

RF Exposure Report

Report No.: SA130523E10B

FCC ID: MCLJ20H076

Test Model: J20H076

Received Date: Sep. 14, 2015

Test Date: Oct. 05, 2015

Issued Date: Oct. 21, 2015

Applicant: HON HAI PRECISION IND. CO., LTD.

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R.O.C.

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

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Release Control Record

Issue No.	Description	Date Issued
SA130523E10B	Original release.	Oct. 21, 2015

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1 Certificate of Conformity

Product: 802.11abgn wireless module

Brand: FOXCONN

Test Model: J20H076

Sample Status: ENGINEERING SAMPLE

Applicant: HON HAI PRECISION IND. CO., LTD.

Test Date: Oct. 05, 2015

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03

IEEE C95.1

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 :	The	, Date:	Oct. 21, 2015	
	Elsie Hsu / Specialist			
Approved by:		, Date:	Oct. 21, 2015	
	May Chen Manager			

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2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range Electric Field Magnetic Field (MHz) Strength (V/m) Strength (A/m)		Power Density (mW/cm²)	Average Time (minutes)				
Limits For General Population / Uncontrolled Exposure							
300-1500	F/1500	30					
1500-100,000			1.0	30			

F = Frequency in MHz

2.2 MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

1. The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Brand	Model	Antenna Type	Antenna Gain (dBi)	Connector	Frequency range (MHz to MHz)
	NA	NA	РСВ	3.10	Murata	2400~2483.5
Chain (0)				4.51		5150~5350
Chain (0)				4.75		5470~5725
				4.80		5725~5845
	NA	NA	PCB	3.18	Murata	2400~2483.5
Chain (1)				4.54		5150~5350
Chain (1)				4.78		5470~5725
				4.98		5725~5845



3 Calculation Result of Maximum Conducted Power

The Max power (except U-NII-3 band) was refer to the original test report.

For 15.247(2.4GHz):

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)
2412-2462	657.863	6.15	20	0.53934	1

NOTE:

2.4GHz:Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 6.15$ dBi

For 15.407(5GHz):

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
5180-5240 5260-5320 5500-5580 & 5660-5700	235.624	7.78	20	0.28116	1
5745 ~ 5825	87.007	7.9	20	0.10673	1

NOTE:

5150~5350MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2 / 2$] = 7.52dBi 5470~5725MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2 / 2$] = 7.78dBi 5725~5845MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2 / 2$] = 7.9dBi

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