



# Part 24

# TEST REPORT

<b>Product Name</b>	DC-HSDPA Portable WiFi Router
<b>Model Name</b>	GP03
<b>FCC ID</b>	FDI-04610108-0
<b>Client</b>	BUFFALO

**TA Technology (Shanghai) Co., Ltd.**

# TA Technology (Shanghai) Co., Ltd.


## Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 2 of 41

### GENERAL SUMMARY

<b>Product Name</b>	DC-HSDPA Portable WiFi Router	<b>Model Name</b>	GP03
<b>FCC ID</b>	FDI-04610108-0		
<b>Report No.</b>	RZA1110-1740RF02		
<b>Client</b>	BUFFALO		
<b>Manufacturer</b>	Shanghai Longcheer 3g Technology Co., Ltd		
<b>Reference Standard(s)</b>	<p><b>FCC CFR47 Part 2 (2010-12)</b> Frequency Allocations And Radio Treaty Matters; General Rules And Regulations</p> <p><b>FCC CFR47 Part 24E (2010-12)</b> Personal Communications Services</p> <p><b>ANSI/TIA-603-C(2004)</b> Land mobile FM or PM Communications Equipment Measurements and Performance Standards.</p>		
<b>Conclusion</b>	<p>This portable wireless equipment has been measured in all cases requested by the relevant standards. Test results in Chapter 2 of this test report are below limits specified in the relevant standards.</p> <p>General Judgment: <b>Pass</b></p> <div style="text-align: right;">                       (Stamp)                      Date of issue: November 2<sup>nd</sup>, 2011                 </div>		
<b>Comment</b>	The test result only responds to the measured sample.		

Approved by 初伟中  
Director

Revised by 徐凯  
RF Manager

Performed by 王  
RF Engineer

## TABLE OF CONTENT

1. General Information .....	4
1.1. Notes of the test report .....	4
1.2. Testing laboratory .....	4
1.3. Applicant Information .....	5
1.4. Manufacturer Information .....	5
1.5. Information of EUT .....	6
1.6. Test Date .....	7
2. Test Information .....	8
2.1. Summary of test results .....	8
2.2. RF Power Output .....	9
2.3. Effective Isotropic Radiated Power .....	11
2.4. Occupied Bandwidth .....	14
2.5. Band Edge Compliance .....	19
2.6. Frequency Stability .....	23
2.7. Spurious Emissions at Antenna Terminals .....	26
2.1. Radiates Spurious Emission .....	33
3. Main Test Instruments .....	38
ANNEX A: EUT Appearance and Test Setup .....	39
A.1 EUT Appearance .....	39
A.2 Test Setup .....	41

# TA Technology (Shanghai) Co., Ltd. Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 4 of 41

---

## 1. General Information

### 1.1. Notes of the test report

**TA Technology (Shanghai) Co., Ltd.** guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

**TA Technology (Shanghai) Co., Ltd.** is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test. This report only refers to the item that has undergone the test.

This report standalone dose not constitute or imply by its own an approval of the product by the certification Bodies or competent Authorities. This report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of **TA Technology (Shanghai) Co., Ltd.** and the Accreditation Bodies, if it applies.

If the electrical report is inconsistent with the printed one, it should be subject to the latter.

### 1.2. Testing laboratory

Company: TA Technology (Shanghai) Co., Ltd.  
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong  
City: Shanghai  
Post code: 201201  
Country: P. R. China  
Contact: Yang Weizhong  
Telephone: +86-021-50791141/2/3  
Fax: +86-021-50791141/2/3-8000  
Website: <http://www.ta-shanghai.com>  
E-mail: [yangweizhong@ta-shanghai.com](mailto:yangweizhong@ta-shanghai.com)

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

**Registration Num:428261**

Report No.: RZA1110-1740RF02

Page 5of 41

---

**1.3. Applicant Information**

Company: BUFFALO  
Address: AKAMONDORI Bldg., 30-20, Ohsu 3-chome, Naka-ku, Nagoya 460-8315, Japan  
City: Nagoya  
Postal Code: 460-8315  
Country: Japan  
Contact: Kenjiro Nishimura  
Telephone: +81-50-5830-8816  
Fax: +81-50-5830-8869

**1.4. Manufacturer Information**

Company: Shanghai Longcheer 3g Technology Co., Ltd  
Address: No.1,Building 5, 299 Bisheng Rd, Zhangjiang Hi-Tech Park, Pudong, Shanghai, P.R. China  
City: Shanghai  
Postal Code: /  
Country: P.R. China  
Telephone: +86-29-81881999\*8100  
Fax: +86-29-81882000

# TA Technology (Shanghai) Co., Ltd.

## Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 6 of 41

### 1.5. Information of EUT

#### General information

Name of EUT:	DC-HSDPA Portable WiFi Router		
IMEI:	/		
Hardware Version:	ES3		
Software Version:	Master_Alpha2.5		
Antenna Type:	Internal Antenna		
Device Operating Configurations:			
Operating Mode(s):	GSM1900; (tested)		
Test Modulation:	(GPRS)GMSK; (EGPRS)8-PSK		
GPRS Multislot Class:	12		
EGPRS Multislot Class:	12		
Maximum E.I.R.P.	30.05 dBm		
Power Supply:	Battery or Charger		
Rated Power Supply Voltage:	3.7V		
Extreme Voltage:	Minimum: 3.5V    Maximum: 4.2V		
Extreme Temperature:	Lowest: 0°C    Highest: +45°C		
Test Channel: (Low - Middle - High)	512 - 661 - 810	(GSM 1900)	(tested)
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM1900	1850.2 ~ 1909.8	1930.2 ~ 1989.8

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 7 of 41

---

**Auxiliary equipment details**

**AE1: Battery**

Model: 1UF103450P

Manufacturer: TOCAD

S/N: /

**AE2: Adapter**

Model: LEI\_FU05-9050100-A1

Manufacturer: LEIDER

S/N: /

Equipment Under Test (EUT) is DC-HSDPA Portable WiFi Router. The EUT is tested GSM1900 in this report.

The sample under test was selected by the Client.

Components list please refer to documents of the manufacturer.

**1.6. Test Date**

The test is performed from October 26, 2011 to October 30, 2011.

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 8 of 41

## 2. Test Information

### 2.1. Summary of test results

Number	Test Case	Clause in FCC rules	Verdict
1	RF power output	2.1046	PASS
2	Effective Isotropic Radiated power	24.232	PASS
3	Occupied Bandwidth	2.1049	PASS
4	Band Edge Compliance	24.238	PASS
5	Frequency Stability	2.1055 / 24.235	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 / 24.238	PASS
7	Radiates Spurious Emission	2.1053 / 24.238	PASS



**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 9 of 41

## 2.2. RF Power Output

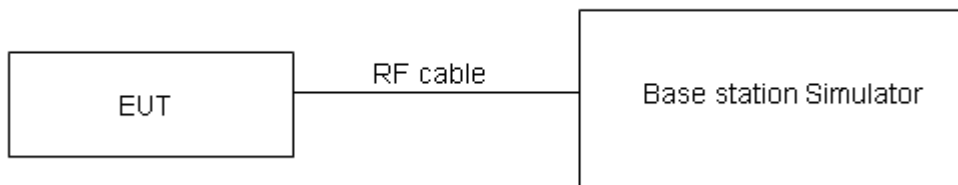
### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

### Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

### Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

### Limits

No specific RF power output requirements in part 2.1046.

### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 0.4$  dB.

# TA Technology (Shanghai) Co., Ltd.

## Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 10 of 41

### Test Results

GSM 1900		Conducted Power(dBm)		
		Channel 512	Channel 661	Channel 810
		1850.2(MHz)	1880(MHz)	1909.8(MHz)
GPRS (GMSK)	1TXslot	<b>27.39</b>	<b>26.73</b>	<b>26.82</b>
	2TXslots	25.78	25.18	25.23
	3TXslots	24.38	24.05	24.1
	4TXslots	22.47	22.48	22.5
EGPRS (8-PSK)	1TXslot	<b>25.91</b>	<b>26.07</b>	<b>25.71</b>
	2TXslots	25.67	25.83	25.84
	3TXslots	21.62	21.58	21.56
	4TXslots	20.63	20.51	20.46

Note:

1) The maximum RF Output Power numbers are marks in bold.

2)The following testing in GPRS/EGPRS is set to 1TXslot based on the maximum RF Output Power.

# TA Technology (Shanghai) Co., Ltd.

## Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 11 of 41

### 2.3. Effective Isotropic Radiated Power

#### Ambient condition

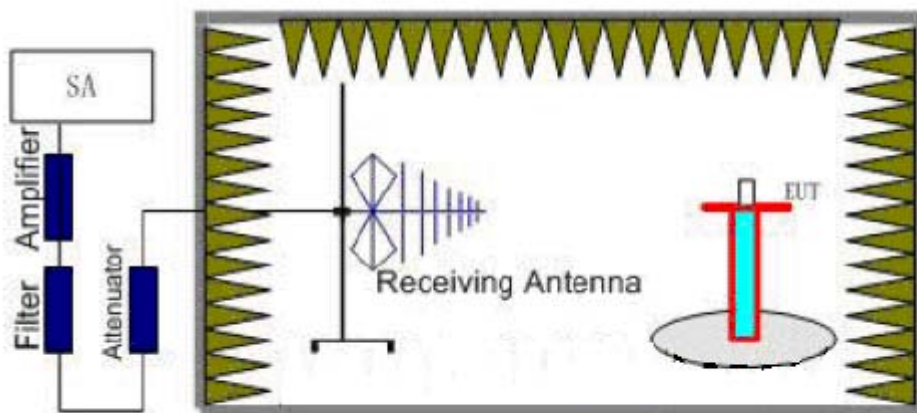
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### Methods of Measurement

The measurement procedures in TIA- 603C are used.

##### Step 1:

The measurement is carried out in the semi-anechoic chamber.. EUT was placed on a 0.8 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. 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 while RBW and VBW are both set to 3MHz. During the measurement, the highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna moved up and down over a range from 1 to 4 meters in both horizontally and vertically polarized orientations. The test setup refers to figure below.



