

TEST REPORT

REPORT NUMBER: B06GE4866-FCC-EMC

ON

Type of Equipment: GSM850/ PCS1900 Dual-band Terminal Equipment
Type of Designation: KG112
Manufacturer: LG Electronics (China) R&D Center

ACCORDING TO

**FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO
TREATY MATTERS; GENERAL RULES AND REGULATIONS;
e-CFR, March 23, 2006**

PART 22, PUBLIC MOBILE SERVICES (Oct 1, 02 Edition)

**PART 24, PERSONAL COMMUNICATIONS SERVICES (Oct 1, 97
Edition)**

China Telecommunication Technology Labs.

Month date, year

07 07 2006

Signature



He Guili
Director

FCC ID: UBIKG112

Report Date: 2006-7-3

Test Firm Name: China Telecommunication Technology Labs

Registration Number: 840587

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22 and 24. The sample tested was found to comply with the requirements defined in the applied rules.

CONTENTS

1 GENERAL INFORMATION	4
1.1 NOTES	4
1.2 TESTERS	5
1.3 TESTING LABORATORY INFORMATION	6
1.4 DETAILS OF APPLICANT OR MANUFACTURER	7
2 TEST ITEM	8
2.1 GENERAL INFORMATION.....	8
2.2 OUTLINE OF EUT	8
2.3 MODIFICATIONS INCORPORATED IN EUT.....	8
2.4 EQUIPMENT CONFIGURATION	8
2.5 OTHER INFORMATION.....	9
3 SUMMARY OF TEST RESULTS.....	10
4 TEST RESULTS	11
4.1 RADIATED SPURIOUS EMISSION.....	11
4.2 RADIATED RF POWER OUTPUT AND ERP	14
4.3 OCCUPIED BANDWIDTH	17
4.4 FREQUENCY STABILITY OVER TEMPERATURE VARIATION.....	23
4.5 FREQUENCY STABILITY OVER VOLTAGE VARIATION	26
ANNEX A EXTERNAL PHOTOS.....	28
ANNEX B INTERNAL PHOTOS	30
ANNEX C DEVIATIONS FROM PRESCRIBED TEST METHODS	32

1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22 and 24.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

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FCC Parts 2, 22 and 24
Equipment: kG112

REPORT NO.: B06GE4866-FCC-EMC

1.2 Testers

Name: An Shaogeng
Position: Engineer
Department: Department of EMC test
Duration of the test: From 2006-06-11 to 2006-07-03
Signature: 安少廣

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Position: Engineer
Department: Department of EMC test
Duration of the test: From 2006-06-11 to 2006-07-03
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Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Duration of the test: From 2006-06-11 to 2006-07-03
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Technical responsibility for area of testing:

Name: Zou Dongyi
Position: Manager
Department: Department of EMC test
Date: 2006.7.7
Signature: 邹东屹

1.3 Testing Laboratory information

1.3.1 Location

Name: China Telecommunication Technology Labs.

Address: No. 11, Yue Tan Nan Jie, Xi Cheng District

BEIJING

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1.3.2 Details of accreditation status

Accredited by: China National Accreditation for Laboratory (CNAL)

Registration number: CNAL Registration No.L0570

Standard: ISO/IEC 17025

1.3.3 Test location, where different from section 1.3.1

Name: -----

Street: -----

City: -----

Country: -----

Telephone: -----

Fax: -----

Postcode: -----

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: LG Electronics (China) R&D Center
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1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --
Address: --
City: --
Country: --

2 Test Item

2.1 General Information

Manufacturer: LG Electronics (China) R&D Center

Name: GSM850/ PCS1900 Dual-band Terminal Equipment

Model Number: KG112

Serial Number: 350305260000000

Production Status: Production

Receipt date of test item: 2006-05-27

2.2 Outline of EUT

EUT is a GSM850/ PCS1900 Dual-band Terminal Equipment. It supports GSM and GPRS mode, with the frequency range of 824 MHz to 849 MHz for GSM/GPRS band 850 and 1 850 MHz to 1 910 MHz for GSM/GPRS band 1900. Its modulation type is GMSK.

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	Mobile phone	LG Electronics (China) R&D Center	KG112	350305260 000000	None
B	Adaptor	Best Technology Co.,Ltd	TA-22GR2	050608BE0 0232	None
C	Battery	BYD CO., LTD.	LGTL-GBIP-830 (Li-Ion)	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	1.80m	No	1	None

2.5 Other Information

(a) Multislot Class of GPRS

The multislot class of the GPRS mode is class 10 with 5 active timeslots.

(b) Emission Designator

The emission designator is 280KGXW.

