

廠商會檢定中心

TEST REPORT

Report No.	:	AW0071063(6)	Date :	21 De	c 2018
Application No.	:	LW025881(2)			
Applicant	:	KODA ELECTRONICS (HK) CO., LTD. 2/F MANDARIN COMMERCIAL HOUSE 38 MORRISON HILL ROAD, WANCHAI, HONG KONG	Ξ,		
Buyer / Brand name	:	NONSTOP			
Sample Description	:	One(1) item of submitted sample stated to be			
		Sample description			Model No
		Alarm Clock/Charging station with Dual USB (Black) US ver	and Qi Wirel	less	Station W- Black
		Alarm Clock/Charging station with Dual USB	and Qi Wirel	less	Station W-
		(White/Wood.) US ver.		,	White/Wood
		Sample registration No.: RW035893-001,Radio Frequency: 155.15KHzSupply voltage: AC100-240 to De Model: OBL-090No. of submitted sample: (Two) set(s)	RW035893-(C9V adaptor)3500U	002	
Date Received	:	20 Aug 2018.			
Test Period	:	20 Aug 2018 to 31 Aug 2018.			
Test Requested	:	RF Exposure			
Test standard	:	KDB 680106 D01 RF Exposure Wireless Cha 47 CFR Part 2 section 2.1091	arging App v	03	
Test Result	:	See attached sheet(s) from page 2 to 14.			
Conclusion	:	The submitted sample complies with RF Exp	osure require	ments.	
		For and on behalf of CMA Industrial Development Foundation	on Limited		
Authorized Signature	e :	PP.			Page 1 of 14
Mr. WONG Lap-pong, Andrew Manager					

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Electrical Division



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Remark	:	All Two models are the same in circuitry and c W-Black was chosen to be the representative of	omponents; and f the test samp	nd therefore model Station ble. The difference(s)

between the tested model and the declared model(s) is/are: Model no. and Color. This report supersedes the test report no. AW0052539(2) issued on 04 Sep 2018.

Fo. CN	MA Industrial Development Foundation Limited	
Authorized Signature :	Mr. WONG Lap-pong Andrew	Page 2 of 14
	Electrical Division	
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1 General Information

1.1 General Description

The Station W is a digital clock with Wireless, USB charging and dual alarm clock functions. It was powered by AC100-240V to DC9V adaptor with maximum 3.5A output current.

Once the Time, Date and Alarm set correctly, the current time and setting will be showing on the LED display. The end user can access all functions by pressing SNOOZE/DIMMER, Alarm and Backlight switch.

Two USB charging ports are located on the front panel and one wireless charging pad located on the top of Station W.

The symbol "+" provides 1A charging current and symbol "++" provides 2.4A. The maximum power of wireless charging pad is maximum 10W. No data communication for both USB ports and wireless charging pad for portable devices.

The brief circuit description is listed as follows:

- M835 and its associated circuit act as alarm clock and LED controller.
- X1 32.768KHz crystal and its associated circuit act as oscillator for MCU M835.
- X2001, AS5003 and its associated circuit act as USB charging controller.
- U2(6206), U3(54C), U5(IC6118) and its associated circuit act as voltage controller for MCU M835.
- U5(IC 7113) and its associated circuit act as voltage controller for wireless charging pad.
- U4 and wireless charging pad and its associated circuit act as wireless charging.
- Q2 Q5 (AON7410), and its associated circuit act as voltage controller.
- U1 BEE301 and U2 LM324 (U2A U2E) and its associated circuit act as voltage controller for wireless charging.

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1.2 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2014. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre, 9 – 13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 - 2014. A shielded room is located at :

Ground Floor, Yan Hing Centre, 9 – 13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong.

