

## **RF Exposure Report**

Report No.: SA150924D04

FCC ID: 2ADB4-FF05-05DB

Test Model: FF05-05DB

Received Date: Aug. 11, 2015

Test Date: Oct. 26, 2015

**Issued Date:** Oct. 27, 2015

**Applicant:** Foxconn Interconnect Technology Limited Taiwan Branch

Address: No. 66-1, JHONGSHAN RD., TUCHENG DIST., NEW TAIPEI CITY 23680,

TAIWAN (R.O.C.)

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

(R.O.C.)





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### **Release Control Record**

Issue No.	Description	Date Issued
SA150924D04	Original release.	Oct. 27, 2015



### 1 Certificate of Conformity

Product: A4WP 5W OTT PTU

**Brand:** RATTAN

Test Model: FF05-05DB

**Sample Status:** Engineering sample

Applicant: FOXCONN INTERCONNECT TECHNOLOGY LIMITED TAIWAN BRANCH

**Test Date:** Oct. 26, 2015

**Standards:** FCC Part 1 (Section 1.1307(b), 1.1310)

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by: Annie Chang, Date: Oct. 27, 2015

Annie Chang / Senior Specialist

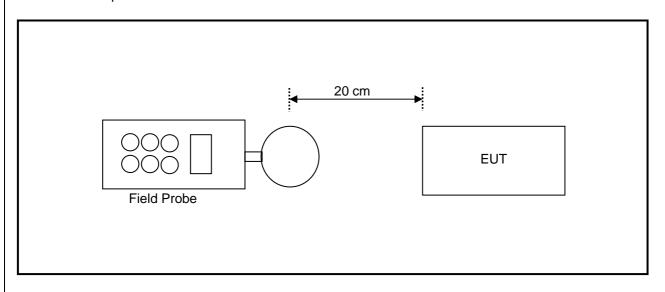
**Approved by:** , **Date:** Oct. 27, 2015

Rex Lai / Assistant Manager



### 2 RF Exposure

### 2.1 Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm measured from the center of the probe(s) to the edge of the device.

### 2.2 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Date	Calibrated Until
Broadband Field Meter	NARDA	NBM-550	-	Feb. 28, 2014	Feb. 27, 2016
Magnetic Field Meter	NARDA	ELT-400	1 – 400kHz	Feb. 26, 2014	Feb. 25, 2016
Magnetic Probe	NARDA	HF-3061	300kHz – 30MHz	Feb. 26, 2014	Feb. 25, 2016
Magnetic Probe	NARDA	HF-0191	27 – 1000MHz	Feb. 28, 2014	Feb. 27, 2016
Broadband Field Meter	NARDA	NBM-550	-	Feb. 28, 2014	Feb. 27, 2016
Electric Field Meter	COMBINOVA	EFM 200	5Hz – 400kHz	Oct. 26, 2015	Oct. 13, 2016
E-Field Probe	NARDA	EF-0391	100kHz – 3GHz	Mar. 6, 2014	Mar. 5, 2016
E-Field Probe	NARDA	EF-6091	100MHz – 60GHz	Feb. 28, 2014	Feb. 27, 2016

**NOTE:** 1. The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in Chia Pau RF Chamber



#### 2.3 Limits For Maximum Permissible Exposure (MPE)

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(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.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

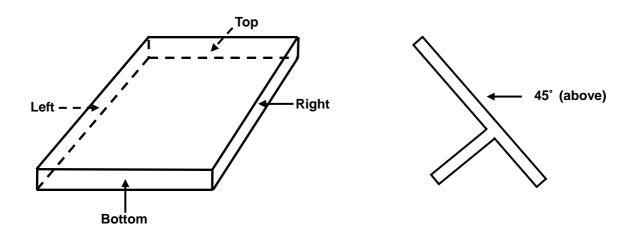
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposur	es	
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300–1500			f/300	6
1500-100,000			5	6
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure	
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f²)	30
30–300	27.5	0.073	` 0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

\* = Plane-wave equivalent power density
NOTE 1 TO TABLE 1: Occupational/controlled 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 an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

#### **Test Point Description** 2.4



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### 3 Calculation Result Of Maximum Conducted Power

### 10% Load with iPhone

E-Field Measurement (20cm)							
EUT Side	Left	Right	Тор	Bottom	45° (above)		
Max E-field (V/m)	5.69	5.91	3.71	3.94	5.67		
Limit 824/f (V/m)	121.50	121.50	121.50	121.50	121.50		
Margin (V/m)	-115.81	-115.59	-117.79	-117.56	-115.83		

H-Field Measurement (20cm)							
EUT Side	Left	Right	Тор	Bottom	45° (above)		
Max H-field (A/m)	0.092	0.092	0.070	0.082	0.250		
Limit 2.19/f (A/m)	0.323	0.323	0.323	0.323	0.323		
Margin (A/m)	-0.231	-0.231	-0.253	-0.241	-0.072		

Measurements was made from all sides and the top of the primary/client pair, with the 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

### 50% Load with iPhone

E-Field Measurement (20cm)							
EUT Side	Left	Right	Тор	Bottom	45° (above)		
Max E-field (V/m)	6.18	4.50	4.75	3.54	6.24		
Limit 824/f (V/m)	121.50	121.50	121.50	121.50	121.50		
Margin (V/m)	-115.32	-117.00	-116.75	-117.96	-115.26		

H-Field Measurement (20cm)							
EUT Side	Left	Right	Тор	Bottom	45° (above)		
Max H-field (A/m)	0.087	0.092	0.058	0.077	0.264		
Limit 2.19/f (A/m)	0.323	0.323	0.323	0.323	0.323		
Margin (A/m)	-0.236	-0.231	-0.265	-0.246	-0.059		

Measurements was made from all sides and the top of the primary/client pair, with the 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



### 90% Load with iPhone

E-Field Measurement (20cm)							
EUT Side	Left	Right	Тор	Bottom	45° (above)		
Max E-field (V/m)	3.86	2.04	3.68	2.44	5.72		
Limit 824/f (V/m)	121.50	121.50	121.50	121.50	121.50		
Margin (V/m)	-117.64	-119.46	-117.82	-119.06	-115.78		

H-Field Measurement (20cm)							
EUT Side	Left	Right	Тор	Bottom	45° (above)		
Max H-field (A/m)	0.074	0.071	0.072	0.054	0.264		
Limit 2.19/f (A/m)	0.323	0.323	0.323	0.323	0.323		
Margin (A/m)	-0.249	-0.252	-0.251	-0.269	-0.059		

Measurements was made from all sides and the top of the primary/client pair, with the 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



# 4 Photographs of the Test Configuration



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