(c) About Power Source

Items	Relative Information
Adaptor	Input: 100-240V AC, 50/60Hz, 0.15-0.1A Output: 5.2V DC, 0.8A
Battery	3.7V 830mAh Charge limit: 4.2V

3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Specification Clause	Name of Test	Result
GSM mode:		
2.1051, 24.238, 2.1053,22.917	Radiated Spurious Emission (GSM mode)	Pass
2.1046,24.232	Radiated RF Power Output (GSM mode)	Pass
22.913(a)	Effective Radiated Power (ERP) (GSM mode)	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth (GSM mode)	*Note 1
2.1055,22.355, 24.235	Frequency Stability over Temperature Variation (GSM mode)	Pass
2.1055,22.355, 24.235	Frequency Stability over Voltage Variation (GSM mode)	Pass
GPRS mode:		
2.1051, 24.238, 2.1053,22.917	Radiated Spurious Emission (GPRS mode)	Pass
2.1046,24.232	Radiated RF Power Output (GPRS mode)	Pass
22.913(a)	Effective Radiated Power (ERP)(GPRS mode)	Pass
2.1049,22.917(b), 24.238(b)	Occupied Bandwidth (GPRS mode)	*Note 1
2.1055,22.355, 24.235	Frequency Stability over Temperature Variation (GPRS mode)	Pass
2.1055,22.355, 24.235	Frequency Stability over Voltage Variation (GPRS mode)	Pass
Note 1: No applicable performance criteria. Note 2: The Power Output Conducted is not tested since the antenna of the EUT is internal integrated and is not removable or can't readily access to the connection point.		

4 Test Results

4.1 Radiated Spurious Emission

Specifications:	2.1051, 24.238,2.1053,22.917					
Date of Tests	2006.06.11					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2007-01-04	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2007-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2007-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3 m	--	2007-11-17	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2007-02-23	Normal

Limit Level Construction:

According to Part 24.238 (a), i.e., Out of band emissions. 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, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

The EUT was placed in an anechoic chamber, see figure SP. The CMU 200 was used to set the TX channel and power level and modulate the TX signal with different bit patterns. The test was done using an automated test system, where all test equipments were controlled by a computer.

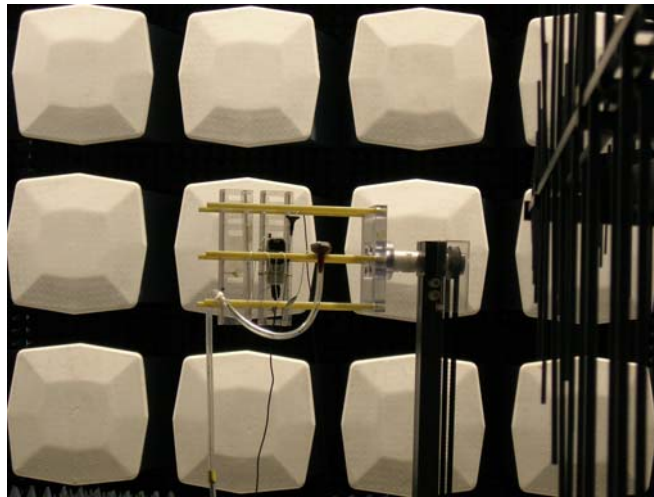


Figure SP

Test Method:

1 The maximum spurious emissions were searched by turning the azimuth of the turntable, shifting the polarization of the measuring antenna and changing the pose of the EUT.

2 Levels of EUT's transmitter harmonics and suspicious signals were recorded.

3 The recorded levels were corrected in the automated test system with the correction factors given by a substitution calibration made before the measurement. The calibration was made separately for vertical and horizontal polarization and the system uses different correction factors depending on the measuring antenna polarization.

4 The corrected values of radiated spurious emissions indicated as EIRP are reported.

Note:

1 A fully charged battery was used during the test.

2 The investigated ARFCNs are 190 (836.6 MHz) and 661 (1880.0 MHz), which are the middle channel of GSM 850 MHz band and PCS 1900 MHz band respectively.

3 The investigated frequency range is 30 MHz ~ 20 GHz, including out of band emission and band-edge emission measurements.

Test Results for GSM mode:

Out of band emission			
Frequency [MHz]	SPU emission [dBm]	EUT pose [H/V]	Antenna Polarization [H/V]
3346.4	-50.2	V	H
3346.4	-43.2	V	V
4183.0	-51.9	V	V
3760.0	-52.6	V	H
9400.0	-38.2	V	H
5640.0	-39.5	H	H
9400.0	-42.4	V	V
7520.0	-45.0	H	V
9400.0	-37.2	H	V
Band-edge emission			
EUT Channel	Level [dBm]		
190	-13.56		
661	-15.39		

Test Results for GPRS mode:

Out of band emission			
Frequency [MHz]	SPU emission [dBm]	EUT pose [H/V]	Antenna Polarization [H/V]
1673.3	-46.2	V	H
2509.8	-51.2	V	H
1673.3	-46.8	V	V
9202.6	-38.3	V	V
Band-edge emission			
EUT Channel	Level [dBm]		
190	-15.32		
661	-14.36		

4.2 Radiated RF Power Output and ERP

Specifications:	2.1046,24.232,22.913(a)					
Date of Tests	2006.06.11					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 128, 190, 251, 512, 661 and 810					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2007-01-04	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2007-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2007-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2007-11-17	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2007-02-23	Normal

Limit Level Construction:

(a) Radiated RF Power Output

According to Part 24.232(b), i.e., Mobile/portable stations are limited to 2 watts EIRP peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications, so the limit level is 2 W or 33 dBm.

