

Global United Technology Services Co., Ltd.

Report No.: GTS202003000169E03

RF Exposure Report

Applicant:

Address of Applicant:

Manufacturer:

Address of

Manufacturer:

Equipment Under Test (EUT)

Product Name: Fiko wireless charging portfolio A4 with powerbank &

Fiko wireless charging portfolio A5 with powerbank

Model No.: P774.071, P774.081

EN 62311: 2008 **Applicable standards:**

Date of sample receipt: December 04, 2019

Date of Test: December 04-09, 2019

Date of report issue: March 25, 2020

PASS * Test Result:

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 2014/53/EU are considered.

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver. Page 1 of 7

^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Report No.	Version No.	Date	Description	
GTS201912000029E03	00	December 09, 2019	Original	
GTS202003000169E03	01	March 25, 2020	Change product name, model number	
			and appearance.	

Prepared By:	Joseph Cu	Date:	March 25, 2020
	Project Engineer		
Check By:	Job This and A	Date:	March 25, 2020
	Reviewer		



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4 General Information

4.1 General Description of EUT

Product Name:	Fiko wireless charging portfolio A4 with powerbank &			
	Fiko wireless charging portfolio A5 with powerbank			
Model No.:	P774.071, P774.081			
Test Model No:	P774.071			
	Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance and model name for commercial purpose.			
Operation Frequency:	110-205kHz			
Modulation type:	Backscatter modulation			
Antenna Type:	Inductive loop coil Antenna			
Antenna Gain:	0dBi			
Power Supply:	Input: DC 5V 2A			
	Output: DC 5V 1A			



4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

• IC —Registration No.: 9079A

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

4.3 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

4.4 Description of Support Units

None.

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.



5 Technical Requirements Specification in EN 62311

Test Requirement:	EN 62311	ioation in	LITOLOI	<u>•</u>		
Test Method:	EN 62311					
General Description of Applied Standards	EN 62311 Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz–300 GHz) is to demonstrate the compliance of apparatus with the basic restrictions or reference levels on exposure of the general public related to electric, magnetic, electromagnetic fields as well as induced and contact current.					
Limit:	According to EN 62311, the criteria listed in the below table shall be used to evalouate the environmental inpact of human exposure to radio-frequency (RF) radiation as specified table 2 of Council Recommendation 1999/519/EC.					
Reference levels for electric, magnet (0 Hz to 300 GHz, unper						
	Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S _{eq} (W/m²)	
	0-1 Hz 1-8 Hz 8-25 Hz 0,025-0,8 kHz 0,8-3 kHz 3-150 kHz 0,15-1 MHz 1-10 MHz 10-400 MHz 400-2 000 MHz 2-300 GHz Notes: 1. f as indicated in the	— 10 000 10 000 250/f 250/f 87 87 87/f ¹ / ² 28 1,375 f ¹ / ² 61	3,2 × 10 ⁴ 3,2 × 10 ⁴ f ² 4 000/f 4/f 5 5 0,73/f 0,73/f 0,073 0,0037 f ² / ² 0,16	4 × 10 ⁴ 4 × 10 ⁴ f ² 5 000/f 5/f 6,25 6,25 0,92/f 0,92/f 0,092 0,0046 f ² 0,20	 2 ff200	
Test method:	1. f as indicated in the frequency range column. According to the Far field calculation formula: Far Field Calculation Formula					
rest method.						
	$E = \frac{\sqrt{30PG(\theta,\phi)}}{r}$ G = antenna gain relative to an isotropic antenna $\theta, \phi = \text{elevation and azimuth angles to point of investigation}$ $r = \text{distance from observation point to the antenna}$ The antenna of the product, under normal use condition is at least 20cm away from the body of the user. Warning statement of the user for keeing 20cm separation distance and the prohibition of operating to a person has been printed on the user manual. So, this product under normal use is located on electromagnetic far field between the human body.}					
Result:	Pass					

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Measurement Data:

Frequency (kHz)	Output Power (mW)	E Field Strength (V/m)	Limit (V/m)	Result
175.00	0.0001	0.0086	4.62	Pass

-----End-----