##### Step 2:

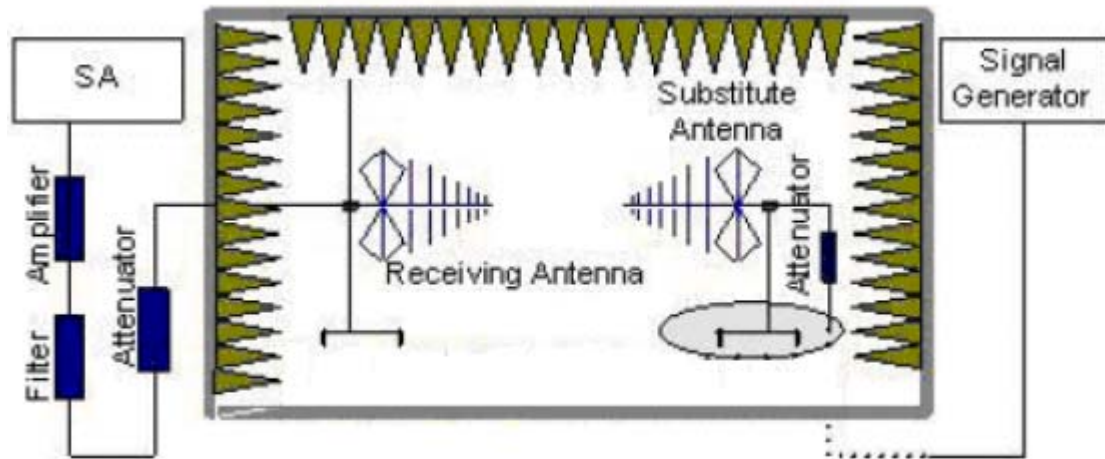
A dipole antenna shall be substituted in place of the EUT. The antenna will be driven by a signal generator with a adjustable S.G. applied through a 30dB amplifier and a Tx cable. Then the Analyzer reading which is equal to LVL is recorded while the antenna was moving up and down. The E.R.P. /E.I.R.P. of the EUT can be calculated through the level of the signal generator, Tx cable loss and the gain of the substitution antenna. The test setup refers to figure below.

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 12 of 41



$$E.R.P = S.G + 30. - Tx Cable loss + Substitution antenna gain - 2.15.$$

$$EIRP = E.R.P + 2.15$$

**Limits**

Rule Part 24.232(b) specifies that "Mobile/portable stations are limited to 2 watts EIRP. Peak power" and Rule Part 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage".

Limit (EIRP)	$\leq 2\text{ W (33 dBm)}$
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**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 1.19\text{ dB}$

# TA Technology (Shanghai) Co., Ltd.

## Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 13 of 41

Test Results:Pass

	Channel	Polarization	LVL (dBm)	SG+30 (dBm)	Gain (dBi)	Cable Loss (dBm)	E.I.R.P. (dBm)
<b>GSM 1900 GPRS(GMSK)</b>	512	Vertical	-13.94	44.13	1.92	18.18	27.78
	661	Vertical	-14.86	44.31	1.94	18.27	27.98
	810	Vertical	-14.77	45.61	1.9	18.3	29.21
<b>GSM 1900 EGPRS(8-PSK)</b>	512	Vertical	-13.49	44.86	1.92	18.18	28.60
	661	Vertical	-14.87	45.23	1.94	18.27	28.90
	810	Vertical	-14.64	46.45	1.9	18.3	30.05

Note: 1. E.R.P =S.G+30. - Tx Cable loss + Substitution antenna gain – 2.15.

2. EIRP= E.R.P+2.15

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 14 of 41

## 2.4. Occupied Bandwidth

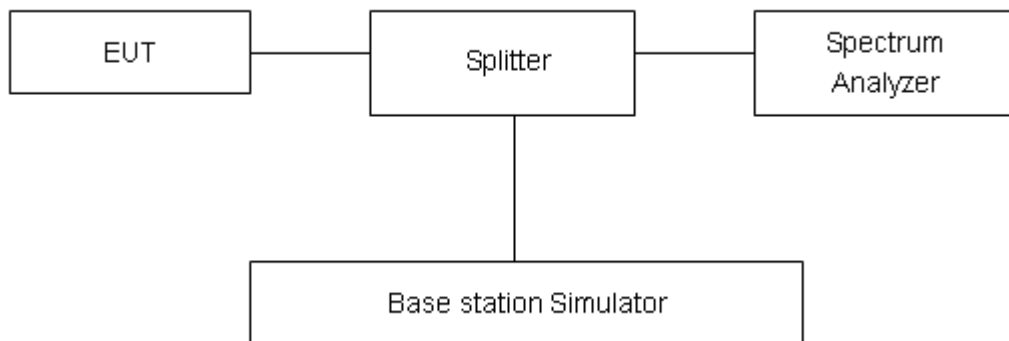
### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

### Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 3kHz,VBW is set to 10kHz for GSM 1900. 99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

### Test Setup



### Limits

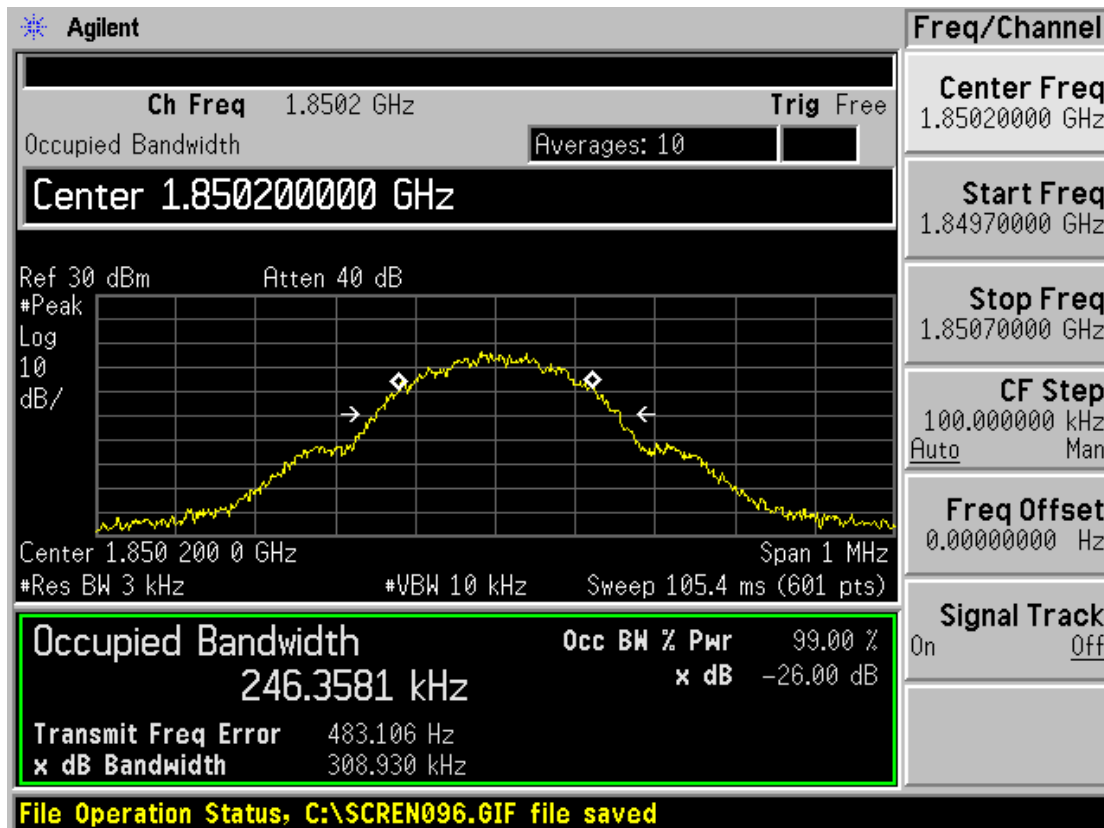
No specific occupied bandwidth requirements in part 2.1049.

### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 624\text{Hz}$ .

Test Result

	Channel	Frequency (MHz)	99% Power Bandwidth (kHz)	-26dBc Bandwidth(kHz)
GSM 1900+GPRS	512	1850.2	246.3581	308.930
	661	1880.0	243.3499	314.084
	810	1909.8	244.6573	306.299
GSM 1900+EGPRS	512	1850.2	243.6950	314.411
	661	1880.0	241.8342	311.139
	810	1909.8	243.1235	310.503



GSM1900 GPRS CH512 Occupied Bandwidth

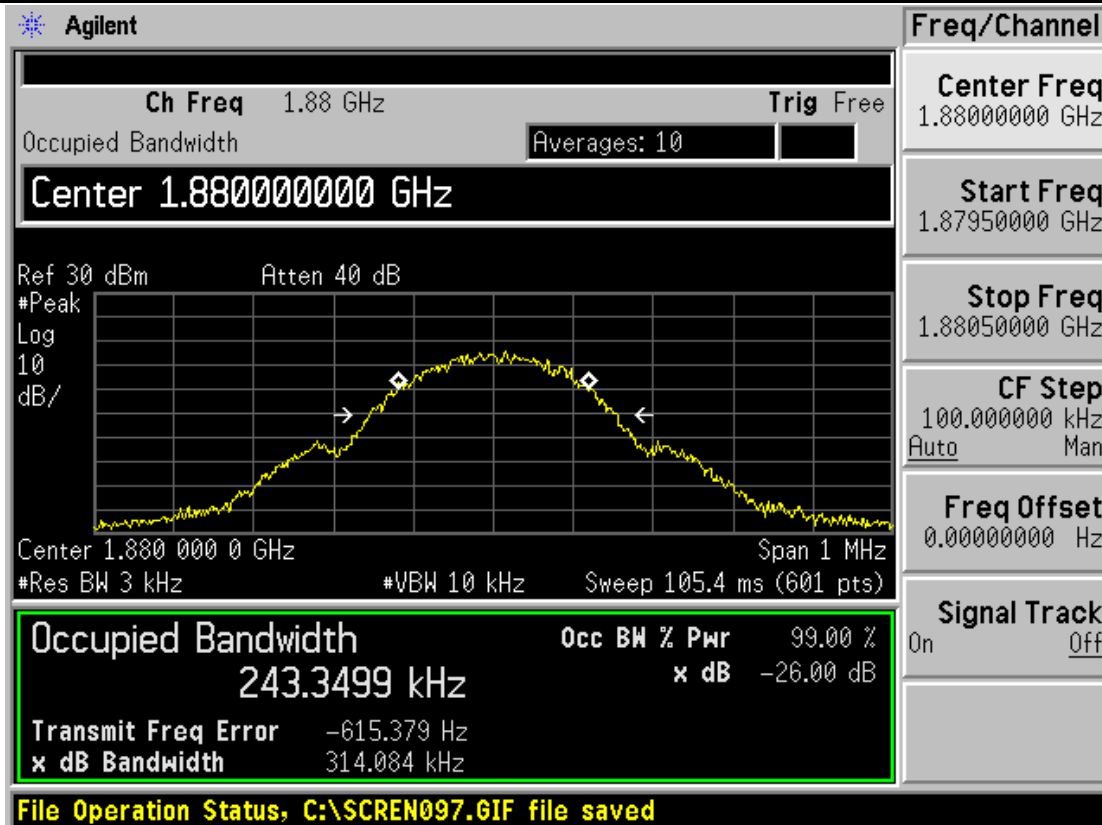
# TA Technology (Shanghai) Co., Ltd.

