RF EXPOSURE REPORT



Report No.: 14070674-FCC-H2
Supersede Report No.: N/A

Applicant	Verykool USA Inc			
Product Name	Mobile Pho	Mobile Phone		
Model No.	s4010			
Serial No.	N/A			
Test Standard	FCC 2.109	3		
Test Date	January 04	, 2015		
Issue Date	January 06	, 2015		
Test Result	Pass Fail			
Equipment compl	Equipment complied with the specification			
Equipment did no	t comply with	n the specification		
Justin, Wang		Alex. Lin		
Dustin Wang Test Engineer		Alex Liu 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	14070674-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	14070674-FCC-H2
Page	3 of 10

This page has been left blank intentionally.



Test Report	14070674-FCC-H2
Page	4 of 10

CONTENTS

1.	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	5
1	EQUIPMENT UNDER TEST (EUT) INFORMATION	6
4 .	EQUIFMENT UNDER TEST (EUT) INFORMATION	U
5.	FCC §2.1093 - MAXIMUM PERMISSIBLE EXPOSURE	8
5.1	RF EXPOSURE	8
5.2	TEST RESULT	0
5.2	TEST RESULT	



Test Report	14070674-FCC-H2
Page	5 of 10

1. Report Revision History

Report No.	Report Version	Description	Issue Date
14070674-FCC-H2	NONE	Original	January 06, 2015

2. Customer information

Applicant Name	Verykool USA Inc	
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA	
Manufacturer	ZTE Supply Chain Co., Ltd	
Manufacturer Add	6/F, South Wing, WanDelai Building, Block29, Keji Road South, Hi-Tech Park,	
	Nanshan District, Shenzhen ,P.R. 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	Labview of SIEMIC version 2.0		



Test Report	14070674-FCC-H2
Page	6 of 10

4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: s4010

Serial Model: N/A

Date EUT received: December 05, 2014

Test Date(s): January 04, 2015

UMTS-FDD Band V/GSM850: 0.7 dBi

UMTS-FDD Band II: 1.5 dBi

UMTS-FDD Band IV: 1.8 dBi

Antenna Gain:
PCS1900: 1.1 dBi

Bluetooth/BLE: 2.4 dBi

WIFI: 2.4 dBi

GSM / GPRS: GMSK

EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK

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

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK

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

RF Operating Frequency (ies): UMTS-FDD Band IV TX :1712.4 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

WIFI:802.11b/g/n(20M): 2412-2462 MHz WIFI:802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz



Test Report	14070674-FCC-H2
Page	7 of 10

GSM 850: 124CH PCS1900: 299CH

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

UMTS-FDD Band IV: 202CH Number of Channels:

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

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH BLE: 40CH

Port: Power Port, USB Port

Battery:

Model: 394760

Spec: 3.7V 1400mAh

Limited charger voltage: 4.2V

Input Power: Adapter:

Model: UC26A50100

Input: AC 100-240V; 50/60Hz 150mA

Output: DC 5.0V; 0.5A

Trade Name: Verykool

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

FCC ID: WA6S4010



Test Report	14070674-FCC-H2
Page	8 of 10

5. FCC §2.1093 - Maximum Permissible exposure

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.

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

P= maximum turn-up power in mW

F= channel frequency in GHz

D= separation distance in mm



Test Report	14070674-FCC-H2
Page	9 of 10

5.2 Test Result

All The Minimum Test Distance is 5 mm

Bluetooth Mode:

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Tune Up Max Power (dBm)	Result	Limit
GFSK	Low	2402	3.284	3.5±1	4.5	0.87	3
	Mid	2441	3.852	3.5±1	4.5	0.88	3
	High	2480	4.022	3.5±1	4.5	0.89	3
π /4 DQPSK	Low	2402	2.657	3.5±1	4.5	0.87	3
	Mid	2441	3.327	3.5±1	4.5	0.88	3
	High	2480	3.387	3.5±1	4.5	0.89	3
8-DPSK	Low	2402	2.726	3.5±1	4.5	0.87	3
	Mid	2441	3.380	3.5±1	4.5	0.88	3
	High	2480	3.443	3.5±1	4.5	0.89	3

WIFI Mode:

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Tune Up Max Power (dBm)	Result	Limit
	Low	2412	9.04	8.5±1	9.5	2.77	3
802.11b	Mid	2437	9.44	8.5±1	9.5	2.78	3
	High	2462	9.29	8.5±1	9.5	2.80	3
802.11g	Low	2412	9.34	8.5±1	9.5	2.77	3
	Mid	2437	9.13	8.5±1	9.5	2.78	3
	High	2462	9.14	8.5±1	9.5	2.80	3
802.11n (20M)	Low	2412	9.30	8.5±1	9.5	2.77	3
	Mid	2437	9.09	8.5±1	9.5	2.78	3
	High	2462	9.29	8.5±1	9.5	2.80	3
802.11n (40M)	Low	2422	9.11	8.5±1	9.5	2.77	3
	Mid	2437	8.96	8.5±1	9.5	2.78	3
	High	2452	8.88	8.5±1	9.5	2.79	3



Test Report	14070674-FCC-H2			
Page	10 of 10			

BLE Mode:

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Tune Up Max Power (dBm)	Result	Limit
GFSK	Low	2402	-4.181	-3.5±1	-2.5	0.17	3
	Mid	2440	-3.554	-3.5±1	-2.5	0.17	3
	High	2480	-3.544	-3.5±1	-2.5	0.18	3

Result: Compliance

No SAR measurement is required.