RF EXPOSURE REPORT



Report No.: 16070105-FCC-H2
Supersede Report No.: N/A

Applicant	Verykool USA Inc			
Product Name	Mobile pho	Mobile phone		
Model No.	s5030			
Serial No.	N/A			
Test Standard	FCC 2.109	3:2015		
Test Date	January 28	to March 02, 201	6	
Issue Date	March 02, 2	2016		
Test Result	Pass	Fail		
Equipment compl	Equipment complied with the specification			
Equipment did no	Equipment did not comply with the specification			
Winnie.Z	Winnie Zhang David Huang Parkette			
Winnie Zhang Test Engineer		David Hua		

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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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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
16070105-FCC-H2	NONE	Original	March 02, 2016

2. Customer information

Applicant Name	Verykool USA Inc	
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA	
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

s5030 Main Model:

Serial Model: N/A

Type of Modulation:

RF Operating Frequency (ies):

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

Antenna Gain: UMTS-FDD Band II: 3.8 dBi

Bluetooth/BLE: 3 dBi

WIFI: 2.9 dBi GPS:1.6 dBi

GSM / GPRS: GMSK EGPRS: GMSK,8PSK

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

RX: 2112.4 ~ 2152.6 MHz

UMTS-FDD Band IV TX:1712.4 ~ 1752.6 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:

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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: 316075PL

Spec:3.8V,2200mAh,8.36Wh Limited charger voltage :4.35V

Trade Name : verykool

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

FCC ID: WA6S5030



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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
802.11g	Low	2412	9.13	8.5±1	9.5	8.913	2.77	3
	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.