





# RF TEST REPORT

**Applicant** Sagetel Mobiles(Ningbo) Co.,Ltd.

**FCC ID** 2AN42-AX1811

**Product** 2G Feature Phone

**Brand** Sagetel

Model Sagetel AX1811

**Report No.** RXA1711-0379RF02

**Issue Date** December 11, 2017

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC CFR47 Part 2 (2017)/ FCC CFR 47 Part 24E (2017). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Performed by: Jiangpeng Lan

Jiang peng Lan

Approved by: Kai Xu

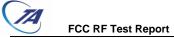
# TA Technology (Shanghai) Co., Ltd.

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# Summary of measurement results

No.	Test Case	Clause in FCC rules	Verdict
1	RF power output	2.1046	PASS
2	Effective Isotropic Radiated power	24.232(c)	PASS
3	Occupied Bandwidth	2.1049	PASS
4	Band Edge Compliance	2.1051 /24.238(a)	PASS
5	Peak-to-Average Power Ratio	24.232/KDB 971168 D01(5.7)	PASS
6	Frequency Stability	2.1055 / 24.235	PASS
7	Spurious Emissions at Antenna Terminals	2.1051 / 24.238(a)	PASS
8	Radiates Spurious Emission	2.1053 / 24.238(a)	PASS

Date of Testing: November 20, 2017~ December 8, 2017

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.



1. Test Laboratory

1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of **TA technology** (shanghai) co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above. This report must not be used by the

client to claim product certification, approval, or endorsement by any government agencies.

1.2. Test facility

CNAS (accreditation number: L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

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# 1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong

City: Shanghai

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# 2. General Description of Equipment under Test

#### **Client Information**

Applicant	Sagetel Mobiles(Ningbo) Co.,Ltd.	
Applicant address	558 Jinzhong Road, Fenghua, China	
Manufacturer	Sagetel Mobiles(Ningbo) Co.,Ltd.	
Manufacturer address	558 Jinzhong Road, Fenghua, China	

### **General information**

EUT Description					
Model	Sagetel AX1811				
IMEI	867721030000353				
Hardware Version	V01				
Software Version	V01				
Power Supply	Battery/AC adapter				
Antenna Type	Internal Antenna				
Test Mode(s)	GSM1900;				
Test Modulation	(GSM)GMSK,				
GSM Multislot Release	R4				
Maximum E.I.R.P	GSM 1900:	29.46dBn	n		
Rated Power Supply Voltage	3.7V				
Extreme Voltage	Minimum: 3.4V Maximum: 4.2V				
Extreme Temperature	Lowest:-10°C Higl	hest: +50°C			
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)		
Operating Frequency Range(s)	GSM1900	1850 ~ 1910	1930 ~ 1990		
	<b>EUT Accessory</b>				
	Manufacturer:Guizhou	Aerospace Powe	r Science & Tech		
Battery	Co., Ltd. Shenzhen Branch.				
Model: 178135649					
Adapter	Manufacturer: Shenzhen Baijunda Electronic Co., Ltd				
·	Model: XT-107A-5065B				
Note: The information of the EUT	is declared by the manu	utacturer.			



# 3. Applied Standards

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

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FCC CFR47 Part 2 (2017)

FCC CFR 47 Part 24E (2017)

ANSI/TIA-603-D (2010)

KDB 971168 D01 Power Meas License Digital Systems v03



# 4. Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (X axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions were investigated. Subsequently, only the worst case emissions are reported.

The following testing in GSM is set based on the maximum RF Output Power.

Test modes are chosen to be reported as the worst case configuration below:

	Test items	Modes/Modulation
	rest items	GSM 1900
	RF power output	GSM
	Occupied Bandwidth	GSM
Conducted	Band Edge Compliance	GSM
Test cases	Peak-to-Average Power Ratio	GSM
	Frequency Stability	GSM
	Spurious Emissions at Antenna Terminals	GSM
Radiated Test cases	Effective Isotropic Radiated power	GSM
Test Cases	Radiates Spurious Emission	GSM

5. Test Case Results

# **5.1.RF Power Output**

#### **Ambient condition**

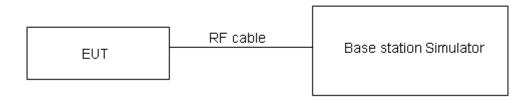
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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#### **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.



