



# **FCC 47 CFR PART 27 SUBPART E AND RSS-139 TEST REPORT**

*For*

**Applicant :** Social Mobile Telecommunications

**Address :** 801 NE 167th St. Suite#314, North Miami Beach.  
FL 33162, USA

**Product Name :** Mobile Phone

**Model Name :** Drive

**Brand Name :** Social

**FCC ID :** Z6RSMDRIVE

**IC Certification number:** : 11423A-DRIVE

**Report No. :** DPH131004F01

**Date of Issue :** November 07, 2013

**Issued by :** Super Test Service Technology Co., Ltd.

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## TABLE OF CONTENTS

<b>1</b>	<b>VERIFICATION OF CONFORMITY .....</b>	<b>4</b>
<b>2</b>	<b>GENERAL INFORMATION.....</b>	<b>5</b>
2.1	PRODUCT INFORMATION.....	5
2.2	OBJECTIVE .....	6
2.3	TEST STANDARDS AND RESULTS.....	6
2.4	ENVIRONMENTAL CONDITIONS .....	6
<b>3</b>	<b>TEST FACILITY .....</b>	<b>7</b>
<b>4</b>	<b>TEST EQUIPMENT LIST .....</b>	<b>8</b>
<b>5</b>	<b>TEST REQUIREMENTS .....</b>	<b>9</b>
5.1	GENERAL INFORMATION .....	9
<b>6</b>	<b>CONDUCTED RF OUTPUT POWER .....</b>	<b>12</b>
6.1	REQUIREMENT .....	12
6.2	TEST PROCEDURE .....	12
6.3	TEST RESULT .....	12
<b>7</b>	<b>OCCUPIED BANDWIDTH .....</b>	<b>13</b>
7.1	OCCUPIED BANDWIDTH DEFINITION .....	13
7.2	TEST PROCEDURE .....	13
7.3	TEST RESULT .....	13
<b>8</b>	<b>CONDUCTED SPURIOUS EMISSION .....</b>	<b>13</b>
8.1	REQUIREMENT .....	15
8.2	TEST PROCEDURE .....	15
8.3	TEST RESULT .....	16
<b>9</b>	<b>TRANSMITTER RADIATED POWER (EIRP/ERP).....</b>	<b>21</b>
9.1	REQUIREMENT .....	21
9.2	TEST PROCEDURE .....	21

9.3 TEST RESULT .....	21
<b>10 RADIATED SPURIOUS EMISSION.....</b>	<b>22</b>
10.1 REQUIREMENT .....	22
10.2 TEST PROCEDURE .....	22
10.3 TEST RESULT .....	22
<b>11 FREQUENCY STABILITY .....</b>	<b>23</b>
11.1 FREQUENCY STABILITY REQUIREMENT.....	23
11.2 TEST PROCEDURE .....	23
11.3 TEST RESULT .....	24
<b>APPENDIX 1 .....</b>	<b>25</b>
<b>PHOTOGRAPHS OF TEST SETUP .....</b>	<b>25</b>
<b>APPENDIX 2.....</b>	<b>27</b>
<b>PHOTOGRAPHS OF EUT .....</b>	<b>27</b>

Revision History		
Issue	Date	Reason for Revision
1.0	November 07, 2013	First edition

## 1 VERIFICATION OF CONFORMITY

<b>Equipment Under Test:</b>	Mobile Phone
<b>Brand Name:</b>	Social
<b>Model Number:</b>	Drive
<b>Series Model Name:</b>	N/A
<b>Difference description:</b>	N/A
<b>FCC ID:</b>	Z6RSMDRIVE
<b>IC Certification number:</b>	11423A-DRIVE
<b>Applicant:</b>	Social Mobile Telecommunications
	801 NE 167th St. Suite#314, North Miami Beach. FL 33162, USA
<b>Manufacturer:</b>	SHENZHEN SAGAMOBILE CO.,LTD
	RM.7A Benyuan Building, No.6015,Shennan Rd., Futian district, Shenzhen, China
<b>Technical Standards:</b>	47 CFR Part 2 47 CFR Part 27 Subpart L RSS-139 Issue 2
<b>File Number:</b>	DPH130304F06
<b>Date of test:</b>	October 20 ~ November 02, 2012
<b>Deviation:</b>	November 07, 2012
<b>Condition of Test Sample:</b>	Normal
<b>Test Result:</b>	PASS

The above equipment was tested by Top-cert for compliance with the requirement set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

*Rex Luo*

Rex Luo

Test Engineer



Approved by (+ signature):

*Joe Jia*

Joe Jia

Manager

## 2 GENERAL INFORMATION

### 2.1 PRODUCT INFORMATION

EUT1- Mobile Phone	
Description:	Mobile Phone
Brand Name:	Social
Model Name:	Drive
Hardware Version:	MOLY.WR8.W1315.MD.WG.MP.V1
Software Version:	ALPS.JB3.MP.V1
Frequency:	Tx:1710MHz -1755MHz; Rx:2110MHz -2155MHz
Ancillary Equipment – Power Supply	
Description:	Travel Charger
Model Name:	TPA-655100VU
Brand Name:	Social
Rated Input:	AC 100-240V, 50/60Hz, 0.2A
Rated Output:	DC 5V,1A
Length USB cable:	1.0m
Ancillary Equipment – Battery	
Description:	Lithium-ion Battery
Brand Name:	Social
Capacitance:	1350 mAh
Rated Voltage:	3.7V
Charge Limit:	4.2V

**NOTE:**

1. The normal, high and low voltage supply for the Battery of the EUT is separately 3.7V, 4.2V and 3.6V, which are specified by the applicant.
2. Please refer to Appendix 2 for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual

## 2.2 OBJECTIVE

The objective of the report is to perform tests according to 47 CFR Part 2, Part 24 for FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-05 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 27 (10-1-09 Edition)	Personal Communications Services
3	RSS-139 Issue 2, February 2009	Miscellaneous Wireless Communications Services

## 2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

No.	Rules	IC Reference	Test Type	Result	Date of Test
1	§2.1046	N/A	Conducted RF Output Power at Antenna Terminal	PASS	2013-10-30
2	§2.1049 §27.53	RSS-139 4.2	Occupied Bandwidth	PASS	2013-10-30
3	§2.1051 §27.53	RSS-139 4.5	Conducted Spurious Emission at Antenna Terminal	PASS	2013-10-30
4	§2.1051 §27.53	RSS-139 4.2	Band Edge	PASS	2013-10-30
5	§24.232 §27.50	RSS-139 4.4	Transmitter Radiated Power (EIPR/ERP)	PASS	2013-10-30
6	§2.1053 §27.53	RSS-139 4.5	Radiated Spurious Emission	PASS	2013-10-30
7	§2.1055 §27.54	RSS-139 4.3	Frequency Stability	PASS	2013-10-30

Note: 1. The test result judgment is decided by the limit of measurement standard  
2. The information of measurement uncertainty is available upon the customer's request.

## 2.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

### 3 TEST FACILITY

Test Site:	NTEK Testing Technology Co., Ltd.
Location:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China
Description:	<p>There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16 requirements.</p> <p>The <b>FCC</b> Registration Number is <b>238937</b>.</p> <p>The <b>IC</b> Registration Number is <b>9270A-1</b></p> <p>The <b>CNAS</b> Registration Number is <b>CNAS L5516</b>.</p>

#### 4 TEST EQUIPMENT LIST

**Instrumentation:** The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2013/4/22	2014/4/21
2	Test Receiver	Rohde & Schwarz	ESPI	101202	2013/4/22	2014/4/21
3	Bi-Log Antenna	Sunol	JB3	A121206	2013/3/15	2014/3/14
4	Test Antenna – Bi-Log	Schwarzbeck	VULB 9163	---	2013/3/15	2014/3/14
5	Horn Antenna	ETS	3115	---	2013/3/15	2014/3/14
6	Test Antenna - Horn	Schwarzbeck	BBHA 9120C	--	2013/3/15	2014/3/14
7	Cable	Resenberger	N/A	NO.1	N/A	N/A
8	Cable	SchwarzBeck	N/A	NO.2	N/A	N/A
9	Cable	SchwarzBeck	N/A	NO.3	N/A	N/A
10	Power Splitter	Weinschel	1506A	NW521	N/A	N/A
11	Spectrum Analyzer	Agilent	4408B	MY41440460	2013/4/22	2014/4/21
12	Coaxial Switch	Anritsu Corp	MP59B	6200283933	N/A	N/A
13	Signal Generator	IFR	2032	203002/100	2013/4/22	2014/4/21
14	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2013/4/22	2014/4/21
15	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2013/3/15	2014/3/14
16	Temperature Chamber	Guangzhou Gongwen	GDS-250	N/A	N/A	N/A
17	DC Power Supply	Good Will	GPS-3030DD	EF920938	2013/4/22	2014/4/21
18	Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2013/4/16	2014/4/15