(b) ERP

According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

Limits for Radiated RF Power Output

Frequency range	Limit Level (EIRP)/Resolution Bandwidth
TX channel	33dBm/1MHz
Limits for ERP	
Frequency range	Limit Level (ERP)
TX channel	7W

Test Setup:

The EUT was set in an anechoic chamber, see Figure P. In the corner of the chamber there is a communication antenna, which is connected to the CMU 200 located outside the chamber. The test was done using an automated test system, where all test equipments were controlled by a computer.

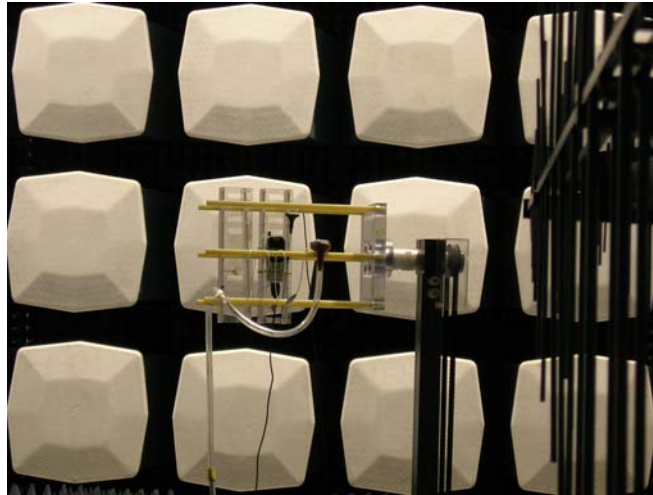


Figure P

Test Method

- 1 The maximum power was searched by turning the azimuth of the turntable, shifting the polarization of the measuring antenna and changing the pose of the EUT.
- 2 The measured levels are EIRP values corrected in the automated test system with the correction factors given by a substitution calibration made before the measurement. The calibration is made separately for vertical and horizontal polarization and the system uses different correction factors depending on the measuring antenna polarization.
- 3 The corrected maximum levels were reported for EIRP values, and ERP values can be calculated from EIRP values.

Note:

- 1 A fully charged battery was used during the test.
- 2 For GSM 850 MHz band, the ARFCN 128 (824.2 MHz), 190 (836.6 MHz) and 251 (848.8 MHz) are investigated, which are the lowest, middle and highest channel. For PCS 1900 MHz band, the ARFCN 512 (1850.2 MHz), 661 (1880.0 MHz) and 810 (1909.8 MHz) are investigated, which are the lowest, middle and highest channel.
- 3 $ERP\text{ dBm} = EIRP\text{ dBm} - 2.15\text{dB}$.

ERP Value for GSM 850 band mode:

ARFCN	Frequency [MHz]	ERP [dBm]
128	824.22	22.02
190	836.70	23.52
251	848.70	19.86

EIRP Value for PCS 1900 band mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
512	1850.26	8.89
661	1879.72	13.77
810	1909.72	9.80

ERP Value for GPRS 850 band mode:

ARFCN	Frequency [MHz]	ERP [dBm]
128	824.60	10.54
190	836.58	5.50
251	848.88	3.37

EIRP Value for GPRS 1900 band mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
512	1850.13	24.78
661	1879.07	24.07
810	1909.77	23.89

4.3 Occupied bandwidth

Specifications:	2.1049,22.917(b),24.238(b)					
Date of Test	2006.06.13					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 128, 190, 251, 512, 661 and 810					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2007-01-04	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2007-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2007-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3 m	--	2007-11-17	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2007-02-23	Normal

Test Setup

The situation under which maximum EIRP values were found in the measurement of the radiated RF power output was used to determine the 99% occupied bandwidth. The CMU 200 was used to set the TX channel, power level and modulation.

Test Method

The 99% occupied bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power band, see screenshots.

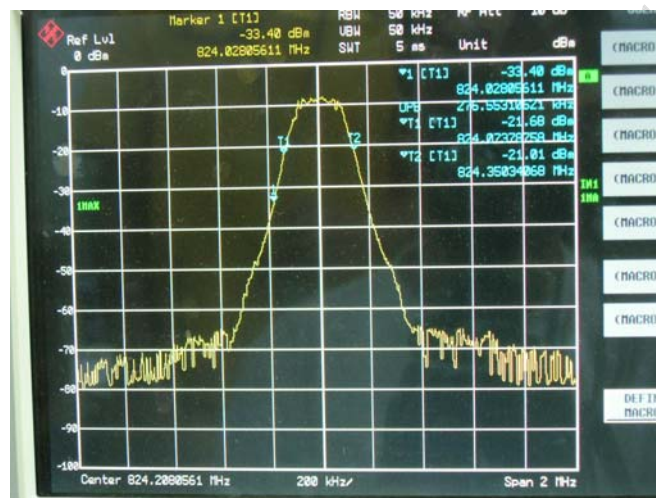
Note:

- 1 A fully charged battery was used during the test.
- 2 The ARFCN 128, 190 and 251 for GSM 850 MHz band and 512, 661 and 810 for PCS 1900 MHz band are investigated.