## Test Report

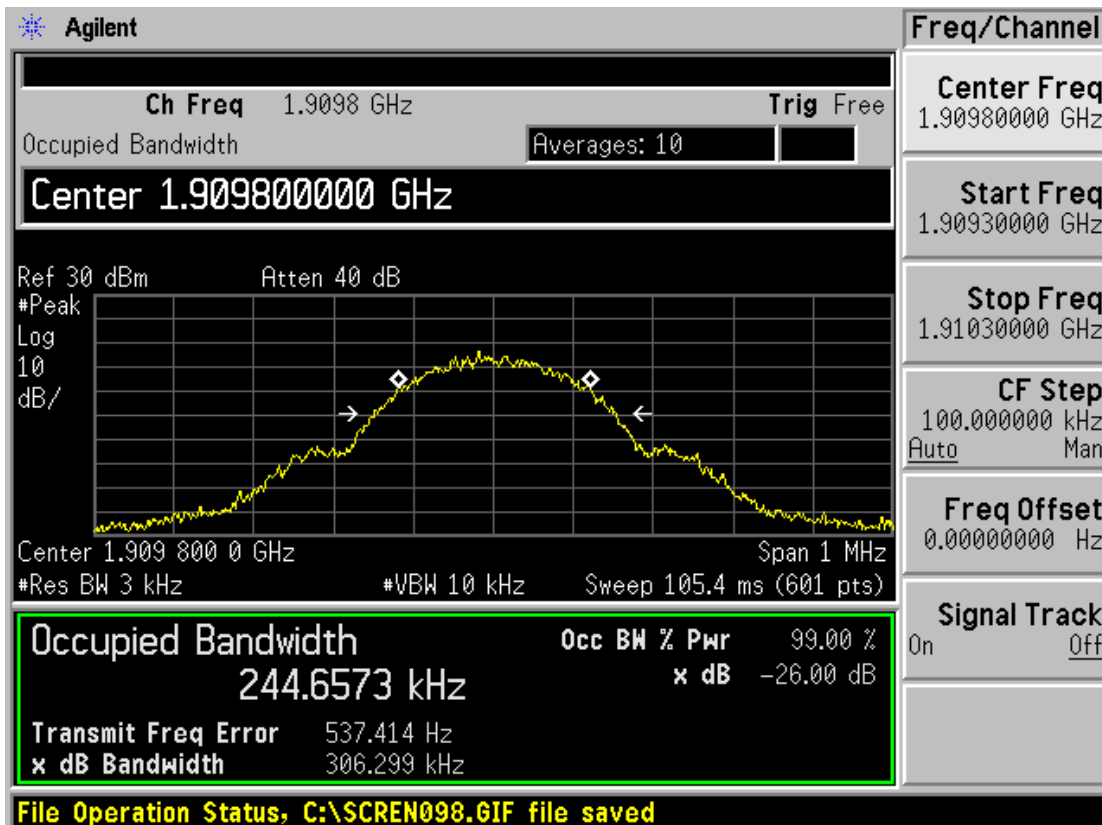
Registration Num:428261

Report No.: RZA1110-1740RF02

Page 16 of 41

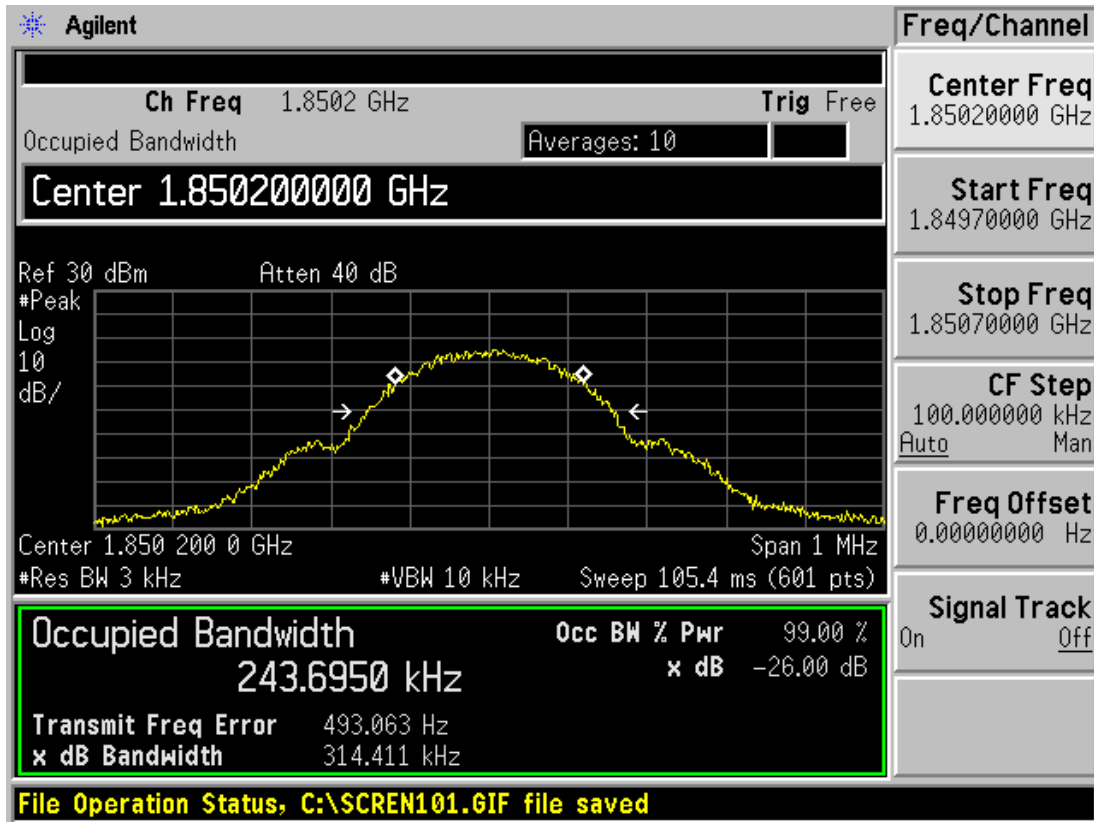


GSM 1900 GPRS CH661 Occupied Bandwidth

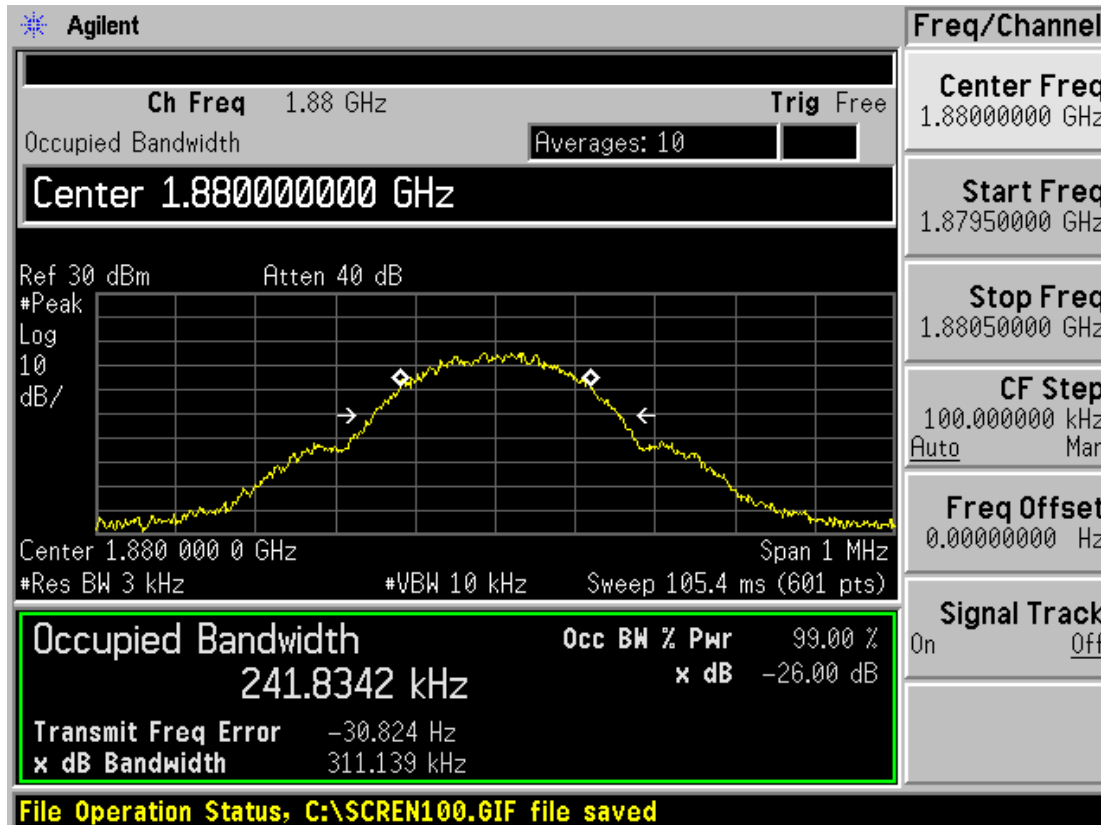


GSM 1900 GPRS CH810 Occupied Bandwidth





GSM1900 EGPRS CH512 Occupied Bandwidth



GSM 1900 EGPRS CH661 Occupied Bandwidth

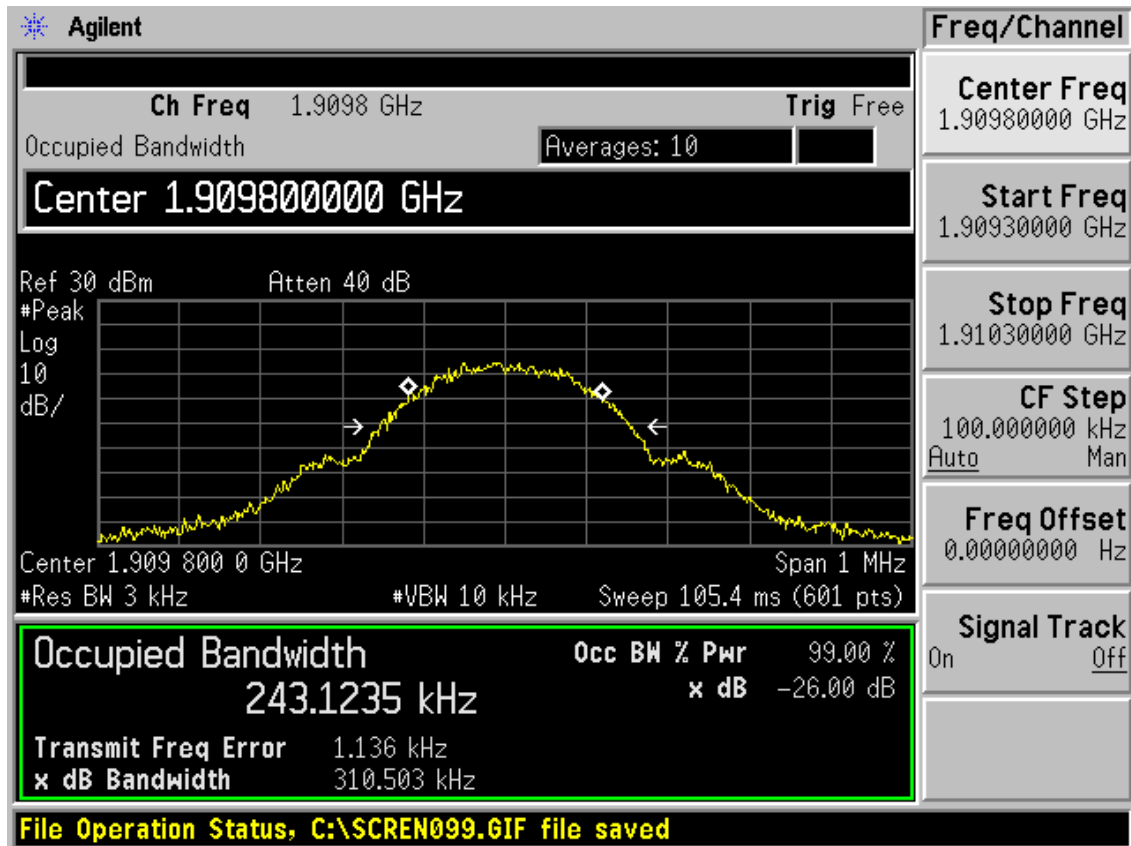
# TA Technology (Shanghai) Co., Ltd.

## Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 18 of 41



GSM 1900 EGPRS CH810 Occupied Bandwidth

**2.5. Band Edge Compliance**

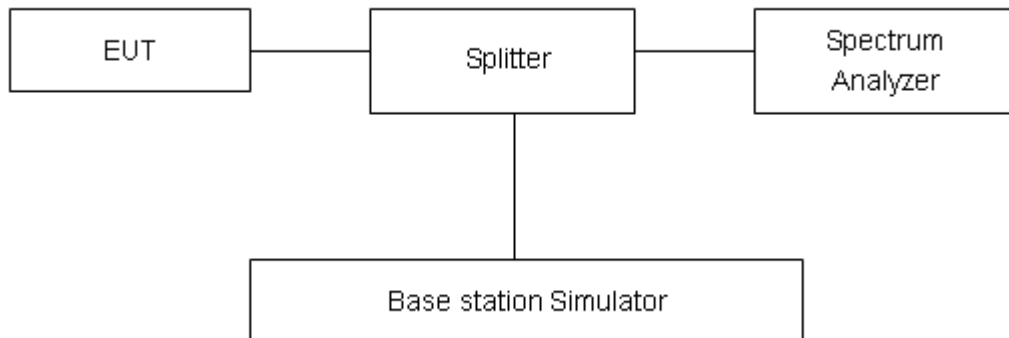
**Ambient condition**

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

