# **FCC ID: 2A72Z-U3**

Product Name:	NIGHT LIGHT WIRELESS CHARGER
Product Model No.:	U3
Transmitting mode	Keep the EUT in continuously wireless charging mode
Power supply:	Input: 9V/3A Wireless Charging Output: 5W/7.5W/10W/15W
Date of Receipt:	May. 10, 2023
Test Date:	May. 10, 2023 - May. 23, 2023
Date of Report:	May. 23, 2023

Test Modes:				
Mode1.	Wireless Charging Output(5W)	Mode2.	Wireless Charging Output(7.5W)	
Mode2. Wireless Charging Output(10W) Mode4. Wireless Charging Output(15W)				
ote: 1. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is				
nowed in this report.				

2. All modes have been tested, and the report only shows the results of the worst mode 4.

## **RF Exposure Evaluation**

#### 1 Measuring Standard

KDB 680106 RF Exposure Wireless Charging Apps v03r01

#### 2 Requirements

According to the item 5 of KDB 680106 v03r01:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

(1) Power transfer frequency is less than 1MHz.	Yes; the device operate in the frequency range
	from 115 KHz to 205 KHz
(2) Output power from each primary coil is less than or	Yes; the maximum output power of the primary
equal to 15 watts.	coil is 15W.
(3) The system may consist of more than one source	Yes; the transfer system includes only one
primary coils, charging one or more clients. If more than	primary coils.
one primary coil is present, the coil pairs may be	
powered on at the same time.	
(4) Client device is placed directly in contact with the	Yes; Client device is placed directly in contact
transmitter.	with the transmitter.
(5) Mobile exposure conditions only (portable exposure	Yes, mobile exposure conditions only.
conditions are not covered by this exclusion).	
(6) The aggregate H-field strengths anywhere at or	Yes, see test result in item 6.
beyond 15 cm surrounding the device, and 20 cm away	

from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Remark: Meet all the above requirements.

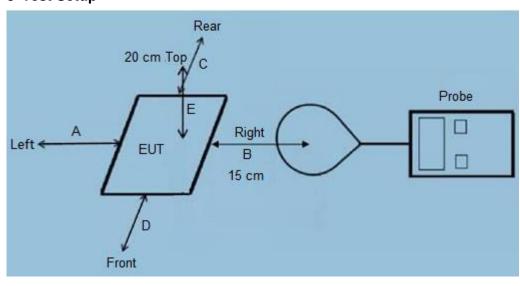
#### Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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)			
	(A) Limits for Occupational/Controlled Exposures						
0.3-3.0	614	1.63	*(100)	6			
3.0-30	1842/f	4.89/f	*(900/f²)	6			
30-300	61.4	0.163	1.0	6			
300-1500	/	1	f/300	6			
1500-100,000	/	1	5	6			
(B) Limits for General Population/Uncontrolled Exposure							
0.3-1.34	614	1.63	*(100)	30			
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30			
30-300	27.5	0.073	0.2	30			
300-1500	/	/	f/1500	30			
1500-100,000	/	1	1.0	30			

#### 3 Test Setup



#### **4 Test Procedure**

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (15 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 v03r01.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

F=frequency in MHz \*=Plane-wave equivalent power density

FF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

## **5 Description of Support Units**

Adapter (Provide by test lab): Mobile phone (Provide by test lab):

Manufacturer: XIAOMI Manufacturer: SAMSUNG

Model: AD65G Model: Galaxy S21 5G

I/P: AC 100-240V 50/60Hz

O/P: DC 5V/3A, DC 9V/3A, DC 10V/5A, DC 12V/3A, DC 15V/3A, DC 20V/3.25A

#### **6 Test Instruments list**

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	N-0231	June. 25 2022	June. 26 2023
Magnetic field probe 100cm <sup>2</sup>	Narda	ELT probe 100cm <sup>2</sup>	M0675	June. 25 2022	June. 26 2023
Field Probe	ETS	HI-6105	/	June. 25 2022	June. 26 2023
Laser Data Interface	ETS	HI-6113	/	June. 25 2022	June. 26 2023

## 7 Test Uncertainty

E-Filed Strength : ±0.08V/m

H-Filed Strength :  $\pm 0.02 A/m$ 

### 8 Test Result

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

Frequency Range	Test	Test	Test	Test	Limits
(MHz)	Position A	Position B	Position C	Position D	(V/m)
0.115-0.205	0.23	0.14	0.16	0.17	614

## E-Filed Strength at 20 cm from the top of the EUT (V/m)

Frequency Range	Test	Limits
(MHz)	Position E	(V/m)
0.115-0.205	0.12	614

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

Frequency Range	Test	Test	Test	Test	Limits
(MHz)	Position A	Position B	Position C	Position D	(A/m)
0.115-0.205	0.03	0.15	0.06	0.14	1.63

## H-Filed Strength at 20 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)	
0.115-0.205	0.13	1.63	

## 9 Test Set-up Photo

Please see annex test setup photos.