# RF TEST REPORT



Report No.: 14070617-FCC-R4
Supersede Report No.: N/A

Applicant	Verykool USA Inc		
Product Name	Mobile Phone		
Model No.	s5015		
Test Standard	FCC Part 15.247: 2013, ANSI C63.10: 2009		
Test Date	December 02 to December 10, 2014		
Issue Date	December 15, 2014		
Test Result	Pass Fail		
Equipment complied with the specification			
Equipment did not comply with the specification			
Herith	sW Alex.Lin		
Herith S Test Engir			

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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.



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
14070617-FCC-R4	NONE	Original	December 15, 2014
			_

# 2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122
Manufacturer	Sprocomm Technologies CO.,LTD
Manufacturer Add	5D-506 F1.6 Block,Tianfa Building,Tianan Chegongmiao Industrial park,Futian
	Dist,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	



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# 4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone
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Main Model: s5015

Serial Model: N/A

Date EUT received: November 26, 2014

Test Date(s): December 02 to December 10, 2014

Equipment Category: DTS

UMTS-FDD Band V/GSM850: 0.8 dBi

UMTS-FDD Band II: 1.7 dBi

UMTS-FDD Band IV: 1.7 dBi Antenna Gain:

PCS1900: 1.2 dBi

Bluetooth/BLE: 2.3 dBi

WIFI: 2.3 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



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Max Output Power: 802.11b: -3.246 dBm

> 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, Earphone Port, USB Port

Battery:

Model: X5021

Spec: 3.8V 2100mAh 7.98Wh

Limited charger voltage: 4.35V

Input Power: Adapter:

Model: SC050100-US

Input: AC 100-240V; 50/60Hz 0.4A

Output: DC 5.0V; 1000mA

Trade Name: verykool

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

FCC ID: WA6S5015



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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	Compliance
§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,	Radiated Spurious Emissions & Unwanted Emissions Compliance	
§15.247(d)	into Restricted Frequency Bands	

#### **Measurement Uncertainty**

Description	Uncertainty
,,	+5.6dB/-4.5dB
	ns are normal), with a coverage EUTs < 0.5m X 0.5m X 0.5m)



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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 PIFA antenna for Bluetooth/BLE/WIFI, the gain is 2.3 dBi for Bluetooth/BLE/WIFI.

A PIFA antenna for GSM and UMTS, the gain is 0.8 dBi for UMTS-FDD Band V/ GSM850, 1.7 dBi for UMTS-FDD Band II / UMTS-FDD Band IV and 1.2 dBi for PCS1900

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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# 6.2 DTS (6 dB) Channel Bandwidth

Temperature	24°C
Relative Humidity	54%
Atmospheric Pressure	1005mbar
Test date :	December 05, 2014
Tested By :	Herith Shi

Spec	Item	Item Requirement Applicabl					
§ 15.247(a)(2)	a)	a) 6dB BW≥ 500kHz;					
RSS Gen(4.6.1)	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>



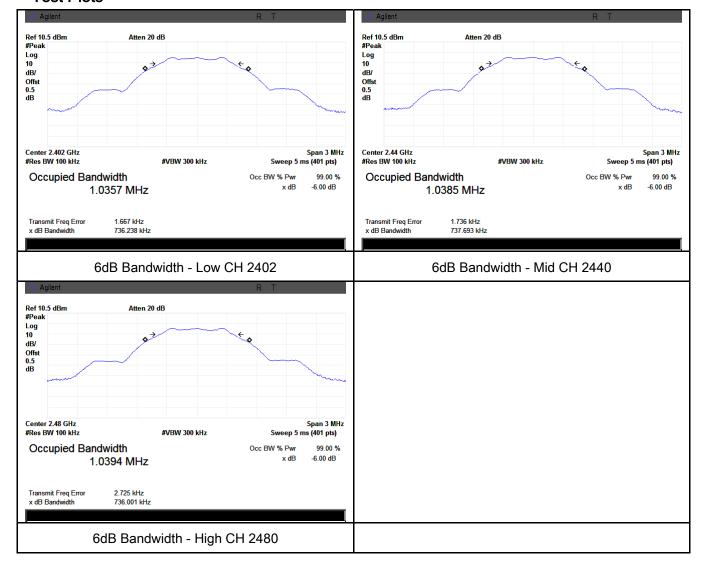
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#### 6dB Bandwidth measurement result

#### **Test Data**

Туре	СН	Freq (MHz)	Result (MHz)	Limit (MHz)	Result
	Low	2402	736.238	≥ 0.5	Pass
6dB BW	Mid	2440	737.693	≥ 0.5	Pass
	High	2480	736.001	≥ 0.5	Pass

#### **Test Plots**





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# 6.3 Maximum Output Power

Temperature	24°C	
Relative Humidity	54%	
Atmospheric Pressure	1005mbar	
Test date :	December 05, 2014	
Tested By :	Herith Shi	

### Requirement(s):

Spec	Item	m Requirement 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 method				
	Maximum output power measurement procedure				
	a) Set the RBW ≥ DTS bandwidth.				
Test	b) Set VBW ≥ 3 × RBW.				
Procedure	c) Set span ≥ 3 x RBW d) Sweep time = auto couple.				
Frocedure	e) Detector = peak.				
	f) Trace mode = max hold.				
	g) Allow trace to fully stabilize.				
	h) Use peak marker function to determine the peak amplitude level.				
Remark					



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Result	Pass	<b>□</b> Fail

Test Data Yes

Test Plot Yes (See below)



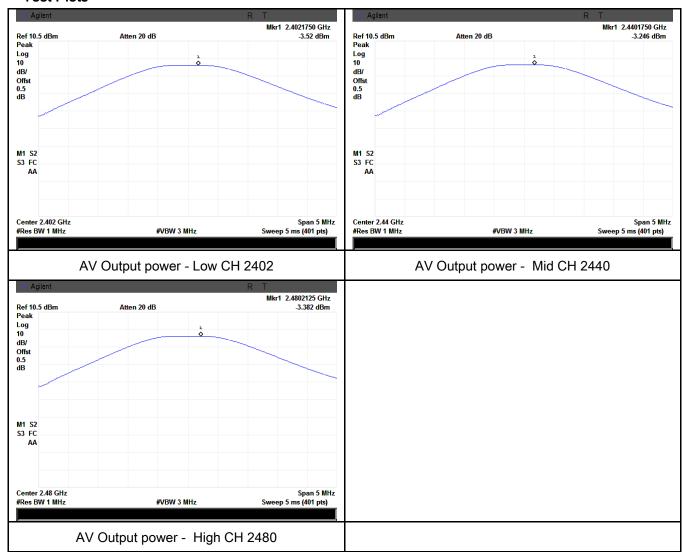
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#### Output Power measurement result

#### **Test Data**

Туре	СН	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-3.520	30	Pass
Output	Mid	2440	-3.246	30	Pass
power	High	2480	-3.382	30	Pass

#### **Test Plots**





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# 6.4 Power Spectral Density

Temperature	22°C	
Relative Humidity	50%	
Atmospheric Pressure	1011mbar	
Test date :	December 10, 2014	
Tested By :	Herith Shi	

Spec	Item	Requirement	Applicable		
§15.247(e)	a)	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.  - j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.				
Remark			· · · · ·		
Result	Pas	ss Fail			

Test Data







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Test Plot

Yes (See below)

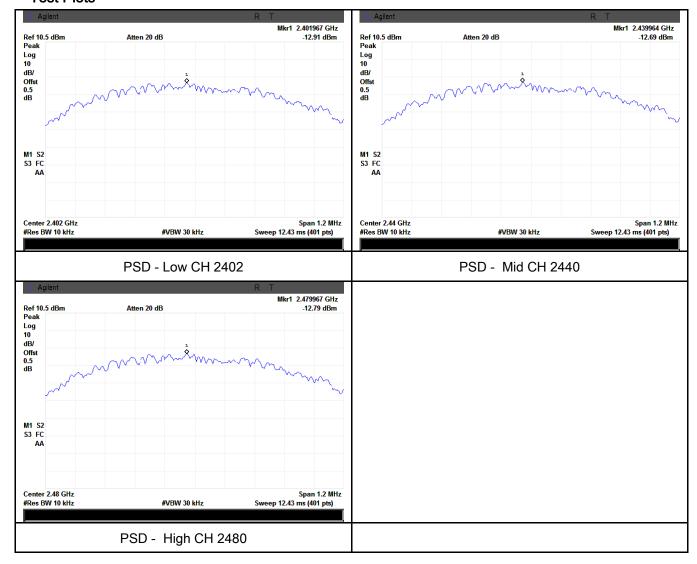
□<sub>N/A</sub>

#### Power Spectral Density measurement result

#### **Test Data**

Туре	СН	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
	Low	2402	-12.91	8	Pass
PSD	Mid	2440	-12.69	8	Pass
	High	2480	-12.79	8	Pass

#### **Test Plots**





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

Temperature	20°C		
Relative Humidity	57%		
Atmospheric Pressure	1009mbar		
Test date :	December 08, 2014		
Tested By :	Herith Shi		

### 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.	<b>\</b>	
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. The set it to Low Channel and High Channel within its operating range, and make suthe 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>			



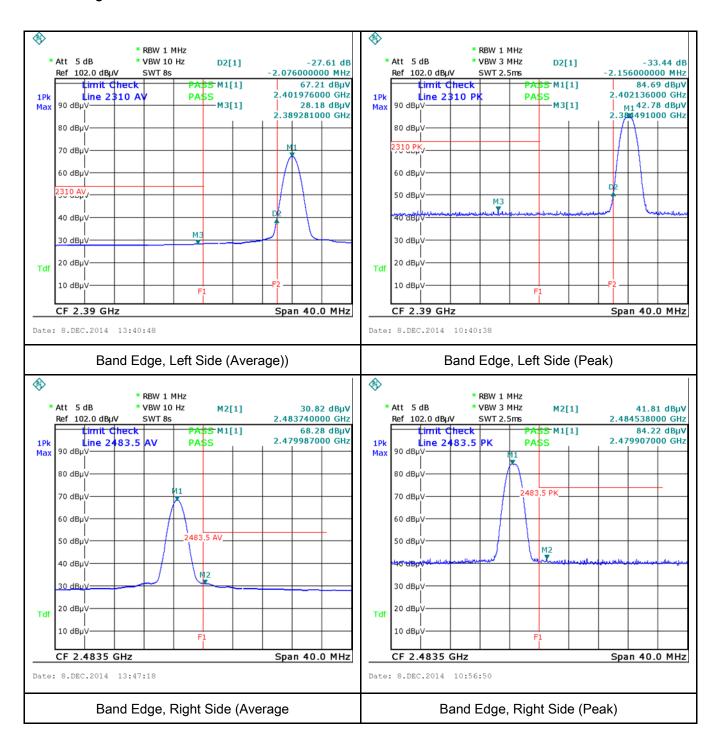
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	the emission of EUT, if pass then set Spectrum Analyzer as below:				
	a. The resolution bandwidth and video bandwidth of test receiver/spectrum				
	analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.				
	b. The resolution bandwidth 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	51%		
Atmospheric Pressure	1002mbar		
Test date :	December 02, 2014		
Tested By :	Herith Shi		

### Requirement(s):

Spec	Item	Requirement	Applicable				
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.  Frequency ranges  Limit (dBµV)  QP  Average			V		
		0.15 ~ 0.5 0.5 ~ 5	66 – 56 56	56 – 46 46			
		5 ~ 30 60 50					
Test Setup		Note: 1. Support units were connected to second LISN.  2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm					
Procedure	1. 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.  2. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.  3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss						



Test Plot

Yes (See below)

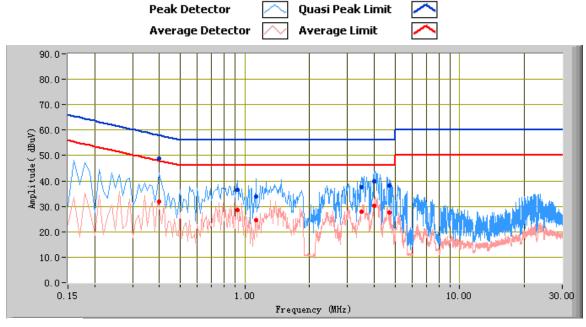
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	coaxial cable.				
	4. All other supporting equipment were powered separately from another main supply.				
	5. The EUT was switched on and allowed to warm up to its normal operating condition.				
	6. A scan was made on the NEUTRAL line (for AC mains) 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

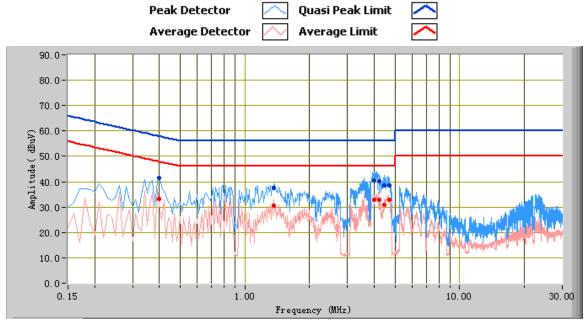
## Phase Line Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
0.40	48.96	57.85	-8.89	31.73	47.85	-16.12	10.98
3.50	37.65	56.00	-18.35	27.93	46.00	-18.07	10.71
3.98	39.97	56.00	-16.03	30.07	46.00	-15.93	10.81
1.13	33.88	56.00	-22.12	24.69	46.00	-21.31	10.29
4.70	38.07	56.00	-17.93	27.60	46.00	-18.40	10.94
0.92	36.62	56.00	-19.38	28.54	46.00	-17.46	10.34



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Test Mode: Transmitting Mode



### Test Data

## Phase Neutral Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
4.46	38.54	56.00	-17.46	30.94	46.00	-15.06	10.90
4.22	40.16	56.00	-15.84	32.88	46.00	-13.12	10.85
3.98	40.54	56.00	-15.46	32.72	46.00	-13.28	10.81
0.40	41.49	57.85	-16.36	33.15	47.85	-14.70	10.98
4.70	38.68	56.00	-17.32	33.00	46.00	-13.00	10.94
1.36	37.37	56.00	-18.63	30.67	46.00	-15.33	10.32



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# 6.7 Radiated Spurious Emissions

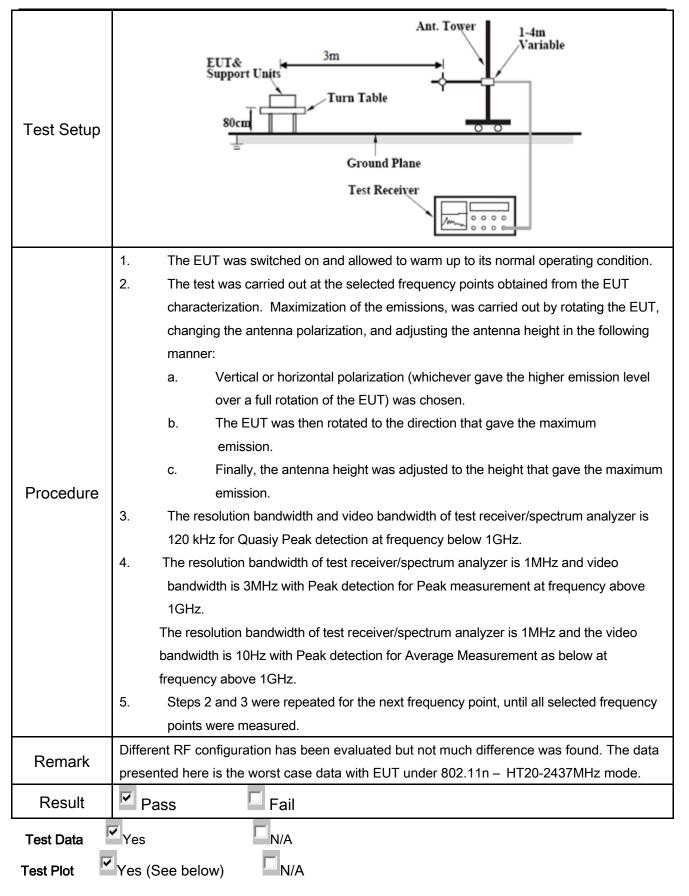
Temperature	21°C		
Relative Humidity	51%		
Atmospheric Pressure	1002mbar		
Test date :	December 02, 2014		
Tested By :	Herith Shi		

### Requirement(s):

Spec	Item	Requirement	Applicable	
	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spet the level of any unwanted emission the fundamental emission. The tight edges	<b>V</b>	
		Frequency range (MHz)	Field Strength (µV/m)	
47CFR§15.		30 - 88	100	
		88 – 216	150	
		216 960	200	
		Above 960	500	
RSS210 (A8.5)	b)	For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is oppower that is produced by the intentional solution of the spread of the sprea	d spectrum or digitally perating, the radio frequency ational radiator shall be at least 0 kHz bandwidth within the el of the desired power, method on output power to be	<b>&gt;</b>
	c)	or restricted band, emission must a emission limits specified in 15.209	<b>~</b>	



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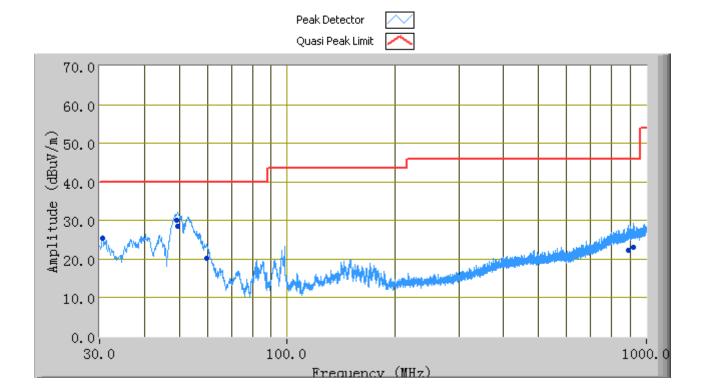




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Test Mode:	Transmitting Mode
	•

# (Below 1GHz)



### Test Data

### Vertical & Horizontal Polarity Plot @3m

Frequency (MHz)	Quasi Peak (dBµV/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dBµV/m)	Margin (dB)
49.75	28.54	0.00	V	143.00	-13.77	40.00	-11.46
49.21	30.05	283.00	V	101.00	-13.54	40.00	-9.95
30.65	25.32	233.00	V	169.00	-2.01	40.00	-14.68
59.66	20.17	1.00	V	177.00	-13.98	40.00	-19.83
921.26	23.00	60.00	Η	170.00	5.10	46.00	-23.00
891.72	22.26	330.00	Н	339.00	4.66	46.00	-23.74



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rest wode. I ransmitting wode	Test Mode:	Transmitting	Mode
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### (Above 1GHz)

Note: Other modes were verified, only the result of worst case basic rate mode was presented.

#### Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading	Detector (PK/AV)	Polarity (H/V)	Ant.	Cable	Pre- Amp. Gain (dB)	Cord. Amp.	Limit (dBµV/m)	Margin (dB)
4804	(dBµV) 34.66	AV	V	(dB/m) 33.83	(dB) 4.87	24	(dBµV/m) 49.36	54	-4.64
4804	33.78	AV	Н	33.83	4.87	24	48.48	54	-5.52
4804	42.24	PK	V	33.83	4.87	24	56.94	74	-17.06
4804	41.09	PK	Н	33.83	4.87	24	55.79	74	-18.21

#### 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	35.03	AV	V	33.86	4.87	24	49.76	54	-4.24
4880	34.14	AV	Н	33.86	4.87	24	48.87	54	-5.13
4880	41.85	PK	V	33.86	4.87	24	56.58	74	-17.42
4880	40.92	PK	Н	33.86	4.87	24	55.65	74	-18.35

#### High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading	Detector (PK/AV)	Polarity (H/V)	Ant.	Cable	Pre- Amp. Gain	Cord.	Limit (dBµV/m)	Margin (dB)
	(dBµV)			(dB/m)	(dB)	(dB)	(dBµV/m)		
4960	34.52	AV	V	33.9	4.87	24	49.29	54	-4.71
4960	33.75	AV	Н	33.9	4.87	24	48.52	54	-5.48
4960	41.67	PK	V	33.9	4.87	24	56.44	74	-17.56
4960	40.83	PK	Н	33.9	4.87	24	55.60	74	-18.40



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# Annex A. TEST INSTRUMENT

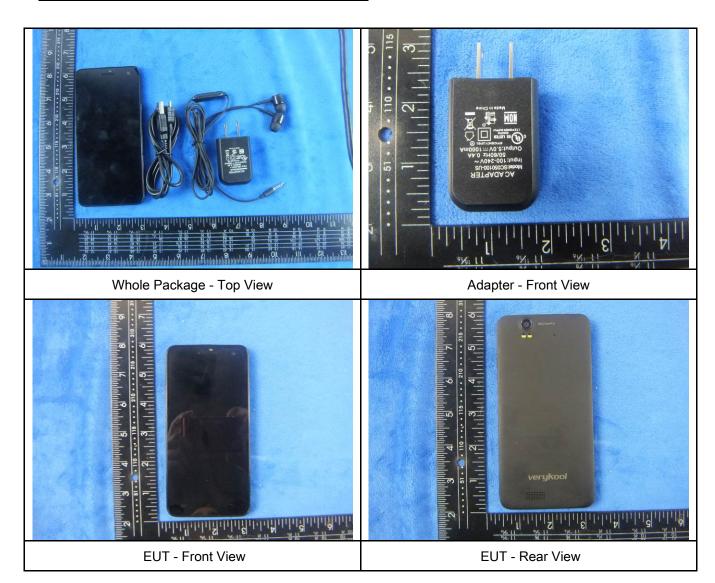
Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/18/2014	09/17/2015	>
Line Impedance	LI-125A	191106	09/26/2014	09/25/2015	~
Line Impedance	LI-125A	191107	09/26/2014	09/25/2015	~
LISN	ISN T800	34373	09/26/2014	09/25/2015	~
Double Ridge Horn 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	11/20/2013	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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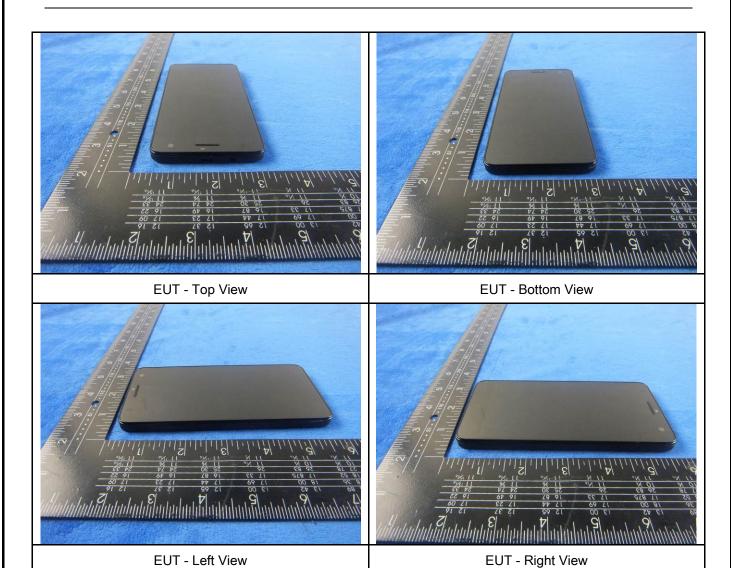
# Annex B. EUT And Test Setup Photographs

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





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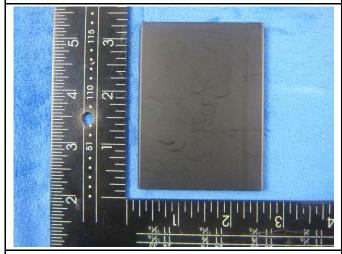
### Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 1

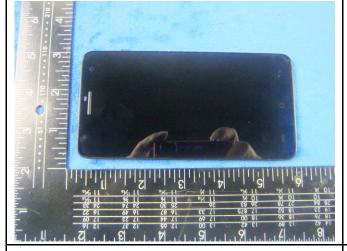
Cover Off - Top View 2



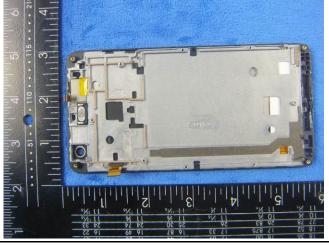


Battery - Top View

Battery - Bottom View



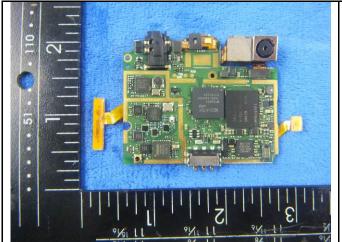
LCD - Front View



LCD - Rear View



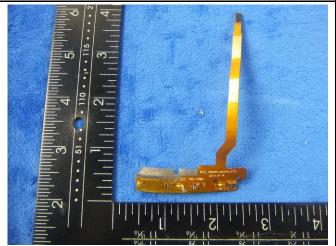
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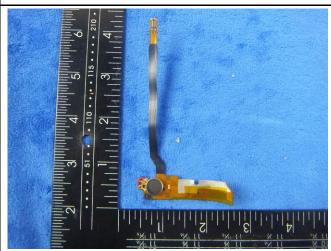
Mainborad With Shielding - Front View