**Method of Measurement**

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured. The Average detector is used and RBW is set to 3kHz, VBW is set to 10kHz for GSM 1900. Spectrum analyzer plots are included on the following pages.

**Test Setup**



**Limits**

Rule Part 24.238(a) specifies that “on any frequency outside a licensee’s frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10} (P)$  dB.”

Limit	-13 dBm
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**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U=0.684$ dB.

# TA Technology (Shanghai) Co., Ltd. Test Report

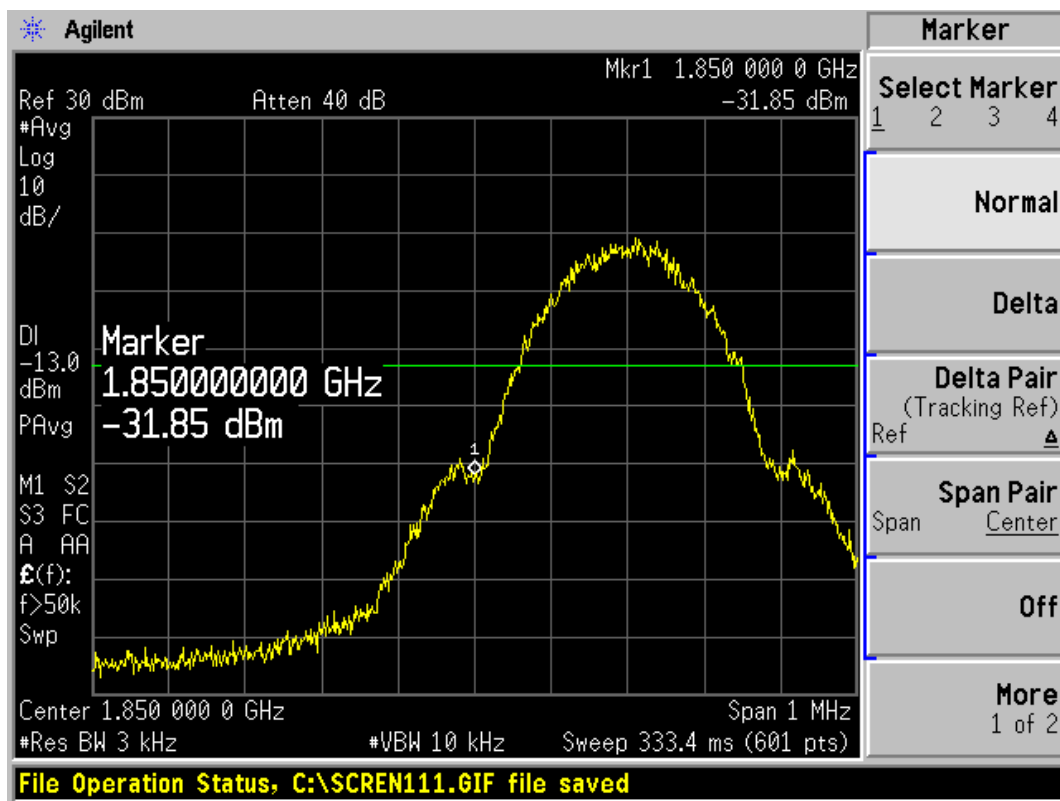
Registration Num:428261

Report No.: RZA1110-1740RF02

Page 20 of 41

**Test Result:**

	Carrier frequency (MHz)	Reference value (dBm)	Limit	Conclusion
<b>GSM 1900+GPRS</b>	1850.0	-31.85	-13	PASS
	1910.0	-32.99	-13	PASS
<b>GSM 1900+EGPRS</b>	1850.0	-30.63	-13	PASS
	1910.0	-32.89	-13	PASS



