

# **MPE TEST REPORT**

Report No:STS2206317H01

Issued for

Gopod Group Limited.

6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong, China

Product Name:	2-in-1 Magnetic Wireless Charger Stand
Brand Name:	N/A
Model Name:	BE-MQ221W23
Series Model:	BE-MQ221xxxxxxxxx, NS-MQ221xxxxxxxxx. ("x"=0-9, A-Z, a-z, - or blank, for market purpose only)
FCC ID:	2AQZH-MQ221W23
Test Standard:	FCC CFR 47 part 1, 1.1310

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APPROVAL

Shenzhen STS Test Services Co., Ltd.
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Report No.: STS2206317H01



•	TEST RESULT CERTIFICATION
Applicant's Name:	Gopod Group Limited.
Address:	$6/\text{F.},\ 235$ Wing Lok Trade Centre, Sheung Wan, Hong Kong, China
Manufacturer's Name:	Gopod Group Limited.
Address:	$6/F.,\ 235$ Wing Lok Trade Centre, Sheung Wan, Hong Kong, China
Product Description	
Product Name:	2-in-1 Magnetic Wireless Charger Stand
Brand Name:	N/A
Model Name:	BE-MQ221W23
Series Model:	BE-MQ221xxxxxxx, NS-MQ221xxxxxxx. ("x"=0-9, A-Z, a-z, - or blank, for market purpose only)
Standards:	FCC CFR 47 part 1, 1.1310
Test Procedure:	680106 D01 RF Exposure Wireless Charging Apps v03
under test (EUT) is in compliance sample identified in the report. This report shall not be reproduce	been tested by STS, the test results show that the equipment with the FCC requirements. And it is applicable only to the tested ed except in full, without the written approval of STS, this document is, personal only, and shall be noted in the revision of the document.
Date of receipt of test item:	28 June 2022
Date of performance of tests:	28 June 2022 ~ 01 July 2022
Date of Issue:	01 July 2022
Test Result:	Pass
Testing Enginee	ching cher
	(Chris Chen)
Technical Manaç	ger: Seun She APPROVAL
	(Sean She)

(Bovey Yang)

Authorized Signatory:



Table of Contents	Page
1. SUMMARY OF TEST RESULTS	5
1.1 TEST FACTORY	5
1.2 MEASUREMENT UNCERTAINTY	5
1.3 GENERAL DESCRIPTION OF THE EUT	6
1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS	7
1.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	7
2. MAXIMUM PERMISSIBLE EXPOSURE	8
2.1 MAXIMUM PERMISSIBLE EXPOSURE	8
2.2 TEST PROCEDURE	9
2.3 TEST SETUP	9
2.4 TEST RESULTS	9
2.5 MAXIMLIM PERMISSIBLE EXPOSURE	10

**Revision History** 



Report No.: STS2206317H01

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	01 July 2022	STS2206317H01	ALL	Initial Issue





Report No.: STS2206317H01

#### 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47				
Standard Section	Test Item	Judgment	Remark	
FCC CFR 47 part1,	Electric Field Strength (E) (V/m)	PASS		
1.1310 KDB680106 D01v03	Magnetic Field Strength (H) (A/m)	PASS		

#### 1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,

Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

#### 1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainly
1	H-filed	±0.83dB
2	E-filed	±0.91dB



#### 1.3 GENERAL DESCRIPTION OF THE EUT

Product Name	2-in-1 Magnetic Wireless Charger Stand
Trade Name	NA
Model Name	BE-MQ221W23
Series Model	BE-MQ221xxxxxxxx, NS-MQ221xxxxxxxx. ("x"=0-9, A-Z, a-z, - or blank, for market purpose only)
Model Difference	All models are identical except the model number or color for different market purpose.
Equipemnt Category	Non-ISM frequency
Antenna Type	Please refer to the Note 2.
Operating frequency	111-205kHz
Modulation Type	FSK
Adapter	Model: DCT18W120150US-Y0 Input: AC 100-240V, 50/60Hz, 0.7A Output: DC 12V, 1.5A
Hardware version number	N/A
Software version number	N/A
Connecting I/O Port(s)	Please refer to the Note 1.

#### Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	NOTE
1	N/A	BE-MQ221W23	Coil	NA	Antenna

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

Report No.: STS2206317H01



1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Electric and					
Magnetic field	Narda	EHP 200A	180ZX10220	2021.08.02	2022.08.01
Probe - Analyzer					

# 1.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	lphone	lphone	lphone 8	N/A	N/A
E-2	Charging Box	N/A	N/A	N/A	N/A

#### Note:

- (1) For detachable type I/O cable should be specified the length in cm in Length a column.
- (2) "YES" is means "with core"; "NO" is means "without core".



#### 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 General Population / Uncontrolled 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

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

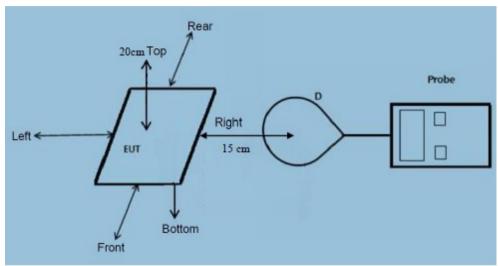
Note 4: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.



#### 2.2 TEST PROCEDURE

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 15cm(Edge). 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, with the 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.

#### 2.3 TEST SETUP



Remark: The EHP 200A probe antenna diameter is less than 11.5cm.

#### 2.4 TEST RESULTS

The EUT does comply with item 5 KDB680106 D01 v03.

- (1) Power transfer frequency is less than 1 MHz. (Conform)
- (2) Output power from each primary coil is less than or equal to 15 watts. (Conform)
- (3) 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. (Conform)
- (4) Client device is placed directly in contact with the transmitter. (Conform)
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).(Conform)
- (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. (Conform)



### 2.5 MAXIMUM PERMISSIBLE EXPOSURE

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
< 1% Battery	15cm	Front	0.441	0.108
< 1% Battery	15cm	Rear	0.418	0.115
< 1% Battery	15cm	Left	0.423	0.114
< 1% Battery	15cm	Right	0.445	0.122
< 1% Battery	20cm	Тор	0.480	0.141
Limit			614	1.630
Margin Limit (%)			0.08%	8.65%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
50% Battery	15cm	Front	0.463	0.114
50% Battery	15cm	Rear	0.425	0.094
50% Battery	15cm	Left	0.44	0.117
50% Battery	15cm	Right	0.431	0.125
50% Battery	20cm	Тор	0.471	0.136
Limit			614	1.630
Margin Limit (%)			0.08%	8.34%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
> 99% Battery	15cm	Front	0.454	0.115
> 99% Battery	15cm	Rear	0.433	0.113
> 99% Battery	15cm	Left	0.433	0.106
> 99% Battery	15cm	Right	0.444	0.111
> 99% Battery	20cm	Тор	0.461	0.131
Limit			614	1.630
Margin Limit (%)			0.08%	8.04%



## **MPE SETUP PHOTO**

Refer to photos documents

\*\*\*\*\*END OF THE REPORT\*\*\*\*