FCC Accredited Lab (Designation Number: HK0004)

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1.3 List of measuring equipment

				Calibration	Calibration
Equipment	Manufacturer	Model No.	Serial No.	Due Date	Period
Field meter	Wave control	SMP2	17SN0649	19 Dec 2019	2 years
Field probes	Wave control	WP400	17WP100 365	19 Dec 2019	2 years

Supporting equipment:

- 1) USB dummy loading 1A (submitted by applicant)
- 2) USB dummy loading 2.4A (submitted by applicant)
- 3) Wireless dummy loading 10W (submitted by applicant)

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1.4 Measurement Uncertainty

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

RF Exposure

Test Item	Uncertainty
Electric Field Strength (E)	+/- 4.3%
Magnetic Field Strength (H)	+/- 4.3%

1.5 Test Summary

Test Item	FCC Reference	Result
Electric Field Strength (E) (V/m)	47 CFR Part 1, 1.1310	Comply
Magnetic Field Strength (H) (A/m)	47 CFR Part 1, 1.1310	Comply

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2 Description of the radiated emission test

2.1 Test Procedure

Electric Field Strength (E) (V/m) and Magnetic Field Strength (H) (A/m) are investigated and taken pursuant to the procedures of KDB 680106 D01 RF Exposure Wireless Charging App v03.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of $1.5m \times 0.4m \times 0.8m$ (L x W x H) above the reference ground plane.

The aggregate H-field and E-Field strengths measured at 15 cm surrounding the EUT and 20 cm above the top surface from all simultaneous transmitting coils. Measurements made from all sides and the top of the primary/client pair, with the 15cm or 20cm distance between center of the probe(s) and edge of the device.

A dummy wireless loading was placed on the top of transmitting coil for charging mode operation.

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2.2 Test Setup





Position of EUT

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Charging mode

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2.3 RF Exposure Measurement Data

Environmental conditions:		
Ambient temperature:	24.5	° C
Relative humidity:	69.2	%

Operation Mode:

Electric field

Maximum Permissible Exposure							
Probe from EUT position	Separation	E-field (V/m)	E-field limit (V/m)	E-field margin (V/m)			
А	15cm	2.14	614	-611.86			
В	15cm	2.85	614	-611.15			
С	15cm	3.56	614	-610.44			
D	15cm	3.16	614	-610.84			
E	20cm	2.64	614	-611.36			

Magnetic Field

Maximum Permissible Exposure							
Probe from EUT position	Separation	H-field (A/m)	H-field limit (A/m)	H-field margin (A/m)			
А	15cm	0.03	1.63	-1.60			
В	15cm	0.02	1.63	-1.61			
С	15cm	0.05	1.63	-1.58			
D	15cm	0.02	1.63	-1.61			
Е	20cm	0.08	1.63	-1.55			

Test Result:

It was found that the EUT meet the FCC requirements

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69.2

Standby mode

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Environmental condition	ons:					
Ambient temperature:		24.5	°C			

%

Operation Mode:

Relative humidity:

Electric field								
Maximum Permissible Exposure								
Probe from EUT position	Separation	E-field (V/m)	E-field limit (V/m)	E-field margin (V/m)				
А	15cm	1.91	614	-612.09				
В	15cm	1.87	614	-612.13				
С	15cm	2.32	614	-611.68				
D	15cm	2.46	614	-611.54				
Е	20cm	1.87	614	-612.13				

Magnetic Field

Maximum Permissible Exposure								
Probe from EUT position	Separation	H-field (A/m)	H-field limit (A/m)	H-field margin (A/m)				
А	15cm	0.02	1.63	-1.61				
В	15cm	0.02	1.63	-1.61				
С	15cm	0.03	1.63	-1.60				
D	15cm	0.02	1.63	-1.61				
Е	20cm	0.07	1.63	-1.56				

Test Result:

It was found that the EUT meet the FCC requirements.

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	A1.	External Photo	1	page(s)	
	A2.	Test setup	1	page(s)	

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A1. External Photo



External Photo Black color



External Photo White color

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A2. Test Setup



Charging mode



Standby mode **** End of Report *****

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