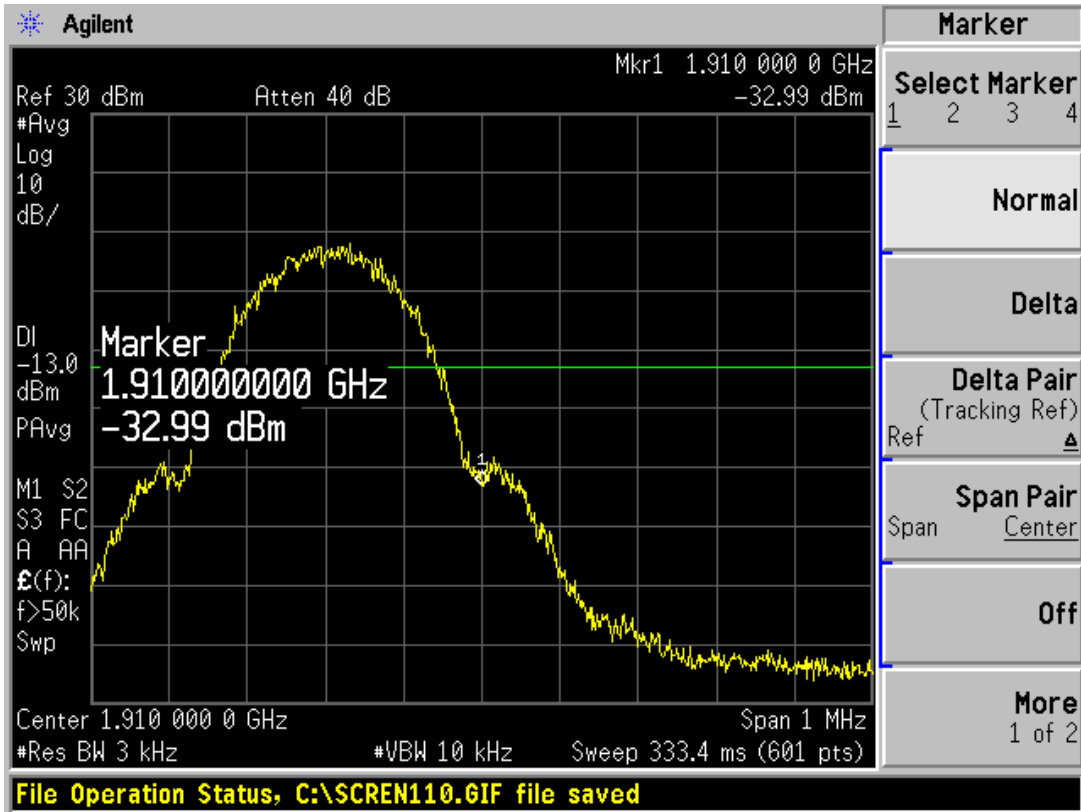
GSM 1900 GPRS 512 Channel

# TA Technology (Shanghai) Co., Ltd. Test Report

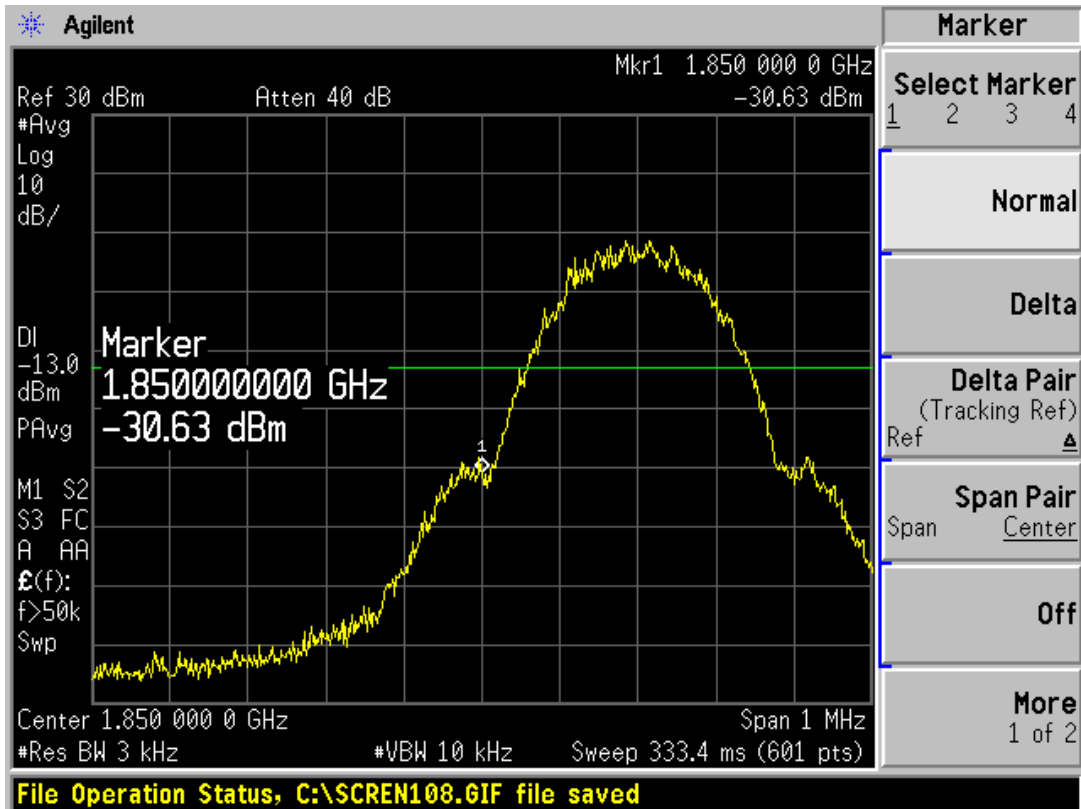
Registration Num:428261

Report No.: RZA1110-1740RF02

Page 21 of 41



GSM1900 GPRS 810 Channel



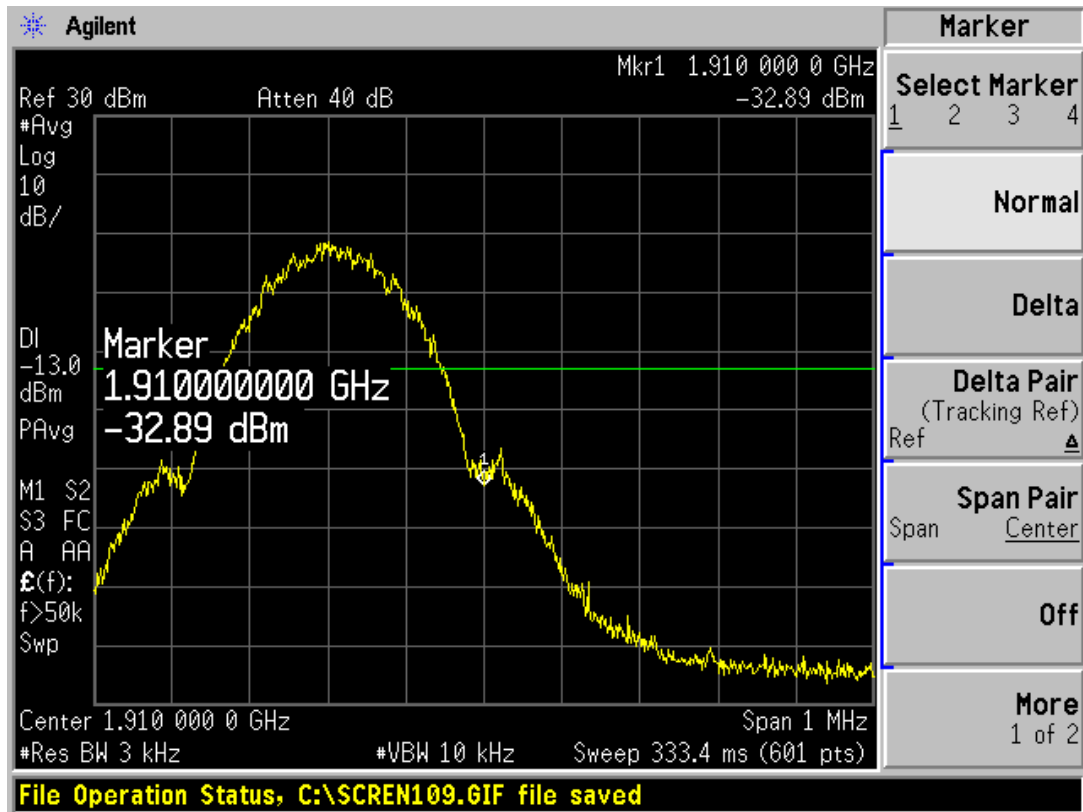
GSM 1900 EGPRS 512 Channel

TA Technology (Shanghai) Co., Ltd.  
Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 22 of 41



GSM1900 EGPRS 810 Channel

**2.6. Frequency Stability**

**Ambient condition**

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

**Method of Measurement**

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,  
 (1) With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

2. Frequency Stability (Voltage Variation)

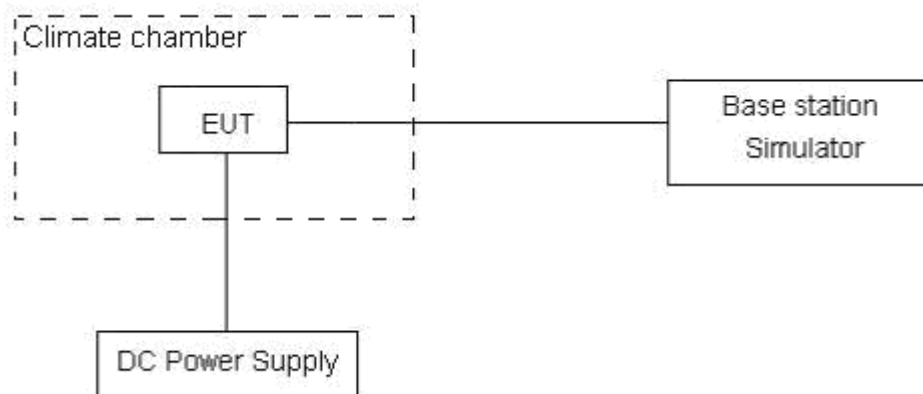
The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.5 V and 4.2 V, with a nominal voltage of 3.7V.

**Test setup**



**Limits**

No specific frequency stability requirements in part 24.235

**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor  $k = 3$ ,  $U = 0.01\text{ppm}$ .

**Test Result**

**GPRS 1900**

Temperature (°C)	Test Results (ppm) / 3.7 V Power supply
	Channel 661
-30	0.0412
-20	0.0386
-10	0.0321
0	0.0124
10	0.0154
20	0.0135
30	0.0145
40	0.0162
50	0.0168

Voltage (V)	Test Results(ppm) / 20°C
	Channel 661
3.5	0.0145
3.7	0.0135
4.2	0.0136



# TA Technology (Shanghai) Co., Ltd.

## Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 25 of 41

### EGPRS 1900

Temperature (°C)	Test Results (ppm) / 3.7 V Power supply
	Channel 661
-30	0.0436
-20	0.0421
-10	0.0411
0	0.0395
10	0.0152
20	0.0233
30	0.0264
40	0.0356
50	0.0311

Voltage (V)	Test Results(ppm) / 20°C
	Channel 661
3.5	0.0265
3.7	0.0233
4.2	0.0312

## 2.7. Spurious Emissions at Antenna Terminals

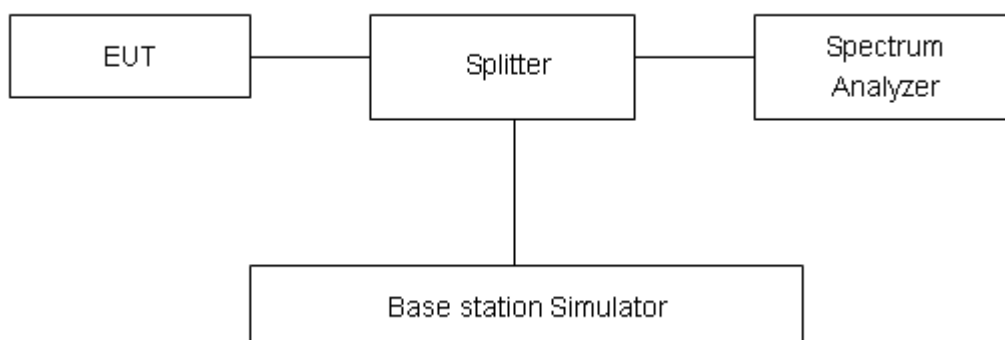
### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

### Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. For GSM 1900, RBW and VBW are set to 100 kHz, Sweep is set to ATUO.

### Test setup



### Limits

Rule Part 24.238(a) specifies that “on any frequency outside a licensee’s frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB.”

Limit	-13 dBm
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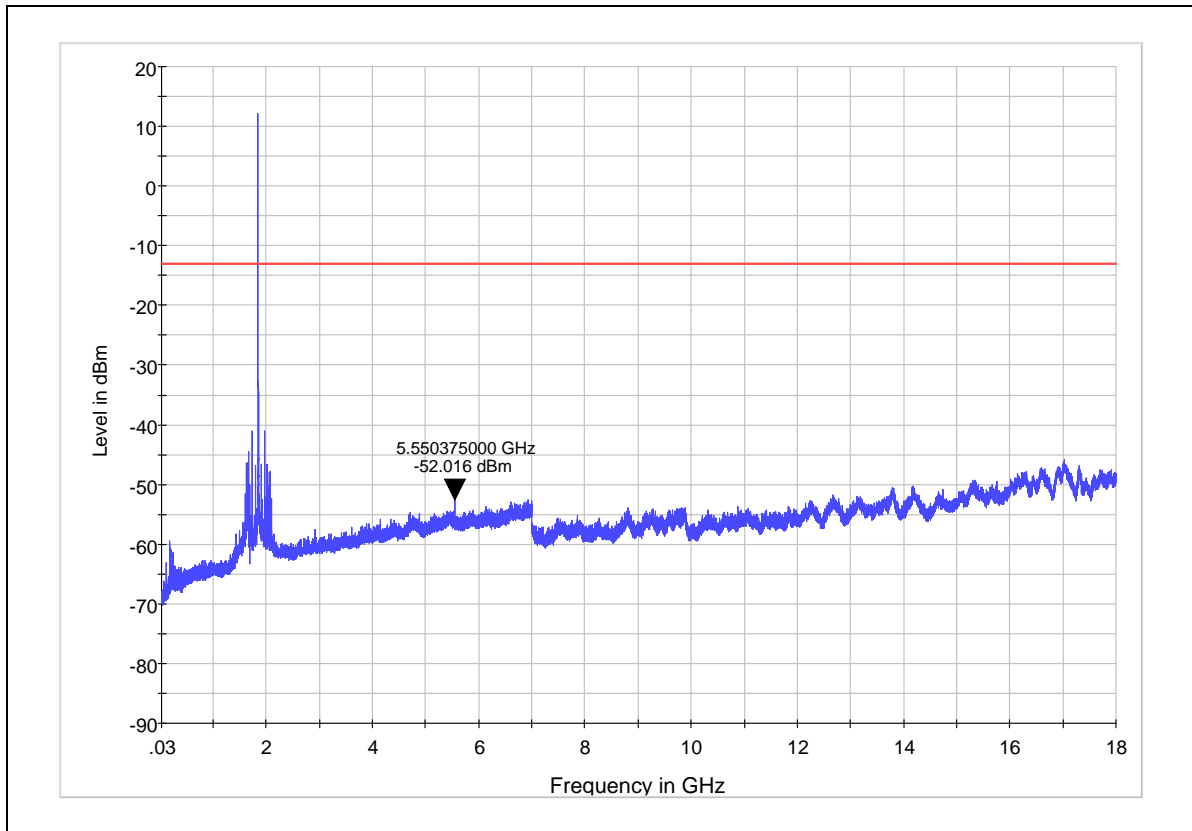
### Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-12.75GHz	1.407 dB

