





# **TEST REPORT**

Report No.: SRTC2011-H024-E0051

Product Name: GSM/GPRS/EDGE/WCDMA

Digital Mobile Phone with Bluetooth

Marketing Name: one touch 905M

Product Model: MINI3G M

Applicant: TCT Mobile Limited

Manufacture: TCT Mobile Limited

Specification: FCC Part 22H, Part 2

(October 1, 2009 edition)

FCC ID: RAD204

The State Radio\_monitoring\_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China

Tel: 86-10-68009202 Fax: 86-10-68009205



## **CONTENTS**

1. General information	3
1.1 Notes of the test report	3
1.2 Information about the testing laboratory	3
1.3 Applicant's details	3
1.4 Manufacturer's details	3
1.5 Application details	4
1.6 Reference specification	4
1.7 Information of EUT	4
1.7.1 General information	4
1.7.2 EUT details	5
1.7.3 Auxiliary equipment details	5
2. Test information	6
2.1 Summary of the test results	6
2.2 Test result	7
2.2.1 RF Power Output-FCC Part 22.913(a)	7
2.2.2 Effective Radiated Power-FCC Part22.913(a)	8
2.2.3 Occupied Bandwidth-FCC Part 2.1049(h)(i)	
2.2.4 Emission Bandwidth-FCC Part 22.917(b)	13
2.2.5 Conducted Spurious Emissions-FCC Part 2.1057/Part 22.917	16
2.2.6 Band Edges Compliance-FCC Part 22.917(b)	19
2.2.7 Frequency Stability-FCC Part 2.1055	21
2.2.8 Radiated Spurious Emissions-FCC Part 2.1053/Part 22.917	23
2.3. List of test equipments	27
Appendix	28



FCC ID: RAD204

#### 1. General information

## 1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

## 1.2 Information about the testing laboratory

Company: The State Radio\_monitoring\_center Testing Center (SRTC)

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City: Beijing Country or Region: China

Contacted person: Wang Junfeng

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Email: wangjf@srrc.org.cn / wangjunfeng@srtc.org.cn

## 1.3 Applicant's details

Company: TCT Mobile Limited

Address: 5F, E building, No. 232, Liang Jing Road ZhangJiang

High-Tech Park, Pudong Area

City: Shanghai Country or Region: P.R.China Grantee Code: RAD

Contacted Person: Gong Zhizhou

Tel: +86-21-61460890

Fax: +86-21-61460602

Email: zhizhou.gong@jrdcom.com

### 1.4 Manufacturer's details

Company: TCT Mobile Limited

Address: 5F, E building, No. 232, Liang Jing Road ZhangJiang

High-Tech Park, Pudong Area

City: Shanghai
Country or Region: P.R.China
Contacted Person: Gong Zhizhou
Tel: +86-21-61460890
Fax: +86-21-61460602

Email: zhizhou.gong@jrdcom.com

The State Radio\_monitoring\_center Testing Center (SRTC) Page number: 3 of 28

FCC ID: RAD204

## 1.5 Application details

Date of reception of test sample: 8<sup>th</sup> Jun 2011 Date of test: 9<sup>th</sup> Jun 2011 to 12<sup>th</sup> Jun 2011

## 1.6 Reference specification

FCC Part22H, Part 2 (October 1, 2009 edition)

## 1.7 Information of EUT

#### 1.7.1 General information

Name of EUT	GSM/GPRS/EDGE/WCDMA Digital Mobile Phone with Bluetooth	
FCC ID	RAD204	
Frequency range	WCDMA Band V: Tx:824~849MHz Rx:869~894MHz	
Rated output power	24.0dBm	
Modulation type	QPSK	
Emission Designator	4M50F9W	
Duplex mode	FDD	
Duplex spacing	WCDMA Band V:45MHz	
Antenna type	Integral	
Power Supply	Battery or charger	
Rated Power Supply Voltage	3.8V	
Extreme Temperature	Lowest: -30°C Highest: +50°C	
Extreme Voltage	Minimum: 3.5V Maximum: 4.2V	
HW Version	PIO3	
SW Version	sw160	



FCC ID: RAD204

## 1.7.2 EUT details

Product Name	Marketing Name	Product Model	IMEI
GSM/GPRS/EDGE/WCDMA Digital Mobile Phone with Bluetooth	one touch 905M	MINI3G M	012835000000187

## 1.7.3 Auxiliary equipment details

Equipment	Charger
Manufacturer	Ten Pao International Ltd.
Model Number	CBA3120AA0C2
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

Equipment	Battery
Manufacturer	BYD LITHIUM BATTERY CO., LTD
Model Number	CAB3120000C1
Capacity	850mAh
Rated Voltage	3.7V d.c.