### **Test Results**

		Condu	ucted Power(dBm	)
GSM	1900	Channel 512	Channel 661	Channel 810
		1850.2(MHz)	1880(MHz)	1909.8(MHz)
GSM	Results	29.09	29.23	29.20



5.2. Effective Isotropic Radiated Power

#### **Ambient condition**

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

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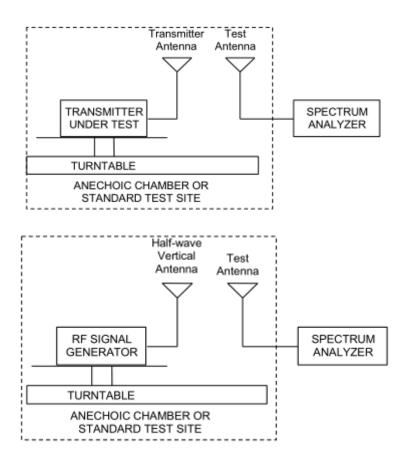
#### **Methods of Measurement**

- 1. The testing follows FCC KDB 971168 v03 Section 5.8 and ANSI/TIA-603-D-2010.
- a) Connect the equipment as illustrated. Mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer specified mounting surface located on a non-conducting rotating platform of a RF anechoic chamber (preferred) or a standard radiation site.
- b) Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment. (Note: several batteries may be needed to offset the effect of battery voltage droop, which should not exceed 5% of the manufactured specified battery voltage during transmission).
- c) Replace the transmitter under test with a vertically polarized half-wave dipole (or an antenna whose gain is known relative to an ideal half-wave dipole). The center of the antenna should be at the same location as the center of the antenna under test.
- d) Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading.LOSS = Generator Output Power (dBm) Analyzer reading (dBm)
- e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation:ERP (dBm) = LVL (dBm) + LOSS (dB)
- f) The maximum ERP is the maximum value determined in the preceding step.
- g) When calculating ERP, in addition to knowing the antenna radiation and matching characteristics, it is necessary to know the loss values of all elements (e.g. transmission line attenuation, mismatches, filters, combiners) interposed between the point where transmitter output power is measured, and the point where power is applied to the antenna. ERP can then be calculated as follows:

ERP (dBm) = Output Power (dBm) - Losses (dB) + Antenna Gain (dBd) where:dBd refers to gain relative to an ideal dipole.

EIRP (dBm) = ERP (dBm) + 2.15 (dB.)

**Test setup** 



#### Limits

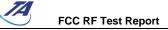
Rule Part 24.232(c) Mobile and portable stations are limited to 2 watts EIRP.

Rule Part 24.232(e) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Limit (EIRP)	≤ 2 W (33 dBm)

### **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 dB



**Test Results:** 

The measurement is performed for both of horizontal and vertical antenna Polarization, and only the data of worst mode is recorded in this report.

Mode	Channel	Frequency (MHz)	Polarization	Output Power (dBm)	Losses (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Conclusion
GSM	Low	1850.2	Horizontal	-29.24	-53.21	1.92	25.89	33	Pass
1900	Mid	1880	Horizontal	-26.94	-53.42	1.94	28.42	33	Pass
1900	High	1909.8	Horizontal	-26.10	-53.67	1.90	29.46	33	Pass

### 5.3. Occupied Bandwidth

#### **Ambient condition**

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

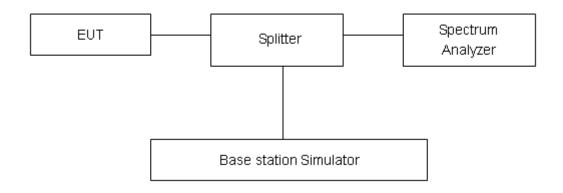
#### **Method of Measurement**

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.

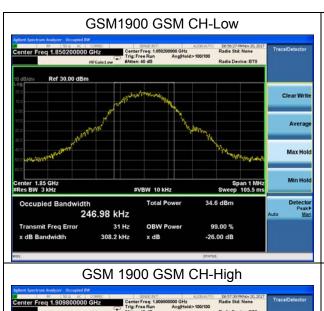
#### **Measurement Uncertainty**

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



#### **Test Result**

Mode	Mode Channel F		99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)	
	512	1850.2	0.24698	0.3082	
GSM 1900 (GSM)	661	1880.0	0.24704	0.3112	
(COM)	810	1909.8	0.24613	0.3061	







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### 5.4. Band Edge Compliance

