# RF TEST REPORT



Report No.: 15070253-FCC-R4
Supersede Report No.: N/A

Applicant	Verykool USA Inc			
Product Name	Mobile Phone			
Model No.	s5013			
Serial No.	s5002			
Test Standard	FCC Part 1	5.247: 2014, ANSI C63.10: 2	013	
Test Date	April 13 to A	April 20, 2015		
Issue Date	April 27, 20	April 27, 2015		
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did no	Equipment did not comply with the specification			
Winnie Zhang		Chris You		
Winnie Zhang Test Engineer		Chris You Checked By		

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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**

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.



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### **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
15070253-FCC-R4	NONE	Original	April 27, 2015

# 2. Customer information

Applicant Name	Verykool USA Inc	
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA	
Manufacturer	HUIZHOU QIAOXING ELECTRONICS TECHNOLOGY CO.,LTD	
Manufacturer Add	Room -611, TianAn High-Tech Plaza II, Futian District, Shenzhen, China, 518040	

# 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

Main Model: s5013

Serial Model: s5002

Date EUT received: April 08, 2015

Test Date(s): April 13 to April 20, 2015

Equipment Category : DTS

Type of Modulation:

GSM850: 0 dBi

PCS1900: 0 dBi

UMTS-FDD Band V: 0 dBi
Antenna Gain:

UMTS-FDD Band II: 0 dBi

Bluetooth/BLE: 0 dBi

WIFI: 0 dBi

GSM / GPRS: GMSK

EGPRS: GMSK, 8PSK

UMTS-FDD: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK,  $\pi$  /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



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Max. Output Power: -3.323 dBm

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V: 102CH

UMTS-FDD Band II: 277CH

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

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

WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH

Port: Power Port, Earphone Port, USB Port

Battery:

Model: Q500

Spec: 3.7V 2000mAh 7.40Wh

Input Power: Adapter:

Model: Q500

Input: AC 100-240V; 50/60Hz 0.2A Max

Output: DC 5.0V; 1A

Trade Name : verykool

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

FCC ID: WA6S5013



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# 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density Complia	
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions Compliance	
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands  Compliance	

#### **Measurement Uncertainty**

Emissions		
Test Item	Uncertainty	
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-



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### 6. Measurements, Examination And Derived Results

### 6.1 Antenna Requirement

#### **Applicable Standard**

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **Antenna Connector Construction**

The EUT has 2 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI, the gain is 0 dBi for Bluetooth/BLE/WIFI. A permanently attached PIFA antenna for GSM and UMTS, the gain is 0 dBi for UMTS-FDD Band V/GSM850, 0 dBi for UMTS-FDD Band II / PCS1900

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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# 6.2 DTS (6 dB) Channel Bandwidth

Temperature	22°C
Relative Humidity	50%
Atmospheric Pressure	1010mbar
Test date :	April 10, 2015
Tested By :	Winnie Zhang

Spec	Item Requirement		Applicable		
§ 15.247(a)(2)	a)	V			
RSS Gen(4.6.1)	b)	b) 99% BW: For FCC reference only; required by IC.			
Test Setup	Spectrum Analyzer EUT				
Test Procedure	558074 D01 DTS MEAS Guidance v03r02, 8.1 DTS bandwidth 6dB Emission bandwidth measurement procedure  - Set RBW = 100 kHz.  - Set the video bandwidth (VBW) ≥ 3 ′ RBW.  - Detector = Peak.  - Trace mode = max hold.  - Sweep = auto couple.  - Allow the trace to stabilize.  Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.				
Remark					
Result	Pas	ss Fail			

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



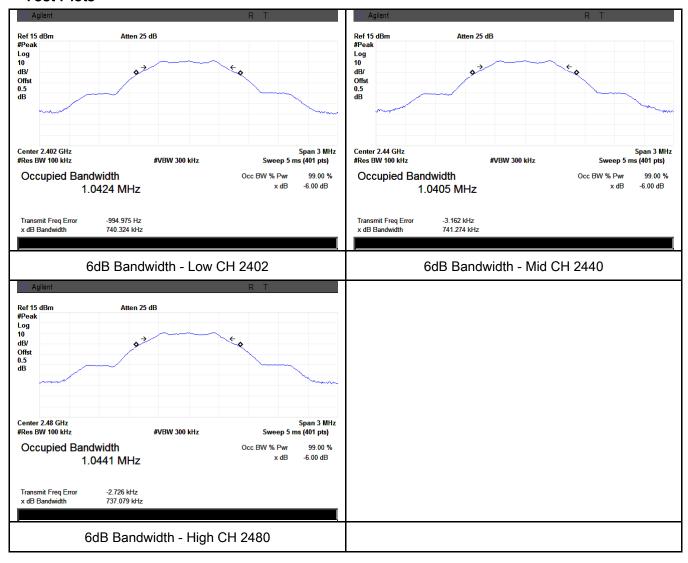
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#### 6dB Bandwidth measurement result

