

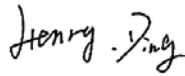
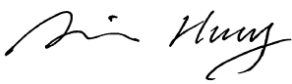
**FCC PART 15 CLASS B
MEASUREMENT AND TEST REPORT**

For

Verykool USA Inc

4350 Executive Dr. #100, San Diego, CA 92121, United States

FCC ID: WA6I605

Report Type: Original Report	Product Type: GSM Mobile Phone
Test Engineer: Henry Ding 	
Report Number: RSZ120104002-00A	
Report Date: 2012-02-22	
Reviewed By: Alvin Huang  EMC Engineer	
Test Laboratory: Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn	

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP*, or any agency of the Federal Government.

* This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Verykool USA INC.*'s product, model number: *I605 (FCC ID: WA6I605)* (the "EUT") in this report was a *GSM Mobile Phone*, which was measured approximately: 10.0 cm (L) x 5.5 cm (W) x 1.5 cm (H), rated input voltage: DC 3.7V Lithium battery. The high operating frequency is 104 MHz.

Note : the series product, model I605 and I604 are electrically identical, only different in model number, and model I605 was selected for fully testing by BACL, which was explained in the attached declaration.

** All measurement and test data in this report was gathered from production sample serial number: 1201002 (Assigned by BACL, Shenzhen). The EUT was received on 2012-01-04.*

Objective

This report is prepared on behalf of *Verykool USA INC.* in accordance with Part 2- Subpart J, Part 15- Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 Class B.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS, 22H&24E PCE submissions with FCC ID: WA6I605.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp.(Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2007070.htm>

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical mode which is provided by manufacture.

EUT Exercise Software

Winthraw exercise software was provided by BACL.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

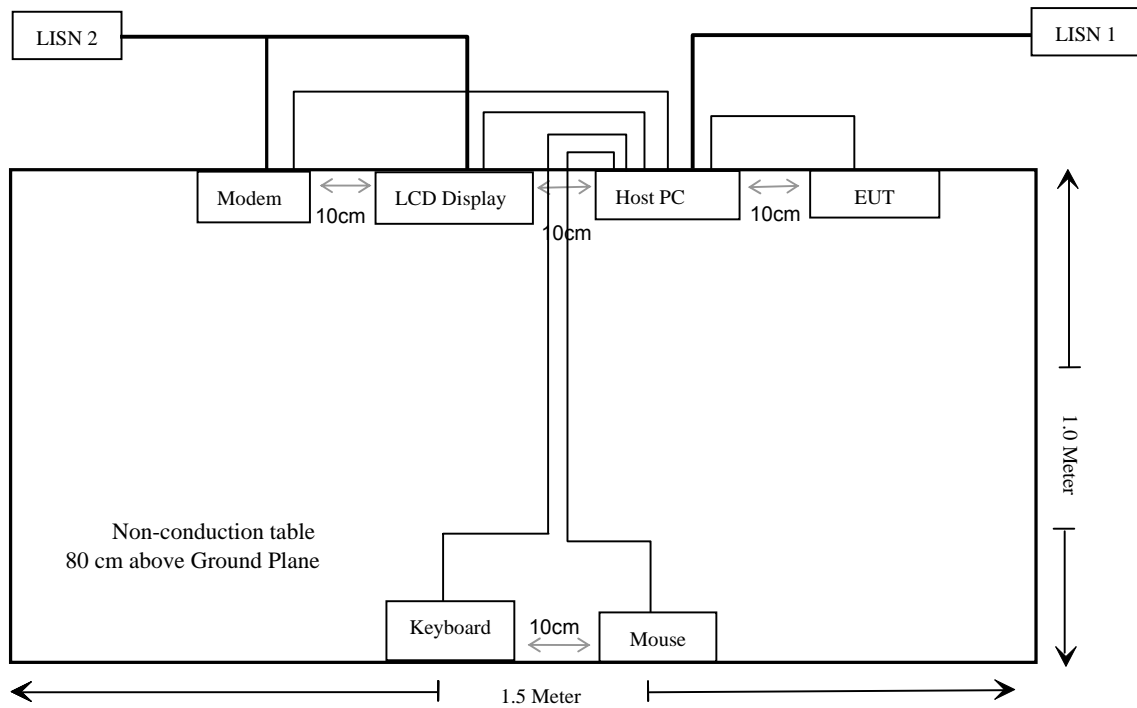
Manufacturer	Description	Model	Serial Number
DELL	Host PC	VOSTRO 220S	127BP2X
DELL	Keyboard	L100	CNORH656658907BL04TY
DELL	Mouse	MOC5UO	G1B0096D
DELL	LCD	E178WFPC	CN-OWY564-64180-7C4-2SQH
SAST	Modem	AEM-2100	0293

