RF Exposure Report

APPLICANT	:	ASUSTeK COMPUTER INC.
EQUIPMENT	:	Wireless Charger
BRAND NAME	:	ASUS
MODEL NAME	:	PW100
FCC ID	:	MSQPW100
STANDARD	:	FCC CFR 47 part 1, 1.1307(b) and 1.1310 KDB 680106 D01v02

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

Approved by: Jones Tsai / Manager

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA3O1513	Rev. 01	Initial issue of report	Oct. 22, 2013
FA3O1513	Rev. 02	1. Correct the H-field limit on page8. 2. Added note2 on page8.	Oct. 31, 2013

1. Administration Data

1.1. Applicant

Company Name	ASUSTeK COMPUTER INC.
Address	4F, 150 Li-Te Rd., Peitou, Taipei, Taiwan

1.2. Manufacturer

Company Name	DONGGUAN PRIMAX ELECTRONICS & TELECOMMUNICATION PRODUCTS LTD.
Address	Er Village, Liuwu District, Shekkit Town, Dongguan City, Guangdong Province, China

2. General Information

Product Feature & Specification	
EUT	Wireless Charger
Brand Name	ASUS
Model Name	PW100
Frequency Range	112 KHz ~ 205 KHz
Antenna Type	Loop Antenna
Power Source	Travel adapter Input : AC 100-240 V, 50/60 Hz Output : DC 5 V, 2.0 A Test Voltage and Frequency : AC 120 V, 60 Hz
Date of Test	Oct. 16, 2013
Remark: 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.	

3. Test Mode

This device has been tested in the worst case mode of charging mode as below conditions:

Test Mode	Support Equipment	Charging Current Condition
TM1	Client Device	< 1% Battery status
TM2	Client Device	50% Battery status
TM3	Client Device	Near 100% Battery status

Support Equipment:

Description	Manufacturer	Model Name	Power Source
Wireless charging mobile power	Panasonic	QE-PL201	DC: 3.7V 5400 mAh

4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Freq Rang	Last Cal.	Due Date
Exposure Level Tester	Narda	ELT-400	N-0210	1Hz~400kHz	Jun. 26, 2013	Jun. 25, 2014
Field Sensor	ETS-Lindgren	HI-6105	00086972	100kHz ~ 6GHz	May 14, 2013	May 13, 2014

5. Radio frequency radiation exposure limits

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	* 100	6
3.0-30	1842/f	4.89/f	$*\ 900/f^2$	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			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	$*\ 180/f^2$	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