#### **Test Data**

СН	Freq (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	740.3	1.0424
Mid	2440	741.3	1.0405
High	2480	737.1	1.0441

#### **Test Plots**





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# 6.3 Maximum Output Power

Temperature	22°C
Relative Humidity	50%
Atmospheric Pressure	1010mbar
Test date :	April 10, 2015
Tested By :	Winnie Zhang

### Requirement(s):

Spec	Item	Applicable				
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt				
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt				
	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125				
§15.247(b)		Watt.				
(2),RSS210	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt				
(A8.4)	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25				
		Watt				
	f)	DSSS in 902-928MHz, 2400-2483.5MHz, 5725-5850MHz:	<b>V</b>			
		≤ 1 Watt				
Test Setup		Spectrum Analyzer EUT				
	558074	D01 DTS MEAS Guidance v03r02, 9.1.2 Integrated band power meth	od			
		m output power measurement procedure				
	a) Set the RBW ≥ DTS bandwidth.					
Test	<b>'</b>	BW≥ 3 × RBW.				
Procedure		c) Set span ≥ 3 x RBW d) Sweep time = auto couple.				
Frocedure	,	ctor = peak.				
	f) Trace mode = max hold.					
	h) Use peak marker function to determine the peak amplitude level.					
Remark						



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r			
l		□	
Result	l 💾 Pass	<b>≔</b> Fail	

Test Data Yes

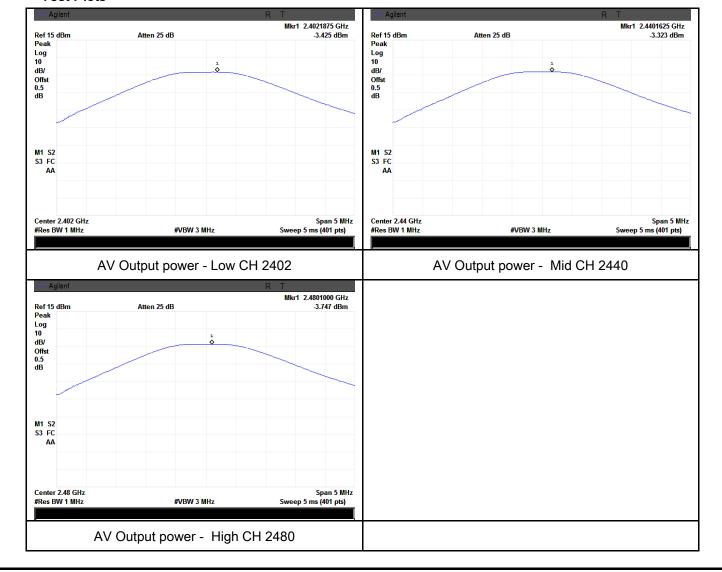
Test Plot Yes (See below)

#### Output Power measurement result

#### **Test Data**

Туре	СН	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-3.425	30	Pass
Output	Mid	2440	-3.323	30	Pass
power	High	2480	-3.747	30	Pass

#### **Test Plots**





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# 6.4 Power Spectral Density

	T
Temperature	22°C
Relative Humidity	50%
Atmospheric Pressure	1010mbar
Test date :	April 10, 2015
Tested By:	Winnie Zhang

Spec	Item	Requirement	Applicable			
§15.247(e)	a)	The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.				
Test Setup		Spectrum Analyzer EUT				
Test Procedure	558074 D01 DTS MEAS Guidance v03r02, 10.2 power spectral density method power spectral density measurement procedure  - a) Set analyzer center frequency to DTS channel center frequency.  - b) Set the span to 1.5 times the DTS bandwidth.  - c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.  - d) Set the VBW ≥ 3 × RBW.  - e) Detector = peak.  - f) Sweep time = auto couple.  - g) Trace mode = max hold.  - h) Allow trace to fully stabilize.  - i) Use the peak marker function to determine the maximum amplitude level within the RBW.					
Remark		j) If measured value exceeds limit, reduce RBW (no less than 3 kHz				
Result	Pas	ss Fail				