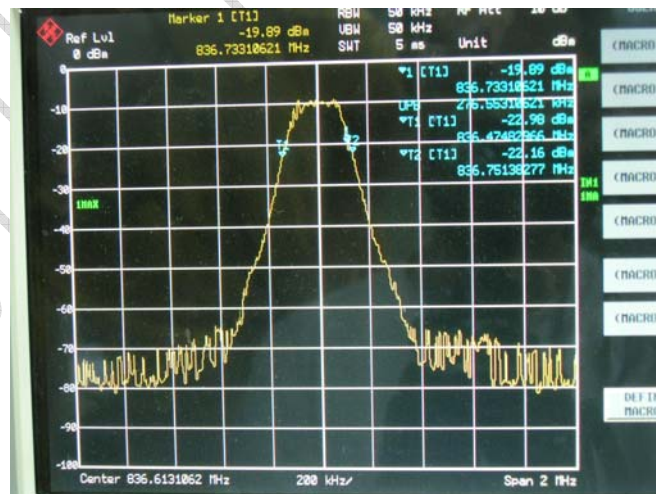
4.3.1 Results for GSM mode:

EUT channel	99% occupied bandwidth [kHz]
128	276.553
190	276.553
251	272.545
512	272.545
661	276.553
810	276.553

Screenshots:



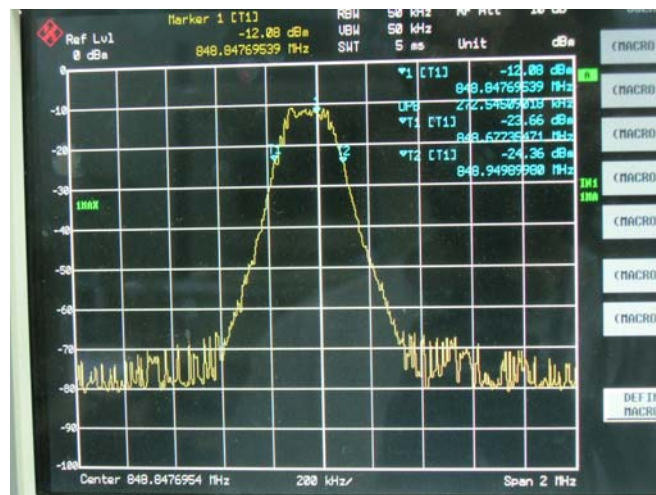
Screenshot 1 Channel 128



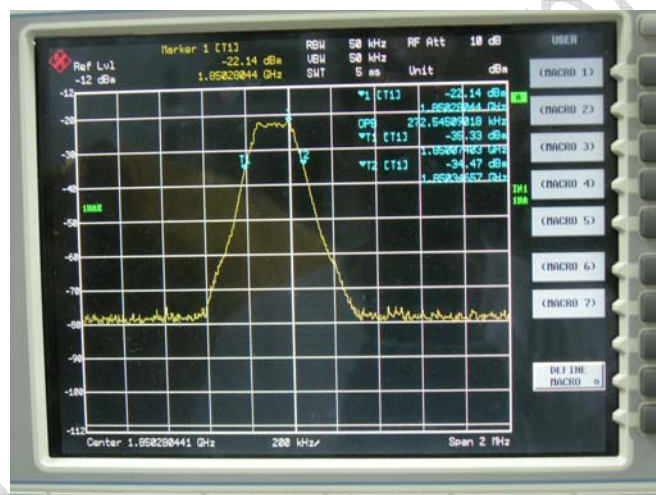
Screenshot 2 Channel 190

FCC Parts 2, 22 and 24
Equipment: kG112

REPORT NO.: B06GE4866-FCC-EMC



Screenshot 3 Channel 251



Screenshot 4 Channel 512



Screenshot 5 Channel 661

FCC Parts 2, 22 and 24
Equipment: kG112

REPORT NO.: B06GE4866-FCC-EMC

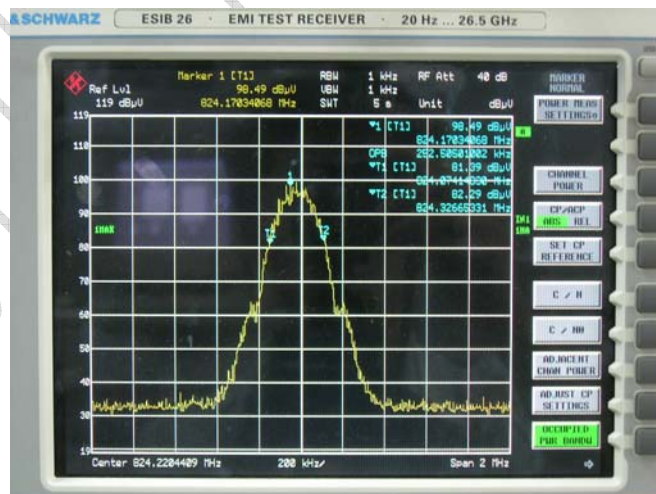


Screenshot 6 Channel 810

4.3.2 Results for GPRS mode:

EUT channel	99% occupied bandwidth [kHz]
128	252.505
190	244.489
251	248.497
512	246.493
661	244.489
810	248.497