**NOTE:** Equipments listed above have been calibrated and are in the period of validation.

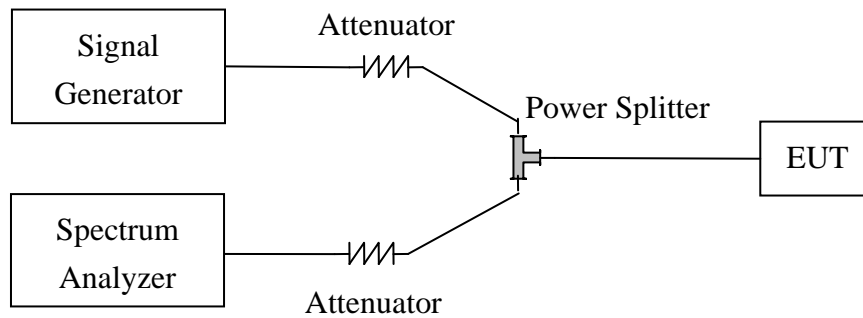


## 5 TEST REQUIREMENTS

### 5.1 GENERAL INFORMATION

#### 5.1.1 Conducted Related Tests

Based on ANSI/TIA-603-C-2004

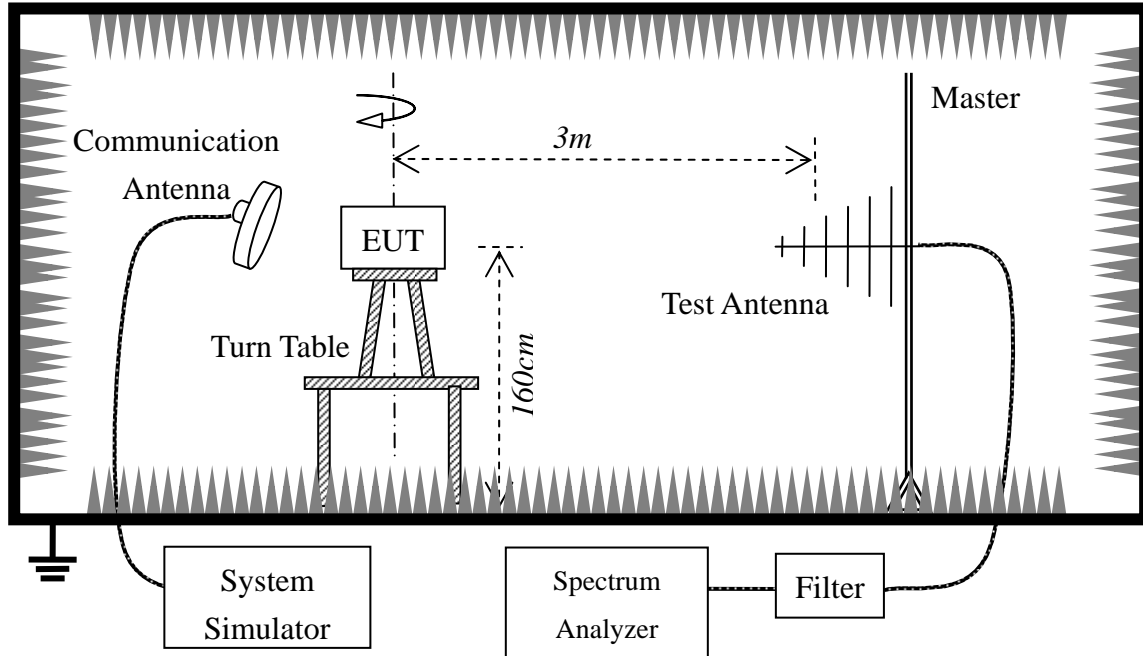


1. The EUT is coupled to the Spectrum Analyzer and the System Simulator with the suitable Attenuators through the Power Splitter; the path loss is calibrated to correct the reading.
  2. The EUT is configured here as MS + Battery.
  3. Set the spectrum analyzer to measure peak hold with the required settings.
  4. Set the signal generator to a known output power and record the path loss in dB (LOSS) for frequencies up to the tenth harmonic of the EUT's carrier frequency.  $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$ .
  5. Replace the signal generator with the EUT.
  6. Adjust the settings of the Digital Radio communication Tester (DRT) to set the EUT to its maximum power at the required channel.
  7. Set the spectrum analyzer to measure peak hold with the required settings. Offset the spectrum analyzer reference level by the path loss measured above.
  8. Measure and record all spurious emissions up to the tenth harmonic of the carrier frequency.
  9. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
  10. If necessary steps 7 and 8 may be performed with the spectrum analyzer set to average detector.
- Note: Step 4 above is performed prior to testing and LOSS is recorded by test software. Steps 3, 7, and 8 above are performed with test software.

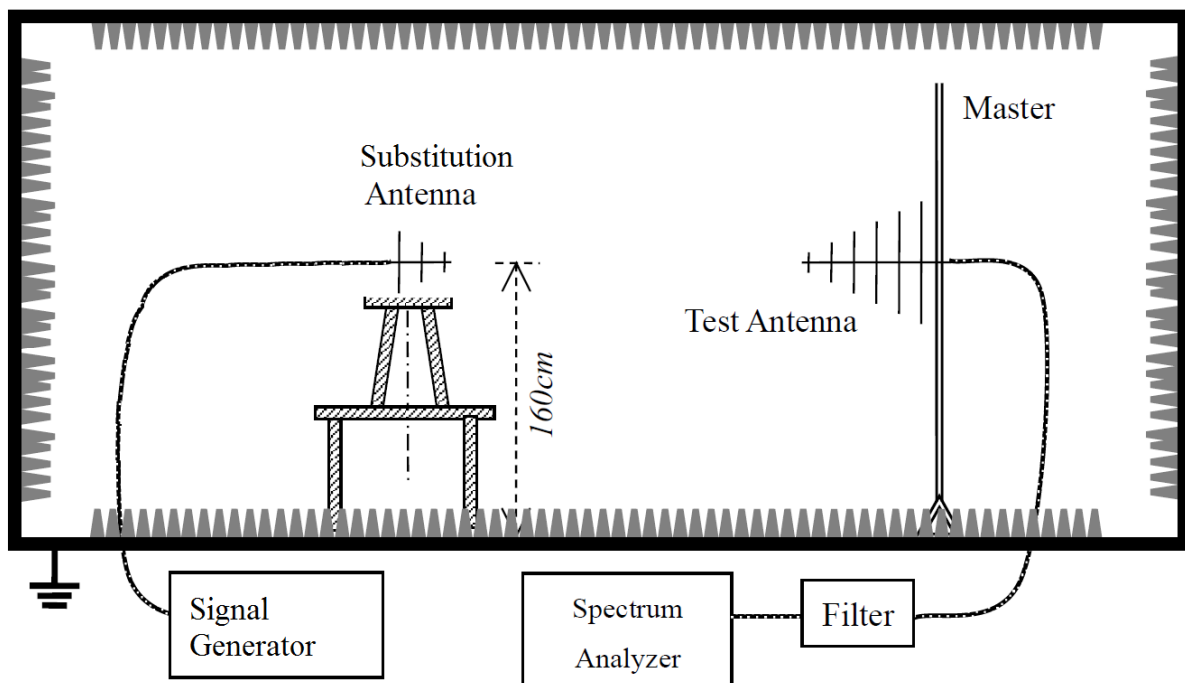
### 5.1.2 Radiated Power and Spurious Emission Tests