Test Data
Yes
N/A
Test Plot
Yes (See below)
N/A



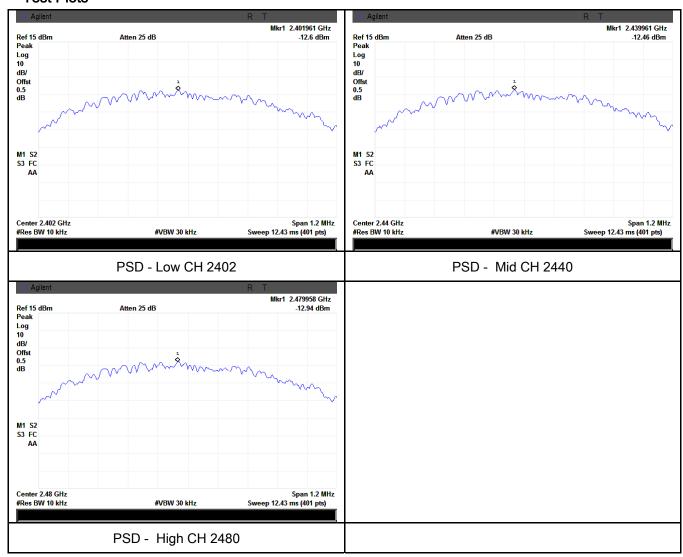
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#### Power Spectral Density measurement result

#### **Test Data**

Туре	СН	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
	Low	2402	-12.60	8	Pass
PSD	Mid	2440	-12.46	8	Pass
	High	2480	-12.94	8	Pass

#### **Test Plots**





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# 6.5 Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1013mbar
Test date :	March 12, 2015
Tested By :	Winnie Zhang

#### Requirement(s):

Spec	Item	Requirement	Applicable	
§15.247(d)	a)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.		
Test Setup	Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver			
Test Procedure	<ul> <li>Radiated Method Only</li> <li>1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.</li> <li>2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.</li> <li>3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check</li> </ul>			



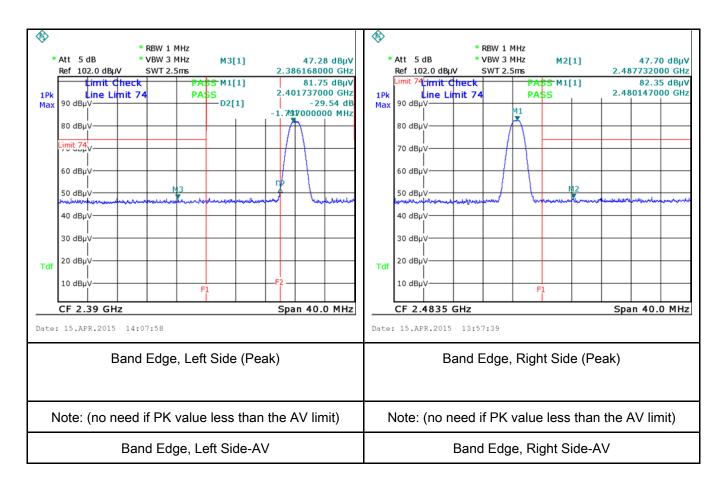
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	the emission of EUT, if pass then set Spectrum Analyzer as below:
	a. The resolution bandwidth and video bandwidth of test receiver/spectrum
	analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
	b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandwidth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.
	c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the
	video bandwidth is 10Hz with Peak detection for Average Measurement as below
	at frequency above 1GHz.
	- 4. Measure the highest amplitude appearing on spectral display and set it as a
	reference level. Plot the graph with marking the highest point and edge frequency.
	- 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	Pass Fail
	·
Test Data	Yes N/A
Test Plot	Yes (See below)



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# Test Plots Band Edge measurement result





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# 6.6 AC Power Line Conducted Emissions

Temperature	21°C
Relative Humidity	56%
Atmospheric Pressure	1017mbar
Test date :	March 16, 2015
Tested By :	Winnie Zhang

### Requirement(s):

Spec	Item	Requirement Applicable							
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-freconnected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line implower limit applies at the Frequency ranges (MHz)  0.15 ~ 0.5  0.5 ~ 5  5 ~ 30							
Test Setup		Vertical Ground Reference Plane  Horizontal Ground Reference Plane  Note: 1. Support units were connected to second LISN.  2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm							
Procedure	<ol> <li>The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.</li> <li>The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.</li> <li>The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss</li> </ol>								