#### **Ambient condition**

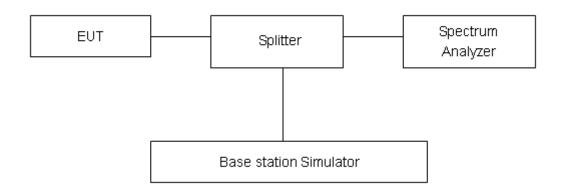
Temperature	Relative humidity	Pressure		
23°C ~25°C	45%~50%	101.5kPa		

#### **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 log10 (P) dB."

Limit	-13 dBm

#### **Measurement Uncertainty**

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





#### **Test Result:**





5.5. Peak-to-Average Power Ratio (PAPR)

#### **Ambient condition**

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

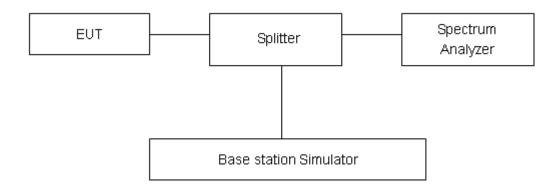
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#### **Methods of Measurement**

Measure the total peak power and record as PPk. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (*e.g.*, dBm). Determine the PAPR from:

PAPR(dB) = PPk(dBm) - PAvg(dBm).

#### **Test Setup**

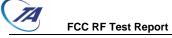


#### Limits

In measuring transmissions in this band using an average power technique, the peakto-average ratio (PAR) of the transmission may not exceed 13 dB in 24.232(d).

#### **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.



### **Test Results**

Mode	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Limit(dB)	Conclusion
GSM 1900 (GSM)	512	1850.2	30.39	29.09	1.30	≤13	PASS
	661	1880.0	30.51	29.23	1.28	≤13	PASS
(55141)	810	1909.8	30.53	29.20	1.33	≤13	PASS



#### 5.6. Frequency Stability

#### **Ambient condition**

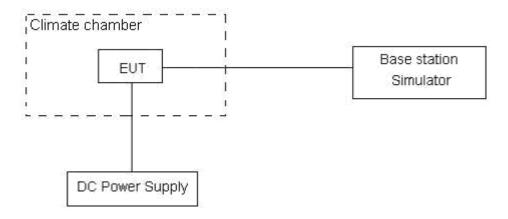
Temperature	Relative humidity	Pressure		
23°C ~25°C	45%~50%	101.5kPa		

#### **Method of Measurement**

- 1. Frequency Stability (Temperature Variation)
- 2. 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 0°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.
- 3. 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 3.4 V and 4.2 V, with a nominal voltage of 3.7V.

#### **Test setup**



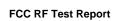
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#### Limits

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= 0.01ppm.





**Test Result** 

Mode	Took etetue	Test Results (ppm)		
Mode	Test status	GSM(GMSK)		
	-30°C/Normal Voltage	-0.0209		
	-20°C/Normal Voltage	-0.0166		
	-10°C/Normal Voltage	-0.0205		
	0°C/Normal Voltage	-0.0167		
0014 4000	10°C/Normal Voltage	-0.0199		
GSM 1900 Middle Channel	20°C/Normal Voltage	-0.0166		
Middle Channel	30°C/Normal Voltage	-0.0208		
	40°C/Normal Voltage	-0.0155		
	50°C/Normal Voltage	-0.0187		
	20°C/Min Voltage	-0.0150		
	20°C/Max Voltage	-0.0173		

### **5.7. Spurious Emissions at Antenna Terminals**

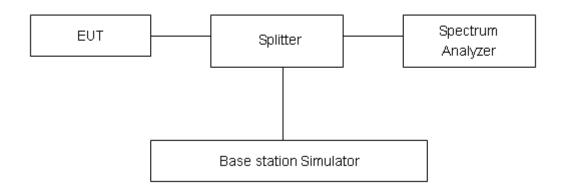
#### **Ambient condition**

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 9kHz to the 10th harmonic of the carrier. The peak detector is used.set RBW 1MHz and VBW is 3MHz, 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 log10 (P) dB."