Equipment	Data Cable
Manufacturer	Shen Zhen Ju Wei Electronic Co.,LTD
Model Number	CDA3122001C1

Equipment	Data Cable	
Manufacturer	Huizhou Shenghua Industry Co.,Ltd	
Model Number	CDA3122001C2	



## 2. Test information

## 2.1 Summary of the test results

No.	Test case	FCC reference	Verdict
1	RF Power Output	22.913(a)	Pass
2	Effective Radiated Power	22.913(a)	Pass
3	Occupied Bandwidth	2.1049(h)(i)	Pass
4	Emission Bandwidth	22.917(b)	Pass
5	Spurious Emissions at antenna terminals	2.1057/22.917	Pass
6	Band Edges Compliance	22.917(b)	Pass
7	Frequency Stability	2.1055	Pass
8	Radiated Spurious Emissions	2.1051/22.917	Pass

This Test Report Is Issued by:	Checked by:
Mr. Song Qizhu	Mr. Wang Junfeng
Director of the test lab	Deputy director of the test lab
J. Lyp	nasit
Tested by:	Issued date:
Mr. Li Boyu	
Test engineer	
李博宇	2011.06.30

Fax: 86-10-68009195 68009205

Page number: 6 of 28



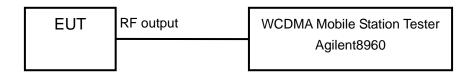
2.2 Test result

## 2.2.1 RF Power Output-FCC Part 22.913(a)

#### Ambient condition:

Temperature	Relative humidity	Pressure
21°C	44%	101.5kPa

#### Test Setup:



#### Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. Then the test data can be read at the tester screen. The loss between RF output port of the EUT and the input port of the tester will be taken into consideration.

The measurement will be conducted at three channels No4132, No4183 and No4233 (Bottom, middle and top channels of WCDMA band V)

Limits	≤24dBm
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#### Test result:

Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
826.4	4132	22.7
836.6	4183	22.5
846.6	4233	22.6

FCC ID: RAD204

### 2.2.2 Effective Radiated Power-FCC Part22.913(a)

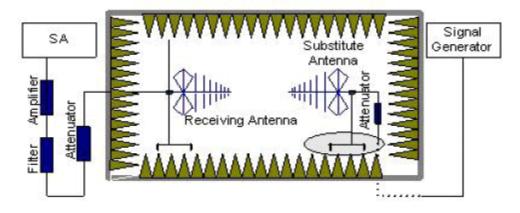
#### Ambient condition:

Temperature	Relative humidity	Pressure
21°C	44%	101.5kPa

#### Test setup:



Step 1



Step 2

#### Test procedure:

The measurements procedures in TIA-603C-2004 are used.

### Step 1:

The measurement is carried out in the fully anechoic chamber. EUT was placed on a 2.4 meters high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The height of receiving antenna is 2.4m and varies in certain range to find the maximum power value. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used and

FCC ID: RAD204

RBW is set to 3MHz. Then the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum power value on spectrum analyzer or receiver. And the maximum value of the receiver should be recorded as (Pr).

#### Step 2:

A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator. To repeat the same procedure as step1 and the level of signal generator will be adjusted till the same power value on the spectrum analyzer or receiver. The ERP/EIRP of the EUT can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

A power (Pmea) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (Pmea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

A "reference path loss" should be calculated after test. The attenuation of "reference path loss" is the cable loss between the Signal Source with the Substitution Antenna (Pca) and the Substitution Antenna Gain (Ga).

The measurement results are obtained as described below:

Power (EIRP) = Pmea+ Pca+ Ga

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP – 2.15 (dB).