Test Plot

Yes (See below)

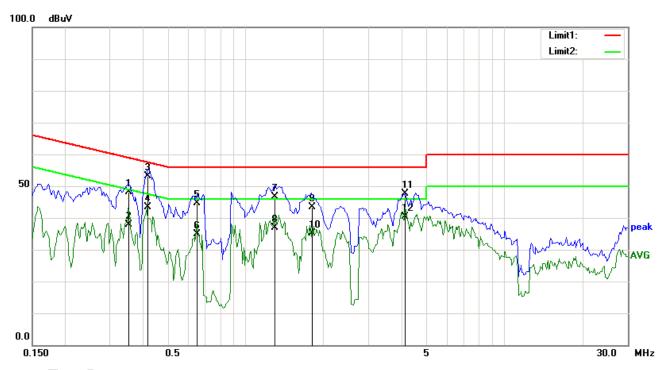
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	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)
	over the required frequency range using an EMI test receiver.
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the
	selected frequencies and the necessary measurements made with a receiver bandwidth
	setting of 10 kHz.
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	Pass Fail
Test Data	Yes N/A



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Test Mode: Transmitting Mode



### Test Data

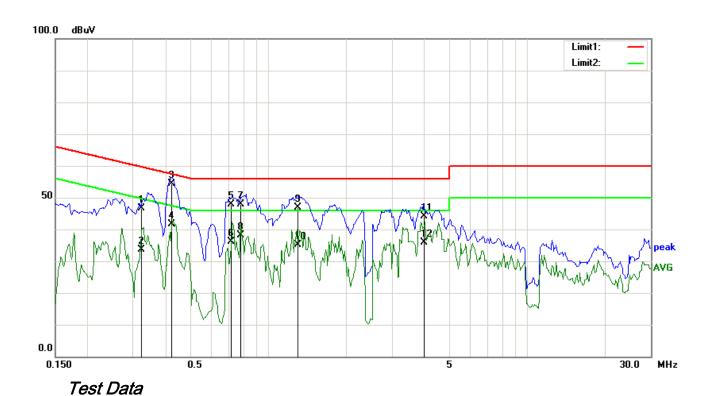
# Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Comment)
1	L1	0.3539	36.91	QP	11.20	48.11	58.87	-10.76	
2	L1	0.3539	26.65	AVG	11.20	37.85	48.87	-11.02	
3	L1	0.4234	42.08	QP	11.17	53.25	57.38	-4.13	
4	L1	0.4234	32.25	AVG	11.17	43.42	47.38	-3.96	
5	L1	0.6539	33.55	QP	11.06	44.61	56.00	-11.39	
6	L1	0.6539	23.86	AVG	11.06	34.92	46.00	-11.08	
7	L1	1.2960	35.76	QP	10.90	46.66	56.00	-9.34	
8	L1	1.2960	25.90	AVG	10.90	36.80	46.00	-9.20	
9	L1	1.8096	32.49	QP	10.90	43.39	56.00	-12.61	
10	L1	1.8096	24.21	AVG	10.90	35.11	46.00	-10.89	
11	L1	4.1563	36.83	QP	10.90	47.73	56.00	-8.27	
12	L1	4.1563	29.46	AVG	10.90	40.36	46.00	-5.64	



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Test Mode: Transmitting Mode



### Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBµV)	Detector	Corrected (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Comment)
			,						
1	N	0.3234	46.51	QP	0.00	46.51	59.62	-13.11	
2	N	0.3234	33.53	AVG	0.00	33.53	49.62	-16.09	
3	Ν	0.4234	54.35	QP	0.00	54.35	57.38	-3.03	
4	Ν	0.4234	41.52	AVG	0.00	41.52	47.38	-5.86	
5	Ν	0.7160	47.85	QP	0.00	47.85	56.00	-8.15	
6	Ζ	0.7160	36.06	AVG	0.00	36.06	46.00	-9.94	
7	Ν	0.7828	47.82	QP	0.00	47.82	56.00	-8.18	
8	Ν	0.7828	38.15	AVG	0.00	38.15	46.00	-7.85	
9	N	1.2960	46.82	QP	0.00	46.82	56.00	-9.18	
10	N	1.2960	35.02	AVG	0.00	35.02	46.00	-10.98	
11	N	3.9850	44.16	QP	0.00	44.16	56.00	-11.84	
12	N	3.9850	35.92	AVG	0.00	35.92	46.00	-10.08	



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# 6.7 Radiated Spurious Emissions