Based on ANSI/TIA-603-C-2004

Setup 1:



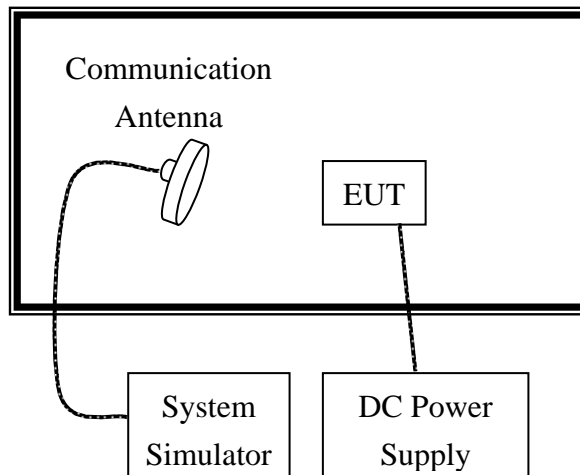
Setup 2:



1. The test is performed in a full-Anechoic Chamber, the air loss of the site and the factors of the test system are using the substitution method.
2. Connect the equipment as shown in setup 1.
3. Adjust the setting of System Simulator to set the EUT to its maximum power at the require channel.

4. Set the Spectrum Analyzer to the channel frequency, set the analyzer to measure peak hold with the required setting.
5. Rotate the EUT 360 degree, recorded the peak level in dBm(LVL).
6. The EUT is substituted by a half wave dipole or known gain antenna. The center of the antenna should be at the same location as the center of the EUT's antenna.
7. Connect the antenna to a signal generator and adjust the output power level of the signal generator (SGP) to get same received power recorded in step 5 on the Spectrum Analyzer.
8. Determine the ERP using the following equation:  
$$\text{ERP(dBm)} = \text{SGP(dBm)} + \text{Gain(dB)} - \text{Cable Loss(dB)}$$
9. Determine the EIRP using the following equation:  
$$\text{EIRP(dBm)} = \text{ERP(dBm)} + 2.14(\text{dB})$$
10. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.

#### 5.1.3 Frequency Stability Test



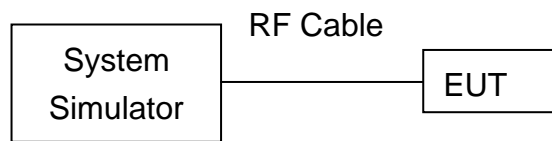
1. The test is performed in a Temperature Chamber.
2. The EUT is configured as MS + DC Power Supply.

## 6 CONDUCTED RF OUTPUT POWER

### 6.1 REQUIREMENT

According to FCC §2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in §2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

### 6.2 TEST PROCEDURE



1. The EUT was connected with System Simulator and a communication link was established between the EUT and a System Simulator Perform. The EUT operated at maximum output power.
2. Set and send continuously up power control commands to the EUT and start transmitting data.
3. The low, middle and the high channels are selected to perform tests respectively. Set the Channel to low channel as the low channel.
4. Measured and recorded the output power of the EUT.
5. Set the Channel to the middle channel, then repeat step 4.
6. Set the Channel to the high channel, then repeat step 4.

### 6.1 TEST RESULT

3GPP Release Version	Item	band	WCDMA 1900		
		ARFCN	1312	1413	1513
		subtest	dBm		
99	5.2(WCDMA)	non	22.64	22.72	22.69
6	HSDPA	1	22.63	22.72	22.66
		2	22.64	22.66	22.65
		3	22.21	22.23	22.19
		4	22.22	22.25	22.19
6	HSUPA	1	22.62	22.67	22.64
		2	20.77	20.82	20.62
		3	21.72	21.74	21.71
		4	20.63	20.72	20.72
		5	22.61	22.68	22.57

## 7 OCCUPIED BANDWIDTH

### 7.1 OCCUPIED BANDWIDTH DEFINITION

According to FCC §2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth, or 20dB bandwidth ( $10 \cdot \log 1\%$  is equal to 20dB) taking the total RF output power as reference.

### 7.2 TEST PROCEDURE

1. Perform test system setup as section 5.1.1
2. The resolution bandwidth of the Spectrum Analyzer is set to at least one percent of the emission bandwidth, e.g. for GSM modulated signal (here used):  $RBW=VBW=3$  kHz, for CDMA modulated signal:  $RBW=VBW=30$  kHz.
3. The low, middle and the high channels are selected to perform tests respectively. Set the Channel to the mid channel.
4. Measurement and record the 99% occupied bandwidth.

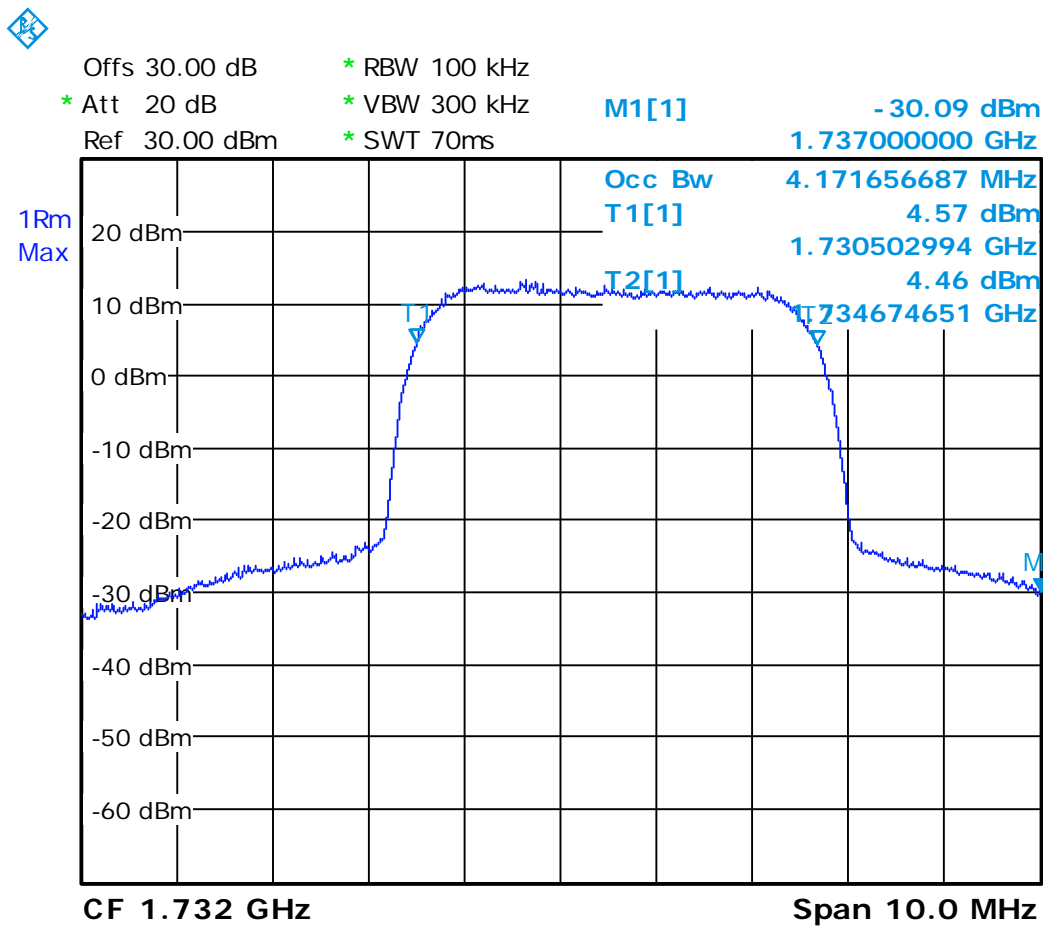
### 7.3 TEST RESULT

#### A. Test Verdict:

Test Mode	Channel	Frequency (MHz)	Measured Occupied Bandwidth (kHz)
WCDMA 1700	1312	1732.00	4.1716

## B. Test Plots:

- Plot when the Channel set to 1638:



Date: 24.OCT.2013 19:32:08

## **8 CONDUCTED SPURIOUS EMISSION**

### **8.1 REQUIREMENT**

According to FCC section 2.1051 and IC RSS-GEN section 4.7, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10\log(P)$ dB. This calculated to be -13dBm.