The measurement will be done at three channels No4132, No4183 and No4233 (Bottom, middle and top channels of WCDMA band V)

Limits	≤38.5dBm

#### Test result

_							
	Frequency (MHz)	Peak ERP (dBm)	Pca Cable loss (dB)	Ga Antenna Gain (dB)	Correction (dB)	Pmea (dBm)	Polarization
	826.4	21.9	-3.8	8.6	2.15	19.25	Vertical
	836.6	22.1	-3.8	8.6	2.15	19.45	Vertical
	846.6	22.4	-3.8	8.6	2.15	19.75	Vertical

Frequency: 846.6MHz

Peak ERP (dBm) = Pmea (19.75dBm) + Pca (-3.8dB) + Ga (8.6dB) - 2.15dB = 22.4dBm

Fax: 86-10-68009195 68009205

Page number: 9 of 28



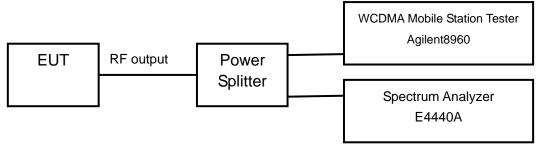
FCC ID: RAD204

### 2.2.3 Occupied Bandwidth-FCC Part 2.1049(h)(i)

#### Ambient condition:

Temperature	Relative humidity	Pressure
21°C	44%	101.5kPa

#### Test Setup:



#### Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 30kHz on spectrum analyzer. The bandwidth of 99% power can be read on spectrum analyzer. The measurement will be conducted at three channels No4132, No4183 and No4233 (Bottom, middle and top channels of WCDMA band V)

Limits: No specific occupied bandwidth requirements in part 2.1049

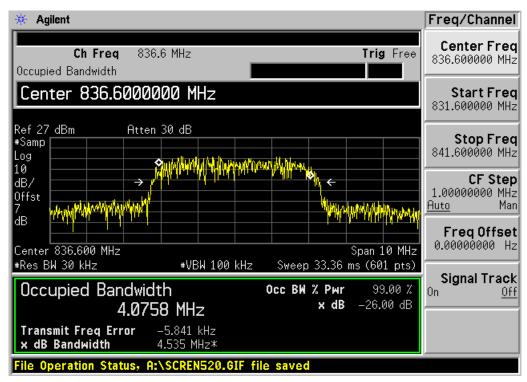
#### Test result:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.1320
836.6	4183	4.0758
846.6	4233	4.0854



Freq/Channel 🔆 Agilent Center Freq Ch Freq 826.4 MHz Trig Free 826.400000 MHz Occupied Bandwidth Center 826.4000000 MHz Start Freq 821.400000 MHz Ref 27 dBm Atten 30 dB Stop Freq #Samp 831.400000 MHz Log 10 CF Step dB/ 1.000000000 MHz Offst Archyptall llangur bhalda Auto dΒ Freq Offset 0.00000000 Hz Center 826.400 MHz Span 10 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 33.36 ms (601 pts) Signal Track Occupied Bandwidth Occ BW % Pwr 99.00 % Off x dB -26.00 dB 4.1320 MHz Transmit Freq Error -12.189 kHz x dB Bandwidth 4.526 MHz\* Operation Status, A:\SCREN519.GIF file saved

Channel 4132



Channel 4183



🔆 Agilent Freq/Channel Center Freq Ch Freq 846.6 MHz Trig Free 846.600000 MHz Occupied Bandwidth Center 846.6000000 MHz Start Freq 841.600000 MHz Ref 27 dBm Atten 30 dB **Stop Freq** 851.600000 MHz #Samp Log 10 **CF Step** 1.000000000 MHz dB/ Offst <u>Auto</u> rafer jar fallangar jarka dΒ Freq Offset 0.000000000 Hz Center 846.600 MHz Span 10 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 33.36 ms (601 pts) Signal Track Occupied Bandwidth Occ BW % Pwr 99.00 % -26.00 dB x dB 4.0854 MHz –10.224 kHz 4.489 MHz≭ Transmit Freq Error x dB Bandwidth

Channel 4233

Operation Status, A:\SCREN521.GIF file saved



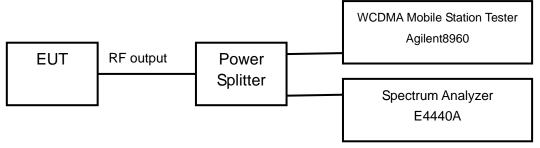
FCC ID: RAD204

### 2.2.4 Emission Bandwidth-FCC Part 22.917(b)

#### Ambient condition:

Temperature	Relative humidity	Pressure
21°C	44%	101.5kPa

#### Test Setup:



#### Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 30kHz on spectrum analyzer. The bandwidth of -26dBc power can be read on spectrum analyzer. The measurement will be conducted at three channels No9262, No9400 and No9538 (Bottom, middle and top channels of WCDMA band V)

