

# RF EXPOSURE REPORT

**REPORT NO.:** SA140205E02

**MODEL NO.:** T77H519

**FCC ID:** MCLT77H519

**RECEIVED:** Feb. 05, 2014

**TESTED:** Feb. 20, 2014

**ISSUED:** Feb. 27, 2014

**APPLICANT:** Hon Hai PRECISION IND.CO.,LTD

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**ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.)  
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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140205E02	Original release	Feb. 27, 2014

## 1.CERTIFICATION

**PRODUCT:** NFC Module  
**BRAND NAME:** FOXCONN  
**MODEL NO.:** T77H519  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**APPLICANT:** Hon Hai PRECISION IND.CO.,LTD  
**TESTED:** Feb. 20, 2014  
**STANDARDS:** FCC Part 2 (Section 2.1091)  
FCC OET Bulletin 65, Supplement C (01-01)  
IEEE C95.1

The above equipment (Model: T77H519) 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 :** Midoli Peng , **DATE:** Feb. 27, 2014  
( Midoli Peng, Specialist )

**APPROVED BY :** May Chen , **DATE:** Feb. 27, 2014  
( May Chen, Manager )

## 2. RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	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

### 3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

### 4. 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**.

## 5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Channel Frequency (MHz)	Electric field (dBuV/m) @3m	Electric field (V/m)	Limit of Electric field (V/m)
13.56	55.3	0.130316	60.76

Note: Limit of Electric field=824/f

<b>Electric field</b>	=55.3dBuV/m	10m
	=55.3+20log(3/0.2) <sup>2</sup>	0.2m
	=102.3 dBuV/m	0.2m
	= 130316.68uV/m	0.2m
	= 0.130316V/m	0.2m

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