### **8.2 TEST PROCEDURE**

1. Perform test system setup as section 5.1.1.
2. Make a limit line whose value is -13dBm on the Spectrum Analyzer.
3. The lowest, middle and the highest channels are selected to perform tests respectively. Set the TCH number to the lowest channel.
4. Set the RBW of the Spectrum Analyzer to 1MHz, and the measuring frequency range from 9kHz to 10th harmonic of the fundamental frequency (here used 26.5GHz); mark the fundamental frequency and the harmonics thereof; finally record the harmonics and the plot. Note, the measuring frequency range can be divided into several parts to perform tests.
5. In the 1MHz bands immediately outside and adjacent to the frequency block, the RBW of the Spectrum Analyzer was set to at least one percent of the emission bandwidth of the fundamental emission of the transmitter, e.g. for GSM modulated signal (here used): RBW=3kHz, for CDMA modulated signal: RBW=30kHz.
6. Set the TCH number to the middle channel, then repeat step 4.
7. Set the TCH number to the highest channel, then repeat step 4 and 5.

### 8.3 TEST RESULT

#### Table for the Harmonics and Plots for the Spurious Emission

1. Table for the Harmonics:

NOTE: "---" in the table following means that the emission power was too small to be measured and was at least 12dB below the limit.

No.	Frequency (MHz)	Emission Power (dBm)	Limit (dBm)
WCDMA 1700MHz-Channel set to 1312 (1712.4MHz)			
1	3424.80	---	-13
2	5137.20	---	-13
3	6849.60	---	-13
4	8562.00	---	-13
5	10274.40	---	-13
6	11986.80	---	-13
7	13699.20	---	-13
8	15411.60	---	-13
9	17124.00	---	-13
WCDMA 1700MHz-Channel set to 1413 (1732.60MHz)			
1	3465.20	---	-13
2	5197.80	---	-13
3	6930.40	---	-13
4	8663.00	---	-13
5	10395.60	---	-13
6	12128.20	---	-13
7	13860.80	---	-13
8	15593.40	---	-13
9	17326.00	---	-13
WCDMA 1700MHz-Channel set to 1513 (1752.60MHz)			
1	3505.20	---	-13
2	5257.80	---	-13
3	7010.40	---	-13
4	8763.00	---	-13
5	10515.60	---	-13
6	12268.20	---	-13
7	14020.80	---	-13
8	15773.40	---	-13
9	17526.00	---	-13

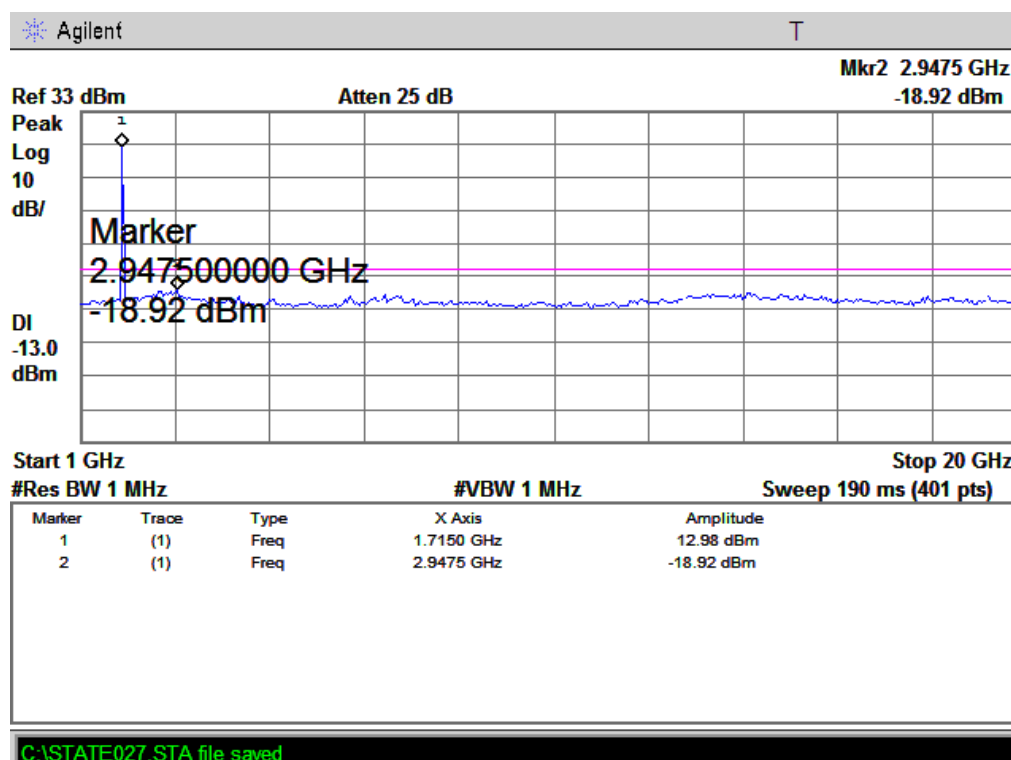
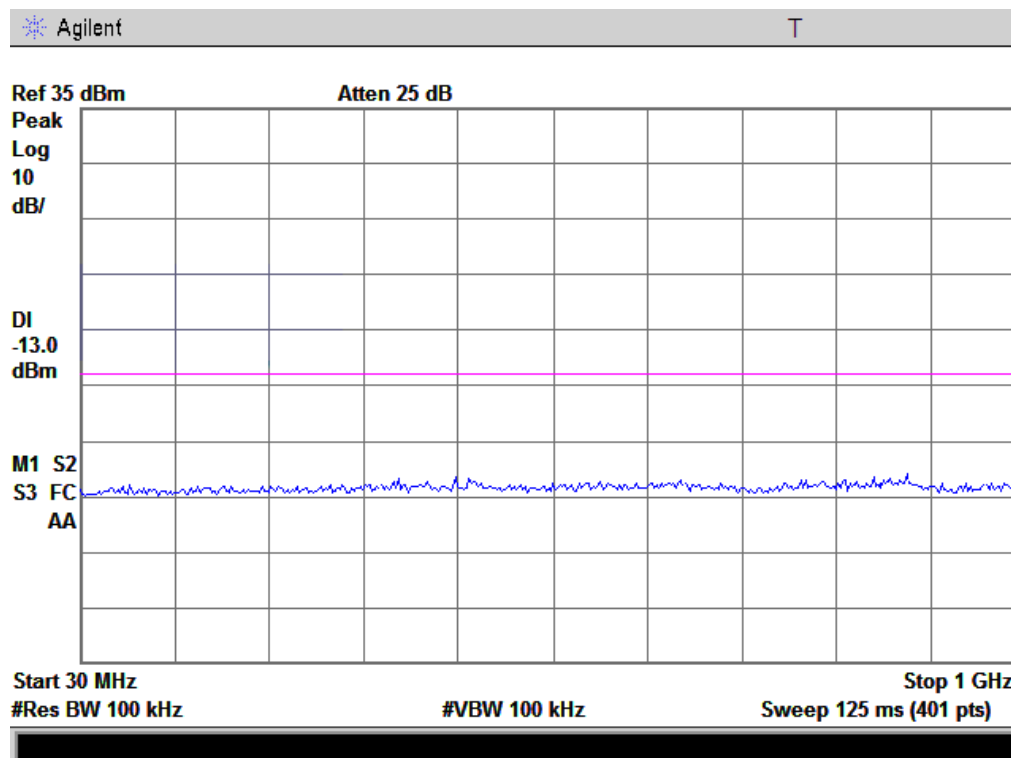
2. Plot for Spurious Emission:

The measuring frequency range was from 9 kHz to 20GHz.