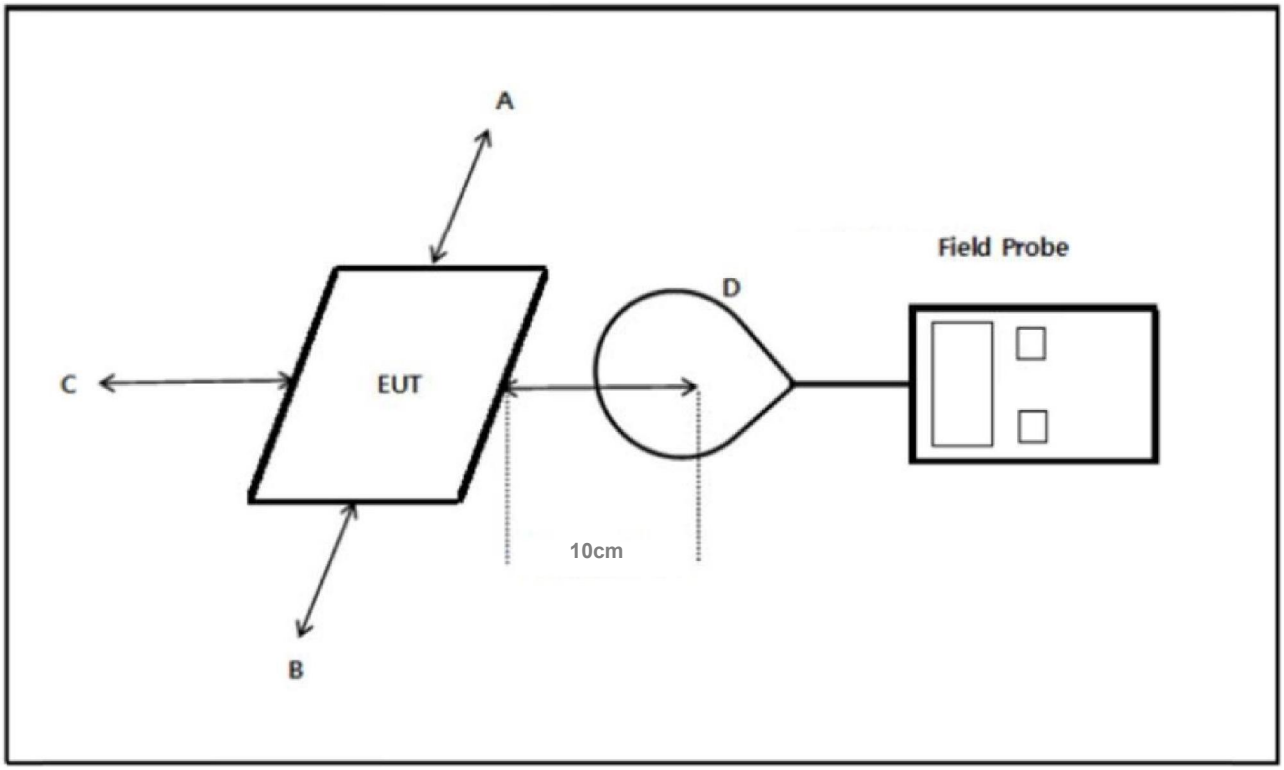
f = frequency in MHz

* = Plane-wave equivalent power density

(1) Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure. The phrase fully aware in the context of applying these exposure limits means that an exposed person has received written and/or verbal information fully explaining the potential for RF exposure resulting from his or her employment. With the exception of transient persons, this phrase also means that an exposed person has received appropriate training regarding work practices relating to controlling or mitigating his or her exposure. Such training is not required for transient persons, but they must receive written and/or verbal information and notification (for example, using signs) concerning their exposure potential and appropriate means available to mitigate their exposure. The phrase exercise control means that an exposed person is allowed to and knows how to reduce or avoid exposure by administrative or engineering controls and work practices, such as use of personal protective equipment or time averaging of exposure.

(2) General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

6. Test Setup



7. RF Exposure Evaluation

1. The equipment under test was placed on a wooden desk inside of shield room. Then, a preliminary scan was performed to determine the positions of maximum electromagnetic field at five positions (Above ,Top, Right , Left , Bottom edges) and specific distance based (10cm)on the general separation distance between this product and human body as following table.
2. This device and the test result is compliance with FCC KDB 680106 D01v02 item 5.2) below, can be excluded from FCC submitting an RF exposure evaluation.
   (a) Power transfer frequency is less that 1 MHz
   (b) Output power from each primary coil is less than 5 watts
   (c) 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
   (d) Client device is inserted in or placed directly in contact with the transmitter
   (e) The maximum coupling surface area of the transmit (charging) device is between 60cm² and 400cm²
   (f) Aggregate leakage fields at 10 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% of the MPE limit.

E-Field Measurement (V/m)					
Position (Distance 10cm)	A	B	C	D	Limit
TM1	4.41	4.63	3.94	6.13	614
TM2	4.21	4.32	3.75	5.74	
TM3	4.01	4.22	3.53	5.81	

H-Field Measurement (A/m)					
Position (Distance 10cm)	A	B	C	D	Limit
TM1	0.040	0.043	0.035	0.091	1.63
TM2	0.038	0.040	0.033	0.084	
TM3	0.039	0.041	0.034	0.078	

Conclusion:

The field strength limit refers to Part 1.1310 and the test result of exposure evaluation is compliant. 30% of the MPE limit. (E- Field: 184 V/m; H-field: 0.489A/m).