Limit	-13 dBm
LIIIII	TO GETTI

#### **Measurement Uncertainty**

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

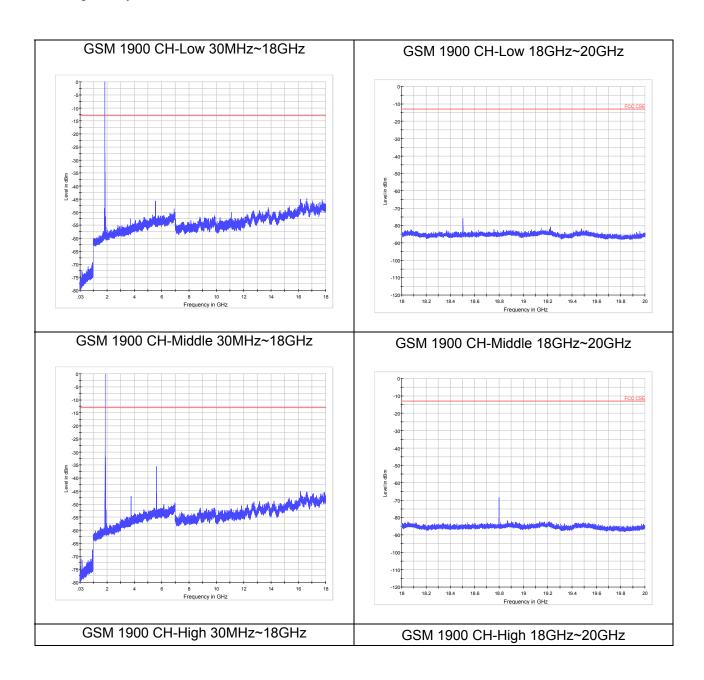
Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-18GHz	1.407 dB



#### **Test Result**

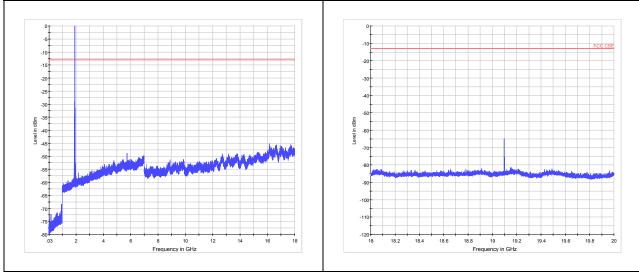
Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

If disturbances were found more than 20dB below limit line, the mark is not required for the EUT. The signal beyond the limit is carrier.









If disturbances were found more than 20dB below limit line, the mark is not required for the EUT. The signal beyond the limit is carrier.



### 5.8. Radiates Spurious Emission

#### **Ambient condition**

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

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#### **Method of Measurement**

- 1. The testing follows FCC KDB 971168 v03 Section 5.8 and ANSI/TIA-603-D-2010.
- 2. The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
- 3. 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.
- 4. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz, And the maximum value of the receiver should be recorded as (Pr).
- 5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust 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.
- 6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- 7. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

The measurement results are amend as described below:

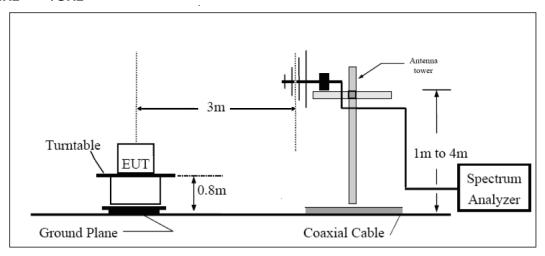
Power(EIRP)=PMea- Pcl + Ga

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



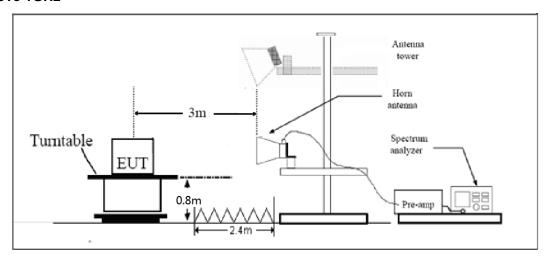
Test setup

#### 30MHz~~~ 1GHz



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#### **Above 1GHz**



Note: Area side: 2.4mX3.6m

The radiated 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 stand-up position (Z axis) and the worst case was recorded.

