FCC MPE TEST REPORT

FCC ID: 2ABY9OMNIA-Q5

Sample: 5 in 1 Wireless Charging Station

Trade Name: ADAM

Main Model: OMNIA Q5

Additional Model: APAADQ5OGBK

Report No.: UNIA21112615ER-62

Prepared for

Adam Elements International Co., LTD.

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

Prepared by

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TEST RESULT CERTIFICATION

Applicant	Adam Elements International Co., LTD.
Address	10F3, No.54, Songjiang Rd., Zhongshan Dist., Taipei City, Taiwar
Manufacturer:	Shenzhen Smacat Electronic Technology Co.Ltd
Address ł	5th Floor, Building A6, YangBei Industrial Zone, HuangTian, HangCheng street, BaoAn, ShenZhen, GuangDong, China 518128
Product description	
Product: 5	5 in1 Wireless Charging Station
Trade Name	ADAM
Model Name	OMNIA Q5, APAADQ5OGBK
Standards:	FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03
Co., Ltd., and the test results s with the FCC requirements. Ar report. This report shall not be reprod document may be altered or r	has been tested by Shenzhen United Testing Technology show that the equipment under test (EUT) is in compliance and it is applicable only to the tested sample identified in the duced except in full, without the written approval of UNI, this revised by Shenzhen United Testing Technology Co., Ltd. oted in the revision of the document.
Date of Test	:
Date (s) of performance of tests	: Nov. 26, 2021 ~ Dec. 21, 2021
Date of Issue	: Dec. 22, 2021
Test Result	: Pass
Prepared by:	kahn.yang
	Kahn yang/Editor
	Shy day
Reviewer:	Sky dong/Supervisor
	Pivel
Approved & Authorized Signe	er:Liuze/Manager

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Channel List											
Channel	Frequency(KHz)	Channel	Frequency(MHz)								
01	125										

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

1. SUMMARY OF TEST RESULTS

1.1 Test procedures according to the technical standards: FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47										
Standard Section	Judgment	Remark								
FCC CFR 47 part1,	Electric Field Strength (E) (V/m)	PASS								
1.1310 KDB680106 D01 v03(3)(3)	Magnetic Field Strength (H) (A/m)	PASS								

Compliant with KDB680106 D01 RF Exposure Wireless Charging Apps v03 section 5, b:

- a) Power transfer frequency is less than 1 MHz.
 Yes, the working frequency is 125KHz.
- b) Output power from each primary coil is less than or equal to 15 watts.

 Yes, the maximum output power of iPad Charging Port is 15 watts, others are 5 watts.
- c) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

Yes, three primary coils can work at the same time to charge three clients.

- 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, EUT is for mobile exposure conditions only.
- 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.

 Yes, EUT h-field strengths levels are less than 50% of the MPE limit.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Radiated Measurement (9KHz-30MHz)	±2.50dB
2	Temperature	±0.5°C
3	Humidity	±2%

1.3 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Until
Broadband Field Meter	NARDA	NBM-550		Jan. 01, 2022
Magnetic Field Meter	NARDA	ELT-400	1–400kHz	Jan. 01, 2022
Magnetic Probe	NARDA	HF-3061	300kHz-30MHz	Jan. 01, 2022
Magnetic Probe	NARDA	HF-0191	27–1000MHz	Jan. 01, 2022
Broadband Field Meter	NARDA	NBM-550		Jan. 01, 2022
Electric Field Meter	COMBINOVA	EFM 200	5Hz-400kHz	Jan. 01, 2022
E-Field Probe	NARDA	EF-0391	100kHz–3GHz	Jan. 01, 2022
E-Field Probe	NARDA	EF-6091	100MHz-60GHz	Jan. 01, 2022

NOTE: The calibration interval of the above test instruments is 12 months.

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

	Limits for Occupational / Controlled Exposure										
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m) Power Density (S) (mW/ cm²)		Averaging Time E ², H ² or S (minutes)							
0.3-3.0	614	1.63	(100)*	6							
3.0-30	1842 / f	4.89 / f	(900 / f)*	6							
30-300	61.4	0.163	1.0	6							
300-1500			F/300	6							
1500-100,000			5	6							
	Limits for Genera	al Population / Uncontro	olled Exposure								
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	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							

Note 1: f = frequency in MHz; *Plane-wave equivalent power density.

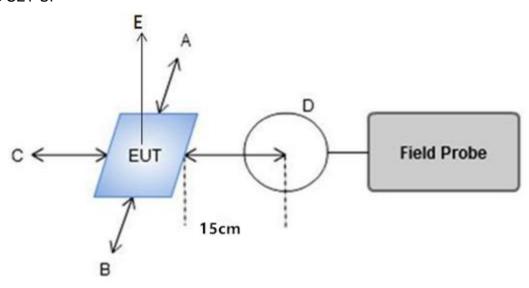
^{2:} For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.

^{3:} Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

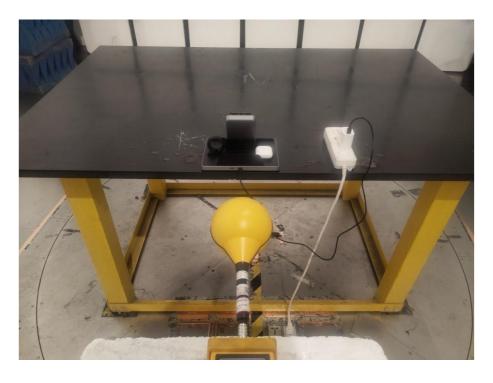
2.2 TEST PROCEDURE

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be at 15 cm surrounding the device and 20 cm above the top surface. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair at 15 cm surrounding the device and 20 cm above the top surface.

2.3 SET UP



2.4 TEST PHOTO



3. RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

For Full load mode:

E-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (V/m)

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Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (V/m)	(V/m)
0.125	1.22	1.18	1.15	1.15	1.17	307	614

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

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Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	(A/m)
0.125	0.17	0.22	0.18	0.22	0.20	0.815	1.63

For Half load mode:

E-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		Limits Test (V/m)
0.125	1.16	1.18	1.17	1.15	1.15	307	614

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	(A/m)
0.125	0.20	0.20	0.18	0.15	0.16	0.815	1.63

For No load mode:

E-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (V/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (V/m)	(V/m)
0.125	1.18	1.15	1.16	1.16	1.20	307	614

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

Frequency	Test	Test	Test	Test	Test		Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E		(A/m)
0.125	0.22	0.20	0.18	0.18	0.16	0.815	1.63
