

# FCC TEST REPORT (PART 22)

**REPORT NO.:** 060624FIA01

**MODEL NO.:** C600

**RECEIVED:** Jun. 27, 2006

**TESTED:** Jun. 27 ~ Jul. 16, 2006

**ISSUED:** Jul. 17, 2006

**APPLICANT:** NINGBO BIRD CO., LTD.

**ADDRESS:** No. 999 Dacheng East Road, Fenghua City, Zhejiang

**ISSUED BY:** ADT (Shanghai) Corporation

**ADDRESS:** 2F, Building C, No.1618, Yishan Rd., 201103, Shanghai, China

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**ADT (Shanghai) Corporation.**



No.: 2343.01

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## 1 CERTIFICATION

**PRODUCT :** CDMA 1X Digital Mobile Phone  
**MODEL NO. :** C600  
**BRANDNAME :** BIRD  
**APPLICANT :** NINGBO BIRD CO., LTD.  
**TESTED :** Jun. 27 ~ Jul. 16, 2006  
**TEST SAMPLE :** MASS PRODUCTION  
**TEST STANDARDS :** FCC Part 22, Subpart H  
ANSI C 63.4-2003

The above equipment has been tested by **ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**TECHNICAL  
ACCEPTANCE :** \_\_\_\_\_, **DATE:** JUL. 17, 2006  
Bright Tong  
Engineering Supervisor

**APPROVED BY :** \_\_\_\_\_, **DATE:** JUL. 17, 2006  
Wallace Pan  
Director of Operations

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2 / IC RSS-132			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
2.1047 (d)	Modulation Characteristics	PASS	N/A
2.1046 22.913 (a)	Maximum Peak Output Power Limit: max. 7 watts e.r.p peak power	PASS	Meet the requirement of limit.
2.1055	Frequency Stability AFC Freq. Error vs. Voltage AFC Freq. Error vs. Temperature Limit: max. $\pm 2.5$ ppm	PASS	Meet the requirement of limit.
2.1049 (h)	Occupied Bandwidth	PASS	Meet the requirement of limit.
22.917	Band Edge Measurements	PASS	N/A
2.1051 22.917	Conducted Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is $-23.17$ dB at 690.00MHz.
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is $-3.09$ dB at 48.3MHz.

## 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.73 dB
	200MHz ~1000MHz	3.74 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	CDMA 1X Digital Mobile Phone
<b>MODEL NO.</b>	C600
<b>POWER SUPPLY</b>	3.7Vdc from rechargeable lithium battery Brand: SAGEM Model: D-FJL
	4.5Vdc from power adapter Brand: BIRD Model: TCK4535 I/P: 100-240Vac, 0.1A, 50/60Hz O/P: 4.5Vdc, 350mA
<b>MODULATION TYPE</b>	DQPSK for CDMA
<b>FREQUENCY RANGE</b>	Tx Frequency: 824.12 MHz ~ 848.76 MHz (CDMA band) Rx Frequency: 869.12 MHz ~ 893.76 MHz (CDMA band)
<b>NUMBER OF CHANNEL</b>	788
<b>MAX. CONDUCTED PEAK OUTPUT POWER</b>	CDMA Mode: 26.27dBm (0.424Watts)
<b>MAX. RADITED ERP PEAK OUTPUT POWER</b>	CDMA Mode: 22.41dBm (0.174Watts)
<b>E AND I OF THE FINAL OUTPUT STAGE</b>	E: 3.7Vdc I: 0.2A
<b>ANTENNA TYPE</b>	Fixed external antenna with -0.13dBi gain
<b>DATA CABLE</b>	N/A
<b>I/O PORTS</b>	Refer to user's manual
<b>ASSOCIATED DEVICES</b>	N/A
<b>EUT Extreme Vol. Range</b>	3.1Vdc to 4.3Vdc

**NOTE:**

1. The EUT is a CDMA 1X Digital Mobile Phone. The protocol of this system is CDMA850
2. ESN: 487160549/C600
3. Hardware version: V3.0
4. Software version: V2.0.0
5. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

### 3.2 DESCRIPTION OF TEST MODES

788 channels are provided to this EUT in the CDMA850 band. Therefore, the low, middle and high channels are chosen for testing.

	CHANNEL	FREQUENCY	TX MODE
LOW	1013	824.12 MHz	CDMA
MIDDLE	384	836.58 MHz	CDMA
HIGH	777	848.76 MHz	CDMA

**NOTE:**

1. Below 1 GHz, the channel 1013, 384, and 777 were pre-tested in chamber. The channel 384 was chosen for final test.
2. Above 1 GHz, the channel 1013, 384, and 777 were tested individually.
3. When the Power Control Level set max., the worst case, was chosen for final test.
4. The channel space is 30 kHz.
5. Since the EUT is considered a portable unit, it was pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.
6. For the radiated emission measurement test below 1GHz, there are two test modes. Mode A is powered by battery, mode B is charged by power adapter.

### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a CDMA 1X Digital Mobile Phone. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 22**

**IC RSS-132**

**ANSI C63.4-2003**

**ANSI/TIA/EIA-603-A**

**NOTE:** All test items have been performed and recorded as per the above standards.

### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	CAL. DATE
1	Universal Radio Communication Tester	R&S	CMU200	109373	Nov. 20, 2006

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
A	N/A

## 4 TEST TYPES AND RESULTS

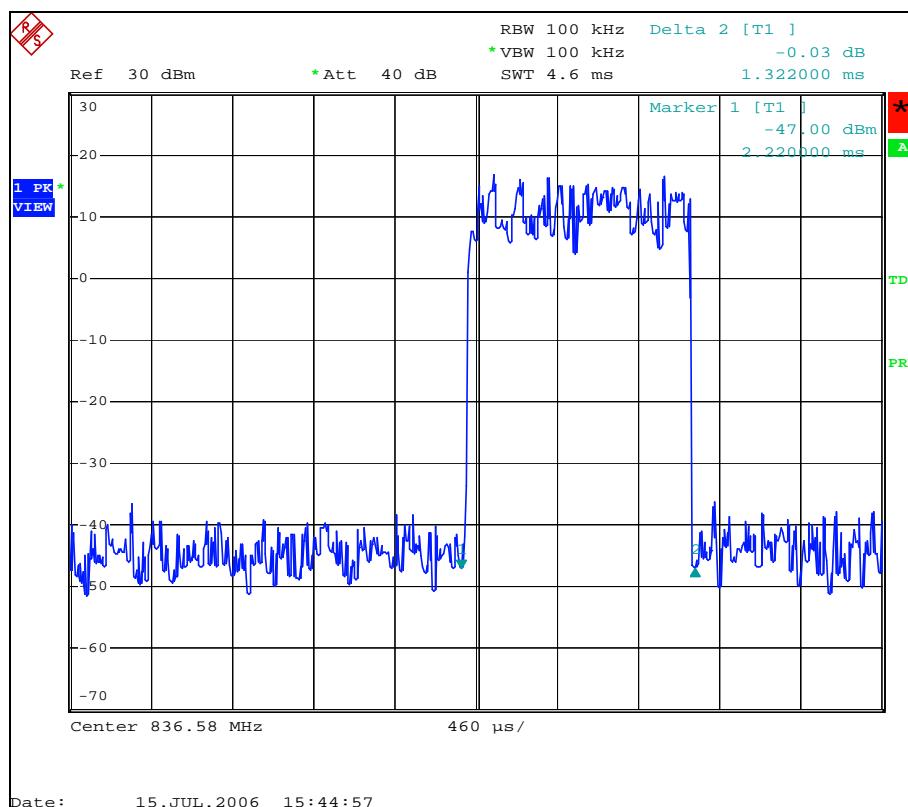
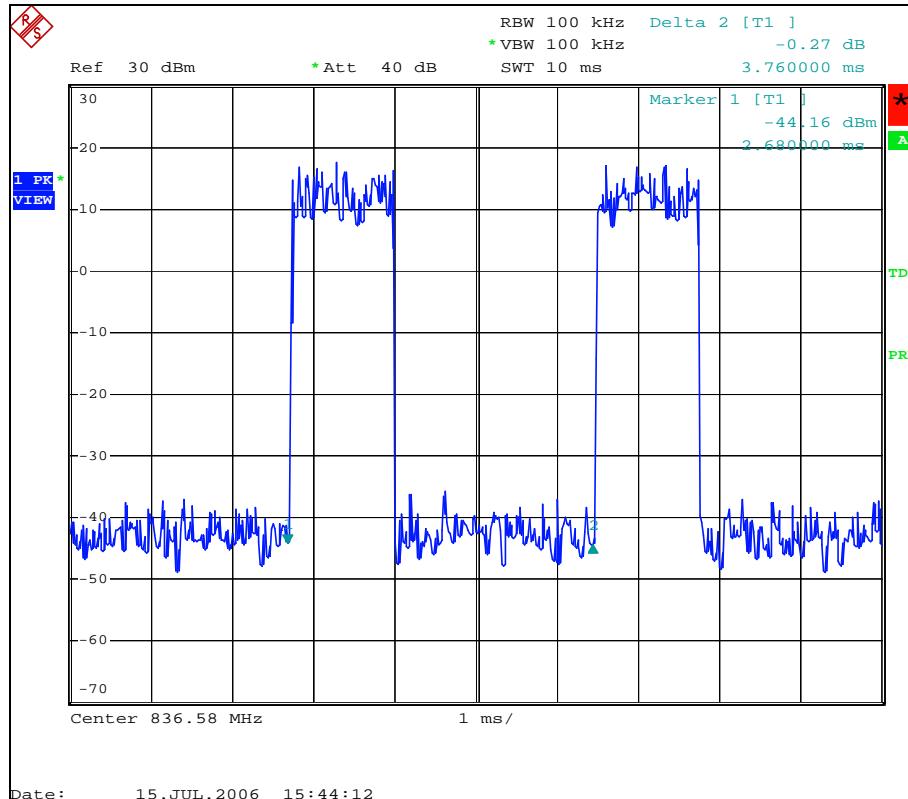
### 4.1 MODULATION CHARACTERISTICS