#### 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.



**Test Result** 

GSM 1900 CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3700.4	-34.99	5.1	11.05	Horizontal	-29.04	-13.0	16.04	225
3	5550.6	-41.53	5.42	12.65	Horizontal	-34.30	-13.0	21.30	0
4	7400.8	-47.90	6.7	13.85	Horizontal	-40.75	-13.0	27.75	90
5	9251.0	-47.42	7.01	14.75	Horizontal	-39.68	-13.0	26.68	0
6	11101.2	-41.31	7.48	15.95	Horizontal	-32.84	-13.0	19.84	90
7	12951.4	-47.39	7.51	16.55	Horizontal	-38.35	-13.0	25.35	135
8	14801.6	-41.96	8.24	15.35	Horizontal	-34.85	-13.0	21.85	270
9	16651.8	-43.81	8.41	14.95	Horizontal	-37.27	-13.0	24.27	225
10	18502.0	-43.41	8.54	15.45	Horizontal	-36.50	-13.0	23.50	135

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Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

### GSM 1900 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.0	-34.25	5.1	11.05	Horizontal	-28.30	-13.0	15.30	270
3	5640.0	-43.05	5.42	12.65	Horizontal	-35.82	-13.0	22.82	135
4	7520.0	-47.66	6.7	13.85	Horizontal	-40.51	-13.0	27.51	90
5	9400.0	-47.63	7.01	14.75	Horizontal	-39.89	-13.0	26.89	225
6	11280.0	-45.40	7.48	15.95	Horizontal	-36.93	-13.0	23.93	180
7	13160.0	-47.46	7.51	16.55	Horizontal	-38.42	-13.0	25.42	45
8	15040.0	-46.47	8.24	15.35	Horizontal	-39.36	-13.0	26.36	225
9	16920.0	-42.99	8.41	14.95	Horizontal	-36.45	-13.0	23.45	180
10	18800.0	-42.71	8.54	15.45	Horizontal	-35.80	-13.0	22.80	45

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

<sup>2.</sup> The worst emission was found in the antenna is Horizontal position.

<sup>2.</sup> The worst emission was found in the antenna is Horizontal position.



# GSM 1900 CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3819.6	-36.13	5.1	11.05	Horizontal	-30.18	-13.0	17.18	315
3	5729.4	-43.85	5.42	12.65	Horizontal	-36.62	-13.0	23.62	270
4	7639.2	-49.75	6.7	13.85	Horizontal	-42.60	-13.0	29.60	135
5	9549.0	-48.94	7.01	14.75	Horizontal	-41.20	-13.0	28.20	90
6	11458.8	-46.96	7.48	15.95	Horizontal	-38.49	-13.0	25.49	225
7	13368.6	-44.09	7.51	16.55	Horizontal	-35.05	-13.0	22.05	180
8	15278.4	-44.26	8.24	15.35	Horizontal	-37.15	-13.0	24.15	45
9	17188.2	-43.62	8.41	14.95	Horizontal	-37.08	-13.0	24.08	225
10	19098.0	-43.61	8.54	15.45	Horizontal	-36.70	-13.0	23.70	180

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Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

<sup>2.</sup> The worst emission was found in the antenna is Horizontal position.

# 6. Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMU200	118133	2017-05-14	2018-05-13
Base Station Simulator	R&S	CMW500	113645	2017-05-14	2018-05-13
Power Splitter	Hua Xiang	SHX-GF2-2-1 3 10120101		2017-05-14	2018-05-13
Spectrum Analyzer	Agilent	N9010A	MY47191109	2017-05-20	2018-05-19
Universal Radio Communication Tester	Agilent	E5515C	MY48367192	2017-05-20	2018-05-19
Signal Analyzer	R&S	FSV30	100815	2016-12-16	2017-12-15
EMI Test Receiver	R&S	ESCI	100948	2017-05-20	2018-05-19
Signal generator	R&S	SMB 100A	102594	2017-05-14	2018-05-13
Signal generator	R&S	SMR27	100365	2017-05-14	2018-05-13
Trilog Antenna	SCHWARZBE CK	VUBL 9163	9163-201	2017-11-18	2020-11-17
Horn Antenna	R&S	HF907	100126	2014-12-06	2019-12-05
Climatic Chamber	Re Ce	PT-30B	20101891	2015-07-18	2018-07-17
Horn Antenna	ETS-Lindgren	3160-09	00102644	2015-01-30	2018-01-29
RF Cable	Agilent	SMA 15cm	0001	2017-08-04	2018-02-03
Preampflier	R&S	SCU18	102327	2017-06-18	2018-06-17
Software	R&S	EMC32	V 8.52.0	NA	NA

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



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# **ANNEX A: EUT Appearance and Test Setup**

# A.1 EUT Appearance



Front Side



Back Side

a: EUT



b: Battery



c: Adapter

**Picture 1 EUT and Accessory** 



# A.2 Test Setup





Picture 2: Radiated Spurious Emissions Test setup