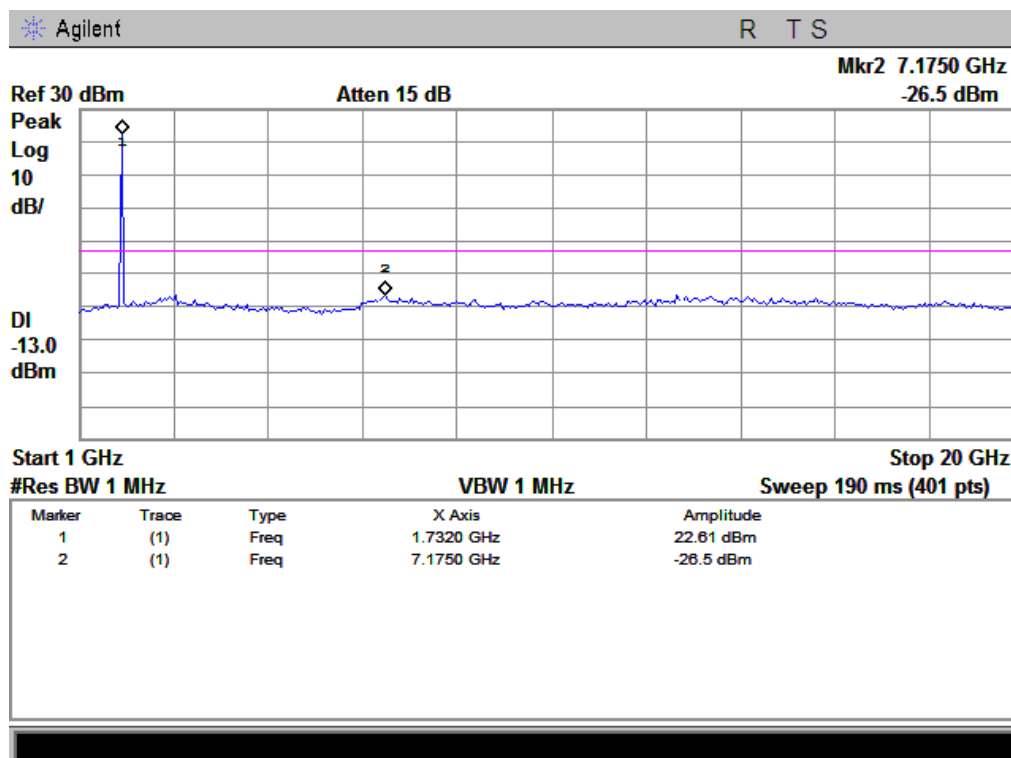
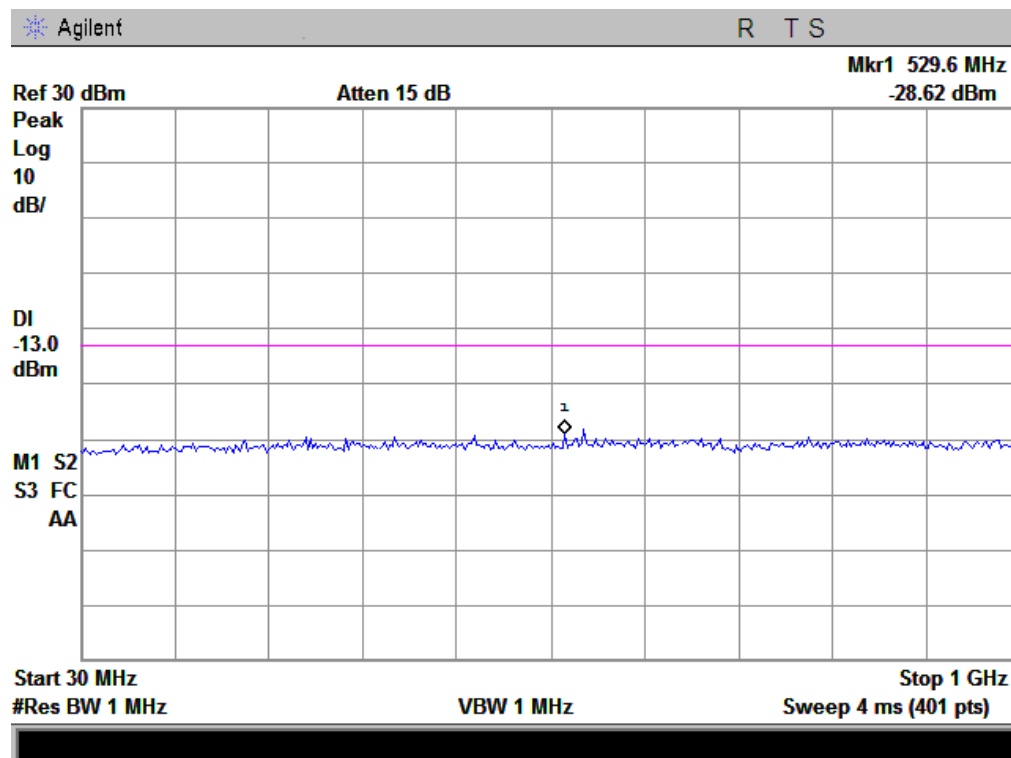
NOTE: The marker points are the Mobile Phone and/or System Simulator transmitting frequencies which should be ignored.



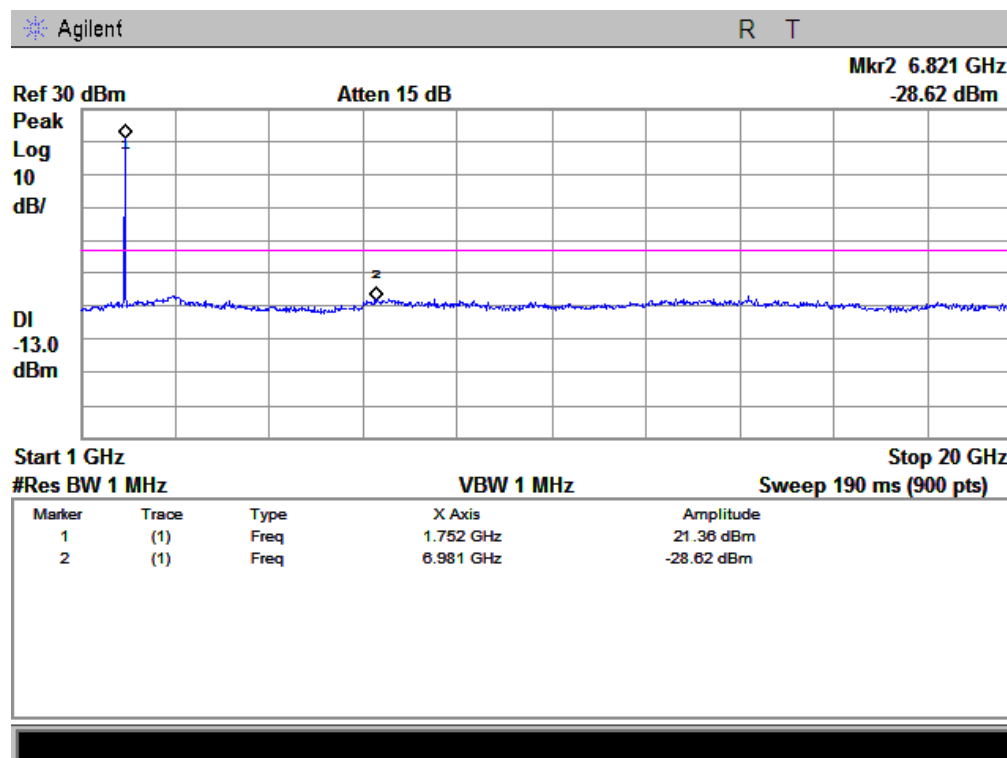
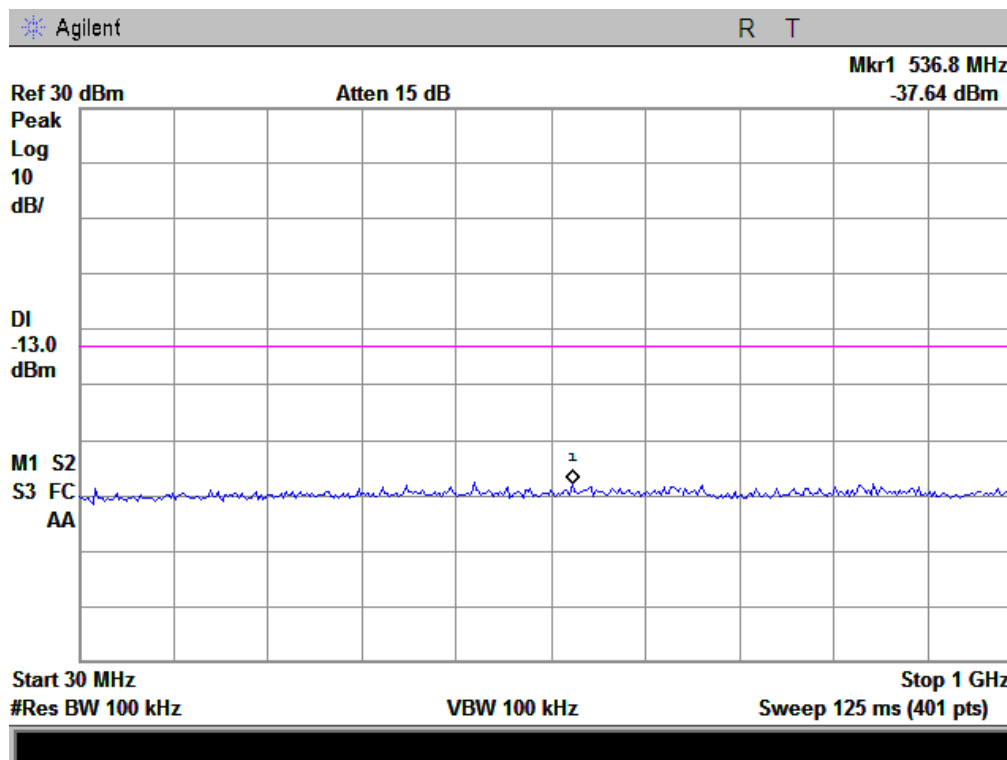
1. Plot when the TCH number set to 1312:



