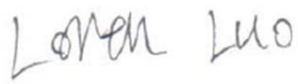
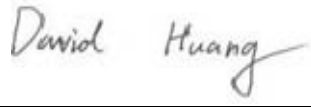


# RF EXPOSURE REPORT



Report No.: 16071314-FCC-H2-V1

Supersede Report No.: N/A

|                                                                                                                                      |                                                                                     |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Applicant                                                                                                                            | Verykool USA Inc                                                                    |                                                                                       |
| Product Name                                                                                                                         | Mobile Phone                                                                        |                                                                                       |
| Model No.                                                                                                                            | SL5560                                                                              |                                                                                       |
| Serial No.                                                                                                                           | N/A                                                                                 |                                                                                       |
| Test Standard                                                                                                                        | FCC 2.1093:2015                                                                     |                                                                                       |
| Test Date                                                                                                                            | November 16 to December 01, 2016                                                    |                                                                                       |
| Issue Date                                                                                                                           | December 14, 2016                                                                   |                                                                                       |
| 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"/>                                                             |                                                                                     |                                                                                       |
|                                                   |  |  |
| Loren Luo<br>Test Engineer                                                                                                           | David Huang<br>Checked By                                                           |                                                                                       |
| This test report may be reproduced in full only<br>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        |
|--------------------|----------------|------------------------------------|-------------------|
| 16071314-FCC-H2    | NONE           | Original                           | December 02, 2016 |
| 16071314-FCC-H2-V1 | V1             | Updated the RF Operating frequency | December 14, 2016 |
|                    |                |                                    |                   |
|                    |                |                                    |                   |
|                    |                |                                    |                   |
|                    |                |                                    |                   |

## 2. Customer information

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| Applicant Name   | Verykool USA Inc                                                              |
| Applicant Add    | 3636 Nobel Drive, Suite 325, San Diego, California 92122 United States        |
| Manufacturer     | VIKIN COMMUNICATION TECHNOLOGY CO.,LTD                                        |
| Manufacturer Add | Room 1005, HSAE Technology Building, Hi-Tech Park, Nanshan District, Shenzhen |

## 3. Test site information

|                      |                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES                                                                                                         |
| Lab Address          | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park<br>South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China<br>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: | Mobile Phone                                                                                                                                                                                                                                                                                                                            |
| Main Model:         | SL5560                                                                                                                                                                                                                                                                                                                                  |
| Serial Model:       | N/A                                                                                                                                                                                                                                                                                                                                     |
| Date EUT received:  | November 15, 2016                                                                                                                                                                                                                                                                                                                       |
| Test Date(s):       | November 16 to December 01, 2016                                                                                                                                                                                                                                                                                                        |
| Antenna Gain:       | GSM850: -1.25dBi<br>PCS1900: 1dBi<br>UMTS-FDD Band V: -1.18dBi<br>UMTS-FDD Band IV: 0.45dBi<br>UMTS-FDD Band II: 1.19dBi<br>LTE Band II: 1.17dBi<br>LTE Band IV: 0.6dBi<br>LTE Band V: -0.65dBi<br>LTE Band VII: -0.72dBi<br>LTE Band XII: -1.3dBi<br>LTE Band XVII: -1.42dBi<br>Bluetooth/BLE: 0.58dBi<br>WIFI: 0.6dBi<br>GPS: 0.71dBi |
| Antenna Type:       | PIFA antenna                                                                                                                                                                                                                                                                                                                            |
| Type of Modulation: | GSM / GPRS: GMSK<br>EGPRS: GMSK, 8PSK<br>UMTS-FDD: QPSK<br>LTE Band: QPSK, 16QAM<br>802.11b/g/n: DSSS, OFDM<br>Bluetooth: GFSK, $\pi$ /4DQPSK, 8DPSK<br>BLE: GFSK<br>GPS: BPSK                                                                                                                                                          |

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| 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             |
|                               | 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;<br>RX : 2112.4 ~ 2152.6 MHz |
|                               | UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;<br>RX: 1932.4 ~ 1987.6 MHz  |
|                               | LTE Band II TX: 1850.7 ~ 1909.3MHz; RX : 1930.7 ~ 1989.3 MHz         |
|                               | LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7 ~ 2154.3 MHz        |
|                               | LTE Band V TX: 824.7~ 848.3 MHz; RX : 869.7 ~ 893.3MHz               |
|                               | LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz       |
|                               | LTE Band XII TX:699.7 ~ 715.3 MHz; RX : 729.7~ 745.3MHz              |
|                               | LTE Band XVII TX: 706.5 ~ 713.5 MHz; RX : 736.5 ~ 743.5 MHz          |
|                               | WIFI: 802.11b/g/n(20M): 2412-2462 MHz                                |
|                               | WIFI: 802.11n(40M): 2422-2452 MHz                                    |
|                               | Bluetooth& BLE: 2402-2480 MHz                                        |
|                               | GPS: 1575.42 MHz                                                     |
|                               |                                                                      |
| Number of Channels:           | 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:                         | USB Port, Earphone Port                                              |
|                               |                                                                      |
| Input Power:                  | Adapter:                                                             |
|                               | Model: TPA-46050150UU                                                |
|                               | Input: AC100-240V~50/60Hz,0.3A                                       |
|                               | Output: DC 5.0V,1500mA                                               |
|                               | Battery:                                                             |
|                               | Model: K456                                                          |
|                               | Spec: 3.8V,3000mAh(11.4Wh)                                           |
|                               | Limited charger voltage: 4.35V                                       |