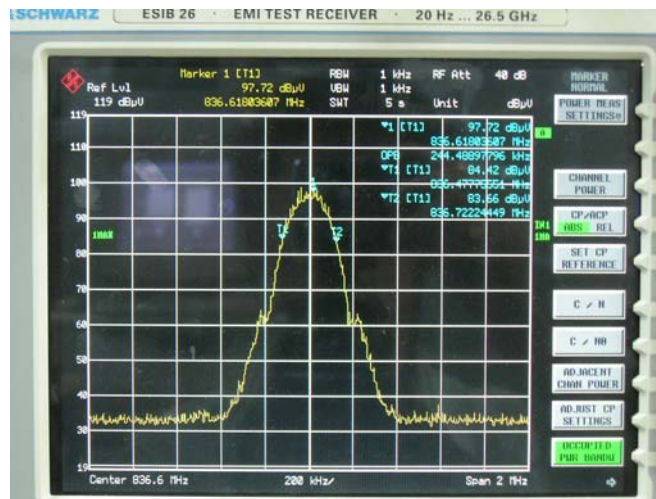
Screenshots:



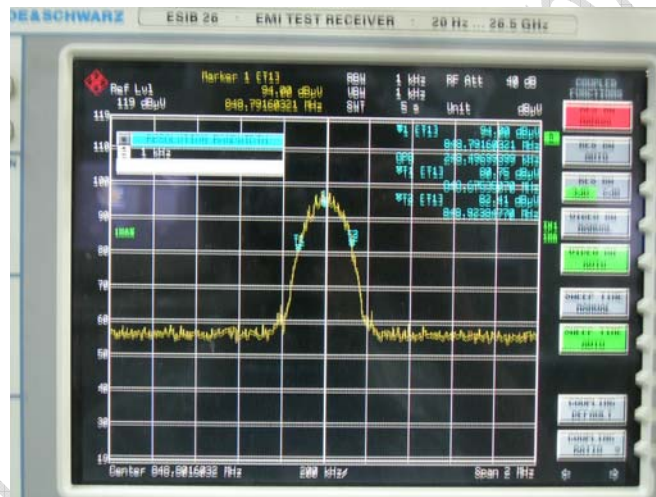
Screenshot 7 Channel 128

FCC Parts 2, 22 and 24
Equipment: kG112

REPORT NO.: B06GE4866-FCC-EMC



Screenshot 8 Channel 190



Screenshot 9 Channel 251



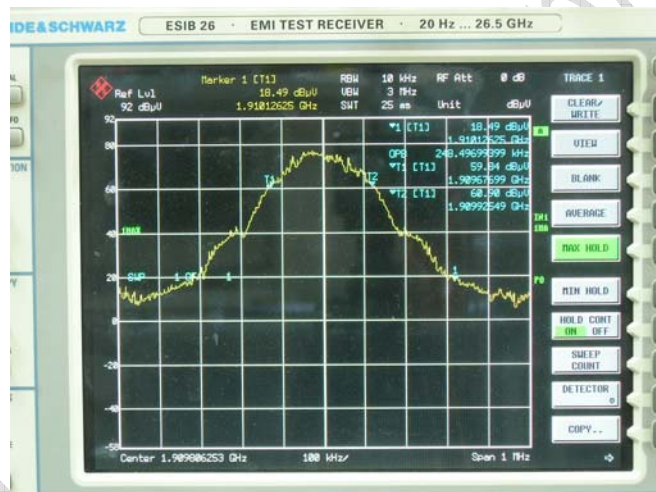
Screenshot 10 Channel 512

FCC Parts 2, 22 and 24
Equipment: kG112

REPORT NO.: B06GE4866-FCC-EMC



Screenshot 11 Channel 661



Screenshot 12 Channel 810

4.4 Frequency Stability over Temperature Variation

Specifications:	2.1055,22.355,24.235					
Date of Test	2006.06.17~2006.06.18					
Test conditions:	Ambient Temperature: -30℃-50℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7330	Universal Radio Communication s Tester	R&S	CMU200	100233	2007-02-23	Normal
7330	Universal Radio Communication s Tester	R&S	CMU200	100233	2007-02-23	Normal
7353-2	DC power	Agilent.	66319B	MY43000149	2007-03-03	Normal
Limit						
Frequency deviation [ppm]		±2.5				

Test Setup

The EUT was placed in a temperature chamber, demonstrated as figure T. The CMU 200 was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX. A dummy battery powered by a DC power supply is used to provide a constant power source.

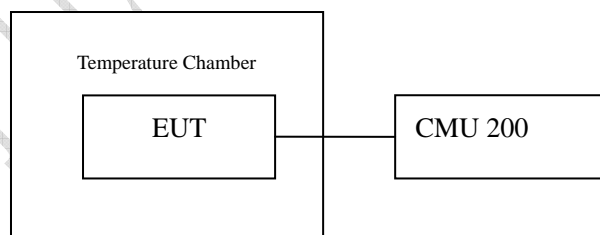


Figure T: setup for measurement of frequency stability over temperature variation

Test Method

1. The EUT was turned off and placed in the temperature chamber.
2. The temperature of the chamber was set to -30℃ and allowed to stabilize.
3. The EUT temperature was allowed to stabilize for 45 minutes.
4. The EUT was turned on and set to transmit with CMU 200.

