

Date of Issue: June 22, 2018 FCC ID.: YHEAPW06

RF Exposure evaluation

FOR

Wireless Charging Pad

Model: AP-W06

Issued to

Ablelink Electronics Limited
Unit 15, 9/F., Block A, Po Lung Centre, 11 Wang Chiu Road, Kowloon Bay,
Kowloon, Hong Kong.
Issued by
WH Technology Corp.





Open Site		No.120, Ln. 5, Hudong St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)		
EMC Test Site		7F., No.262, Sec. 3, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)		
Tel.: +886-7729-7707 Fax: +886-2- 8648-1311				

Note: This test refers exclusively to the test presented test model and sample. This report shall not be reproduced except in full, without the written approval of WH Technology Corp.. This document may be altered or revised by WH Technology Corp.. Personnel only, and shall be noted in the revision section of the document.



Date of Issue: June 22, 2018 FCC ID.: YHEAPW06

1. GENERAL INFORMATION

Applicant : Ablelink Electronics Limited

Address : Unit 15, 9/F., Block A, Po Lung Centre, 11 Wang

Chiu Road, Kowloon Bay, Kowloon, Hong Kong.

Manufacturer/

Factory

: Ablelink Electronics Ltd

Address : 182 Qingzhang Road, Chang Shan Tou, QingXi Town,

Dongguan, China

EUT : Wireless Charging Pad

Model Name : AP-W06

FCC ID : YHEAPW06

Trade Name : N/A Model : N/A

Differences

Standard: FCC Part 1 (Section 1.1307(b), 1.1310)

Receipt Date: 05/21/2018 Final Test Date: 06/22/2018

Tested By: Reviewed by:

May 21, 2018

(Date)

Bing Chang/ Engineer

June 22, 2018

(Date)

Bell Wei / Manager

Designation Number: TW2954



Date of Issue: June 22, 2018 FCC ID.: YHEAPW06

EUT Specification

EUT:	Wireless Charging Pad
M/N:	AP-W06
Frequency band: (Operating)	WLAN:2.142G~2.462GHz WLAN:5.18G~5.32GHz/5.50GHz~5.70GHz WLAN:5.745G~5.825GHz Bluetooth:2.402GHz~2.480GHz Zigbee:2.405GHz~2.480GHz Others 110KHz-200KHz
Device category:	Portable (<20cm separation) Mobile (>20cm separation) Others
Antenna diversity:	Single antenna Multiple antennas Tx diversity Rx diversity Tx/Rx diversity Coil Antenna
Antenna Type:	Coil Antenna
Antenna gain:	0dBi

LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Model	Manufacture	Last Cal.	Next Cal.
Exposure Level Tester	ELT-400	NARDA	Aug. 06, 2017	Aug. 05, 2018
Magnetic field probe 100cm2	B-Field Probe 100 cm2	NARDA	Aug. 06, 2017	Aug. 05, 2018



Date of Issue: June 22, 2018 FCC ID.: YHEAPW06

Applicable Standard

FCC § 1.1307 & 1.1310

According to the item 5.2 of KDB 680106 D01 RF Exposure Wireless Charging Apps V03: Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF evaluation.

- a) Power transfer frequency is less that 1 MHz.
- b)Output power from each primary coil is less than or equal to 15 watts.
- c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
- d)Client device is placed directly in contact with the transmitter.
- e) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- f) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Limits for Maximum Permissible Exposure (MPE)