|             |                    |
|-------------|--------------------|
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Trade Name : Verykool

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

FCC ID: WA6SL5560

## 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   | Frequency (MHz) | Conducted Power (dBm) | Tune Up Power (dBm) | Max Tune Up Power (dBm) | Max Tune Up Power (mW) | Result | Limit |
|------------|------|-----------------|-----------------------|---------------------|-------------------------|------------------------|--------|-------|
| GFSK       | Low  | 2402            | -0.734                | -1±1                | 0                       | 1.000                  | 0.31   | 3     |
|            | Mid  | 2441            | 2.472                 | 2±1                 | 3                       | 1.995                  | 0.62   | 3     |
|            | High | 2480            | -0.643                | -1±1                | 0                       | 1.000                  | 0.31   | 3     |
| π /4 DQPSK | Low  | 2402            | -1.649                | -1.5±1              | -0.5                    | 0.891                  | 0.28   | 3     |
|            | Mid  | 2441            | 1.622                 | -1.5±1              | -0.5                    | 0.891                  | 0.28   | 3     |
|            | High | 2480            | -1.349                | -1.5±1              | -0.5                    | 0.891                  | 0.28   | 3     |
| 8-DPSK     | Low  | 2402            | -1.492                | -1.5±1              | -0.5                    | 0.891                  | 0.28   | 3     |
|            | Mid  | 2441            | 1.765                 | -1.5±1              | -0.5                    | 0.891                  | 0.28   | 3     |
|            | High | 2480            | -1.157                | -1.5±1              | -0.5                    | 0.891                  | 0.28   | 3     |

### WIFI Mode:

| Modulation    | CH   | Frequency (MHz) | Conducted Power (dBm) | Tune Up Power (dBm) | Max Tune Up Power (dBm) | Max Tune Up Power (mW) | Result | Limit |
|---------------|------|-----------------|-----------------------|---------------------|-------------------------|------------------------|--------|-------|
| 802.11b       | Low  | 2412            | 8.24                  | 8±1                 | 9                       | 7.943                  | 2.47   | 3     |
|               | Mid  | 2437            | 8.24                  | 8±1                 | 9                       | 7.943                  | 2.48   | 3     |
|               | High | 2462            | <b>8.61</b>           | 8±1                 | 9                       | 7.943                  | 2.49   | 3     |
| 802.11g       | Low  | 2412            | 8.29                  | 8±1                 | 9                       | 7.943                  | 2.47   | 3     |
|               | Mid  | 2437            | <b>8.88</b>           | 8±1                 | 9                       | 7.943                  | 2.48   | 3     |
|               | High | 2462            | 8.49                  | 8±1                 | 9                       | 7.943                  | 2.49   | 3     |
| 802.11n (20M) | Low  | 2412            | 8.28                  | 8±1                 | 9                       | 7.943                  | 2.47   | 3     |
|               | Mid  | 2437            | <b>8.48</b>           | 8±1                 | 9                       | 7.943                  | 2.48   | 3     |
|               | High | 2462            | 8.32                  | 8±1                 | 9                       | 7.943                  | 2.49   | 3     |
| 802.11n (40M) | Low  | 2422            | 8.27                  | 8±1                 | 9                       | 7.943                  | 2.47   | 3     |
|               | Mid  | 2437            | <b>8.73</b>           | 8±1                 | 9                       | 7.943                  | 2.48   | 3     |
|               | High | 2452            | 8.30                  | 8±1                 | 9                       | 7.943                  | 2.49   | 3     |

### BLE 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       | -8.586                | -8±1                | -7                      | 0.200                  | 0.06   | 3     |
|            | Mid  | 2440       | <b>-5.188</b>         | -5±1                | -4                      | 0.398                  | 0.12   | 3     |
|            | High | 2480       | -8.042                | -8±1                | -7                      | 0.200                  | 0.06   | 3     |

**Result:** Compliance

No SAR measurement is required.