5. The maximum transmit frequency deviation during one minute period was measured by CMU 200.
6. The steps 3-5 were repeated for -20°C, -10°C, 0°C, 10°C, 20°C, 30°C, 40°C and 50°C.

4.4.1 Test results for GSM mode

The frequency deviation from the centre frequency over temperature variation is showed as table T1 and T2 for channel 190 and 661 respectively.

Table T1: frequency deviation from the centre frequency over temperature variation for channel 190

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	68	0.08	Pass
-20	36	0.04	Pass
-10	41	0.05	Pass
0	-45	-0.05	Pass
10	38	0.05	Pass
20	33	0.04	Pass
30	36	0.04	Pass
40	21	0.03	Pass
50	23	0.03	Pass

Table T2: frequency deviation from the centre frequency over temperature variation for channel 661

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	72	0.04	Pass
-20	110	0.06	Pass
-10	74	0.04	Pass
0	53	0.03	Pass
10	45	0.02	Pass
20	80	0.04	Pass
30	60	0.03	Pass
40	88	0.05	Pass
50	44	0.02	Pass

4.4.2 Test results for GPRS mode

The frequency deviation from the centre frequency over temperature variation is showed as table T3 and T4 for channel 190 and 661 respectively.

Table T3: frequency deviation from the centre frequency over temperature variation for channel 190

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	-107	-0.13	Pass
-20	-96	-0.11	Pass
-10	89	0.11	Pass
0	83	0.10	Pass
10	-113	-0.14	Pass
20	83	0.10	Pass
30	39	0.05	Pass
40	-76	-0.09	Pass
50	-53	-0.06	Pass

Table T4: frequency deviation from the centre frequency over temperature variation for channel 661

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	-76	-0.04	Pass
-20	-43	-0.02	Pass
-10	37	0.02	Pass
0	-56	-0.03	Pass
10	47	0.03	Pass
20	26	0.01	Pass
30	39	0.02	Pass
40	-67	-0.04	Pass
50	-89	-0.05	Pass

4.5 Frequency Stability over Voltage Variation

Specifications:	2.1055,22.355,24.235					
Date of Test	2006.06.19					
Test conditions:	Ambient Temperature: 15°C-35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 190 and 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7330	Universal Radio Communication s Tester	R&S	CMU200	100233	2007-02-23	Normal
7353-2	DC power	Agilent.	66319B	MY43000149	2007-03-03	Normal
Limit						
Frequency deviation [ppm]		±2.5				

Test Setup

The EUT was placed in a shielding chamber and powered by an adjustable DC power supply, demonstrated as figure V. The CMU 200 was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX.

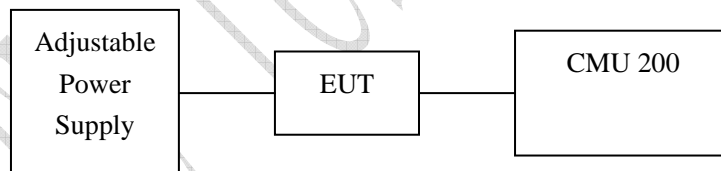


Figure V: test setup for measurement of frequency stability over voltage variation

Test Method

The EUT battery was replaced with an adjustable DC power supply. The frequency stability measured at nominal voltage and at the cut-off point.

Test Results for GSM mode:

The frequency deviation from the centre frequency over voltage variation is showed as table V1 and V2 for channel 190 and 661 respectively.

Table V1: frequency deviation from the centre frequency over temperature variation for channel 190

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	-12	-0.01	Pass
Cut-off point	3.4	44	0.05	Pass

Table V2: frequency deviation from the centre frequency over temperature variation for channel 661

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	-28	-0.01	Pass
Cut-off point	3.4	-38	-0.02	Pass

Test Results for GPRS mode:

The frequency deviation from the centre frequency over voltage variation is showed as table V3 and V4 for channel 190 and 661 respectively.

Table V3: frequency deviation from the centre frequency over temperature variation for 190

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	93	0.11	Pass
Cut-off point	3.4	-97	-0.12	Pass

Table V4: frequency deviation from the centre frequency over temperature variation for 661

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	24	0.01	Pass
Cut-off point	3.4	-31	-0.02	Pass