External I/O Cable

Cable Description	Length (m)	From/Port	To
Shielded Detachable K/B Cable	1.5	Keyboard Port/Host	Keyboard
Shielded Detachable Mouse Cable	1.5	Mouse Port/Host	Mouse
Shielded Detachable Serial Cable	1.2	Serial Port/Host	Modem
Shielded Detachable VGA Cable	1.5	VGA Port/Host	LCD Display
Unshielded Detachable USB Cable	0.76	EUT	Host PC
Unshielded Detachable AC Power Cable	1.0	PC	LISN

Block Diagram of Test Setup

For Downloading mode



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

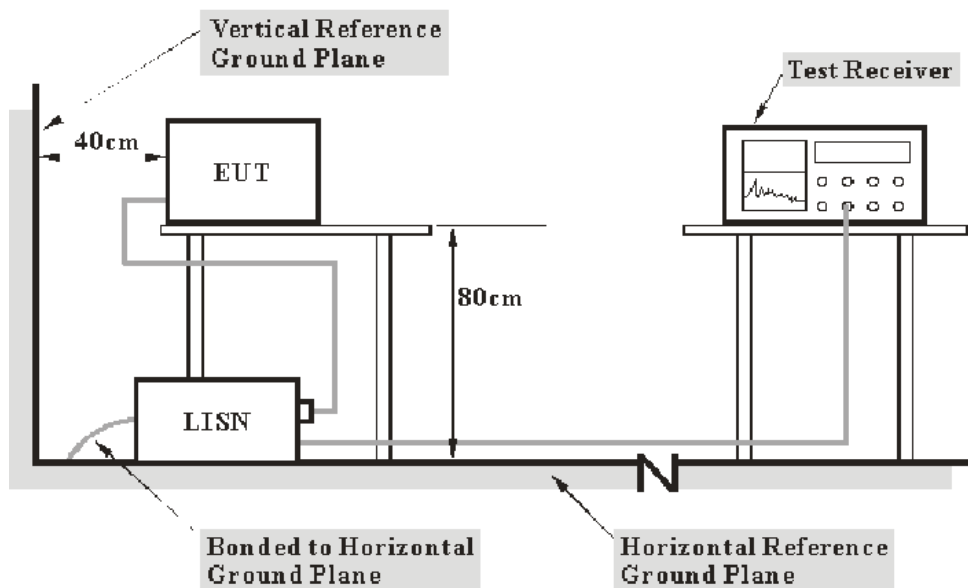
FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on CISPR 16-4-2, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 2.4 dB.(k=2, 95% level of confidence)

EUT Setup



- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.107 Class B limits.

The spacing between the peripherals was 10 cm.

For downloading mode, the Host PC was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<i>Frequency Range</i>	<i>IF B/W</i>
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2011-03-03	2012-03-02
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-03-09	2012-03-08
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12208	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, for downloading mode, the Host PC was connected to the outlet of the first LISN, and the other related support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.107, with the worst margin reading of:

8.13 dB at 0.485 MHz in the Neutral conducted mode for downloading mode

Test Data

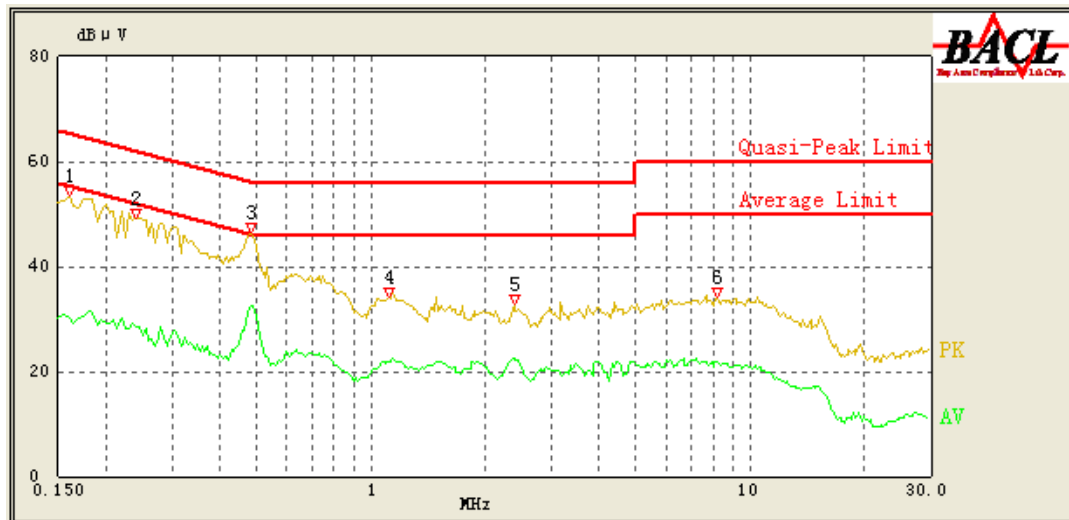
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