2. Plot when the TCH number set to 1413:

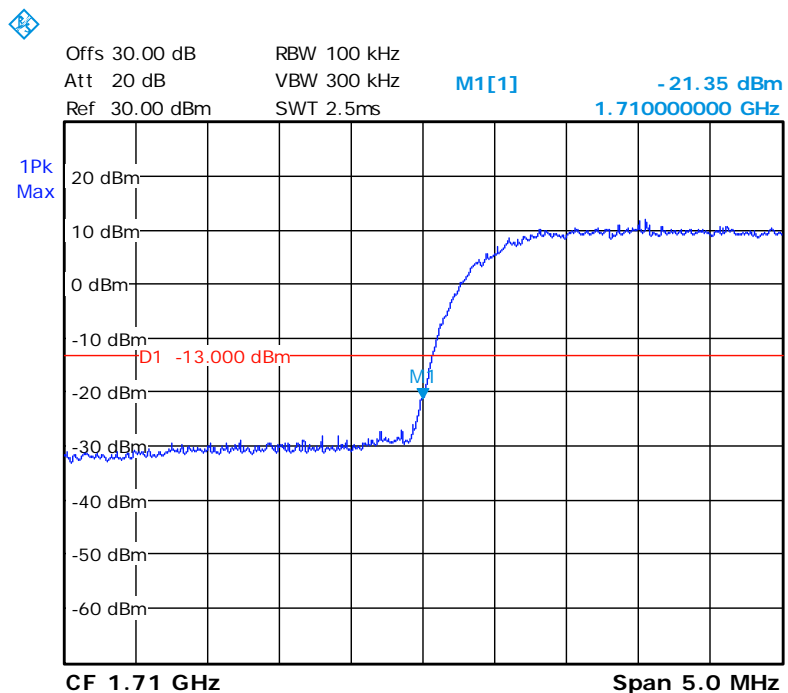


Plot when the TCH number set to 1513:



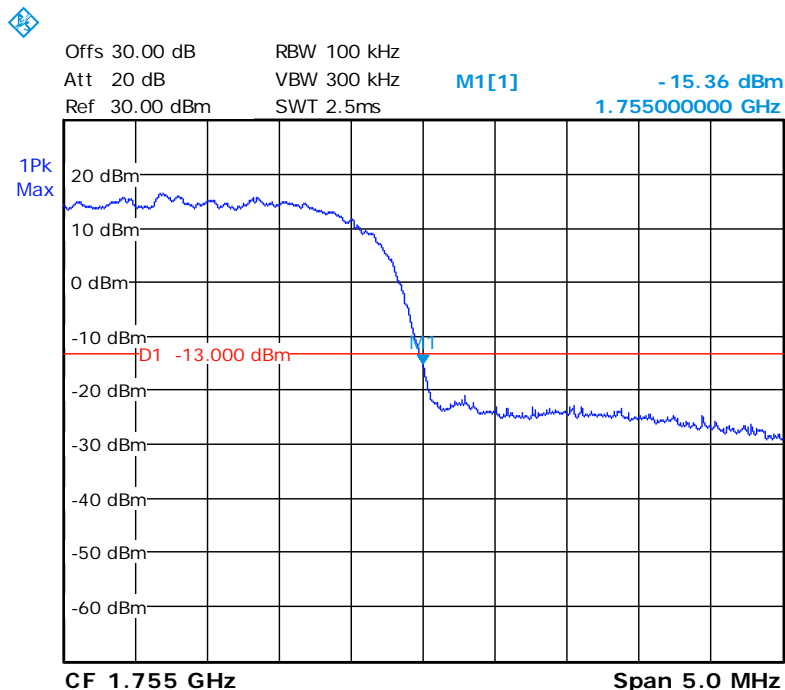
# Plot for Band-edge

Plot when the TCH number set to 1312:



Date: 24.OCT.2013 19:54:44

Plot when the TCH number set to 1513:



Date: 24.OCT.2013 19:53:36

## 9 TRANSMITTER RADIATED POWER (EIRP/ERP)

### 9.1 REQUIREMENT

According to FCC §24.232, the EIRP of Cellular mobile transmitters must not exceed 2 Watts (33dBm) e.i.r.p peak power.

### 9.2 TEST PROCEDURE

See the section 5.1.2.

### 9.3 TEST RESULT

Test Mode.	Channel	Frequency (MHz)	Measured EIRP		Limit EIRP		Result
			dBm	W	dBm	W	
WCDMA 1700	1312	1712.40	21.26	0.1337	< 33.0	< 2	PASS
	1413	1732.60	21.87	0.1538	< 33.0	< 2	PASS
	1513	1752.60	21.54	0.1426	< 33.0	< 2	PASS
HSDPA1700	1312	1712.40	21.02	0.1265	< 33.0	< 2	PASS
	1413	1732.60	20.95	0.1245	< 33.0	< 2	PASS
	1513	1752.60	21.42	0.1387	< 33.0	< 2	PASS
HSUPA1700	1312	1712.40	21.15	0.1303	< 33.0	< 2	PASS
	1413	1732.60	21.33	0.1358	< 33.0	< 2	PASS
	1513	1752.60	20.97	0.1250	< 33.0	< 2	PASS

## 10 RADIATED SPURIOUS EMISSION

### 10.1 REQUIREMENT

According to FCC §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10\log(P)$ dB. This calculated to be -13dBm.

### 10.2 TEST PROCEDURE

See the section 5.1.2.

### 10.3 TEST RESULT

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

No.	Frequency (MHz)	Emission Power (dBm)		Limit (dBm)
		Test Antenna Vertical	Test Antenna Horizontal	
WCDMA 1700MHz-Channel set to 1312 (1712.4MHz)				
1	3424.80	-34.14	-35.39	-13
2	5137.20	---	---	-13
3	6849.60	---	---	-13
4	8562.00	---	---	-13
5	10274.40	---	---	-13
6	11986.80	---	---	-13
7	13699.20	---	---	-13
8	15411.60	---	---	-13
9	17124.00	---	---	-13
WCDMA 1700MHz-Channel set to 1413 (1732.60MHz)				
1	3465.20	-37.06	-36.22	-13
2	5197.80	---	---	-13
3	6930.40	---	---	-13
4	8663.00	---	---	-13
5	10395.60	---	---	-13
6	12128.20	---	---	-13
7	13860.80	---	---	-13
8	15593.40	---	---	-13
9	17326.00	---	---	-13
WCDMA 1700MHz-Channel set to 1513 (1752.60MHz)				
1	3505.20	-36.21	-38.06	-13
2	5257.80	---	---	-13
3	7010.40	---	---	-13
4	8763.00	---	---	-13
5	10515.60	---	---	-13
6	12268.20	---	---	-13
7	14020.80	---	---	-13
8	15773.40	---	---	-13
9	17526.00	---	---	-13

NOTE: "---" in the table following means that the emission power was too small to be measured and was at

least 12dB below the limit.