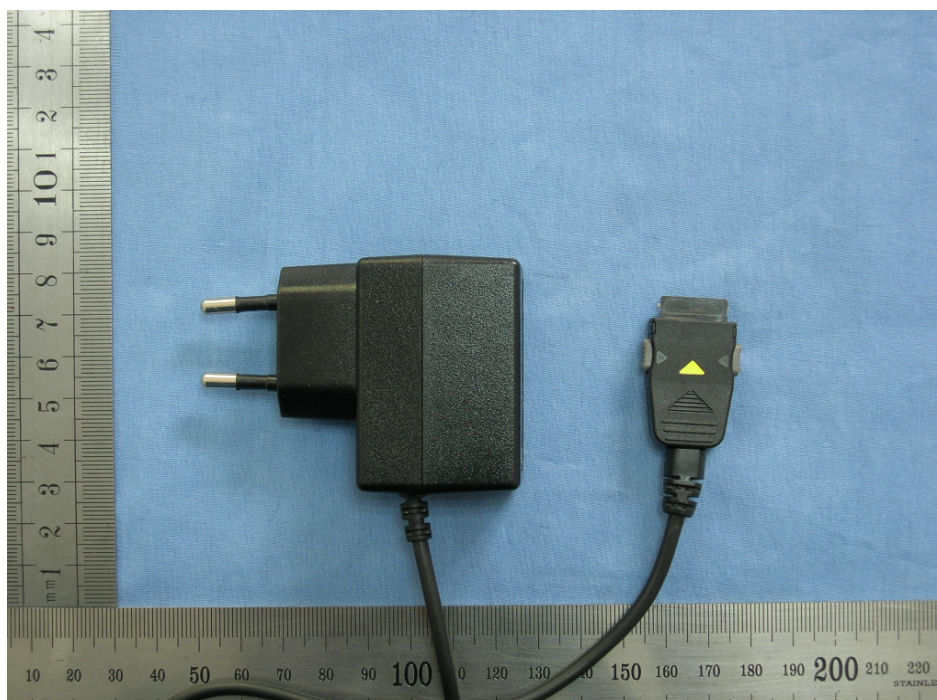
Annex A External Photos



Picture 1 Front view of the handset



Picture 2 Back view of the handset

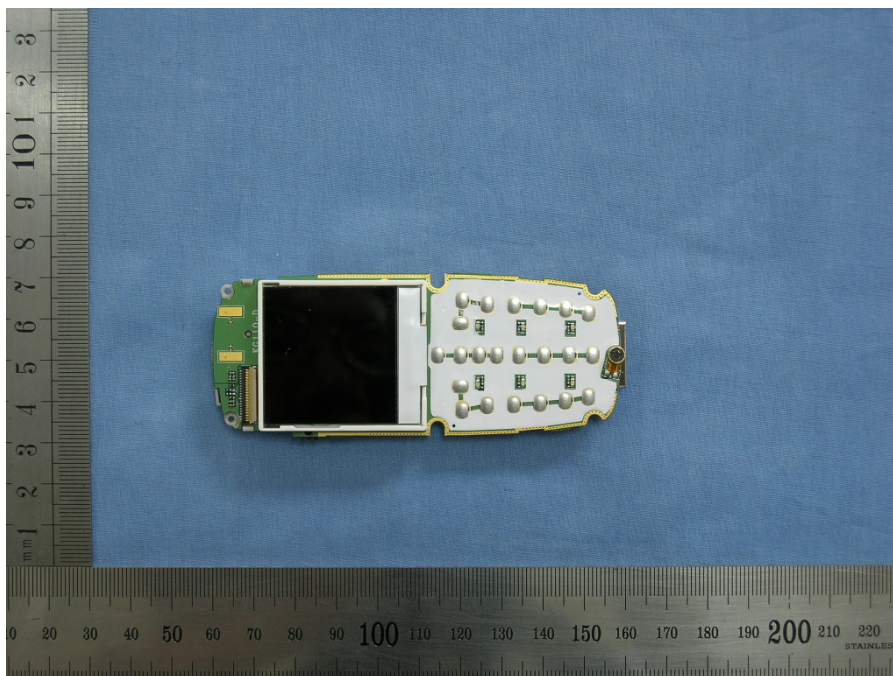


Picture 3 Side view of the adaptor

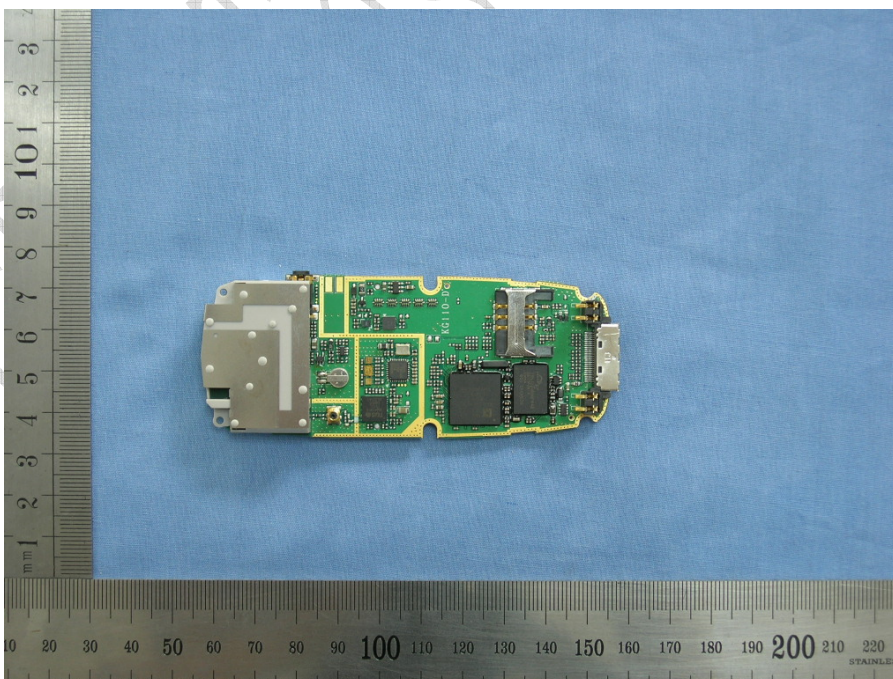


Picture 4 Front view of the adaptor

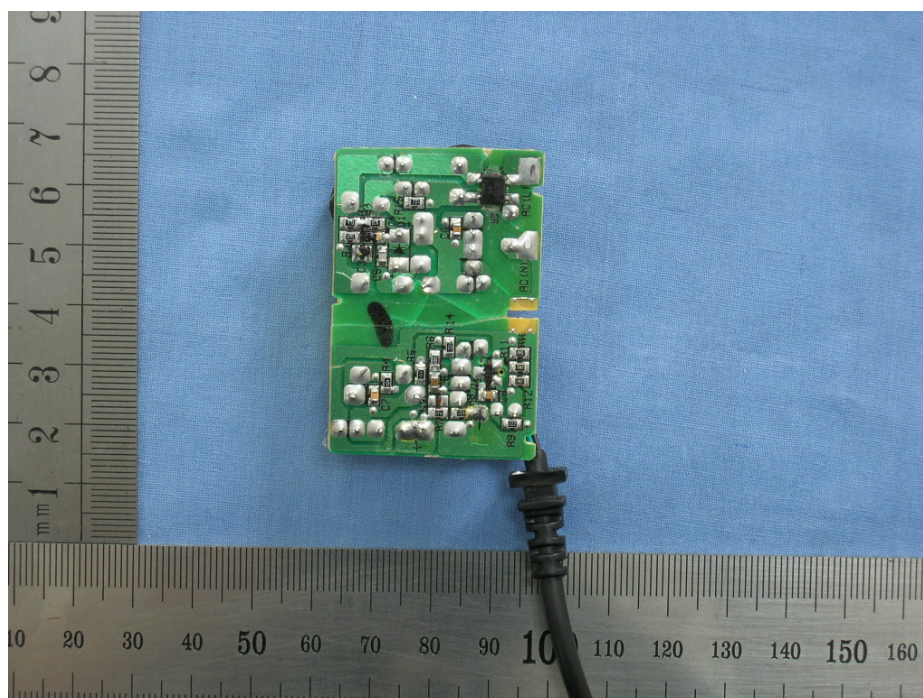
