

Report No.: GTS201912000029E03

# **RF Exposure REPORT**

Applicant:	
Address of Applicant:	
Manufacturer:	
Address of Manufacturer: Equipment Under Test (E	EUT)
Product Name: Model No.:	Air 5W wireless charging portfolio A4 with powerbank & Air 5W wireless charging notebook cover A5 P774.05, P774.04
Applicable standards:	EN 62311: 2008
Date of sample receipt:	December 04, 2019
Date of Test:	December 04-09, 2019
Date of report issue:	December 09, 2019
Test Result :	PASS *

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

8019 Robinson Lo

Laboratory Manager This results shown in this test report refer only

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# 2 Version

Version No.	Date	Description
00	December 09, 2019	Original

Prepared By:

Check By:

Jamellu

Date:

December 09, 2019

**Project Engineer** 

Date: obinson

Reviewer

December 09, 2019

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# 4 General Information

# 4.1 General Description of EUT

Product Name:	Air 5W wireless charging portfolio A4 with powerbank & Air 5W wirel charging notebook cover A5			
Model No.:	P774.05, P774.04			
Test Model No:	P774.05			
	Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are color 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				
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, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)				
	Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S <sub>eq</sub> (W/m <sup>2</sup> )
	0-1 Hz	_	3,2 × 104	$4 \times 10^4$	_
	1-8 Hz	10 000	$3,2\ \times\ 10^4/f^2$	$4 \times 10^{4}/f^{2}$	_
	8-25 Hz	10 000	4 000/f	5 000/f	-
	0,025-0,8 kHz	250/f	4/f	5/f	-
	0,8-3 kHz	250/f	5	6,25	-
	3-150 kHz	87	5	6,25	-
	0,15-1 MHz	87	0,73/f	0,92/f	-
	1-10 MHz	87/f <sup>1/2</sup>	0,73/f	0,92/f	_
	10-400 MHz	28	0,073	0,092	2
	400-2 000 MHz	1,375 f <sup>1/2</sup>	0,0037 f <sup>1/2</sup>	0,0046 f <sup>1/2</sup>	f/200
	2-300 GHz	61	0,16	0,20	10
	Notes:				
	1. $f$ as indicated in the	frequency range colu	ımn.		
Test method:	According to the	e Far field ca	Iculation form	ula:	
	$\mathbf{Far \ Field \ Calculation \ Formula}$ $E = \frac{\sqrt{30PG(\theta, \phi)}}{r}$ $G = \text{antenna gain relative to an isotropic antenna}$ $\theta, \phi = \text{elevation and azimuth angles to point of investigation}$ $\mathbf{r} = \text{distance from observation point to the antenna}$				
	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	Output Power	E Field Strength	Limit	Result
(kHz)	(mW)	(V/m)	(V/m)	
175.00	0.0001	0.0086	4.62	Pass

-----End-----