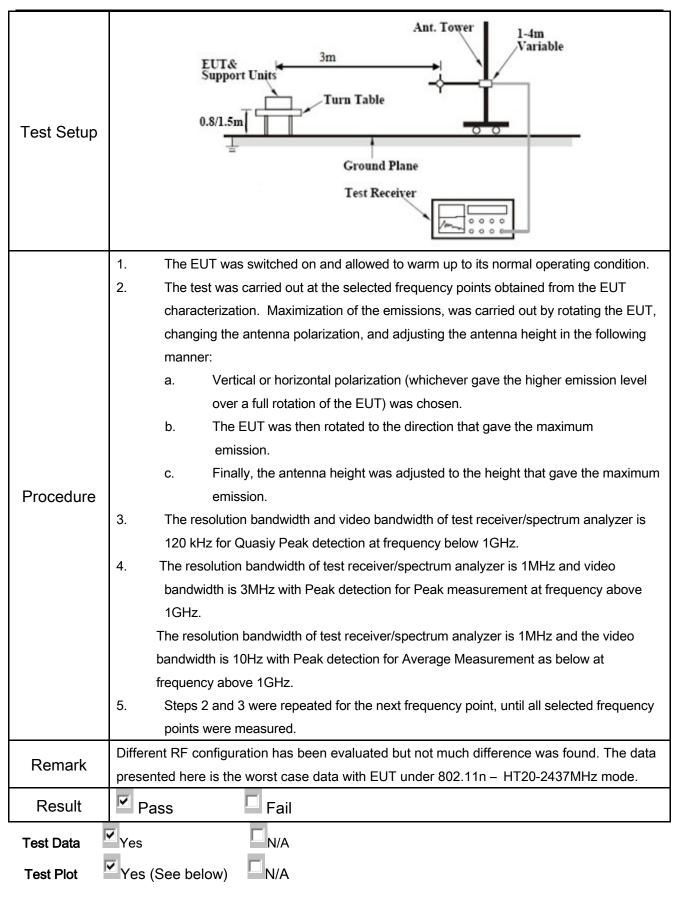
Temperature	22°C
Relative Humidity	57%
Atmospheric Pressure	1018mbar
Test date :	March 17, 2015
Tested By :	Winnie Zhang

#### Requirement(s):

Spec	Item	Requirement	Applicable	
47CFR§15.	a)	Except higher limit as specified else emissions from the low-power radexceed the field strength levels specified else the level of any unwanted emission the fundamental emission. The tige edges  Frequency range (MHz)  30 - 88  88 - 216  216 960	V	
247(d),		Above 960		
RSS210 (A8.5)	b)	For non-restricted band, In any 10 frequency band in which the spread modulated intentional radiator is of power that is produced by the interest 20 dB or 30dB below that in the 10 band that contains the highest leving determined by the measurement roused. Attenuation below the generic is not required  20 dB down  30	ad spectrum or digitally perating, the radio frequency entional radiator shall be at least 20 kHz bandwidth within the el of the desired power, method on output power to be	<b>&gt;</b>
	c)	or restricted band, emission must emission limits specified in 15.209	• •	<b>V</b>



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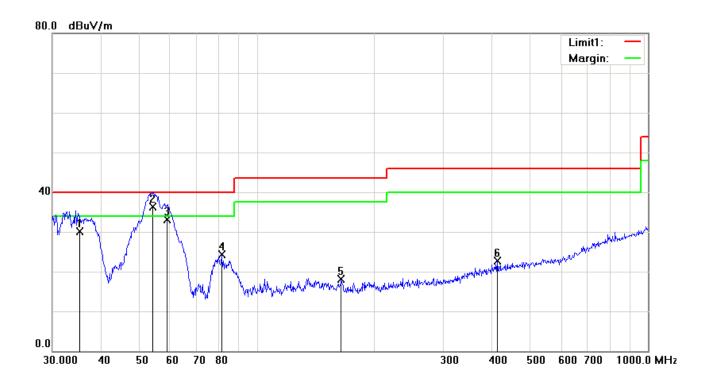




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Test Mode:
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### Below 1GHz