Limits: No specific occupied bandwidth requirements in part 22.917

#### Test result:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
826.4	4132	4.526
836.6	4183	4.535
846.6	4233	4.489

Fax: 86-10-68009195 68009205

Page number: 13 of 28

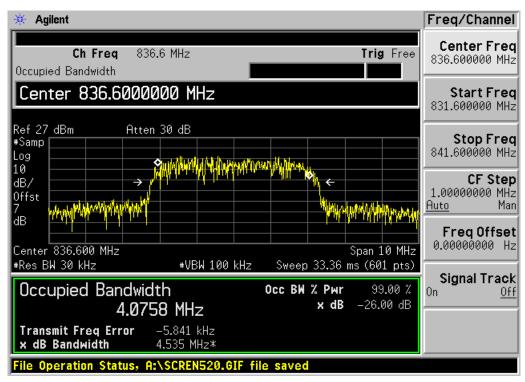


x dB Bandwidth

Freq/Channel 🔆 Agilent Center Freq Ch Freq 826.4 MHz Trig Free 826.400000 MHz Occupied Bandwidth Center 826.4000000 MHz Start Freq 821.400000 MHz Ref 27 dBm Atten 30 dB Stop Freq #Samp 831.400000 MHz Log 10 CF Step dB/ 1.000000000 MHz Offst Archyptall llangur bhalda Auto dΒ Freq Offset 0.00000000 Hz Center 826.400 MHz Span 10 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 33.36 ms (601 pts) Signal Track Occupied Bandwidth Occ BW % Pwr 99.00 % Off x dB -26.00 dB 4.1320 MHz Transmit Freq Error -12.189 kHz

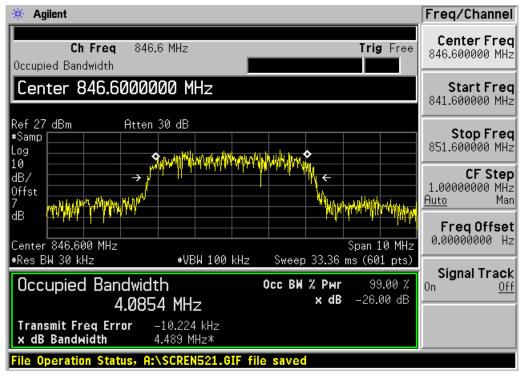
Channel 4132

4.526 MHz\* Operation Status, A:\SCREN519.GIF file saved



Channel 4183





Channel 4233

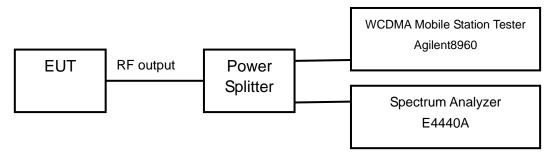


2.2.5 Conducted Spurious Emissions-FCC Part 2.1057/Part 22.917

#### Ambient condition:

Temperature	Relative humidity	Pressure
21°C	44%	101.5kPa

#### Test Setup:



#### Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to 9GHz (higher than the 10<sup>th</sup> harmonic of the carrier). The peak detector is used and RBW is set to 1MHz on spectrum analyzer.

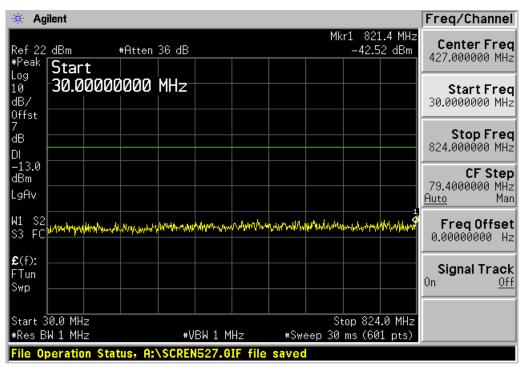
The measurement will be conducted at one channel No 4183 (middle channel of WCDMA band V)

Limits	≤-13dBm
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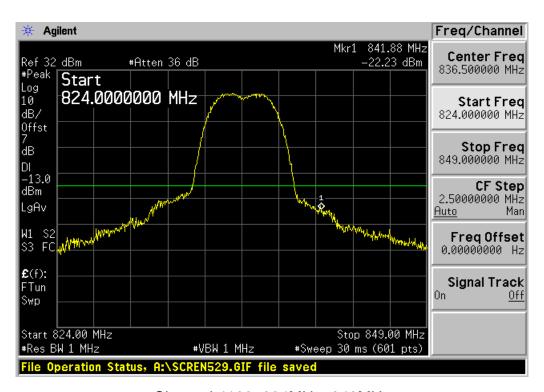
Test result:

Refer to the following figures.