Test Result

GSM 1900 CH 512



Note: The signal beyond the limit is carrier.

GSM 1900 512 Channel 30MHz~18GHz

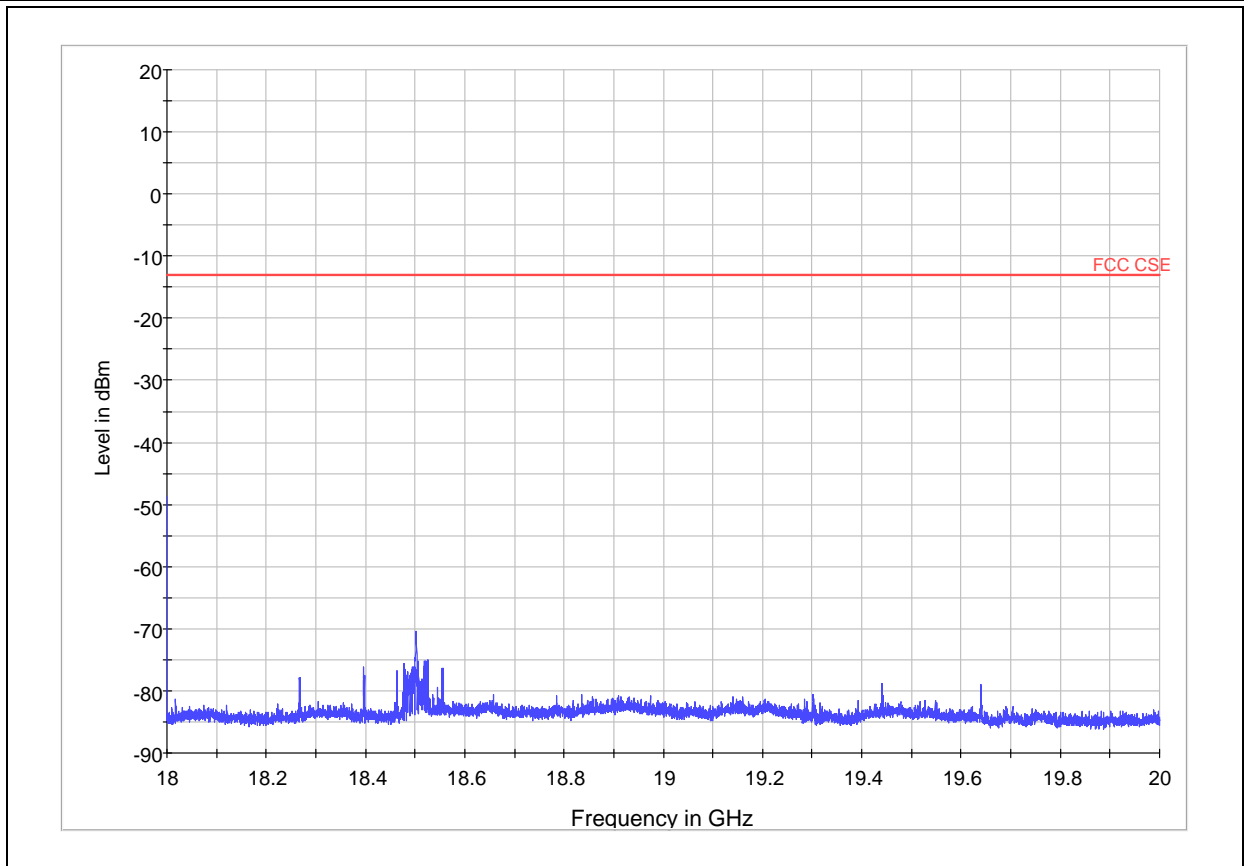
# TA Technology (Shanghai) Co., Ltd.

## Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 28 of 41



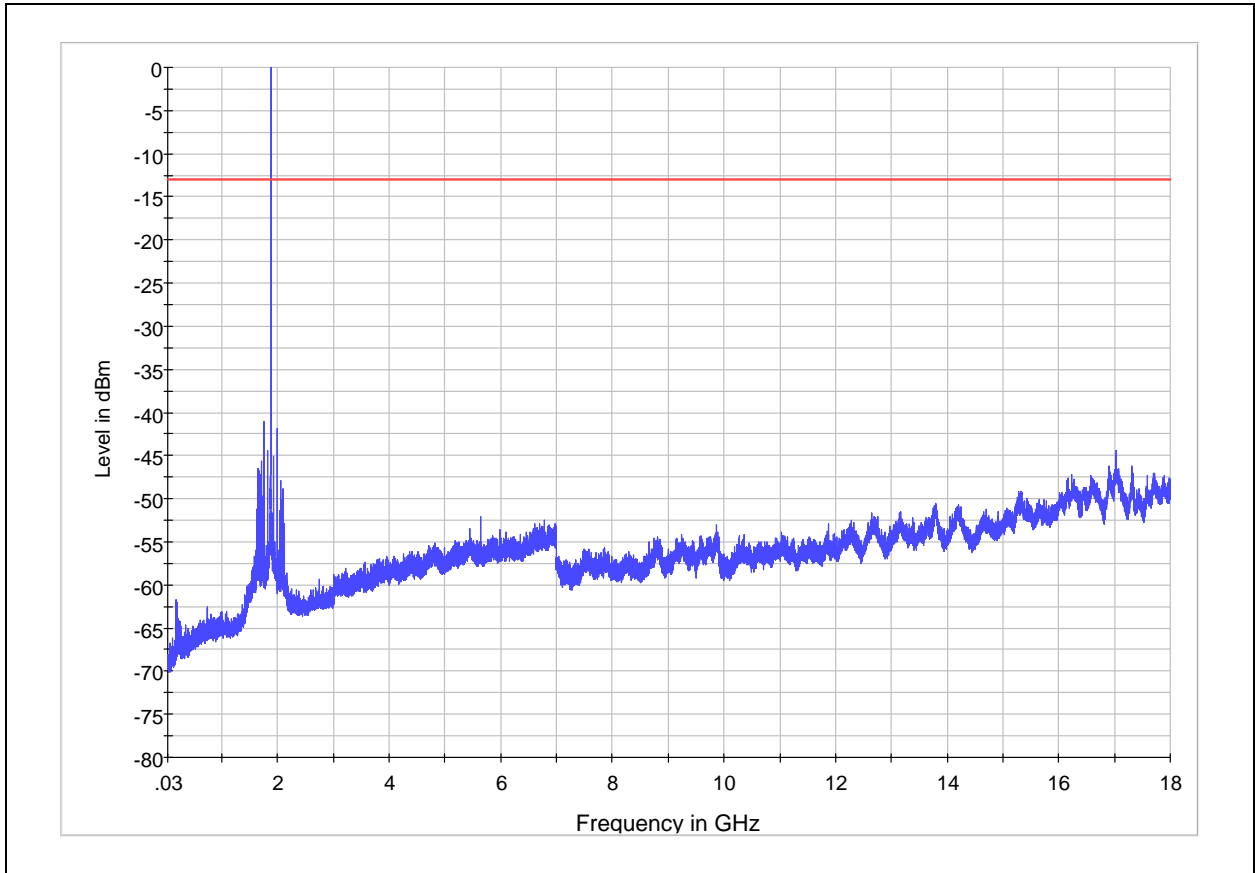
GSM 1900 512 Channel 18GHz~20GHz

Harmonic	TX ch.512 Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
2	3700.4	Nf	-13	/
3	5550.375	-52.016	-13	39.016
4	7400.8	Nf	-13	/
5	9251	Nf	-13	/
6	11101.2	Nf	-13	/
7	12951.4	Nf	-13	/
8	14801.6	Nf	-13	/
9	16651.8	Nf	-13	/
10	18502	Nf	-13	/

Nf: noise floor

Note: The other Spurious RF conducted emissions level is no more than noise floor.