### Test Data

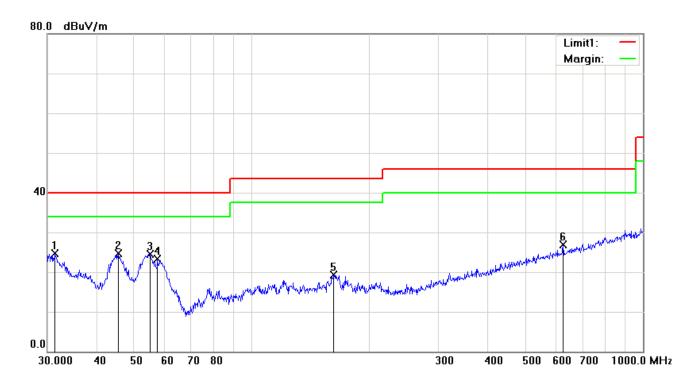
# Vertical Polarity Plot @3m

No	P/L	Frequency	Reading	Detec	Correcte	Result	Limit	Margin	Height	Degree	Com
NO	F/L	(MHz)	(dBµV)	tor	d (dB)	(dBµV)	(dBµV)	(dB)	Height	Degree	ment
1	V	35.3480	34.29	QP	-4.23	30.06	40.00	-9.94	100	123	
2	V	54.1570	50.42	QP	-14.11	36.31	40.00	-3.69	100	164	
3	V	58.7864	47.19	QP	-14.15	33.04	40.00	-6.96	100	196	
4	V	81.2117	38.17	peak	-13.77	24.40	40.00	-15.60	100	262	
5	V	164.3302	26.42	peak	-8.26	18.16	43.50	-25.34	100	134	
6	V	411.8240	26.31	peak	-3.66	22.65	46.00	-23.35	200	177	



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### Below 1GHz



### Test Data

# Horizontal Polarity Plot @3m

No	P/L	Frequency	Reading	Detec	Correcte	Result	Limit	Margin	Height	Degree	Com
INO	NO P/L	(MHz)	(dBµV)	tor	d (dB)	(dBµV)	(dBµV)	(dB)	пеідпі	Degree	ment
1	Η	31.3992	26.06	peak	-1.29	24.77	40.00	-15.23	200	59	
2	Н	45.5348	26.50	peak	-1.71	24.79	40.00	-15.21	100	13	
3	Н	55.0274	38.25	peak	-13.77	24.48	40.00	-15.52	100	271	
4	Н	57.3923	37.33	peak	-14.04	23.29	40.00	-16.71	100	264	
5	Н	162.0414	27.79	peak	-8.45	19.34	43.50	-24.16	200	208	
6	Н	625.0780	26.50	peak	0.42	26.92	46.00	-19.08	200	179	



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Test Mode: Transmitting Mode
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#### Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	37.95	AV	V	33.83	6.86	31.72	46.92	54	-7.08
4804	35.22	AV	Н	33.83	6.86	31.72	44.19	54	-9.81
4804	45.24	PK	V	33.83	6.86	31.72	54.21	74	-19.79
4804	44.33	PK	Н	33.83	6.86	31.72	53.3	74	-20.7

#### Middle Channel (2440 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4880	36.88	AV	V	33.86	6.82	31.82	45.74	54	-8.26
4880	35.71	AV	Н	33.86	6.82	31.82	44.57	54	-9.43
4880	46.63	PK	V	33.86	6.82	31.82	55.49	74	-18.51
4880	47.24	PK	Н	33.86	6.82	31.82	56.1	74	-17.9

### High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	37.64	AV	٧	33.9	6.76	31.92	46.38	54	-7.62
4960	35.89	AV	Η	33.9	6.76	31.92	44.63	54	-9.37
4960	45.81	PK	V	33.9	6.76	31.92	54.55	74	-19.45
4960	44.79	PK	Н	33.9	6.76	31.92	53.53	74	-20.47



