

RF EXPOSURE REPORT For FCC ID:2ABY9CASAHUB-07

Product Name:	USB-C Multi-Function Hub with Wireless Charger
Trademark:	N/A
Model Number:	CASA Hub O7
Prepared For :	Adam Elements International Co., LTD.
Address :	10F3, No.54, Songjiang Rd., Zhongshan Dist., Taipei City 104 , Taiwan
Prepared By :	Shenzhen BCTC Testing Co., Ltd.
Address :	BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
Test Date:	Apr. 03, 2019 – Apr. 18, 2019
Date of Report :	Apr. 18, 2019
Report No.:	BCTC-FY190401698-1E



TEST RESULT CERTIFICATION

Applicant's name Adam Elements International Co., LTD.

Address...... 10F.-3, No.54, Songjiang Rd., Zhongshan Dist., Taipei City 104,

Taiwan

Manufacture's Name...... Adam Elements International Co., LTD.

Taiwan

Product description

Trademark: N/A

Model and/or type reference : CASA Hub O7

Serial Model : N/A

Power Supply : Input: DC 5V/2A, DC 9V/2A

Output: DC 5V/1A, DC 9V/1.2A

Standards FCC CFR 47 part1, 1.1307(b), 1.1310

This device described above has been tested by BCTC, and the test results show that the equipment under And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of BCTC, this document may be altered or revised by BCTC, personal only, and shall be noted in the revision of the document.

Leke Xie Prepared by(Engineer):

Reviewer(Supervisor): Eric Yang

Approved(Manager): Zero Zhou





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1. GENERAL INFORMATION

1.1. Independent Operation Mode

The basic operation mode is:

1.1.1. Charging

1.2. Test Supporting System

Adapter

Description : Adapter Model No.: BCTC-004

Power Input: DC 5V/2A, DC 9V/2A Output: DC 5V/1A, DC 9V/1.2A

DC Line: Unshielded, Detachable 1m

Mobile phone

Model No.: iphone8 Model No.: iphone



2.LIST OF TEST AND MEASUREMENT INSTRUMENTS

2.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.	
Exposure	Narda	ELT-400	N-0231	Aug 09 2017	Aug. 07, 2019	
Level Tester	Ivarda	EL1-400	IN-023 I	Aug. 08, 2017		
Magnetic field	Nordo	B-Field Probe	M0675	Aug 00 2017	Aug 07 2010	
probe 100cm2	Narda	100cm2	M0675	Aug. 08, 2017	Aug. 07, 2019	
843 Chamber	ETS	843	84301	Aug. 27, 2017	Aug. 26, 2019	

Tel: 400-788-9558 0755-33019988



3. METHOD OF MEASUREMENT

3. 1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

3. 2. Test Modes

Testivioues Keeping (A+Charding mode		Test Modes	keeping TX+Charging mode
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3. 3. MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

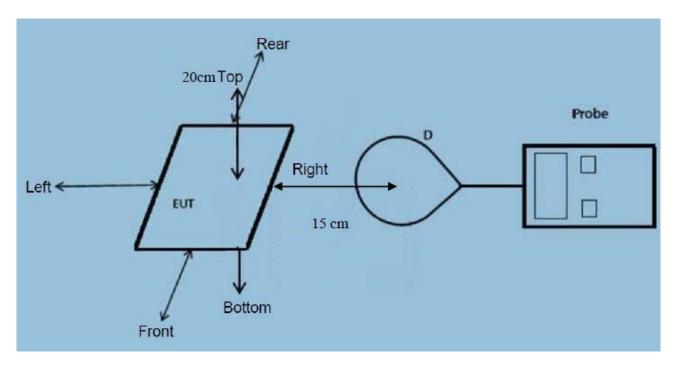
Frequency Range (MHz)	(MHz) Strength (E) (V/m) Strength (H) (A/m)		Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)
0.3-3.0			(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500	0-1500		F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field		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)*	30			
30-300	27.5	0.073	0.2	30			
300-1500		_	F/1500	30			
1500-100,000			1	30			



4. TEST RESULT

4.1. Conducted Emission at the Mains Terminals Test



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

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 (15cm) 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.

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4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 D01v03

- 1) Power transfer frequency is less than 1MHz Yes, the device operate in the frequency range from 120 KHz to 220 KHz
- 2) Output power from each primary coil is less than or equal to 10 watts.

Yes, the maximum output power of the primary coil is 10W.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

Yes, the transfer system includes only single primary and secondary coils.

4) Client device is inserted in or placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter.

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, the EUT is a Mobile Wireless Charger

6) 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.

Yes, the EUT field strength levels are 50% x MPE limit.

Shenzhen BCTC Testing Co., Ltd.

4.3. E and H field Strength

(The worst data)

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery	Frequency	Test	Test	Test	Test	Test	Test	50%	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Position	Limits	Test
		А	В	С	D	Е	F	Test	(V/m)
								(V/m)	
1%	0.110-0.205	0.75	0.67	0.65	0.66	0.73	0.65	307	614
50%	0.110-0.205	0.62	0.57	0.51	0.55	0.46	0.65	307	614
99%	0.110-0.205	0.54	0.43	0.46	0.55	0.53	0.50	307	614

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

111 loid Gaoilgar at 10 cm carroanaing are 201 and 200m above the top carrage of the 2										
	Battery	Frequency	Test	Test	Test	Test	Test	Test	50%	Limits
	level	Range (MHz)	Position	Position	Position	Position	Position	Position	Limits	Test
			Α	В	С	D	Е	F	Test	(A/m)
									(A/m)	
	1%	0.110-0.205	0.25	0.23	0.27	0.13	0.13	0.19	0.815	1.63
	50%	0.110-0.205	0.23	0.22	0.21	0.15	0.11	0.11	0.815	1.63
	99%	0.110-0.205	0.12	0.16	0.11	0.15	0.10	0.13	0.815	1.63

EMF

Tel: 400-788-9558 07

0755-33019988

Web:Http//www.bctc-lab.com

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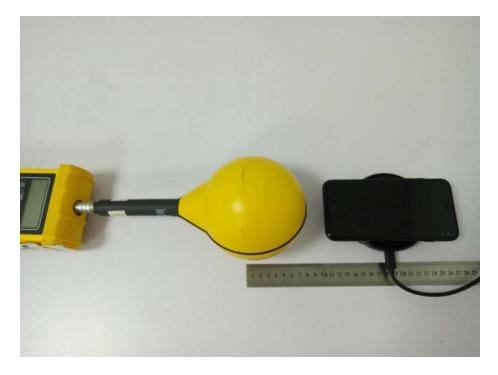
5. Photographs of test set-up













******** END OF REPORT *******