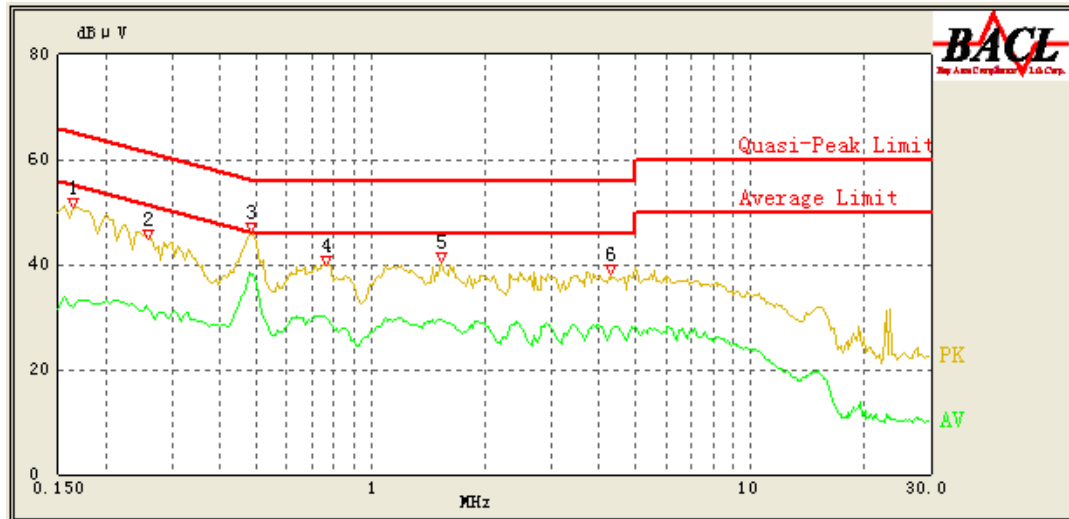
The testing was performed by Henry Ding on 2012-01-12.

EUT Operation Mode: Downloading

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/ QP/Ave.)
0.485	32.64	10.23	46.43	13.79	Ave.
0.485	42.08	10.23	56.43	14.35	QP
0.160	48.31	10.23	65.71	17.40	QP
0.240	43.47	10.23	63.43	19.96	QP
2.385	22.65	10.36	46.00	23.35	Ave.
1.110	21.84	10.25	46.00	24.16	Ave.
0.240	28.59	10.23	53.43	24.84	Ave.
0.160	30.14	10.23	55.71	25.57	Ave.
1.110	29.33	10.25	56.00	26.67	QP
8.220	21.80	10.83	50.00	28.20	Ave.
2.385	25.59	10.36	56.00	30.41	QP
8.225	26.39	10.83	60.00	33.61	QP

AC 120V/60 Hz, Neutral

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/ QP/Ave.)
0.485	38.30	10.23	46.43	8.13	Ave.
0.485	42.88	10.23	56.43	13.55	QP
0.760	29.93	10.24	46.00	16.07	Ave.
1.540	29.56	10.29	46.00	16.44	Ave.
4.275	27.17	10.53	46.00	18.83	Ave.
0.760	35.89	10.24	56.00	20.11	QP
0.165	45.32	10.23	65.57	20.25	QP
0.260	31.50	10.23	52.86	21.36	Ave.
1.540	34.44	10.29	56.00	21.56	QP
0.165	31.83	10.23	55.57	23.74	Ave.
0.260	37.97	10.23	62.86	24.89	QP
4.275	30.01	10.53	56.00	25.99	QP

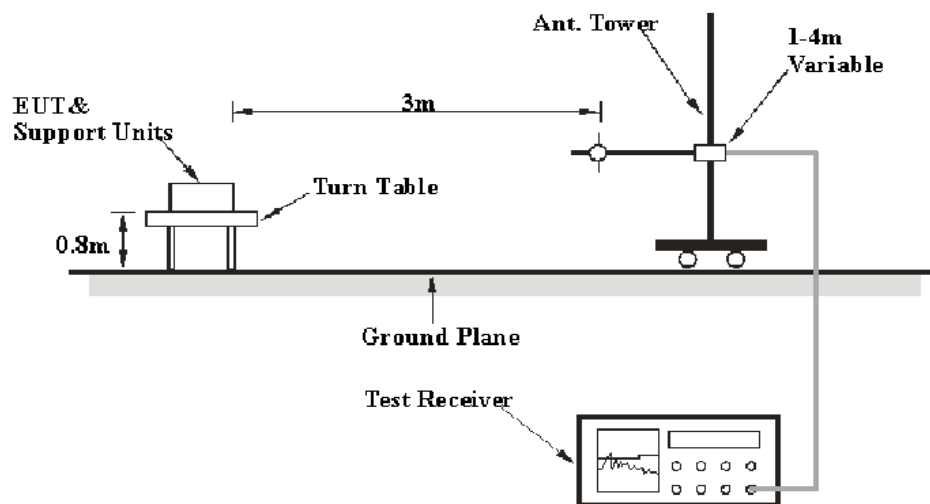
FCC §15.109 - RADIATED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB. ($k=2$, 95% level of confidence)