## **11 FREQUENCY STABILITY**

### **11.1 FREQUENCY STABILITY REQUIREMENT**

According to FCC §24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

According to FCC §2.1055, the test conditions are:

(a) Temperature:

The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.

(b) Primary Supply Voltage:

For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

### **11.2 TEST PROCEDURE**

1. Perform test system setup as section 5.1.3.
2. Set the voltage of the DC Power Supply to normal supply voltage (here used 3.7V) and the temperature of the Temperature Chamber to vary from -30°C to +50°C at intervals of 10°C.
3. At each temperature level, the EUT is powered off and kept in the Temperature Chamber for two hours.
4. After sufficient stabilization, turn on the EUT, command it via the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 0 and Power Class = 1, and then establish a communication link between the EUT and the SS.
5. The low, middle and the high channels are selected to perform tests respectively. Set the TCH number to the low channel.
6. The frequency deviation is measured (directly read from the SS, which can report the parameter) within three minutes.
7. Set the TCH number to the middle channel, then repeat step 5.
8. Set the TCH number to the high channel, then repeat step 5.
9. Adjust the temperature of the Temperature Chamber as specified in step 2, then repeat step 3 to 7.
10. Set the voltage of the DC Power Supply to high extreme supply voltage (here used 4.2V) and the temperature of the Temperature Chamber to normal (here used +22°C), then repeat step 3 to 8.
11. Set the voltage of the DC Power Supply to low extreme supply voltage (here used 3.6V) and the temperature of the Temperature Chamber to normal (here used +22°C), then repeat step 3 to 8.

### 11.3 TEST RESULT

Band	Test Conditions		Frequency Deviation (Hz) at Channels Used			
	Voltage	Temperature	512	661	810	Limit (±1ppm)
WCDMA 1700MHz	V-nor	-30°C	-25.62	-23.12	-15.18	a) ±1712Hz at 1312 Channel b) ±1732Hz at 1413 Channel c) ±1752Hz at 1513 Channel
		-20°C	-15.02	-27.34	-21.46	
		-10°C	-20.39	-27.11	-19.14	
		0°C	-22.56	-20.14	9.85	
		+10°C	-15.33	-10.30	14.31	
		+20°C	-23.01	-21.53	-32.62	
		+30°C	-27.16	-32.81	-20.06	
		+40°C	-32.66	-25.28	-23.45	
		+50°C	-38.04	-17.65	-31.08	
	V-high	+22°C	-25.84	-27.29	-28.73	
	V-low	+22°C	-18.19	-23.48	-17.28	
Result: PASS						