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# Annex A. TEST INSTRUMENT

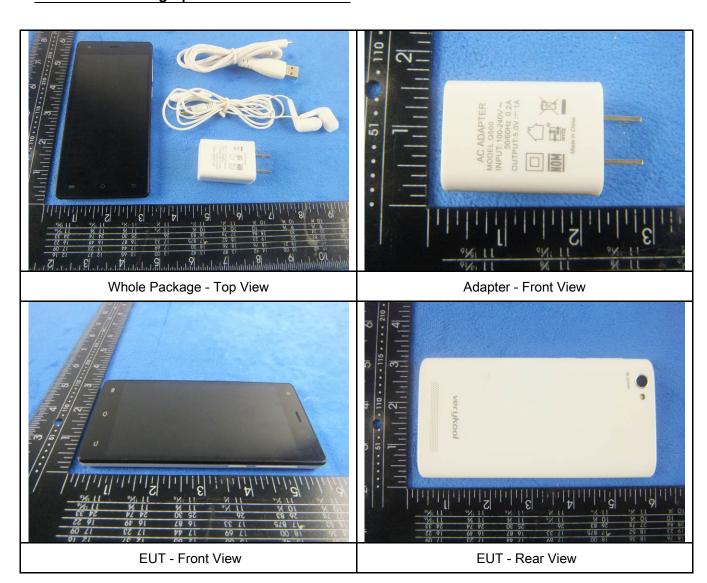
Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/18/2014	09/17/2015	>
Line Impedance	LI-125A	191106	09/26/2014	09/25/2015	~
Line Impedance	LI-125A	191107	09/26/2014	09/25/2015	~
LISN	ISN T800	34373	09/26/2014	09/25/2015	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	<b>\</b>
Transient Limiter	LIT-153	531118	09/02/2014	09/01/2015	<b>&gt;</b>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/18/2014	09/17/2015	~
Power Splitter	1#	1#	09/02/2014	09/01/2015	<u>&lt;</u>
DC Power Supply	E3640A	MY40004013	09/18/2014	09/17/2015	<u>&lt;</u>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/18/2014	09/17/2015	~
Positioning Controller	UC3000	MF780208282	11/20/2014	11/19/2015	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2014	09/01/2015	<b>&gt;</b>
Microwave Preamplifier (0.5 ~ 18GHz)	PAM-118	443008	09/02/2014	09/01/2015	<b>\</b>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/22/2014	09/21/2015	<b>\</b>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	Z.
Universal Radio Communication Tester	CMU200	121393	09/26/2014	09/25/2015	V



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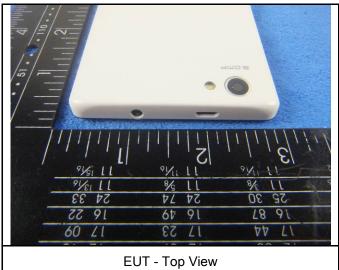
# Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo





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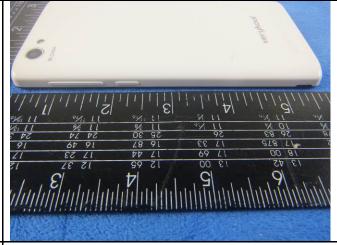


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**EUT - Bottom View** 







**EUT - Right View** 



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### Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1



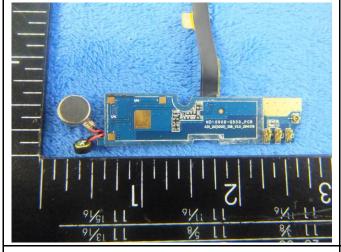
Cover Off - Top View 2



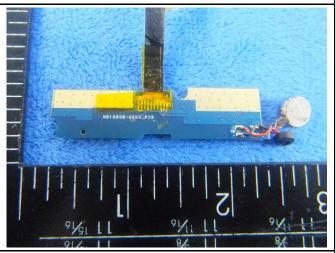
Battery - Top View



Battery - Bottom View



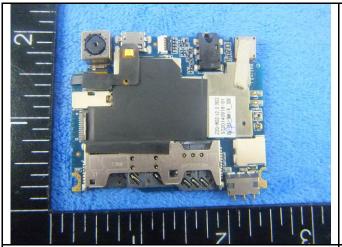
RF connect borad - Front View



RF connect borad - Rear View



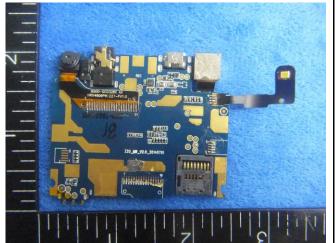
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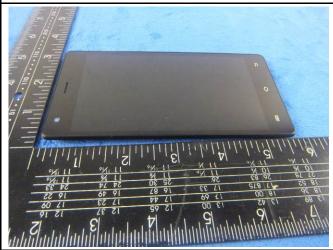
Mainborad With Shielding - Front View