#### 4.1.1 DESCRIPTION OF MODULATION TECHNIQUE

According to FCC 2.1047(d), the system is used the digital modulation and accomplished with the CDMA requirement.

There are channels and channel space is 30KHz. The frequency band 824.12 ~ 848.76MHz is allocated to the uplink and 869.12 ~ 893.76MHz to the downlink. The uplink and downlink channel space is 45MHz and is duplex at the same time.

#### 4.1.2 THE ACTIVE TIME SLOT 8 MODULATED FRAME PLOT



## 4.2 OUTPUT POWER MEASUREMENT

### 4.2.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 22.913 (a) that “Mobile / Portable station are limited to 7 watts e.r.p”.

#### 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1001	Apr. 19, 2007
BILOG Antenna SCHWARZBECK	VULB9168	E1A1001	Sep. 26, 2006
Preamplifier Agilent	8447D	E1A2001	Jan. 27, 2007
Preamplifier Agilent	8449B	E1A2002	Jan. 27, 2007
Double Ridged Broadband Horn Antenna Schwarzbeck	BBHA 9120D	E1A1002	Feb.15, 2007
Spectrum Analyzer Agilent	E4403B	E1S1001	Jan. 13, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP30	E1S1002	May.15, 2007
RF signal cable Woken	RG-402	E1CBH01	May. 30, 2007
RF signal cable Woken	RG-402	E1CBH02	May. 30, 2007
RF signal cable Woken	RG-402	E1CBH03	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL02	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL03	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL04	May. 30, 2007
Software ADT	ADT_Radiated_V7.5	N/A	N/A
Power Splitter Mini-Circuits	ZAPD-4	400005	NA

**NOTE:**

1. The calibration interval of the above test instruments is 12 months.
2. The horn antenna and Agilent preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The Spectrum Analyzer (model: FSP30) and RF signal cable (SERIAL: E1CBH05&E1CBH07) are used only for the measurement of emission frequency above 1GHz if tested.

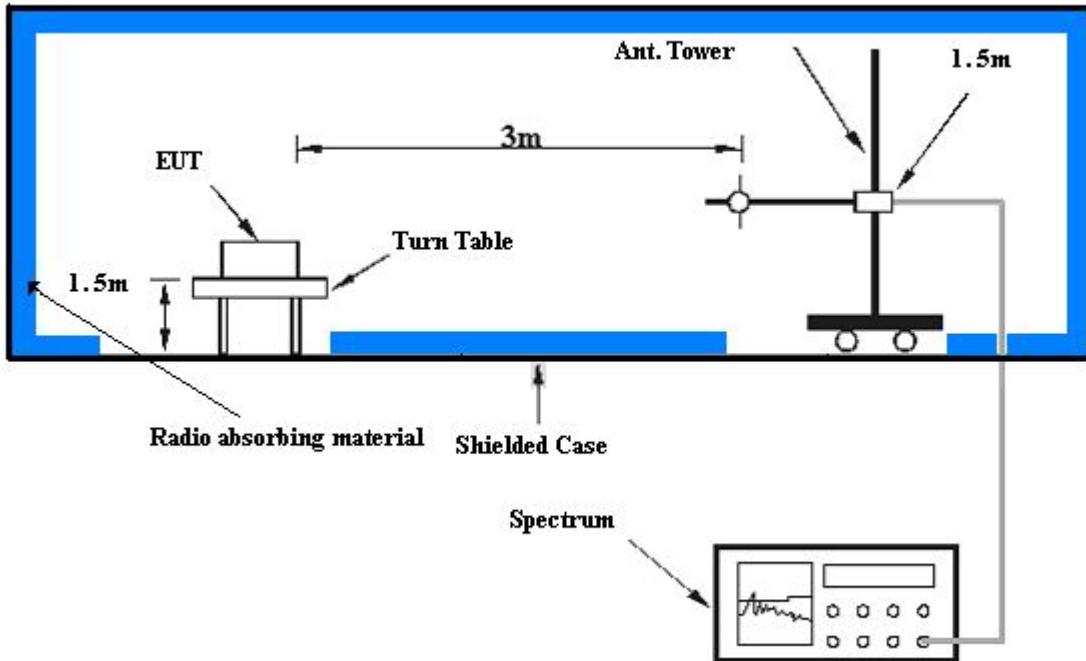
#### 4.2.3 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with CDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels, 1013, 384 and 777 (low, middle and high operational frequency range.)
- b. The conducted peak output power used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. The path loss included the splitter loss, cable loss and 20dB pad loss. The spectrum set RB/VB 3MHz, then read peak power value and record to the test. (All transmitted path loss shall be considered in the test report data.)
- c. E.I.R.P peak power measurement. In the fully anechoic chamber, EUT placed on the 1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- d. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the calibration antenna. Rotated the Turn Table to find the maximum radiation power. “Raw” is the spectrum reading value, “SG” is signal generator export power, “TX Gain” is calibration antenna isotropic gain value, “TX cable” is the transmitted cable loss between the calibration antenna and signal generator. The “Factor” means that the transmission path loss is equal to “SG” - “TX cable” + “TX Gain” – “Raw”.
- e. Actually the real E.I.R.P peak power is equal to “Read Value” + “Factor”
- f. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, E.R.P power= E.I.R.P power-2.15dBi.