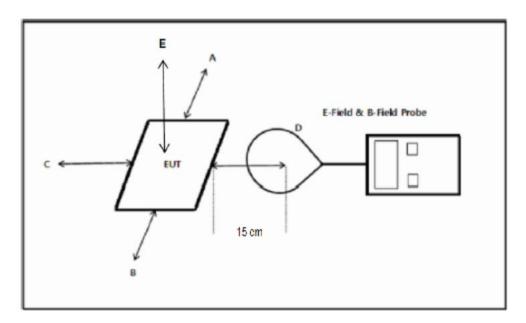
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)	
(11111)		Occupational/Controll		(minutes)	
0.3-3.0	614	1.63	*100	6	
3.0-30	1842/f	4.89/f	*900/f ²	6	
30-300	61.4	0.163	1.0	6	
300-1,500			f/300	6	
1,500-100,000			5	6	
	(B) Limits for Gen	eral Population/Uncon	trolled Exposure		
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		3)	f/1500	30	
1500-100.000			1.0	30	

f = frequency in MHz; * = Plane-wave equivalent power density;



Date of Issue: June 22, 2018 FCC ID.: YHEAPW06

EUT Setup:



Date of Issue: June 22, 2018 FCC ID.: YHEAPW06

Test Procedure:

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (10cm) which is between the edge of the charger and the geometric centre of probe.
- c) The turn table was rotated 360d degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106D01v03

Result:

- a) Power transfer frequency is less that 1 MHz.
 - Yes, The device operates in the frequency 110kHz-200kHz.
- b) Output power from each primary coil is less than or equal to 15 watts.
 - Yes, The maximum output power of the primary coil is Max 10W<15W.
- c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
 - Yes, The transfer system including a charging system with only single primary coils is to detect and allow only between individual of coils.
- d) Client device is placed directly in contact with the transmitter.
 - Yes, Client device is placed directly in contact with the transmitter.
- e) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
 - Yes.
- f) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
 - The EUT H-field strengths at 15 cm surrounding the device and 20 cm above the top surface are less than 50% the MPE limit.



WH Technology Corp. Date of Issue: June 22, 2018 FCC ID.: YHEAPW06

TEST DATA

E and H field Strength

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

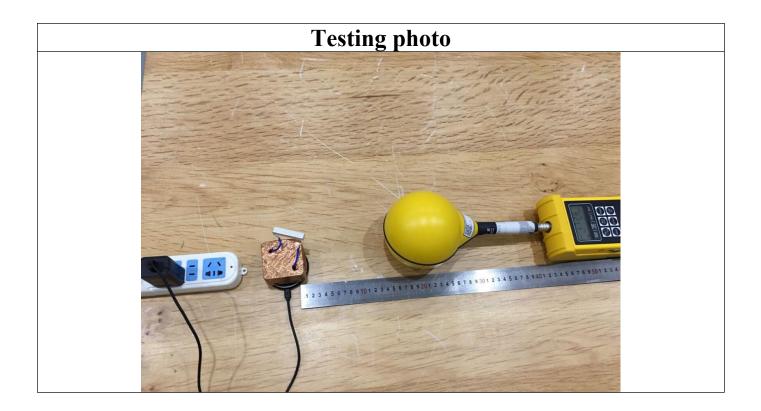
Frequency	Position A	Position B	Position C	Position D	Position E	Limits	Test
Range	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	Test	Mode
(MHz)	15cm	15cm	15cm	15cm	20cm	(V/m)	
	1.60	1.73	2.14	1.68	2.46	614	Full
0.110-0.200							Load
	1.55	1.68	2.11	1.63	2.22	614	Half
							Load
	1.48 1.60	1.99	1.58	2.16	614	Empty	
						Load	

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

The first of the first the suggest surfacing the Lot (7th)							
Frequency	Position A	Position B	Position C	Position D	Position E	Limits	Test
Range	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	Test	Mode
(MHz)	15cm	15cm	15cm	15cm	20cm	(A/m)	
	0.00	0.04	0.04	0.40	0.00	4.00	Full
0.110-0.200	0.29	0.21	0.31	0.19	0.28	1.63	Load
	0.27	0.21	0.30	0.18	0.28	1.63	Half
							Load
	0.28 0.20	0.28	0.18	0.26	1.63	Empty	
		0.20	0.20	0.10	0.20	1.03	Load



Date of Issue: June 22, 2018 FCC ID.: YHEAPW06



---END--