GSM 1900 CH 661



Note: The signal beyond the limit is carrier.  
GSM 1900 661 Channel 30MHz~18GHz

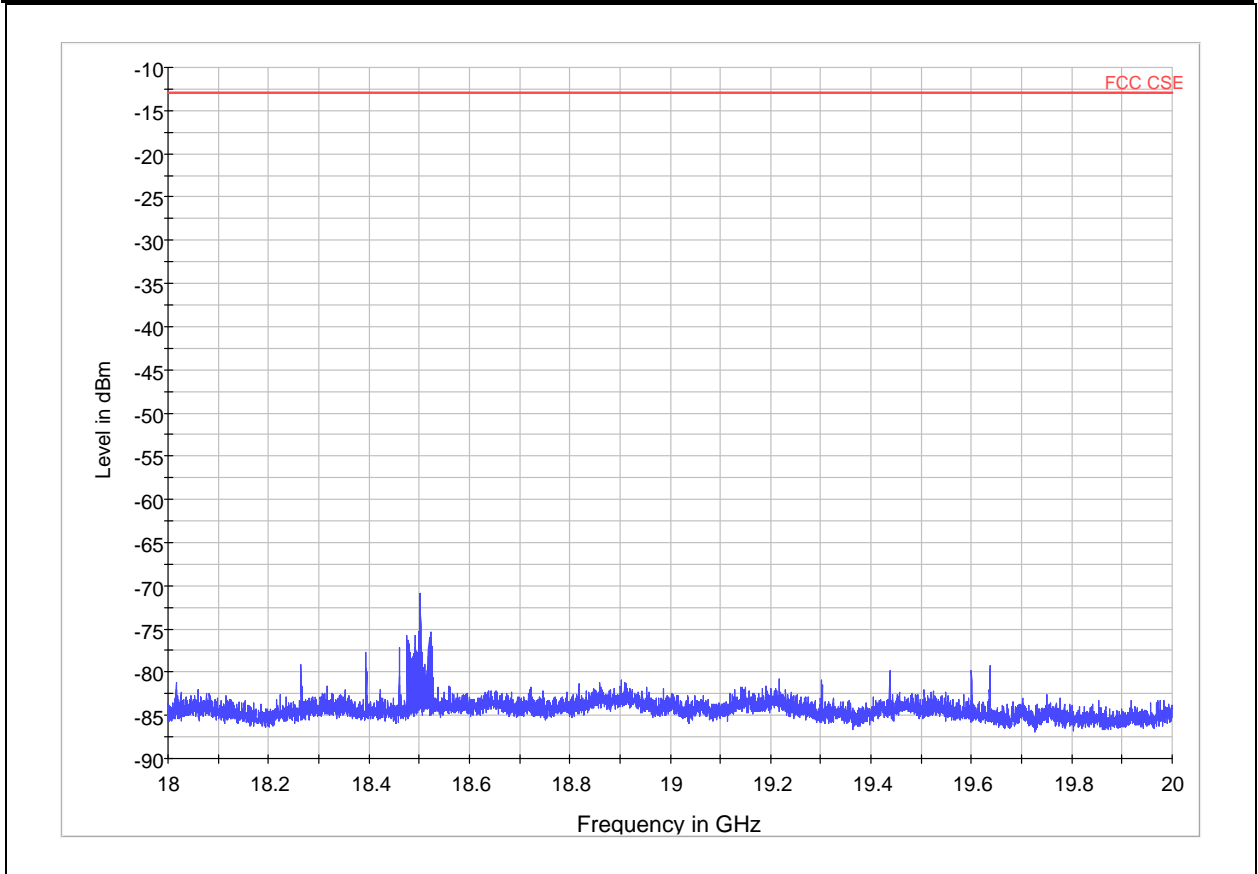
# TA Technology (Shanghai) Co., Ltd.

## Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 30 of 41



GSM 1900 661 Channel 18GHz~20GHz

Harmonic	TX ch.661 Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
2	3760	Nf	-13	/
3	5640	Nf	-13	/
4	7520	Nf	-13	/
5	9400	Nf	-13	/
6	11280	Nf	-13	/
7	13160	Nf	-13	/
8	15040	Nf	-13	/
9	16920	Nf	-13	/
10	18800	Nf	-13	/

Nf: noise floor

Note: The other Spurious RF conducted emissions level is no more than noise floor.

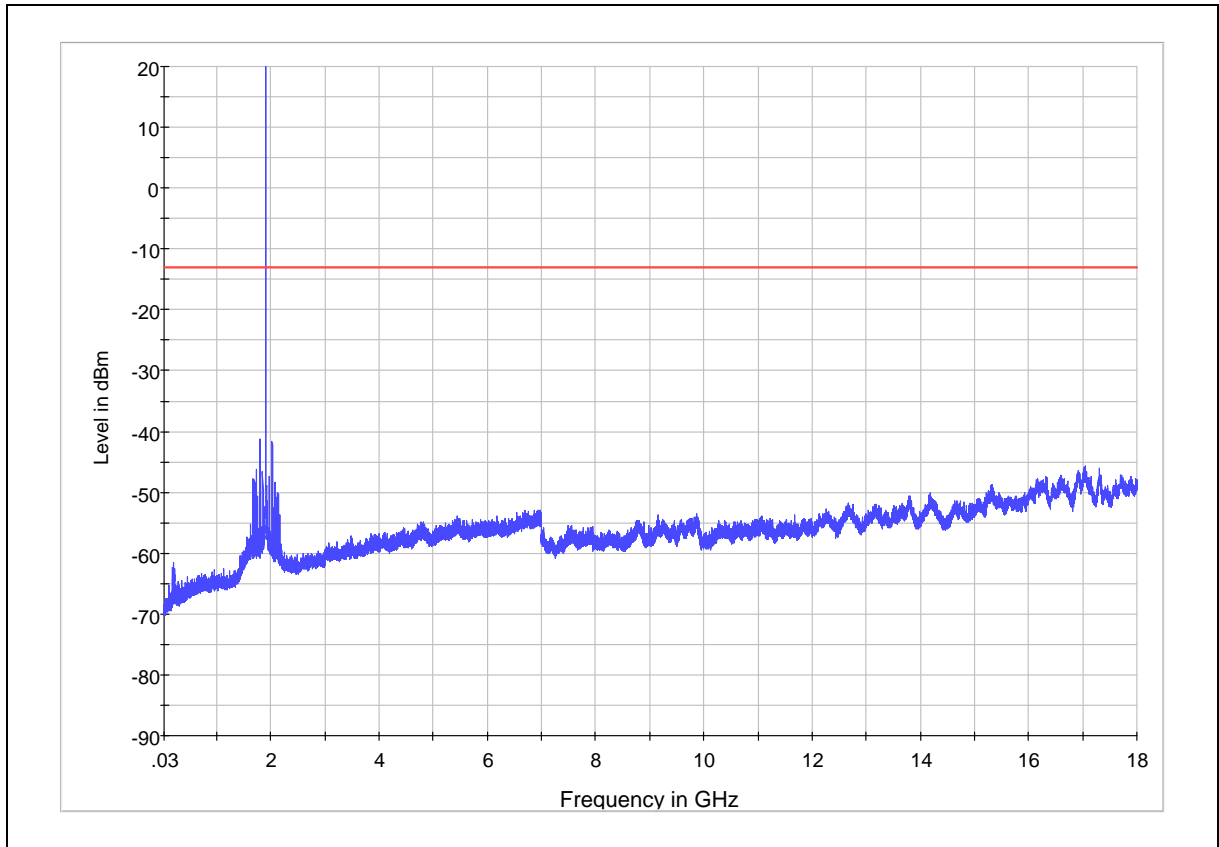
TA Technology (Shanghai) Co., Ltd.  
Test Report

Registration Num:428261

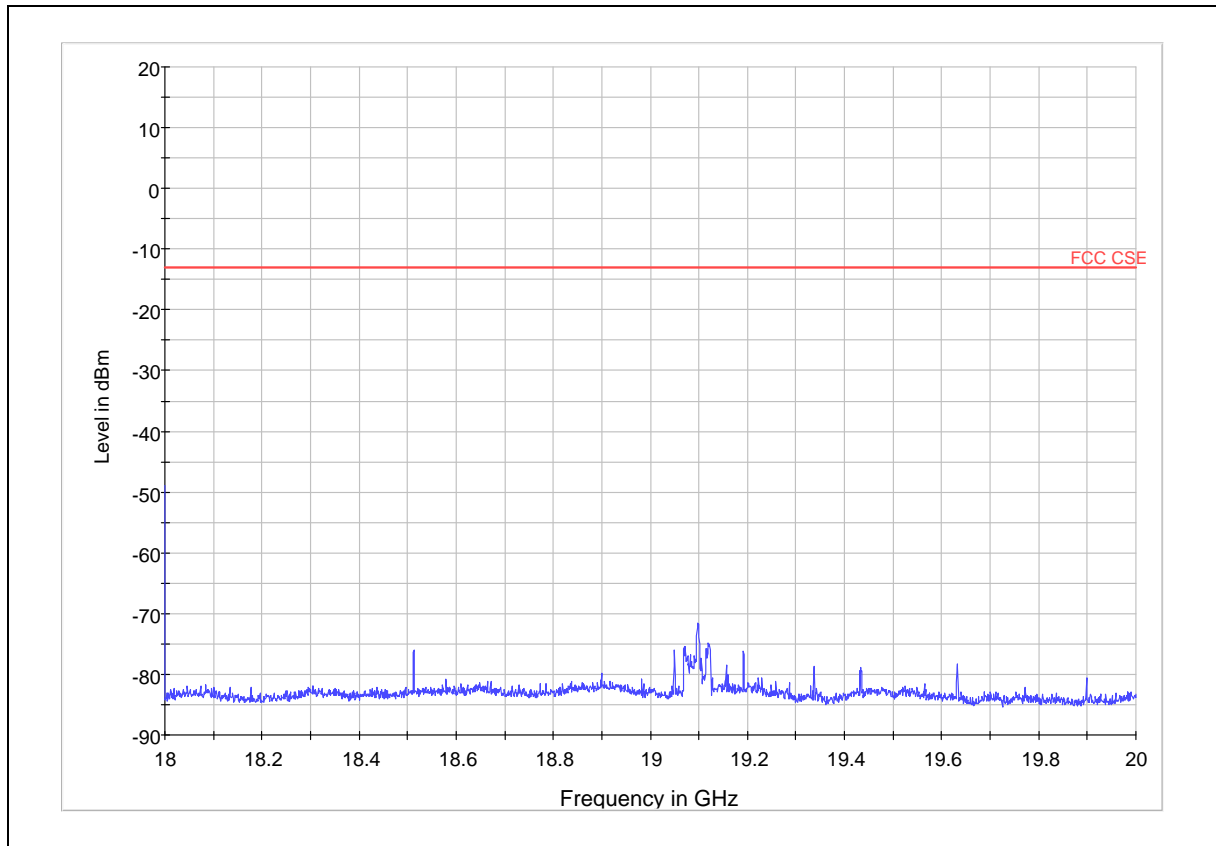
Report No.: RZA1110-1740RF02

Page 31 of 41

GSM 1900 CH 810



Note: The signal beyond the limit is carrier.  
GSM 1900 810 Channel 30MHz~18GHz



GSM 1900 810 Channel 18GHz~20GHz

Harmonic	TX ch.810 Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
2	3819.6	Nf	-13	/
3	5729.4	Nf	-13	/
4	7639.2	Nf	-13	/
5	9549	Nf	-13	/
6	11458.8	Nf	-13	/
7	13368.6	Nf	-13	/
8	15278.4	Nf	-13	/
9	17188.2	Nf	-13	/
10	19098	Nf	-13	/

Nf: noise floor

Note: The other Spurious RF conducted emissions level is no more than noise floor.



