RF EXPOSURE REPORT



Report No.: 16070254-FCC-H2
Supersede Report No.: N/A

| Applicant | Verykool USA Inc | | | |
|--------------------|---|-------------------|---------------------------|--|
| Product Name | Mobile pho | Mobile phone | | |
| Model No. | s5530 | | | |
| Serial No. | N/A | | | |
| Test Standard | FCC 2.109 | 3:2015 | | |
| Test Date | January 28 | to March 02, 2016 | | |
| Issue Date | April 15, 20 |)16 | | |
| Test Result | Pass | Fail Fail | | |
| Equipment compl | Equipment complied with the specification | | | |
| Equipment did no | Equipment did not comply with the specification | | | |
| Winnie Zhang David | | David Huang | | |
| Winnie Zhang | | David Huang | | |
| Test Engir | neer | Checked By | (III)ONE() POL CAUCIPALI) | |

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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

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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 |
|-----------------|----------------|-------------|----------------|
| 16070254-FCC-H2 | NONE | Original | April 15, 2016 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | Verykool USA Inc | |
|------------------|--|--|
| Applicant Add | 3636 Nobel Drive, Suite 325, San Diego, California 92122 United States | |
| Manufacturer | Zechin Communications Co.,Ltd. | |
| Manufacturer Add | Unit804,8th Floor Desay Tech Building Gaoxin, Road South, | |
| | Nanshan District Shenzhen,China | |

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 | |



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile phone

Main Model: s5530

Serial Model: N/A

Antenna Gain:

Type of Modulation:

Date EUT received: January 27, 2016

Test Date(s): January 28 to March 02, 2016

GSM850: 1.6dBi PCS1900: 3.8 dBi

UMTS-FDD Band V: 1.7 dBi
UMTS-FDD Band IV: 3.7 dBi

UMTS-FDD Band II: 3.8 dBi

Bluetooth/BLE: 3 dBi

WIFI: 2.9 dBi GPS:1.6 dBi

GSM / GPRS: GMSK

EGPRS: GMSK

UMTS-FDD: QPSK, 16QAM 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 \sim 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

RF Operating Frequency (ies): 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 Bluetooth& BLE: 2402-2480 MHz



Number of Channels:

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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

Adapter:

Model: SC050100-US

Input: AC 100-240V; 50/60Hz;0.4A

Output: DC 5.0V,1A

Input Power:

Battery:

Model: 336190PV

Spec:3.8V,2800mAh,10.64Wh Limited charger voltage :4.35V

Trade Name : verykool

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

FCC ID: WA6S5530



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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



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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) | | |
| GFSK | Low | 2402 | 6.239 | 6±1 | 7 | 5.012 | 1.55 | 3 |
| | Mid | 2441 | 6.828 | 6±1 | 7 | 5.012 | 1.57 | 3 |
| | High | 2480 | 6.850 | 6±1 | 7 | 5.012 | 1.58 | 3 |
| π /4 DQPSK | Low | 2402 | 5.996 | 6±1 | 7 | 5.012 | 1.55 | 3 |
| | Mid | 2441 | 6.599 | 6±1 | 7 | 5.012 | 1.57 | 3 |
| | High | 2480 | 6.596 | 6±1 | 7 | 5.012 | 1.58 | 3 |
| 8-DPSK | Low | 2402 | 6.164 | 6±1 | 7 | 5.012 | 1.55 | 3 |
| | Mid | 2441 | 6.786 | 6±1 | 7 | 5.012 | 1.57 | 3 |
| | High | 2480 | 6.804 | 6±1 | 7 | 5.012 | 1.58 | 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 | 9.36 | 8.5±1 | 9.5 | 8.913 | 2.77 | 3 |
| 802.11b | Mid | 2437 | 8.46 | 8.5±1 | 9.5 | 8.913 | 2.78 | 3 |
| | High | 2462 | 8.21 | 8.5±1 | 9.5 | 8.913 | 2.80 | 3 |
| | Low | 2412 | 9.13 | 8.5±1 | 9.5 | 8.913 | 2.77 | 3 |
| 802.11g | Mid | 2437 | 8.76 | 8.5±1 | 9.5 | 8.913 | 2.78 | 3 |
| | High | 2462 | 7.96 | 8.5±1 | 9.5 | 8.913 | 2.80 | 3 |
| 000 44.5 | Low | 2412 | 8.97 | 8.5±1 | 9.5 | 8.913 | 2.77 | 3 |
| 802.11n (20M) | Mid | 2437 | 8.48 | 8.5±1 | 9.5 | 8.913 | 2.78 | 3 |
| | High | 2462 | 8.26 | 8.5±1 | 9.5 | 8.913 | 2.80 | 3 |
| 802.11n (40M) | Low | 2422 | 8.96 | 8.5±1 | 9.5 | 8.913 | 2.77 | 3 |
| | Mid | 2437 | 7.86 | 8.5±1 | 9.5 | 8.913 | 2.78 | 3 |
| | High | 2452 | 8.05 | 8.5±1 | 9.5 | 8.913 | 2.79 | 3 |



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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 | -1.426 | -1±1 | 0 | 1.000 | 0.31 | 3 |
| | Mid | 2440 | -0.976 | -1±1 | 0 | 1.000 | 0.31 | 3 |
| | High | 2480 | -0.946 | -1±1 | 0 | 1.000 | 0.31 | 3 |

Result: Compliance

No SAR measurement is required.