EUT Setup



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

For downloading mode, the Host PC was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 1000 MHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

<i>Frequency</i>	<i>RB/W</i>	<i>VB/W</i>	<i>IF B/W</i>	<i>Detection</i>
30 MHz-1 GHz	100 kHz	300 kHz	120 kHz	Quasi-peak

Test Procedure

During the radiated emissions test, for downloading mode, the Host PC and the related support equipments were connected to AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30 MHz to 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2011-08-02	2012-08-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-07-05	2012-07-04

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp (Shenzhen). attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.109 Class B, with the worst margin reading of:

11.7 dB at 84.046750 MHz in the Vertical polarization

Test Data

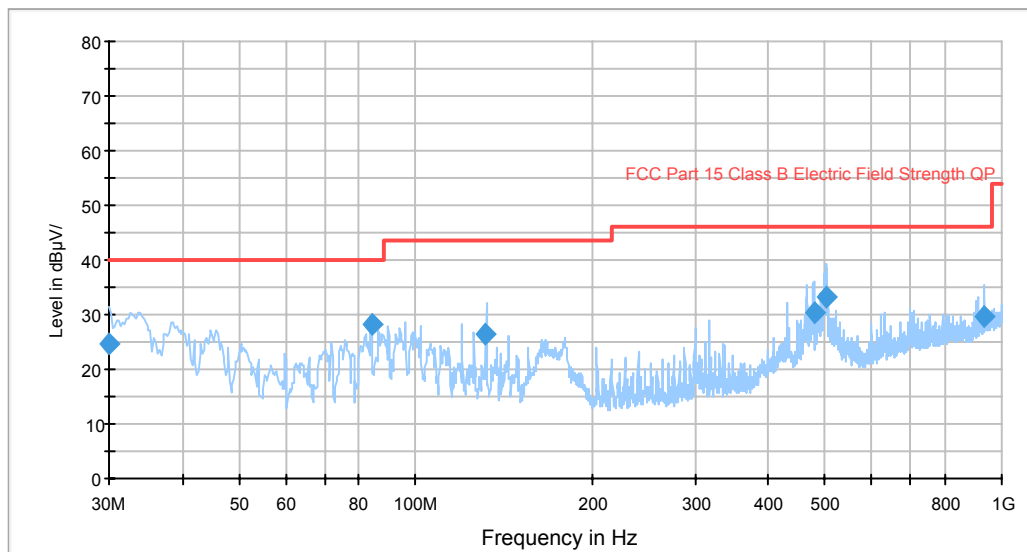
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

The testing was performed by Henry Ding on 2012-01-12.

EUT Operation Mode: Downloading

Auto Test(FCC 15 Class B)



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Test Antenna		Turntable Position (degree)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
		Height (cm)	Polarity (H/V)				
84.046750	28.3	192.0	V	120.0	-17.9	40.0	11.7
502.082750	33.2	205.0	H	208.0	-8.4	46.0	12.8
30.052875	24.6	322.0	V	128.0	-5.4	40.0	15.4
477.747750	30.5	227.0	H	205.0	-8.7	46.0	15.5
930.957000	29.8	204.0	H	293.0	0.2	46.0	16.2
131.918250	26.5	188.0	H	205.0	-12.7	43.5	17.0

DECLARATION LETTER

verykool

Verykool USA INC.
4350 Executive Dr.100 San Diego, CA 92121
Tel: 001 858 373 1635
Fax: 001 858 373 1505
Date: 2012-01-04


Declaration of Similarity

To:
Bay Area Compliance Laboratories Corp. (Shenzhen)
6/F, the 3rd Phase of Wan Li Industrial Bldg., Shihua Rd.,
FuTian Free Trade Zone, Shenzhen, China
Phone: +86 755 33320018, Fax: +86 755 33320008
<http://www.baclcorp.com.cn>

We, Verykool USA INC. hereby declare that our product : GSM Mobile Phone, Model: I605 and I604. These two models are electrically and mechanically identical, share the same PCB Layout and components and the trade name. And the differences between them are the model number. Model: I605 was tested by BACL.

Sincerely,

Signature:
sunny choi
product management director



******* END OF REPORT *******