RF EXPOSURE REPORT



Report No.: 15070769-FCC-H2 Supersede Report No.: N/A

| Applicant | Verykool USA Inc | | | |
|-------------------------------|------------------|---------------------------|--|--|
| Product Name | Mobile Pho | Mobile Phone | | |
| Model No. | s5001 | | | |
| Serial No. | N/A | | | |
| Test Standard | FCC 2.109 | 3.2014 | | |
| Test Date | September | 02 to September 23, 2015 | | |
| Issue Date | October 08 | 3, 2015 | | |
| Test Result | Pass | Fail | | |
| Equipment compl | ied with the | specification | | |
| Equipment did no | t comply with | n the specification | | |
| Winnie.Z. | heng | David Huang | | |
| 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

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



| Test Report | 15070769-FCC-H2 |
|-------------|-----------------|
| Page | 2 of 10 |

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 |



| Test Report | 15070769-FCC-H2 |
|-------------|-----------------|
| Page | 3 of 10 |

This page has been left blank intentionally.



| Test Report | 15070769-FCC-H2 |
|-------------|-----------------|
| Page | 4 of 10 |

CONTENTS

| 1. | REPORT REVISION HISTORY | 5 |
|-----|---|-----|
| | | |
| 2. | CUSTOMER INFORMATION | 5 |
| | | |
| 3. | TEST SITE INFORMATION | 5 |
| 4. | EQUIPMENT UNDER TEST (EUT) INFORMATION | 6 |
| 5. | FCC §2.1093 - RADIOFREQUENCY RADIATION EXPOSURE EVALUATION: PORTABLE DEVICES. | . 8 |
| 5.1 | RF EXPOSURE | 8 |
| | | |
| 5.2 | TEST RESULT | 9 |



| Test Report | 15070769-FCC-H2 |
|-------------|-----------------|
| Page | 5 of 10 |

1. Report Revision History

| Report No. | Report Version | Description | Issue Date |
|-----------------|----------------|-------------|------------------|
| 15070769-FCC-H2 | NONE | Original | October 08, 2015 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | Verykool USA Inc | |
|------------------|--|--|
| Applicant Add | 3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA | |
| Manufacturer | HUAWO TECHNOLOGY LIMITED | |
| Manufacturer Add | 9A,Gongkan building,Technology south 8th road,High-Tech Park,Nanshan | |
| | district,Shenzhen | |

3. Test site information

| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES | | |
|----------------------|---|--|--|
| | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park | | |
| Lab Address | 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 | | |



| Test Report | 15070769-FCC-H2 |
|-------------|-----------------|
| Page | 6 of 10 |

4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: s5001

Serial Model: N/A

Date EUT received: September 01, 2015

Test Date(s): September 02 to September 23, 2015

GSM850: -3.9 dBi PCS1900: -3.5 dBi

UMTS-FDD Band V: -3.6 dBi UMTS-FDD Band IV: -3.5 dBi

Antenna Gain:

UMTS-FDD Band II: -3.5 dBi

Bluetooth/BLE: -5.3 dBi

WIFI: -5.3 dBi GPS:-3.8 dBi

GSM / GPRS: GMSK EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK, 16QAM

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK

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

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;

RF Operating Frequency (ies): RX: 2112.4 ~ 2152.6 MHz

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

WIFI:802.11b/g/n(20M): 2412-2462 MHz

WIFI:802.11n(40M): 2422-2452 MHz



Number of Channels:

| Test Report | 15070769-FCC-H2 |
|-------------|-----------------|
| Page | 7 of 10 |

Bluetooth& BLE: 2402-2480 MHz

GPS RX:1575.42 MHz

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V : 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II : 277CH

WIFI:802.11b/g/n(20M): 11CH

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: Power Port, Earphone Port, USB Port

Battery:

Model: 365778

Spec: 3.7V,2000mAh(7.4Wh)

Limited Charging Voltage: 4.2V

Input Power:
Adapter:

Model:ES-CD0501000C

Input: 100-240V; 50/60Hz; 0.3A

Output: DC 5.0V,1000mA

Trade Name : VeryKool

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: WA6S5001



| Test Report | 15070769-FCC-H2 |
|-------------|-----------------|
| Page | 8 of 10 |

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 ≤ 50 mm are determined by:

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

- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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.