# TA Technology (Shanghai) Co., Ltd.

## Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 33 of 41

### 2.1. Radiates Spurious Emission

#### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### Method of Measurement

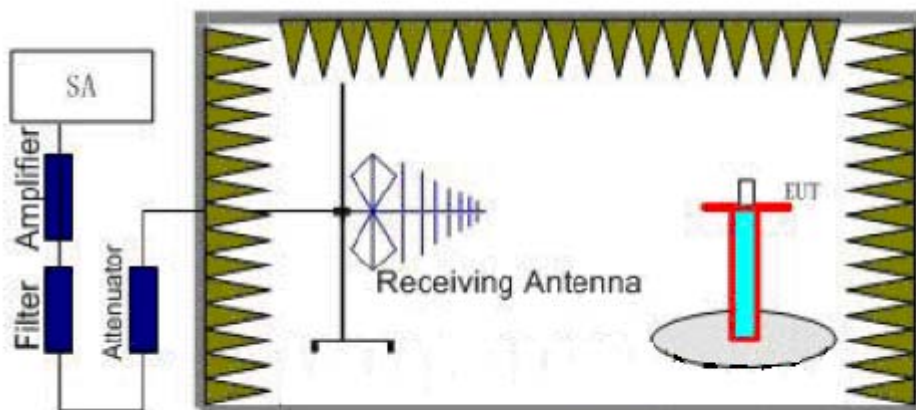
The measurements procedures in TIA -603C are used.

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

The procedure of Radiates Spurious Emission is as follows:

##### Step 1:

The measurement is carried out in the semi-anechoic chamber. EUT was placed on a 0.8 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. 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 while RBW and VBW are both set to 3MHz. During the measurement, the highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna moved up and down over a range from 1 to 4 meters in both horizontally and vertically polarized orientations. The test setup refers to figure below.



##### Step 2:

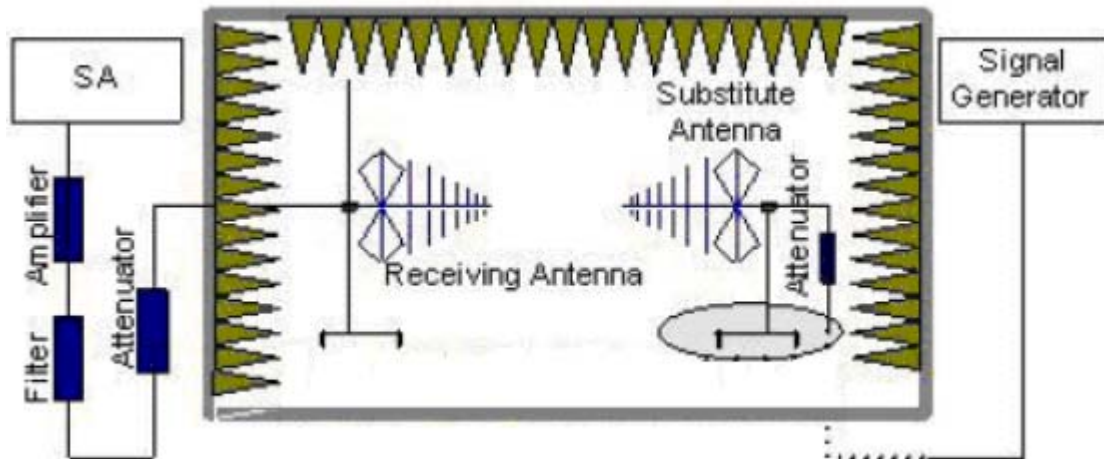
A dipole antenna shall be substituted in place of the EUT. The antenna will be driven by a signal generator with a adjustable S.G. applied through a Tx cable. Adjust the level of the signal generator output until the value of the receiver reach the previously recorded analyzer power level (LVL). Then The E.R.P. /E.I.R.P. of the EUT can be calculated through the level of the signal generator, Tx cable loss and the gain of the substitution antenna. The test setup refers to figure below.

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 34 of 41



E.R.P (peak power) =S.G. - Tx Cable loss + Substitution antenna gain – 2.15.  
 EIRP= E.R.P+2.15

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the antenna is vertical.

**Limits**

Rule Part 24.238(a) specifies that “on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log10 (P) dB.”

Limit	-13 dBm
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**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U = 3.55$  dB.

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 35 of 41

**Test Result**

GSM 1900 CH 512

Harmonic	TX ch.512 Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3700.4	-48.2	5.1	7.25	-48.2	-13	35.2	180
3	5550.6	/	/	/	Nf	-13	/	/
4	7400.8	/	/	/	Nf	-13	/	/
5	9251	/	/	/	Nf	-13	/	/
6	11101.2	/	/	/	Nf	-13	/	/
7	12951.4	/	/	/	Nf	-13	/	/
8	14801.6	/	/	/	Nf	-13	/	/
9	16651.8	/	/	/	Nf	-13	/	/
10	18502	/	/	/	Nf	-13	/	/

Nf: noise floor

Note: The other Spurious RF Radiated emissions level is no more than noise floor.

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 36 of 41

GSM 1900 CH 661

Harmonic	TX ch.661 Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760	-51.12	5.1	11.05	-47.32	-13	34.32	135
3	5640	/	/	/	Nf	-13	/	/
4	7520	/	/	/	Nf	-13	/	/
5	9400	/	/	/	Nf	-13	/	/
6	11280	/	/	/	Nf	-13	/	/
7	13160	/	/	/	Nf	-13	/	/
8	15040	/	/	/	Nf	-13	/	/
9	16920	/	/	/	Nf	-13	/	/
10	18800	/	/	/	Nf	-13	/	/

Nf: noise floor

Note: The other Spurious RF Radiated emissions level is no more than noise floor.

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 37 of 41

GSM 1900 CH 810

Harmonic	TX ch.810 Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3819.6	-53.79	6.1	11.05	-50.99	-13	37.99	135
3	5729.4	/	/	/	Nf	-13	/	/
4	7639.2	/	/	/	Nf	-13	/	/
5	9549	/	/	/	Nf	-13	/	/
6	11458.8	/	/	/	Nf	-13	/	/
7	13368.6	/	/	/	Nf	-13	/	/
8	15278.4	/	/	/	Nf	-13	/	/
9	17188.2	/	/	/	Nf	-13	/	/
10	19098	/	/	/	Nf	-13	/	/

Nf: noise floor

Note: The other Spurious RF Radiated emissions level is no more than noise floor.

**TA Technology (Shanghai) Co., Ltd.**  
**Test Report**

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 38 of 41

### 3. Main Test Instruments

No.	Name	Type	Manufacturer	Serial Number	Calibration Date	Valid Period
01	Base Station Simulator	CMU200	R&S	118133	2011-05-26	One year
02	Power Splitter	SHX-GF2-2-13	Hua Xiang	10120101	NA	NA
03	Spectrum Analyzer	E4445A	Agilent	MY46181146	2011-06-07	One year
04	Universal Radio Communication Tester	E5515C	Agilent	MY48367192	2011-06-03	One year
05	Signal Analyzer	FSV	R&S	100815	2011-06-27	One year
06	Signal generator	SMR27	R&S	1606.6000.02	2011-06-27	One year
07	EMI Test Receiver	ESCI	R&S	100948	2011-06-30	One year
08	Trilog Antenna	VUBL 9163	SCHWARZB ECK	9163-201	2010-06-29	Two years
09	Horn Antenna	HF907	R&S	100126	2011-07-01	Two years
10	Climatic Chamber	PT-30B	Re Ce	20101891	2010-09-10	Three years
11	Semi-Anechoic Chamber	9.6*6.7*6.6m	ETS-Lindgren	NA	NA	NA
12	EMI test software	ES-K1	R&S	NA	NA	NA

\*\*\*\*\*END OF REPORT BODY\*\*\*\*\*

## ANNEX A: EUT Appearance and Test Setup

### A.1 EUT Appearance



a: EUT

TA Technology (Shanghai) Co., Ltd.  
Test Report

Registration Num:428261

Report No.: RZA1110-1740RF02

Page 40 of 41



b:Battery

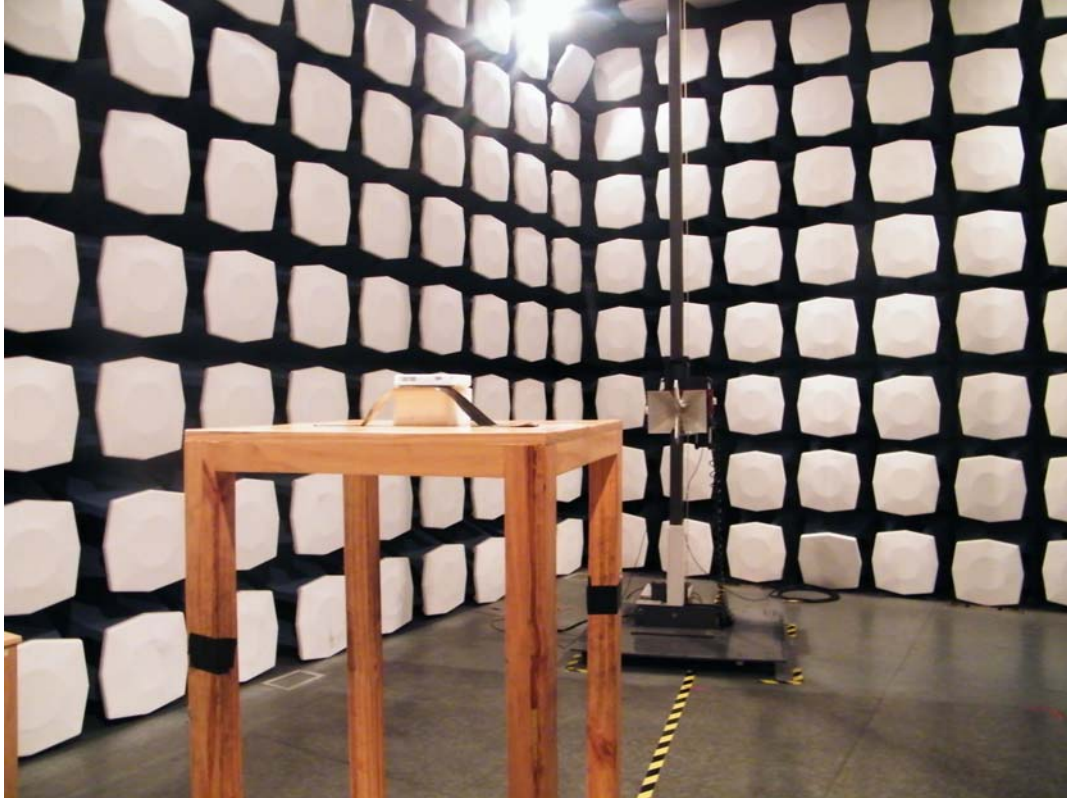


c:Charger

Picture 1 EUT and Auxiliary



## A.2 Test Setup



Picture 2: Radiated Spurious Emissions Test setup