

# RF EXPOSURE REPORT



Report No.: 15070340-FCC-H2

Applicant	Verykool USA INC.	
Product Name	Tablet	
Model No.	T7440	
Serial No.	N/A	
Test Standard	FCC 2.1093	
Test Date	May 13 to May 27, 2015	
Issue Date	May 29, 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>Chris You</i>	
Winnie Zhang Test Engineer	Chris You 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](mailto:China@siemic.com.cn)

## 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
15070340-FCC-H2	NONE	Original	May 29, 2015

## 2. Customer information

Applicant Name	Verykool USA INC.
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA
Manufacturer	Mikibobile
Manufacturer Add	Block 5,Hongxin industrial Park, Dabuxiang Village, Guanguang Road, Guanlan Town, Bao' an 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 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:	Tablet
Main Model:	T7440
Serial Model:	N/A
Date EUT received:	May 12, 2015
Test Date(s):	May 13 to May 27, 2015
Antenna Gain:	GSM850: 1.01 dBi PCS1900: -0.99 dBi UMTS-FDD Band V: 0.47dBi UMTS-FDD Band II: -0.99 dBi Bluetooth/BLE: 3.12 dBi WIFI: 3.12 dBi
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK, 8PSK UMTS-FDD: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, $\pi$ /4DQPSK, 8DPSK BLE: GFSK
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 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: GSM 850: 124CH  
PCS1900: 299CH  
UMTS-FDD Band V : 102CH  
UMTS-FDD Band II : 277CH  
WIFI :802.11b/g/n(20M): 11CH  
WIFI :802.11n(40M): 7CH  
Bluetooth: 79CH  
BLE: 40CH

Port: Power Port, Earphone Port, USB Port

Input Power: Battery:  
Model: GY-3553125PL  
Spec: 3.7V 2500mAh  
Adapter:  
Model: PS06B-0501000U  
Input: AC 100-240V; 50/60Hz  
Output: DC 5.0V; 1000mA

Trade Name : erykool

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

FCC ID: WA6T7440

## 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	3.951	4.0±1	5	3.162	0.98	3
	Mid	2441	3.887	4.0±1	5	3.162	0.99	3
	High	2480	<b>4.875</b>	4.0±1	5	3.162	1.00	3
π /4 DQPSK	Low	2402	2.537	2.5±1	3.5	2.239	0.69	3
	Mid	2441	2.783	2.5±1	3.5	2.239	0.70	3
	High	2480	2.946	2.5±1	3.5	2.239	0.71	3
8-DPSK	Low	2402	2.599	2.5±1	3.5	2.239	0.69	3
	Mid	2441	2.875	2.5±1	3.5	2.239	0.70	3
	High	2480	3.042	2.5±1	3.5	2.239	0.71	3

### WIFI Mode:

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
802.11b	Low	2412	8.78	8.5±1	9.5	8.91	2.77	3
	Mid	2437	<b>8.96</b>	8.5±1	9.5	8.91	2.78	3
	High	2462	8.79	8.5±1	9.5	8.91	2.80	3
802.11g	Low	2412	<b>9.07</b>	8.5±1	9.5	8.91	2.77	3
	Mid	2437	9.07	8.5±1	9.5	8.91	2.78	3
	High	2462	8.83	8.5±1	9.5	8.91	2.80	3
802.11n (20M)	Low	2412	9.10	8.5±1	9.5	8.91	2.77	3
	Mid	2437	9.11	8.5±1	9.5	8.91	2.78	3
	High	2462	<b>9.17</b>	8.5±1	9.5	8.91	2.80	3
802.11n (40M)	Low	2422	8.18	8.5±1	9.5	8.91	2.77	3
	Mid	2437	9.21	8.5±1	9.5	8.91	2.78	3
	High	2452	<b>9.30</b>	8.5±1	9.5	8.91	2.80	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	0.867	1.5±1	2.5	1.778	0.55	3
	Mid	2440	1.314	1.5±1	2.5	1.778	0.56	3
	High	2480	2.336	1.5±1	2.5	1.778	0.56	3

**Result:** Compliance

No SAR measurement is required.