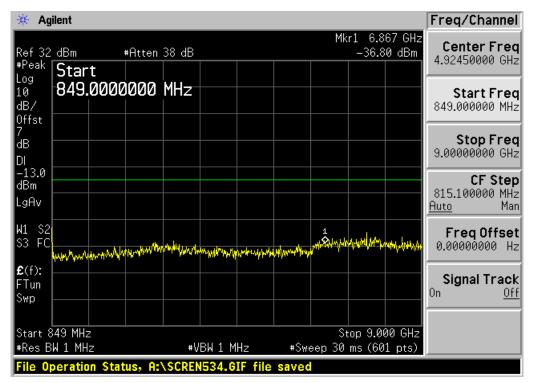
Channel 4183, 30MHz~824MHz



Channel 4183, 824MHz~849MHz

Note: The signal beyond the limit is the base station simulator carrier.





Channel 4183, 849MHz~9GHz



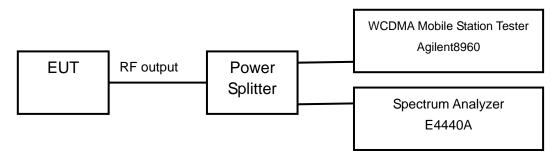
FCC ID: RAD204

## 2.2.6 Band Edges Compliance-FCC Part 22.917(b)

#### Ambient condition:

Temperature	Relative humidity	Pressure
21°C	44%	101.5kPa

#### Test Setup:



#### Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. The measurement is carried out using a spectrum analyzer. The peak detector is used and RBW is set to 30KHz on spectrum analyzer.

The measurement will be conducted at two channels No4132 and No4233 (Bottom and top channels of WCDMA band V)

Limits ≤-13dBm
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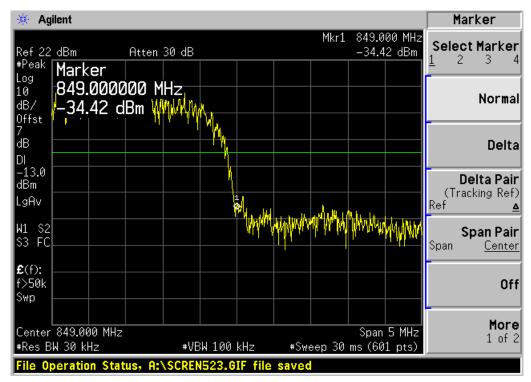
#### Test result:

Refer to the following figures.



Freq/Channel \* Agilent Mkr1 824.000 MHz Center Freq Ref 22 dBm Atten 30 dB -41.79 dBm 824.000000 MHz #Peak Center Log 824.00000000 MHz 10 Start Freq dB/ 821.500000 MHz Offst Stop Freq dΒ 826.500000 MHz DI -13.0 dBm CF Step 500.000000 kHz LgAv <u>Auto</u> W1 S2 S3 FC Freq Offset 0.000000000 Hz £(f): Signal Track f>50k Swp Center 824.000 MHz Span 5 MHz #Res BW 30 kHz #Sweep 30 ms (601 pts) #VBW 100 kHz

Channel 4132



Channel 4233



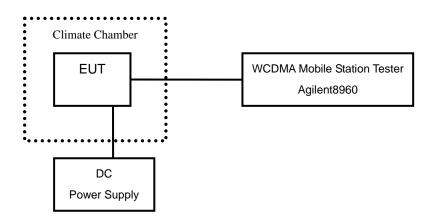
FCC ID: RAD204

### 2.2.7 Frequency Stability-FCC Part 2.1055

#### Ambient condition:

Temperature	Relative humidity	Pressure
21°C	44%	101.5kPa

#### Test setup:



#### Test Procedure:

A radio link shall be established between EUT and Tester. The tester will sample the transmitter RF output signal and measure its frequency. The temperature inside the climate chamber is varied from -30 to +50° C in 10° C step size, and also the DC power supply voltage to the EUT is varied from 3.5 to 4.2 V. The measurement will be conducted at three channels No4132, No4183 and No4233 (Bottom, middle and top channels of WCDMA band V).

