

# RF EXPOSURE REPORT



Report No.: 15070952-FCC-H2

Supersede Report No.: N/A

Applicant	Sun Cupid Technology (HK) Ltd.	
Product Name	Moblie phone	
Model No.	F1	
Serial No.	N/A	
Test Standard	FCC 2.1093:2014	
Test Date	October 17 to October 31, 2015	
Issue Date	October 31, 2015	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification <input checked="" type="checkbox"/>		
Equipment did not comply with the specification <input type="checkbox"/>		
<i>Winnie Zhang</i>	<i>David Huang</i>	
Winnie Zhang Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

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## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070952-FCC-H2	NONE	Original	October 31, 2015

## 2. Customer information

Applicant Name	Sun Cupid Technology (HK) Ltd.
Applicant Add	16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon
Manufacturer	SUNCUPID (SHENZHEN) ELECTRONIC LTD
Manufacturer Add	Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A 7

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

## 4. Equipment under Test (EUT) Information

Description of EUT:	Moblie phone
Main Model:	F1
Serial Model:	N/A
Date EUT received:	October 16, 2015
Test Date(s):	October 17 to October 31, 2015
Antenna Gain:	GSM850: 0.8dBi PCS1900: 0.5dBi Bluetooth: -1.0dBi
Type of Modulation:	GSM / GPRS: GMSK Bluetooth: GFSK, $\pi$ /4DQPSK, 8DPSK
RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz Bluetooth: 2402-2480 MHz
Number of Channels:	GSM 850: 124CH PCS1900: 299CH Bluetooth: 79CH
Port:	Power Port, Earphone Port, USB Port
Input Power:	Adapter: Model:K002-05050U Input: AC 100-240V, 50/60Hz, 0.2A Output: DC5.0V, 0.5A Battery: Model:BL-4C Spec: 3.7V, 600mAh, 2.22Wh
Trade Name :	NUU

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GPRS Multi-slot class 8/10/12

FCC ID: 2ADINNUUF1

## 5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

### 5.1 RF Exposure

#### Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,<sup>16</sup> where

- $f_{\text{(GHz)}}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

$$\text{result} = P\sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm



## 5.2 Test Result

### Bluetooth Mode:

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	3.439	3±1	4	2.512	0.78	3
	Mid	2441	3.482	3±1	4	2.512	0.78	3
	High	2480	2.453	3±1	4	2.512	0.79	3
π /4 DQPSK	Low	2402	3.537	3±1	4	2.512	0.78	3
	Mid	2441	3.578	3±1	4	2.512	0.78	3
	High	2480	2.467	3±1	4	2.512	0.79	3
8-DPSK	Low	2402	3.529	3±1	4	2.512	0.78	3
	Mid	2441	<b>3.592</b>	3±1	4	2.512	0.78	3
	High	2480	2.533	3±1	4	2.512	0.79	3

**Result:** Compliance

No SAR measurement is required.