRIE ZONE, HAILEA ROAD, RAOPING GUANGDONG

PROVINCE, 515700 CHINA

FCC ID: 2AVM6ASSP-3

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:

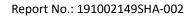
Project Engineer

Eric Li Daniel Zhao

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Reviewer

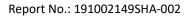
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Revision History

Report No.	Version	Description	Issued Date	
191002149SHA-002	Rev. 01	Initial issue of report	February 25, 2020	





1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Wifi smart plug	
Type/Model:	ASSP-3	
	EUT is wifi smart plug, which supports wifi function, there is one model.	
Description of EUT:	We test it and list the worst results in this report.	
Rating:	120V 60Hz Max Current: 8.3A	
Category of EUT:	Class B	
EUT type:	☐ Table top ☐ Floor standing	
Software Version:	/	
Hardware Version:	/	
Sample received date:	2019.12.15	
Date of test:	2019.12.16~2019.12.20	

1.2 Technical Specification

Frequency Range:	2400MHz ~ 2483.5MHz		
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40		
	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)		
	IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
	IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
Type of Modulation:	IEEE 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
	11 Channels for 802.11b, 802.11g and 802.11n(HT20)		
Channel Number:	7 Channels for 802.11n(HT40)		
	IEEE 802.11b: Up to 11 Mbps		
	IEEE 802.11g: Up to 54 Mbps		
	IEEE 802.11n-HT20: Up to MCS7		
Data Rate:	IEEE 802.11n-HT40: Up to MCS7		
Channel Separation:	5 MHz		

Report No.: 191002149SHA-002

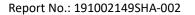


1.3 Description of Test Facility

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
	IC Registration Lab Registration code No.: 2042B-1
	VCCI Registration Lab Registration No.: R-4243, G-845, C-4723, T-2252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 MPE Assessment





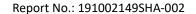
Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength	H-field strength	B-field	Equivalent plane wave
Frequency range				· ·
	(V/m)	(A/m)	(uT)	power density
				S _{eq} (W/m²)
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 $S = power density in mW/cm^2$

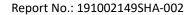
P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 191002149SHA-001: The maximum radiated power = 4.09dBm = 2.56 mW; Here R is chosen to be 20cm,

 $S = P / (4\pi R^2) = 2.56 / (4 * 3.14 * 20 * 20) = 0.0005 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$





Appendix I

Definition below must be outlined in the User Manual: