

RF EXPOSURE REPORT



Report No.: 14070708-FCC-H2

Supersede Report No.: N/A

Applicant	Verykool USA Inc	
Product Name	Mobile Phone	
Model No.	i330A	
Serial No.	N/A	
Test Standard	FCC 2.1093	
Test Date	January 08, 2015	
Issue Date	January 12, 2015	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification ☒		
Equipment did not comply with the specification ☐		
<i>Winnie Zhang</i>	<i>Alex Liu</i>	
Winnie Zhang 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

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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
14070708-FCC-H2	NONE	Original	January 12, 2015

2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA
Manufacturer	SHENZHEN LEADING WAVE CO., LIMITED
Manufacturer Add	No. 604 R&D Complex Bldg.Tsinghua Hi-tech Park, Keyuan Rd. N. Shenzhen, 518057,China

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	Labview of SIEMIC version 2.0

4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone
Main Model:	i330A
Serial Model:	N/A
Date EUT received:	December 31, 2014
Test Date(s):	January 08, 2015
Antenna Gain:	UMTS-FDD Band V/GSM850: 1.2 dBi UMTS-FDD Band II: 2.6 dBi PCS1900: 3 dBi Bluetooth: 3 dBi
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK UMTS-FDD: QPSK Bluetooth: GFSK, π /4DQPSK, 8DPSK
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 Bluetooth: 2402-2480 MHz
Number of Channels:	GSM 850: 124CH PCS1900: 299CH UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH Bluetooth: 79CH
Port:	Power Port, USB Port

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Battery:

Model: 523450AR

Spec: 3.7V 800mAh 2.96Wh

Limited charger voltage: 4.2V

Input Power:

Adapter:

Model: NBT-004A-077C

Input: AC 100-240V; 50/60Hz 0.15A

Output: DC 5.0V; 500mA

Trade Name :

Verykool

GPRS/EGPRS Multi-slot class

8/10/12

FCC ID:

WA6I330A

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where

- $f_{\text{(GHz)}}$ 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

5.2 Test Result

All The Minimum Test Distance is 5 mm

Bluetooth Mode:

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Tune Up Max Power (dBm)	Result	Limit
GFSK	Low	2402	4.808	4.0±1	5.0	0.98	3
	Mid	2441	3.683	4.0±1	5.0	0.99	3
	High	2480	4.363	4.0±1	5.0	1.00	3
π / 4 DQPSK	Low	2402	4.571	4.0±1	5.0	0.98	3
	Mid	2441	3.455	4.0±1	5.0	0.99	3
	High	2480	4.131	4.0±1	5.0	1.00	3
8-DPSK	Low	2402	4.642	4.0±1	5.0	0.98	3
	Mid	2441	3.522	4.0±1	5.0	0.99	3
	High	2480	4.204	4.0±1	5.0	1.00	3

Result: Compliance

No SAR measurement is required.