Mainborad Without Shielding - Front View



Mainborad With Shielding - rear View



LCD - Front View



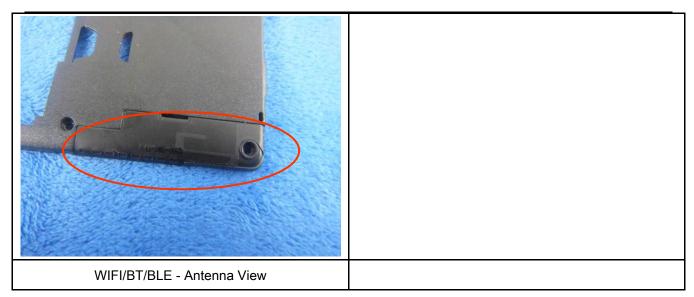
GSM/PCS/UMTS-FDD Antenna View



GSM/PCS/UMTS-FDD Antenna View



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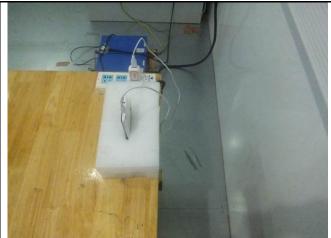


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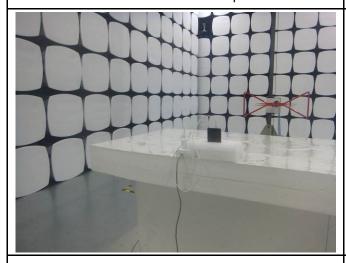
# Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

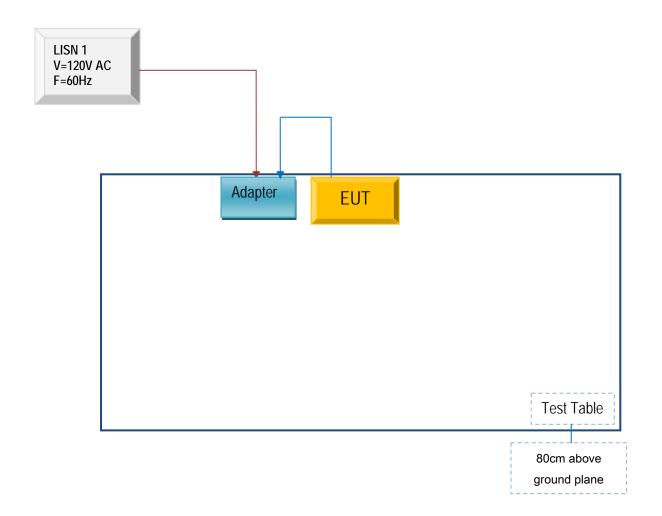


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# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex C.ii. TEST SET UP BLOCK

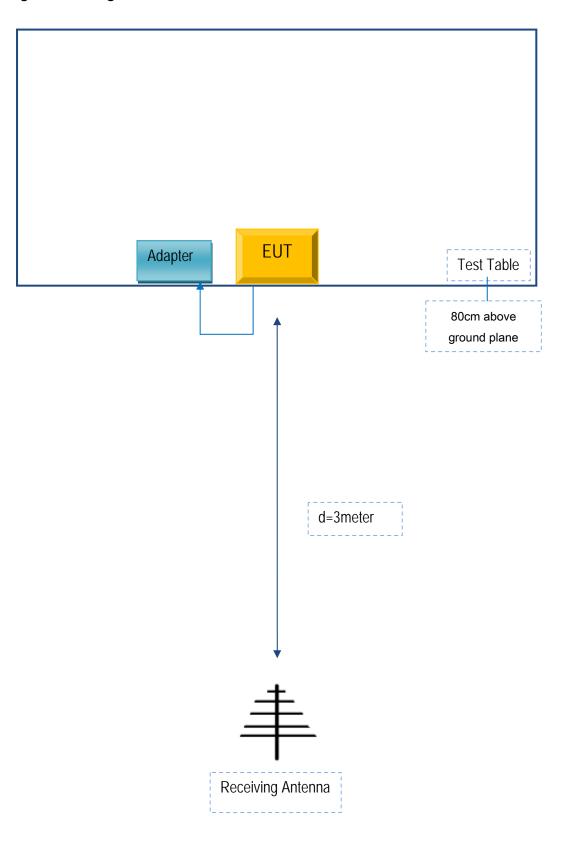
Block Configuration Diagram for AC Line Conducted Emissions





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# **Block Configuration Diagram for Radiated Emissions**





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### Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A



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# Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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### Annex E. DECLARATION OF SIMILARITY

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# **Declaration** Letter

For our business issue and marketing requirement, we would like to list 2 models on these reports, as following:

Model No: s5013, s5002

We Verykool USA Inc, hereby declare that our products s5013 and s5002, the difference between these two models are listed as below:

Main Model No.	Series Model No.	Difference
s5013	s5002	Rear camera changes from 8MP to 5MP. Front camera changes from 5MP to 2MP

Thank you!

Sincerely

Signature:

Job Title: