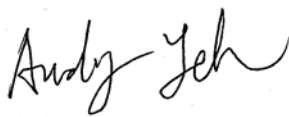


# FCC Test Report

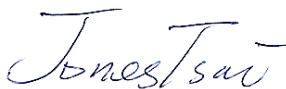
APPLICANT : TCL Communication Ltd.  
EQUIPMENT : Mobile Phone  
BRAND NAME : ALCATEL ONETOUCH  
MODEL NAME : 8050G  
MARKETING NAME : PIXI 4 6" 3G Android  
FCC ID : 2ACCJB037  
STANDARD : FCC 47 CFR FCC Part 15 Subpart B  
CLASSIFICATION : Certification

The product was received on Nov. 03, 2015 and testing was completed on Dec. 16, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2009 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.



Prepared by: Andy Yeh / Manager



Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL (SHENZHEN) INC.**

**1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,  
Nanshan District, Shenzhen, Guangdong, P. R. China**



## TABLE OF CONTENTS

<b>REVISION HISTORY .....</b>	<b>3</b>
<b>SUMMARY OF TEST RESULT .....</b>	<b>4</b>
<b>1. GENERAL DESCRIPTION .....</b>	<b>5</b>
1.1. Applicant.....	5
1.2. Manufacturer .....	5
1.3. Product Feature of Equipment Under Test .....	5
1.4. Product Specification subjective to this standard.....	6
1.5. Specification of Accessory .....	7
1.6. Modification of EUT .....	8
1.7. Test Location.....	8
1.8. Applicable Standards .....	8
<b>2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST .....</b>	<b>9</b>
2.1. Test Mode .....	9
2.2. Connection Diagram of Test System .....	11
2.3. Support Unit used in test configuration and system.....	12
2.4. EUT Operation Test Setup.....	13
<b>3. TEST RESULT .....</b>	<b>14</b>
3.1. Test of AC Conducted Emission Measurement .....	14
3.2. Test of Radiated Emission Measurement .....	20
<b>4. LIST OF MEASURING EQUIPMENT .....</b>	<b>24</b>
<b>5. UNCERTAINTY OF EVALUATION .....</b>	<b>25</b>
<b>APPENDIX A. SETUP PHOTOGRAPHS</b>	
<b>APPENDIX B. PRODUCT EQUALITY DECLARATION</b>	



## REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC5N0302-01	Rev. 01	This is a variant product of 8050E, The product equality declaration could be referred to Appendix B. The test result is not affected, all the test cases were performed on original report which can be referred to Sporton Report Number FC5N0302 (Model name: 8050E; FCC ID: 2ACCJB036).	Jan. 08, 2016



## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 6.75 dB at 0.440 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 7.92 dB at 239.520 MHz for Quasi-Peak

## 1. General Description

### 1.1. Applicant

**TCL Communication Ltd.**

5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park, Pudong Area, Shanghai, 201203,  
P.R.China

### 1.2. Manufacturer

**TCL Communication Ltd.**

5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park, Pudong Area, Shanghai, 201203,  
P.R.China

### 1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	ALCATEL ONETOUCH
Model Name	8050G
Marketing Name	PIXI 4 6" 3G Android
FCC ID	2ACCJB037
EUT supports Radios application	GSM/GPRS/EGPRS (Downlink Only)/ WCDMA/HSPA/HSPA+ (16QAM uplink is not supported)/ WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.1 LE
IMEI Code on the test	Conduction: 014574000100519/014574000100527 Radiation: 014574000100519/014574000100527
HW Version	V04
SW Version	1A1D
EUT Stage	Production Unit

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4. Product Specification subjective to this standard

Product Specification subjective to this standard	
<b>Tx Frequency</b>	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
<b>Rx Frequency</b>	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz
<b>Antenna Type</b>	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GPS : PIFA Antenna
<b>Type of Modulation</b>	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK(Downlink Only) WCDMA : QPSK (Uplink) HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM uplink is not supported 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK

## 1.5. Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	ALCATEL ONETOUCH	Model Name	UC11US
	Power Rating	I/P: 100-240Vac, 200mA, O/P: 5Vdc, 1000mA		
	P/N	CBA0058AG0C2		
AC Adapter 2	Brand Name	ALCATEL ONETOUCH	Model Name	UC11US
	Power Rating	I/P: 100-240Vac, 200mA, O/P: 5Vdc, 1000mA		
	P/N	CBA0058AG0C3		
Battery 1	Brand Name	ALCATEL ONETOUCH	Model Name	TLp025D2
	Power Rating	3.8Vdc, 2580mAh		
	S/N	C2600002C2YHV0FE		
Battery 2	Brand Name	ALCATEL ONETOUCH	Model Name	TLp025DC
	Power Rating	3.8Vdc, 2580mAh		
	S/N	C2600003CCJ0006G		
USB Cable 1	Brand Name	N/A	Model Name	N/A
	Signal Line Type	1.0meter,shielded cable, without ferrite core		
USB Cable 2	Brand Name	N/A	Model Name	N/A
	Signal Line Type	1.0meter,shielded cable, without ferrite core		
Earphone 1	Brand Name	N/A	Model Name	N/A
	Signal Line Type	1.5meter,non-shielded cable, without ferrite core		
Earphone 2	Brand Name	N/A	Model Name	N/A
	Signal Line Type	1.5meter,non-shielded cable, without ferrite core		

## 1.6. Modification of EUT

No modifications are made to the EUT during all test items.

## 1.7. Test Location

<b>Test Site</b>	SPORTON INTERNATIONAL (SHENZHEN) INC.	
<b>Test Site Location</b>	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	CO01-SZ	

<b>Test Site</b>	SPORTON INTERNATIONAL (SHENZHEN) INC.	
<b>Test Site Location</b>	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Registration No.</b>
	03CH01-SZ	831040

## 1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC 47 CFR FCC Part 15 Subpart B
- ♦ ANSI C63.4-2009

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.



## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

Item	EUT Configuration	Test Condition		
		EMI AC	EMI RE<1G	EMI RE≥1G
1.	Charging Mode (EUT with adapter)	☒	☒	Note 1
2.	Data application transferred mode (EUT connected with notebook)	☒	☒	☒

**Abbreviations:**

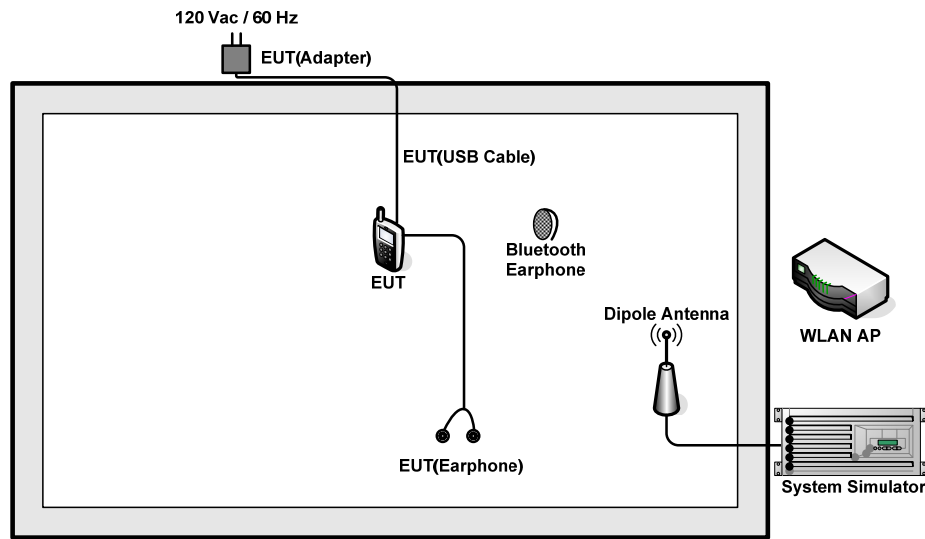
- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

**Note 1:** Testing for this mode is not required or not the worst case.

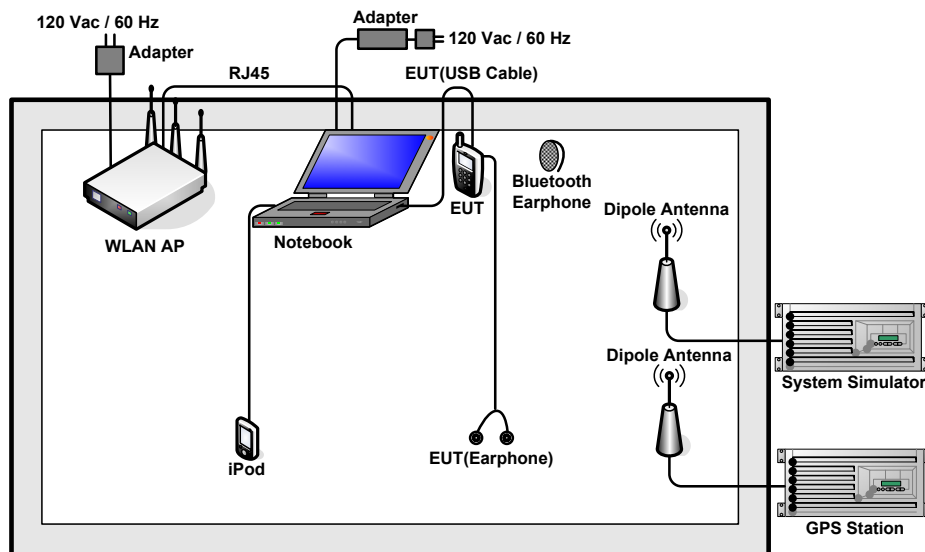
**Remark:** For signal above 1GHz, the worst case was test item 2.

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1/2	<p>Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Camera (Back) + Battery 1 + SIM1&lt;Fig.1&gt;</p> <p>Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 2 + Camera (Front) + Battery 2 + SIM2&lt;Fig.1&gt;</p> <p>Mode 3: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + MPEG4 + Battery 1 + SIM1&lt;Fig.1&gt;</p> <p>Mode 4: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Data Link with Notebook) + Earphone 1 + GPS Rx + Battery 1 + SIM1&lt;Fig.2&gt;</p> <p>Mode 5: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2 (Data Link with Notebook) + Earphone 2 + GPS Rx + Battery 2 + SIM1&lt;Fig.2&gt;</p>
Radiated Emissions < 1GHz	1/2	<p>Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + Camera (Back) + Battery 1 + SIM1&lt;Fig.1&gt;</p> <p>Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2 (Charging from Adapter 2) + Earphone 2 + Camera (Front) + Battery 2 + SIM2&lt;Fig.1&gt;</p> <p>Mode 3: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + MPEG4 + Battery 1 + SIM1&lt;Fig.1&gt;</p> <p>Mode 4: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Data Link with Notebook) + Earphone 1 + GPS Rx + Battery 1 + SIM1&lt;Fig.2&gt;</p> <p>Mode 5: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2 (Data Link with Notebook) + Earphone 2 + GPS Rx + Battery 2 + SIM1&lt;Fig.2&gt;</p>
Radiated Emissions ≥ 1GHz	2	<p>Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Data Link with Notebook) + Earphone 1 + GPS Rx + Battery 1 + SIM1&lt;Fig.2&gt;</p>
<b>Remark:</b> <ol style="list-style-type: none"> <li>The worst case of AC is mode 3; and the USB Link mode of AC is mode 5, only the test data of this mode was reported.</li> <li>The worst case of RE &lt; 1G is mode 4; only the test data of this mode was reported.</li> <li>Data Link with Notebook means data application transferred mode between EUT and Notebook.</li> </ol>		

## 2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

## 2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m with Core
5.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
7.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
8.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A
9.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0 m	N/A
10.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A



## **2.4. EUT Operation Test Setup**

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Data application is transferred between Notebook and EUT via USB cable.
2. Turn on GPS function to make the EUT receive continuous signals from GPS station.
3. Execute "Video Player" to play MPEG4 files.
4. Turn on camera to capture images.

### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1 Limits of AC Conducted Emission

For equipment 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.

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

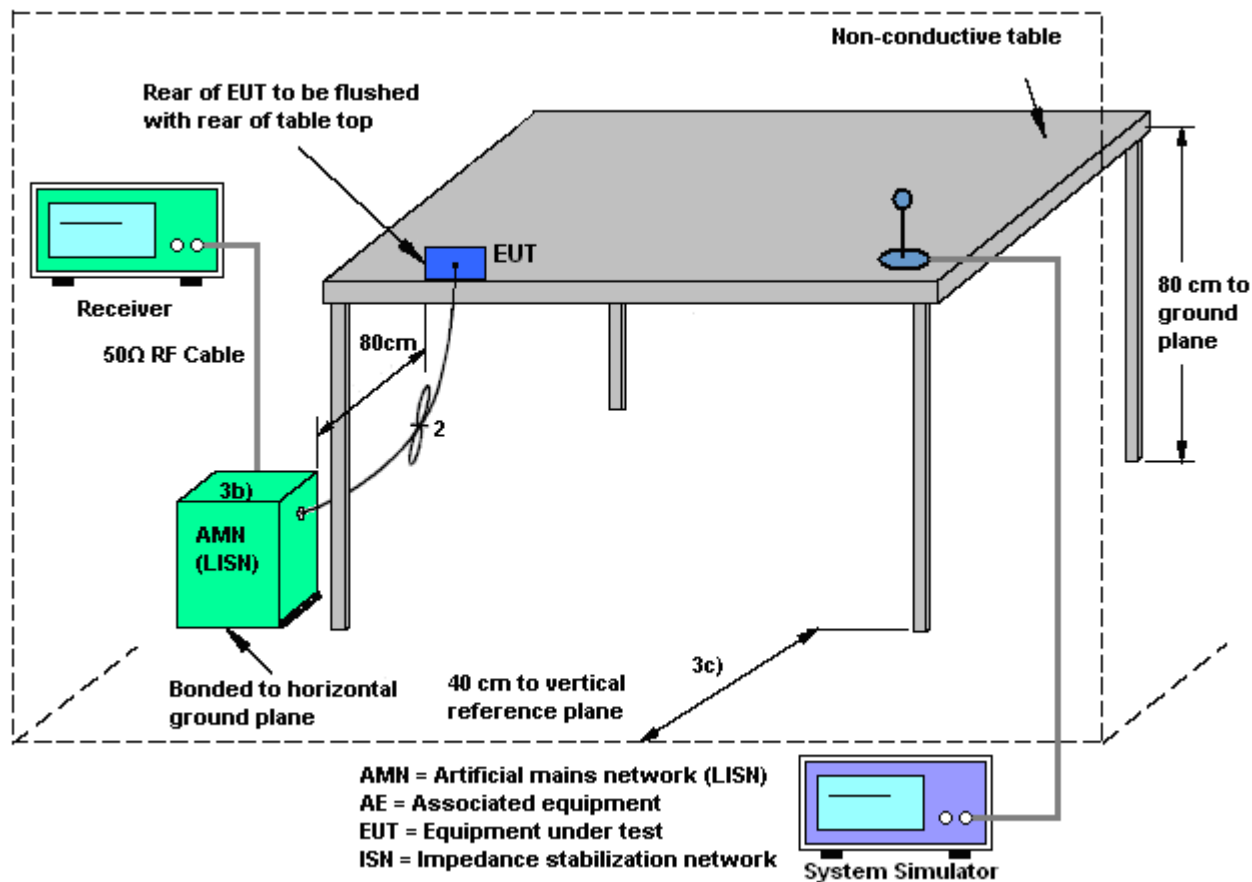
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedure

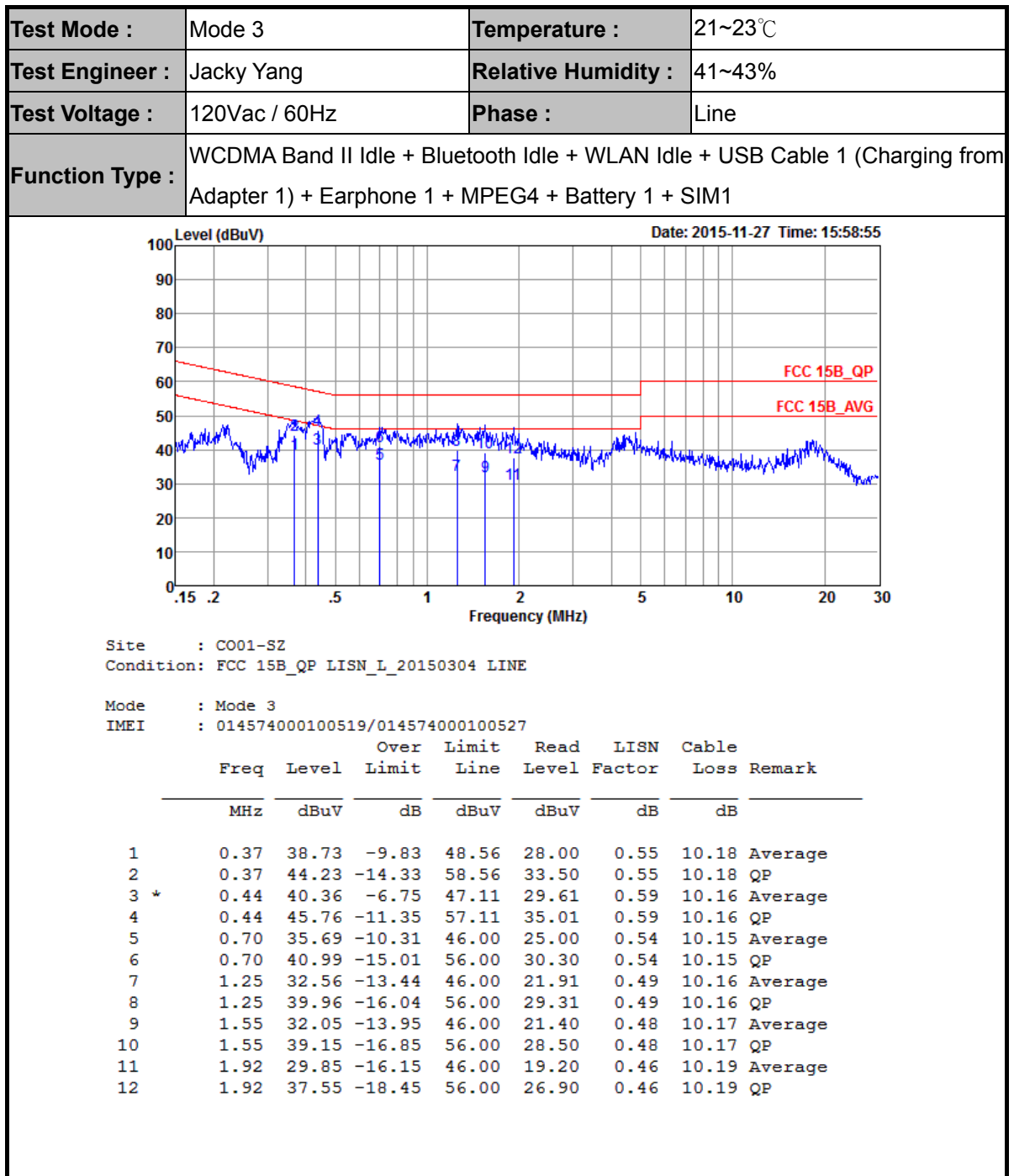
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.1.4 Test Setup





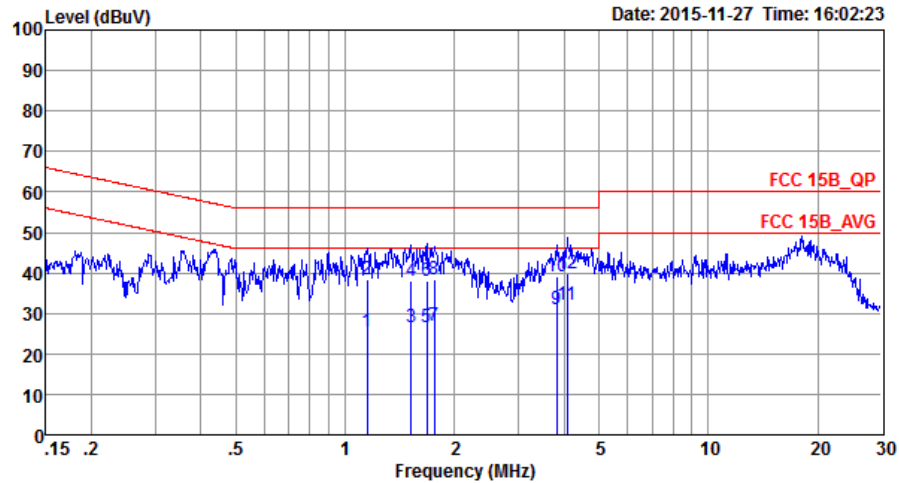
## 3.1.5 Test Result of AC Conducted Emission







Test Mode :	Mode 3	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Charging from Adapter 1) + Earphone 1 + MPEG4 + Battery 1 + SIM1		



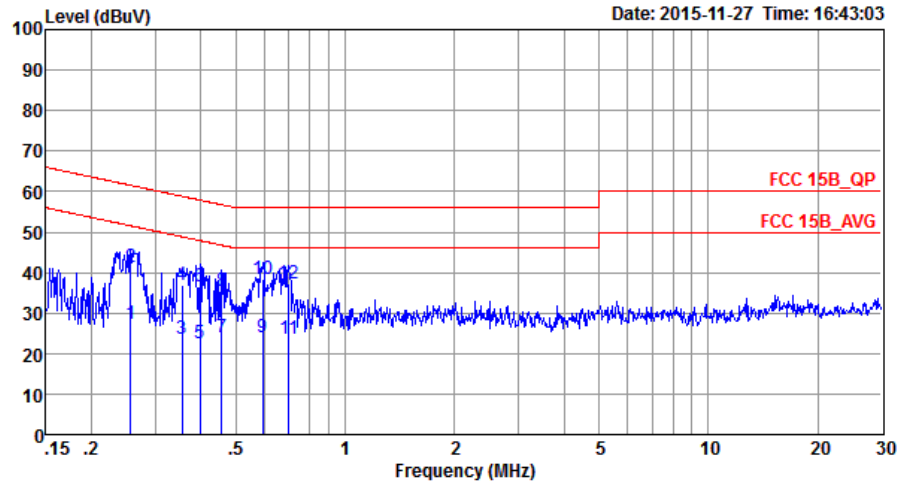
Site : CO01-SZ  
Condition: FCC 15B\_QP LISN\_N\_20150304 NEUTRAL

Mode : Mode 3  
IMEI : 014574000100519/014574000100527

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	1.15	25.32	-20.68	46.00	14.60	0.56	10.16	Average
2	1.15	38.52	-17.48	56.00	27.80	0.56	10.16	QP
3	1.52	26.54	-19.46	46.00	15.80	0.57	10.17	Average
4	1.52	38.14	-17.86	56.00	27.40	0.57	10.17	QP
5	1.68	26.55	-19.45	46.00	15.80	0.57	10.18	Average
6	1.68	38.05	-17.95	56.00	27.30	0.57	10.18	QP
7	1.76	27.05	-18.95	46.00	16.30	0.57	10.18	Average
8	1.76	38.35	-17.65	56.00	27.60	0.57	10.18	QP
9	3.82	30.95	-15.05	46.00	20.10	0.63	10.22	Average
10	3.82	39.25	-16.75	56.00	28.40	0.63	10.22	QP
11 *	4.09	32.06	-13.94	46.00	21.20	0.63	10.23	Average
12	4.09	39.96	-16.04	56.00	29.10	0.63	10.23	QP



Test Mode :	Mode 5	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2 (Data Link with Notebook) + Earphone 2 + GPS Rx + Battery 2 + SIM1		



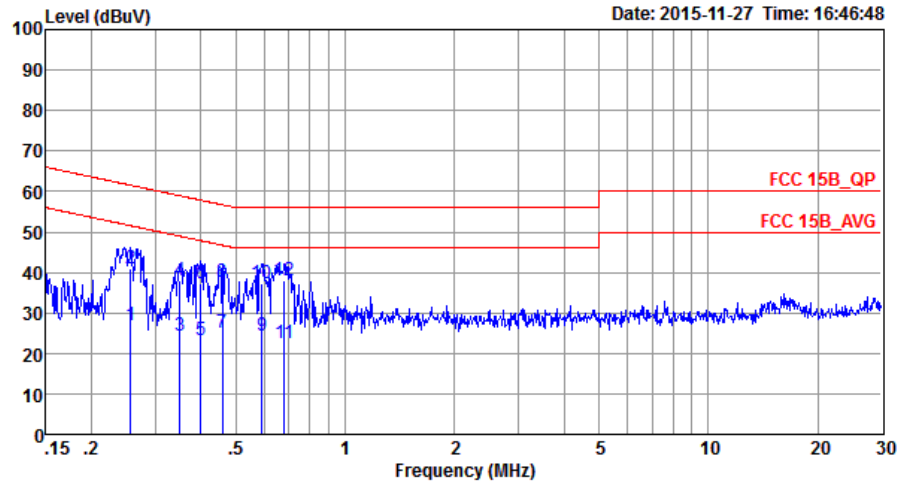
Site : CO01-SZ  
Condition: FCC 15B\_QP LISN\_L\_20150304 LINE

Mode : Mode 5  
IMEI : 014574000100519/014574000100527

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.26	27.19	-24.37	51.56	16.40	0.55	10.24	Average
2	0.26	41.19	-20.37	61.56	30.40	0.55	10.24	QP
3	0.36	23.44	-25.39	48.83	12.71	0.55	10.18	Average
4	0.36	37.04	-21.79	58.83	26.31	0.55	10.18	QP
5	0.40	22.51	-25.39	47.90	11.80	0.54	10.17	Average
6	0.40	36.61	-21.29	57.90	25.90	0.54	10.17	QP
7	0.46	23.98	-22.78	46.76	13.20	0.62	10.16	Average
8	0.46	35.48	-21.28	56.76	24.70	0.62	10.16	QP
9	0.59	23.96	-22.04	46.00	13.20	0.61	10.15	Average
10 *	0.59	38.36	-17.64	56.00	27.60	0.61	10.15	QP
11	0.70	23.59	-22.41	46.00	12.90	0.54	10.15	Average
12	0.70	37.29	-18.71	56.00	26.60	0.54	10.15	QP



Test Mode :	Mode 5	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable 2 (Data Link with Notebook) + Earphone 2 + GPS Rx + Battery 2 + SIM1		



Site : CO01-SZ  
Condition: FCC 15B\_QP LISN\_N\_20150304 NEUTRAL

Mode : Mode 5  
IMEI : 014574000100519/014574000100527

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.26	27.00	-24.56	51.56	16.20	0.56	10.24	Average
2	0.26	41.00	-20.56	61.56	30.20	0.56	10.24	QP
3	0.35	24.25	-24.71	48.96	13.50	0.57	10.18	Average
4	0.35	38.05	-20.91	58.96	27.30	0.57	10.18	QP
5	0.40	23.42	-24.44	47.86	12.70	0.55	10.17	Average
6	0.40	37.12	-20.74	57.86	26.40	0.55	10.17	QP
7	0.46	25.05	-21.66	46.71	14.30	0.59	10.16	Average
8	0.46	37.55	-19.16	56.71	26.80	0.59	10.16	QP
9	0.59	24.43	-21.57	46.00	13.70	0.58	10.15	Average
10	0.59	37.33	-18.67	56.00	26.60	0.58	10.15	QP
11	0.68	22.61	-23.39	46.00	11.90	0.56	10.15	Average
12 *	0.68	38.11	-17.89	56.00	27.40	0.56	10.15	QP

## 3.2. Test of Radiated Emission Measurement

### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

### 3.2.2. Measuring Instruments

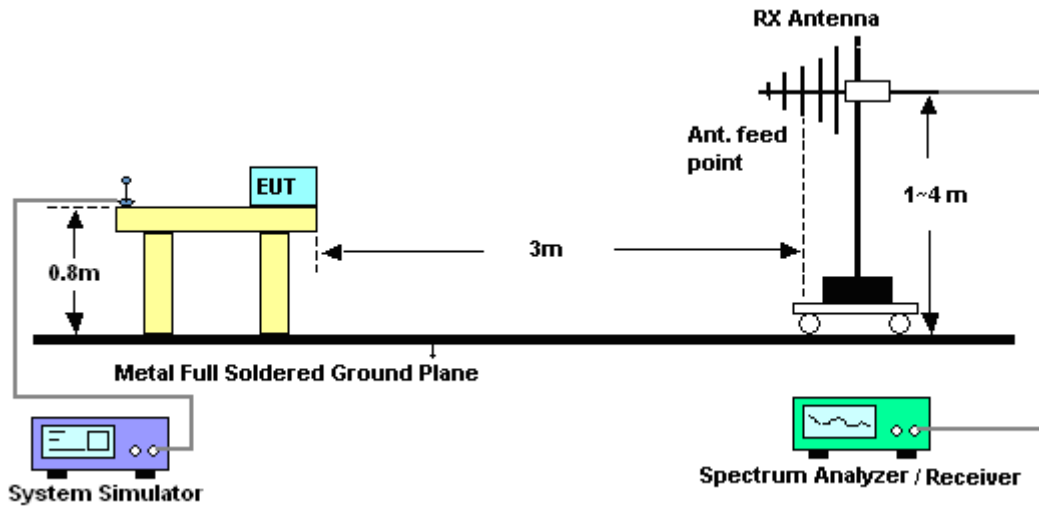
The measuring equipment is listed in the section 4 of this test report.

### 3.2.3. Test Procedures

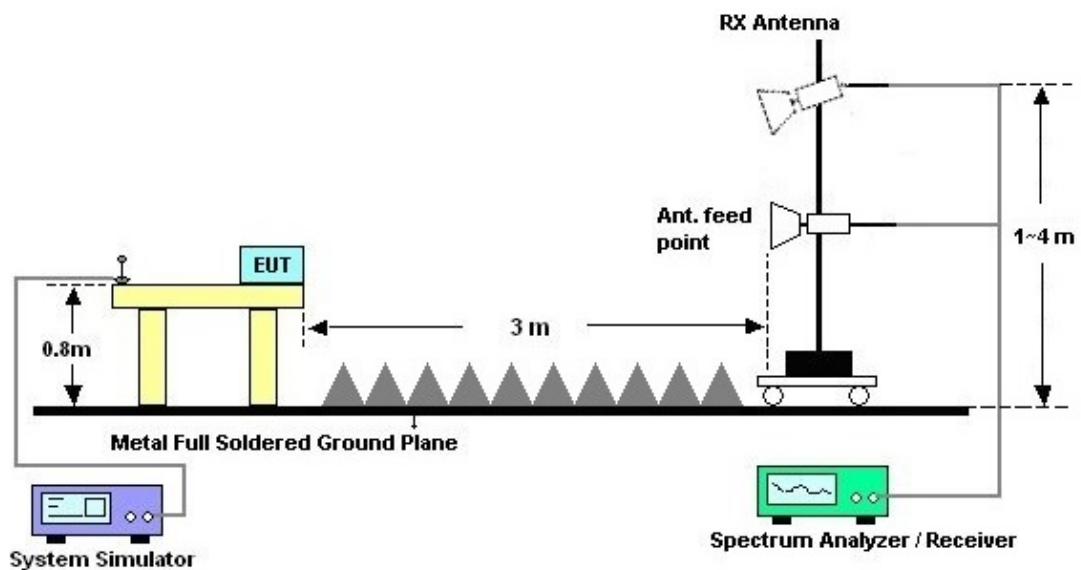
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



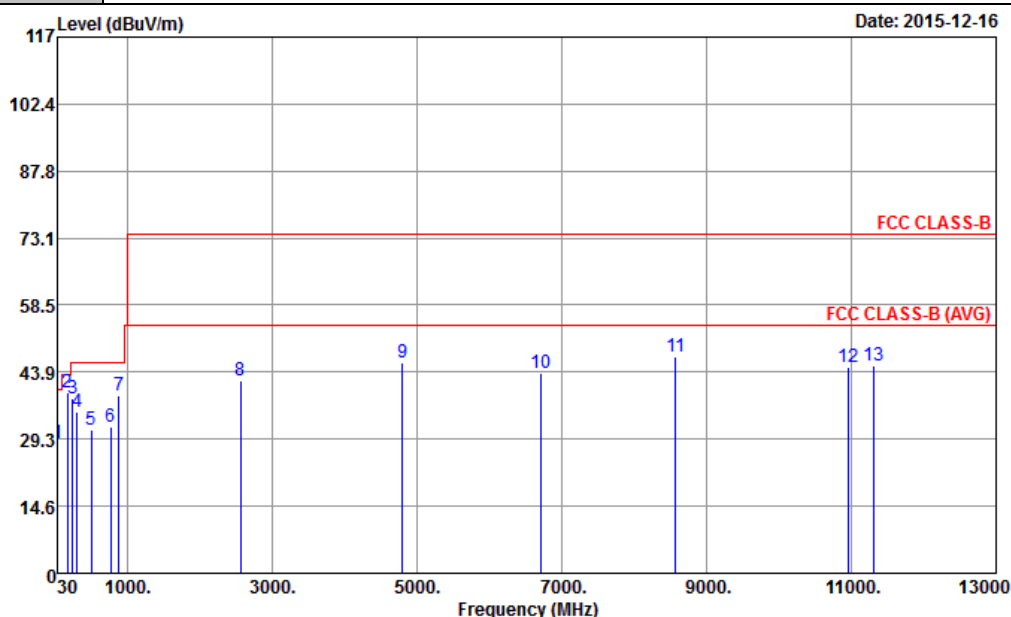
For radiated emissions above 1GHz





## 3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 4	Temperature :	23~25°C
Test Engineer :	Jeff Yao	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Data Link with Notebook) + Earphone 1 + GPS Rx + Battery 1 + SIM1		
Remark :	#7 is system simulator signal which can be ignored.		



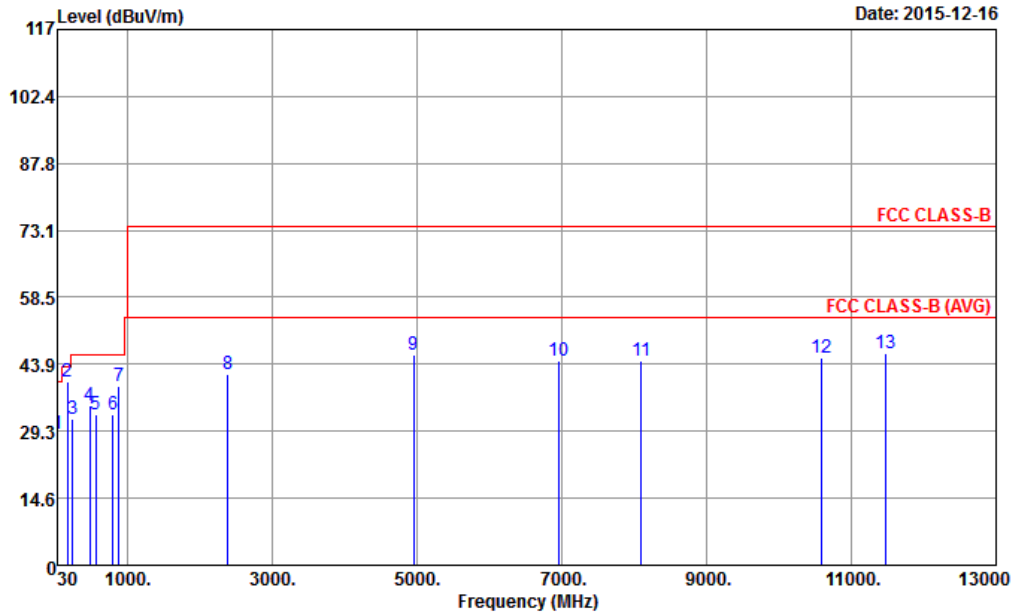
Site : 03CH01-SZ  
Condition : FCC CLASS-B 3m LF\_ANT(23188)\_151017 HORIZONTAL

Mode : Mode 4  
IMEI : 014574000100519/014574000100527

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	30.00	28.21	-11.79	40.00	27.98	25.60	0.70	26.07	---	---
2	165.27	39.54	-3.96	43.50	51.57	12.03	1.38	25.44	---	---
3	239.52	38.08	-7.92	46.00	49.45	12.23	1.57	25.17	100	235 QP
4	300.00	35.30	-10.70	46.00	44.53	14.10	1.71	25.04	---	---
5	498.10	31.17	-14.83	46.00	36.01	19.32	2.17	26.33	---	---
6	765.50	31.93	-14.07	46.00	33.62	21.73	2.82	26.24	---	---
7	881.70	38.74			39.91	21.77	2.99	25.93	---	---
8	2562.00	41.99	-32.01	74.00	62.78	32.75	5.28	58.82	---	---
9	4798.00	46.02	-27.98	74.00	62.67	34.38	7.43	58.46	---	---
10	6718.00	43.64	-30.36	74.00	56.31	36.22	8.98	57.87	---	---
11	8576.00	47.22	-26.78	74.00	57.39	36.30	11.03	57.50	100	0 Peak
12	10954.00	44.98	-29.02	74.00	53.18	38.78	12.54	59.52	---	---
13	11304.00	45.21	-28.79	74.00	53.26	39.04	12.59	59.68	---	---



Test Mode :	Mode 4	Temperature :	23~25°C
Test Engineer :	Jeff Yao	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable 1 (Data Link with Notebook) + Earphone 1 + GPS Rx + Battery 1 + SIM1		
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH01-SZ  
Condition : FCC CLASS-B 3m LF\_ANT(23188)\_151017 VERTICAL

Mode : Mode 4  
IMEI : 014574000100519/014574000100527

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.81	28.66	-11.34	40.00	28.93	25.09	0.70	26.06	---	---	Peak
2	165.54	39.99	-3.51	43.50	52.04	12.00	1.38	25.43	100	0	Peak
3	238.98	31.99	-14.01	46.00	43.37	12.22	1.57	25.17	---	---	Peak
4	479.90	34.93	-11.07	46.00	40.44	18.59	2.13	26.23	---	---	Peak
5	561.80	32.97	-13.03	46.00	37.39	19.58	2.40	26.40	---	---	Peak
6	796.30	32.77	-13.23	46.00	33.66	22.41	2.88	26.18	---	---	Peak
7	881.70	39.18			40.35	21.77	2.99	25.93	---	---	Peak
8	2388.00	41.62	-32.38	74.00	62.55	32.60	5.10	58.63	---	---	Peak
9	4956.00	45.80	-28.20	74.00	62.08	34.48	7.54	58.30	---	---	Peak
10	6956.00	44.52	-29.48	74.00	56.65	36.12	9.24	57.49	---	---	Peak
11	8102.00	44.77	-29.23	74.00	55.01	36.44	11.08	57.76	---	---	Peak
12	10586.00	45.46	-28.54	74.00	53.71	38.55	12.33	59.13	---	---	Peak
13	11470.00	46.26	-27.74	74.00	54.25	39.17	12.59	59.75	100	0	Peak



## 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Dec. 16, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz;Max 30dBm	Jun. 07, 2015	Dec. 16, 2015	Jun. 06, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Oct. 17, 2015	Dec. 16, 2015	Oct. 16, 2016	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 17, 2015	Dec. 16, 2015	Oct. 16, 2016	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Dec. 16, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 28, 2015	Dec. 16, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Dec. 16, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 16, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 16, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Nov. 27, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Nov. 27, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Nov. 27, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Aug. 07, 2015	Nov. 27, 2015	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	Nov. 27, 2015	Oct. 19, 2016	Conduction (CO01-SZ)





## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	2.3dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	4.8dB
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## **Appendix B. Product Equality Declaration**

## TCL Communication Ltd.

5F, C-Tower, No. 232, Liang Jing Road,  
ZhangJiang High-Tech Park, Pudong Area,  
Shanghai, 201203, P.R.China  
TEL: +86(0)21 61460666  
FAX: +86(0)21 61460602

### Declaration of changes from 8050E (initial) to 8050G (variant)

#### ● SOFTWARE MODIFICATIONS:

- Protocol Stack changes: No
- MMS/STK/USAT/USIM changes: No
- DM/SUPL/VT/FUMO/SWP/HCI: No
- Other changes detailed: NO

#### ● HARDWARE MODIFICATIONS:

- Band changes: NO
- PCB Layout changes: No
- Main components changes:

	Antenna	AP	Modem	Transceiver	Power Amplifier	Balun	Band pass filter	Duplexer
GSM	NO	NO	NO	NO	NO	NO	Not support	Not support
WCDMA	NO	NO	NO	NO	NO	Not support	Not support	NO

	Antenna	AP	Modem	Transceiver	Power Amplifier	Balun	Band pass filter	Duplexer
Bluetooth	NO	NO	NO	NO	Not support	Not support	Not support	Not support
Wi-Fi	NO	NO	NO	NO	Not support	Not support	Not support	Not support

	Antenna	AP	Modem	Transceiver	LNA	Rx SAW Filter	Duplexer
GPS	NO	NO	NO	NO	NO	NO	Not support

- FM changes: No
- Other components changes:  
LCD/ Speaker/ Camera changes: No
- Other changes detailed:  
[Cancel a sim card ; It can reduce power in GSM1900 hotspot condition](#)

#### ● MECHANICAL MODIFICATIONS:

- Use new metal front/back cover or keypad: No
- Mechanical shell changes: No ; Whole size of EUT: no
- Other changes detailed: [print information on back cover changed.](#)

#### APPROVED BY:

Project Manager:

Signature:

Date: 2015-1-08