Limits: No specific frequency stability requirements in part 2.1055.

Fax: 86-10-68009195 68009205

Page number: 21 of 28



FCC ID: RAD204

### Test result:

Tomporaturo(°C)	Test Result (ppm)@3.8V				
Temperature(°C)	Channel 4132	Channel 4183	Channel 4233		
-30	0.000	0.000 0.001			
-20	0.001	0.001	0.000		
-10	0.001	0.000	0.002		
0	0.004	0.002	0.002		
+10	0.002	0.003	0.003		
+20	0.001	0.005	0.000		
+30	0.002	0.003	0.002		
+40	0.005	0.003	0.001		
+50	0.001	0.003	0.006		

\/altaga /\/\	Test Result (ppm)@20°C				
Voltage (V)	Channel 4132	Channel 4183	Channel 4233		
3.5	0.001	0.001	0.002		
4.2	0.003	0.003	0.001		

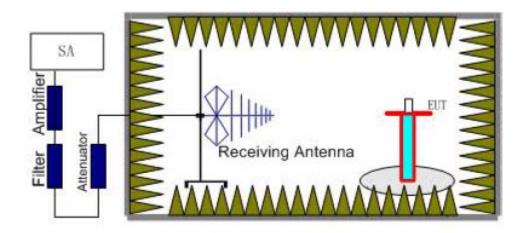


### 2.2.8 Radiated Spurious Emissions-FCC Part 2.1053/Part 22.917

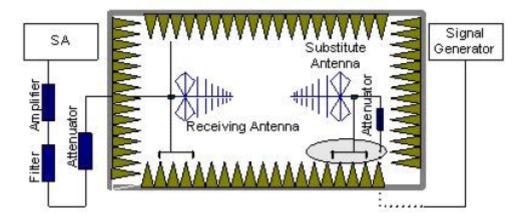
#### Ambient condition

Temperature	Relative humidity	Pressure
21°C	44%	101.5kPa

## Test Setup:



Step 1



Step 2

#### Test procedure:

The measurements procedures in TIA-603C-2004 are used.

The spectrum was scanned from 30MHz to the 10<sup>th</sup> harmonic of the highest frequency generated within the equipment.

#### Step 1:

The measurement is carried out in the fully anechoic chamber. EUT was

FCC ID: RAD204

placed on a 2.4 meter high non-conductive table at a 3 meter test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The height of receiving antenna is 2.4m and varies in certain range to find the maximum power value. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. The measurement is carried out using a spectrum analyzer or receiver. The spectrum analyzer scans from 30MHz to 20GHz (higher than the 10<sup>th</sup> harmonic of the carrier). The peak detector is used and RBW is set to 1MHz on spectrum analyzer. Then the antenna height and turn table rotation is adjusted till the maximum power value is founded on spectrum analyzer or receiver. A notch filter is necessary in the band near to the carrier frequency. A high pass filter is needed to avoid the distortion of the testing equipment in the band above the carrier frequency.

#### Step 2:

A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

A power (Pmea) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (Pmea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

A "reference path loss" should be calculated after test. The attenuation of "reference path loss" is the cable loss between the Signal Source with the Substitution Antenna (Pca) and the Substitution Antenna Gain (Ga).

#### Calculation procedure:

The data of cable loss and antenna gain has been calibrated in full testing frequency range before the testing.

The power of the Radiated Spurious Emissions is calculated by adding the cable loss and antenna gain. The basic equation with a sample calculation is as followed:

Power(EIRP) =  $P_{mea} + P_{ca} + G_a$ 

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP - 2.15 (dB).

No.: SRTC2011-H024-E0051 FCC ID: RAD204

Assumed the power of signal source record is -20dBm. A cable loss of -30dB, and an antenna gain of 11dB are added.

 $P=P_{mea}+P_{ca}+G_{a}=(-20dBm)+(-30dB)+(11dB)=-39dBm$ 

The measurement will be done at carrier frequencies that pertain to bottom (Channel 4132), middle (Channel 4183) and top (Channel 4233) channels of WCDMA band V.