Annex B Internal Photos



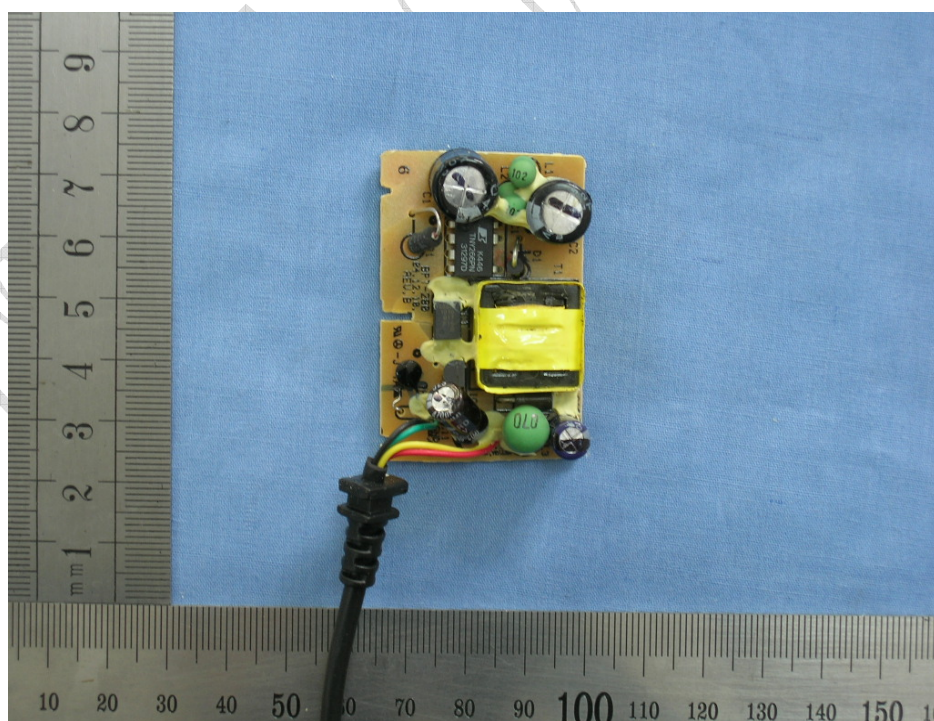
Picture 5 Front view of the internal structure



Picture 6 Back view of the internal structure



Picture 7 Internal front view of adaptor



Picture 8 Internal back view of the adaptor

ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

———— The End of this Report ————

Test Report