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

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm



| Test Report | 15070769-FCC-H2 |
|-------------|-----------------|
| Page | 9 of 10 |

5.2 Test Result

Bluetooth Mode:

| Modulation | СН | Freq (MHz) | Conducted Power | Tune Up Power | Max Tune Up Power | Max Tune Up Power | Result | Limit |
|------------|------|---------------|--------------------|------------------|-------------------|-------------------|--------|-------|
| | | | (dBm) | (dBm) | (dBm) | (mW) | | |
| | Low | 2402 | 0.215 | 1±1 | 2 | 1.585 | 0.49 | 3 |
| GFSK | Mid | 2441 | 0.715 | 1±1 | 2 | 1.585 | 0.50 | 3 |
| | High | 2480 | 1.584 | 1±1 | 2 | 1.585 | 0.50 | 3 |
| π /4 DQPSK | Low | 2402 | 0.064 | 1±1 | 2 | 1.585 | 0.49 | 3 |
| | Mid | 2441 | 0.530 | 1±1 | 2 | 1.585 | 0.50 | 3 |
| | High | 2480 | 1.398 | 1±1 | 2 | 1.585 | 0.50 | 3 |
| 8-DPSK | Low | 2402 | 0.103 | 1±1 | 2 | 1.585 | 0.49 | 3 |
| | Mid | 2441 | 0.625 | 1±1 | 2 | 1.585 | 0.50 | 3 |
| | High | 2480 | 1.503 | 1±1 | 2 | 1.585 | 0.50 | 3 |

WIFI Mode:

| Modulation | СН | Freq (MHz) | Conducted Power (dBm) | Tune Up Power (dBm) | Max Tune Up Power (dBm) | Max Tune Up Power (mW) | Result | Limit |
|------------------|------|---------------|-----------------------|---------------------------|-------------------------|------------------------|--------|-------|
| | Low | 2412 | 8.56 | 8.5±1 | 9.5 | 8.913 | 2.77 | 3 |
| 802.11b | Mid | 2437 | 8.39 | 8.5±1 | 9.5 | 8.913 | 2.78 | 3 |
| | High | 2462 | 9.24 | 8.5±1 | 9.5 | 8.913 | 2.80 | 3 |
| 802.11g | Low | 2412 | 8.67 | 8.5±1 | 9.5 | 8.913 | 2.77 | 3 |
| | Mid | 2437 | 8.53 | 8.5±1 | 9.5 | 8.913 | 2.78 | 3 |
| | High | 2462 | 9.17 | 8.5±1 | 9.5 | 8.913 | 2.80 | 3 |
| 000 115 | Low | 2412 | 8.64 | 8.5±1 | 9.5 | 8.913 | 2.77 | 3 |
| 802.11n (20M) | Mid | 2437 | 8.59 | 8.5±1 | 9.5 | 8.913 | 2.78 | 3 |
| | High | 2462 | 9.26 | 8.5±1 | 9.5 | 8.913 | 2.80 | 3 |
| 802.11n (40M) | Low | 2422 | 8.55 | 8.5±1 | 9.5 | 8.913 | 2.77 | 3 |
| | Mid | 2437 | 8.78 | 8.5±1 | 9.5 | 8.913 | 2.78 | 3 |
| | High | 2452 | 9.03 | 8.5±1 | 9.5 | 8.913 | 2.79 | 3 |



| Test Report | 15070769-FCC-H2 |
|-------------|-----------------|
| Page | 10 of 10 |

BLE Mode:

| Modulation | СН | Freq (MHz) | Conducted Power (dBm) | Tune Up Power (dBm) | Max Tune Up Power (dBm) | Max Tune Up Power (mW) | Result | Limit |
|------------|------|---------------|-----------------------|---------------------------|-------------------------|------------------------|--------|-------|
| GFSK | Low | 2402 | -7.865 | -7±1 | -6 | 0.251 | 0.08 | 3 |
| | Mid | 2440 | -7.624 | -7±1 | -6 | 0.251 | 0.08 | 3 |
| | High | 2480 | -6.852 | -7±1 | -6 | 0.251 | 0.08 | 3 |

Result: Compliance

No SAR measurement is required.