#### Test result

#### Channel 4132:

Frequency (MHz)	Power (dBm)	Pca Cable loss (dB)	Ga Antenna Gain (dB)	Pmea (dBm)	Limited (dBm)	Polarization
1657.60	-21.8	-4.6	8.3	-25.5	-13	Vertical
1668.99	-22.3	-4.8	8.3	-25.8	-13	Horizontal
2587.18	-35.2	-5.7	8.6	-38.1	-13	Vertical
2809.06	-32.8	-6.3	9.1	-35.6	-13	Horizontal
11792.39	-45.2	-13.7	13.8	-45.3	-13	Vertical
17893.26	-39.8	-15.9	12.4	-36.3	-13	Vertical

#### Channel 4183:

Frequency (MHz)	Power (dBm)	Pca Cable loss (dB)	Ga Antenna Gain (dB)	Pmea (dBm)	Limited (dBm)	Polarization
1671.74	-21.69	-4.6	8.3	-25.39	-13	Vertical
1674.54	-22.09	-4.8	8.3	-25.59	-13	Vertical
2600.80	-35.65	-5.7	8.6	-38.55	-13	Vertical
2800.40	-32.92	-6.3	9.1	-35.72	-13	Horizontal
11807.61	-45.39	-13.7	13.8	-45.49	-13	Horizontal
17899.64	-40.08	-15.9	12.4	-36.58	-13	Vertical

Fax: 86-10-68009195 68009205

Page number: 25 of 28



FCC ID: RAD204

## Channel 4233:

Frequency (MHz)	Power (dBm)	Pca Cable loss (dB)	Ga Antenna Gain (dB)	Pmea (dBm)	Limited (dBm)	Polarization
1686.36	-21.7	-4.6	8.3	-25.4	-13	Vertical
1687.19	-22.6	-4.8	8.3	-26.1	-13	Horizontal
2601.66	-35.5	-5.7	8.6	-38.4	-13	Vertical
2792.39	-33.3	-6.3	9.1	-36.1	-13	Vertical
11824.93	-45.2	-13.7	13.8	-45.3	-13	Vertical
17907.04	-39.9	-15.9	12.4	-36.4	-13	Vertical

Page number: 26 of 28

FCC ID: RAD204

## 2.3. List of test equipments

No.	Name/Model	Manufacturer	S/N	Calibration Due Date
1	E5515C(8960) Mobile Station Tester	Agilent	GB44050904	19 <sup>th</sup> Aug. 2011
2	PSA E4440A Spectrum Analyzer	Agilent	MY41000183	19 <sup>th</sup> Aug. 2011
3	66309B DC Power Supply	Agilent	MY43000461	19 <sup>th</sup> Aug. 2011
4	1506A Power Splitter	Weinschel	MN154	19 <sup>th</sup> Aug. 2011
5	9.080m×5.255m×3.525m Shielding room	FRANKONIA		19 <sup>th</sup> Aug. 2011
6	ESI 40 EMI test receiver	R&S	100015	19 <sup>th</sup> Aug. 2011
7	SMR 20 Signal generator	R&S	100086	19 <sup>th</sup> Aug. 2011
8	CMU 200 Radio tester	R&S	100313	19 <sup>th</sup> Aug. 2011
9	12.65m*8.03m*7.50m Fully-Anechoic Chamber	FRANKONIA		19 <sup>th</sup> Aug. 2011
10	HL562 Ultra log test antenna	R&S	100016	19 <sup>th</sup> Aug. 2011
11	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA		19 <sup>th</sup> Aug. 2011
12	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	19 <sup>th</sup> Aug. 2011
13	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	19 <sup>th</sup> Aug. 2011
14	PS2000 Turn Table	FRANKONIA		19 <sup>th</sup> Aug. 2011
15	MA260 Antenna Master	FRANKONIA		19 <sup>th</sup> Aug. 2011
16	SH-241Climatic Chamber	ESPEC	92000389	19 <sup>th</sup> Aug. 2011
17	ES-K1EMI test software	R&S		19 <sup>th</sup> Aug. 2011
18	HL562 Receive antenna	R&S	100167	19 <sup>th</sup> Aug. 2011

Page number: 27 of 28



FCC ID: RAD204

## **Appendix**

Appendix1 Test Setup