Mainborad Without Shielding - Front View



Mainborad With Shielding - Front View



Mainborad Without Shielding - Rear View



BT/BLE/WIFI Antenna View

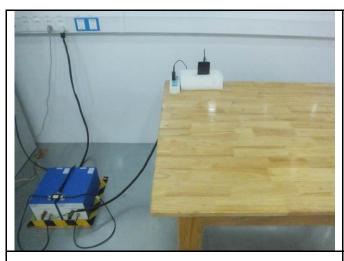


GSM/PCS/UMTS-FDD Antenna View



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## Annex B.iii. Photograph: Test Setup Photo



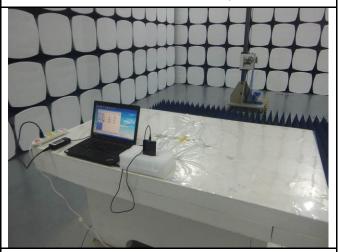
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

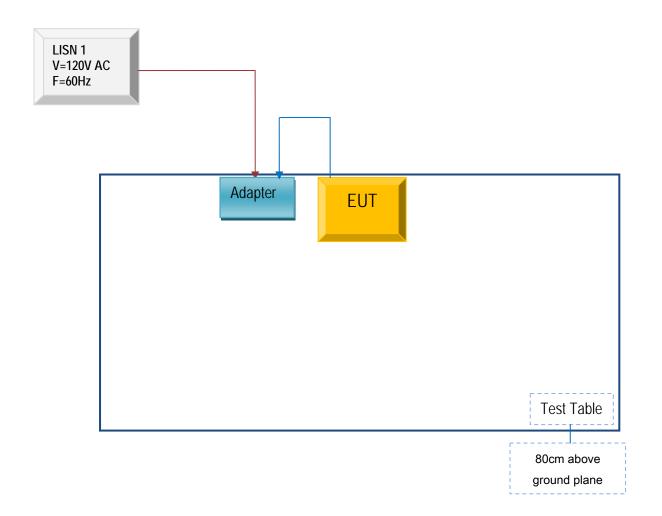


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# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

## Annex C.ii. TEST SET UP BLOCK

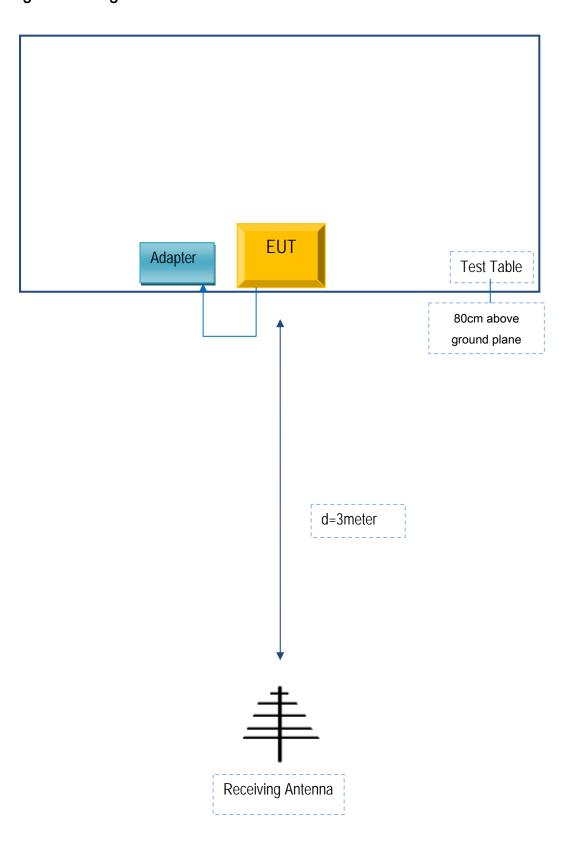
### Block Configuration Diagram for AC Line Conducted Emissions





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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

N/A