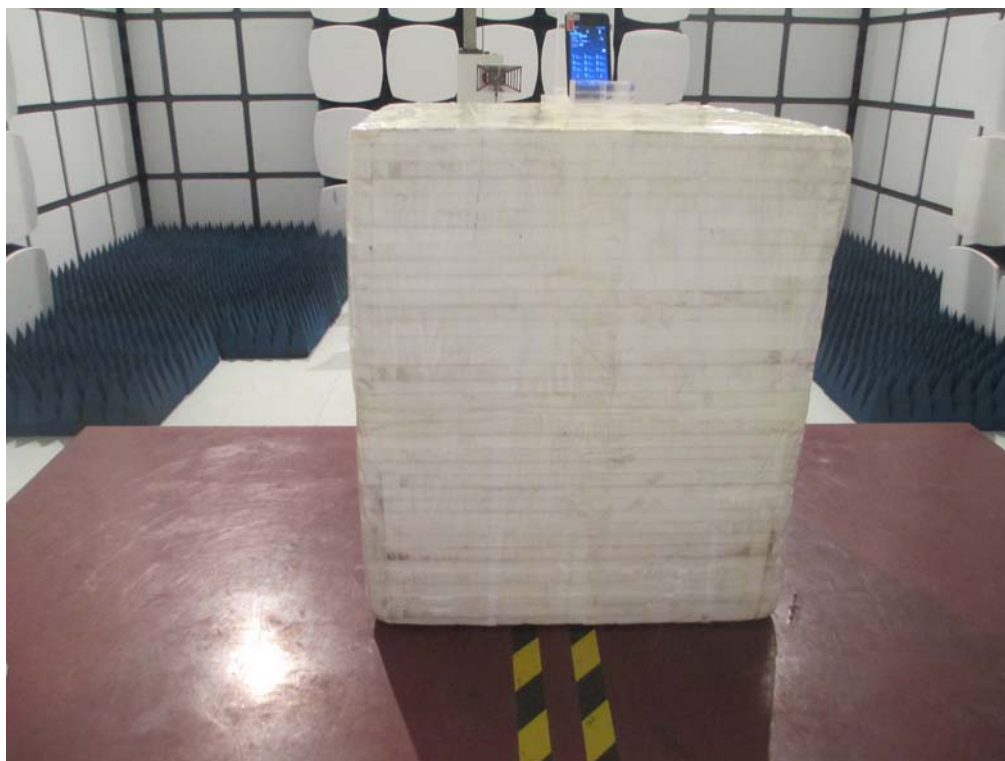


**APPENDIX 1**  
**PHOTOGRAPHS OF TEST SETUP**

CONDUCTED TEST SETUP



RADIATED EMISSION TEST SETUP



**APPENDIX 2**  
**PHOTOGRAPHS OF EUT**

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



UP VIEW OF SAMPLE



DOWN VIEW OF SAMPLE





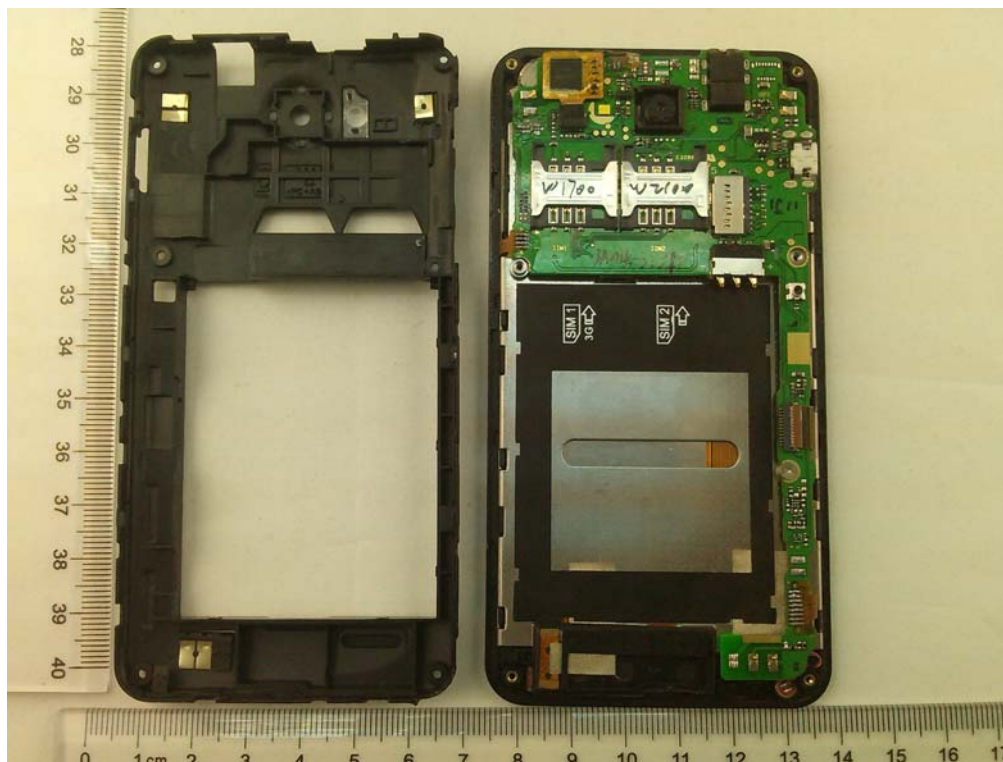
PHOTO OF ACCESSORY



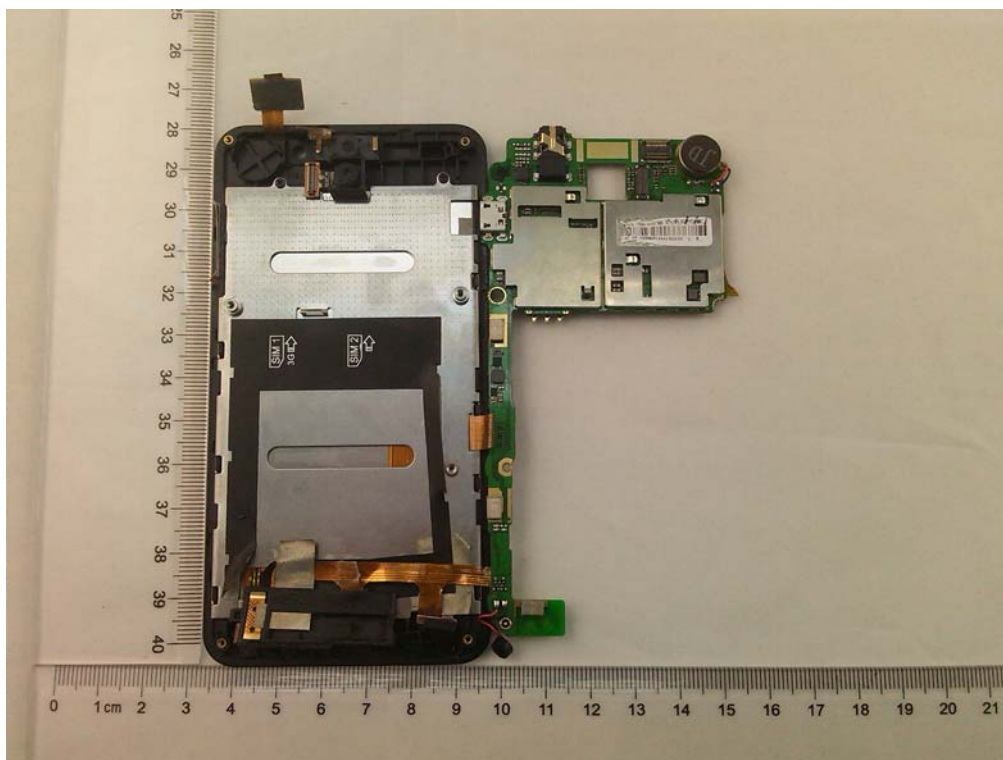
INTERNAL PHOTO OF SAMPLE – 1



INTERNAL PHOTO OF SAMPLE -2

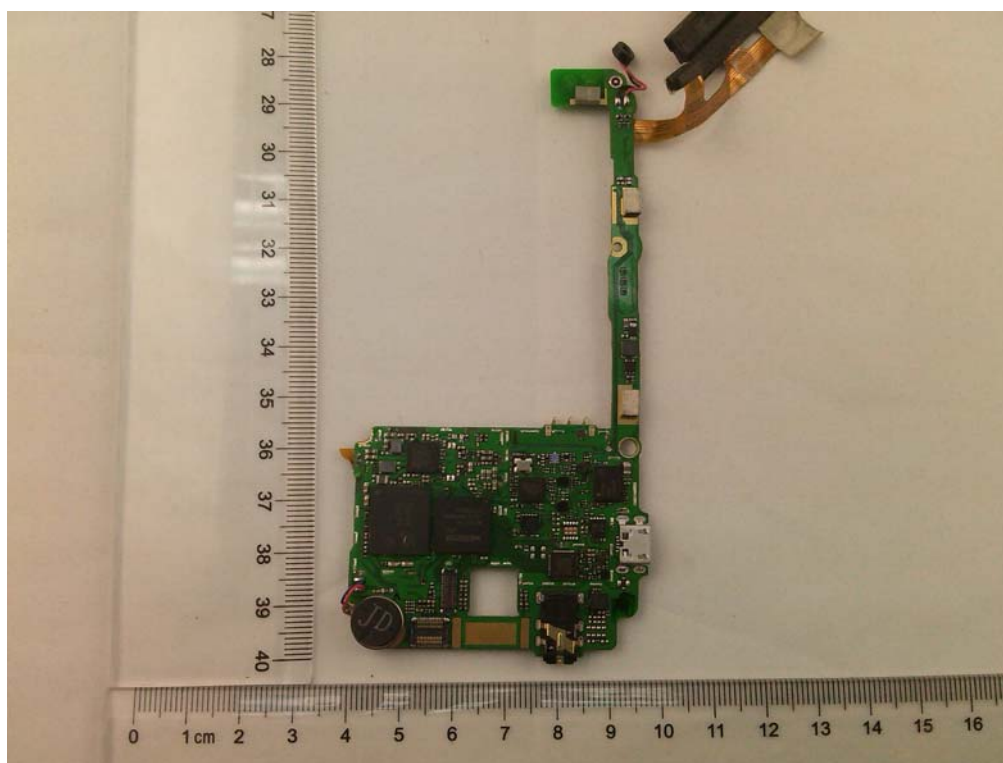


INTERNAL PHOTO OF SAMPLE -3

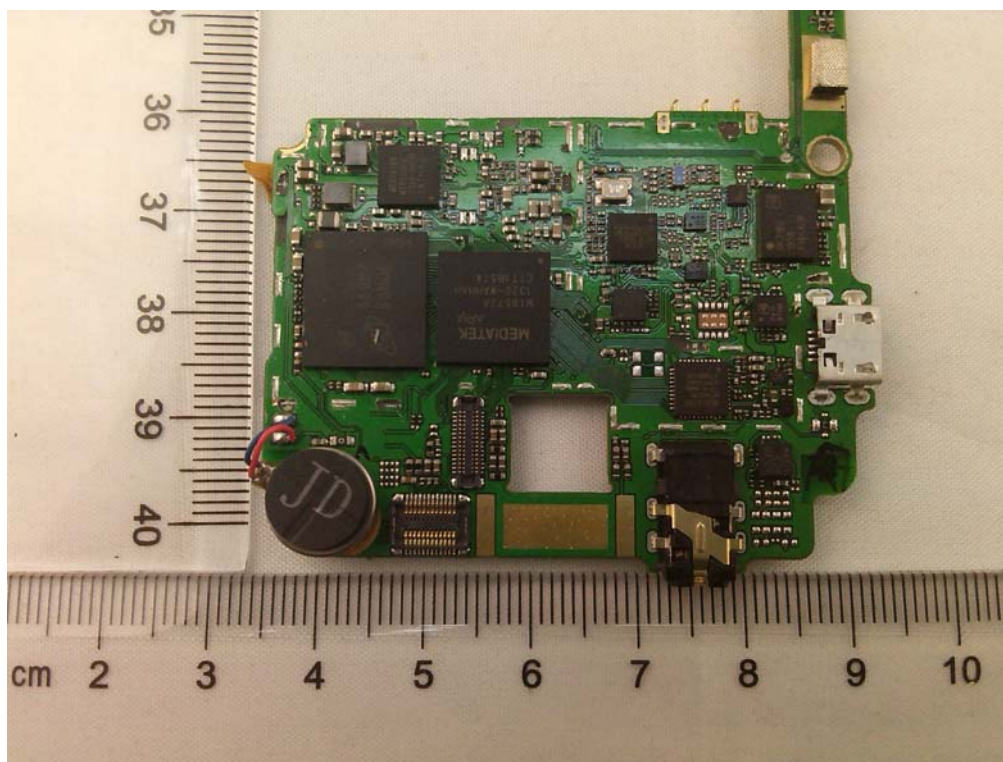




INTERNAL PHOTO OF SAMPLE - 4



INTERNAL PHOTO OF SAMPLE - 5



-----END OF REPORT-----