**NOTE:** The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection (PK)

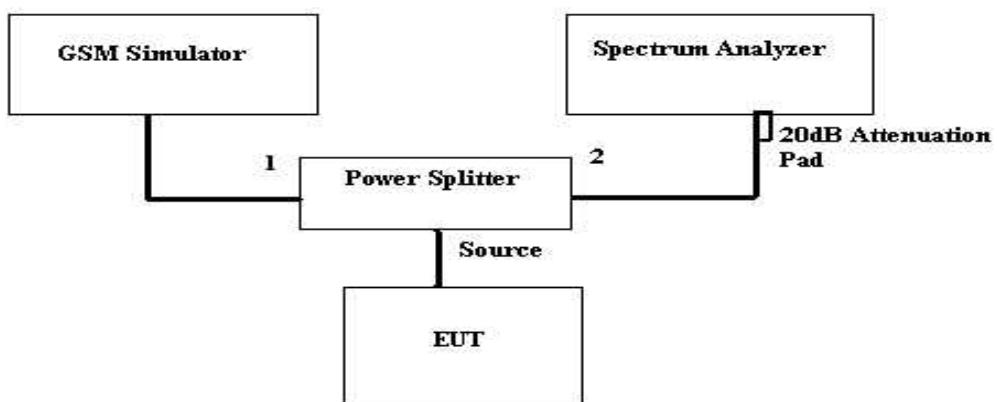
#### 4.2.4 TEST SETUP

##### EIRP POWER MEASUREMENT:



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

##### CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 4.2.5 EUT OPERATING CONDITIONS

- a. The EUT makes a phone call to the CDMA simulator.
- b. The CDMA simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

## 4.2.6 TEST RESULTS

<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX connected	<b>POWER CONTROL LEVEL</b>	Max.
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>DETECTOR FUNCTION</b>	Peak
<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 60%RH, 991hPa	<b>TESTED BY</b>	Bright

## CONDUCTED PEAK OUTPUT POWER

<b>CHANNEL NO.</b>	<b>FREQUENCY (MHz)</b>	<b>RAW VALUE (dBm)</b>	<b>CORRECTION FACTOR (dB)</b>	<b>PEAK OUTPUT POWER</b>	
				<b>dBm</b>	<b>Watt</b>
1013	824.12	24.54	0.5	25.04	0.319
<b>384</b>	<b>836.58</b>	<b>25.62</b>	<b>0.65</b>	<b>26.27</b>	<b>0.424</b>
777	848.76	24.56	0.8	25.36	0.344

## ERP RADIATED PEAK OUTPUT POWER

<b>CHANNEL NO.</b>	<b>FREQUENCY (MHz)</b>	<b>RAW VALUE (dBm)</b>	<b>CORRECTION FACTOR (dB)</b>	<b>PEAK OUTPUT POWER</b>	
				<b>dBm</b>	<b>Watt</b>
1013	824.12	13.78	5.54	19.32	0.086
<b>384</b>	<b>836.58</b>	<b>16.95</b>	<b>5.46</b>	<b>22.41</b>	<b>0.174</b>
777	848.76	15.08	5.37	20.45	0.111

**REMARKS:** 1. Peak Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).

## 4.3 FREQUENCY STABILITY MEASUREMENT

### 4.3.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

According to the FCC part 2.4235 shall be tested the frequency stability. The rule is defined that "The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block." The frequency error rate is according to the JTC standard that the frequency error rate shall be accurate to within 2.5ppm of the received frequency from the base station. The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with the 2.1055(a)(1) -30°C~50°C.

### 4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
UNIVERSAL RADIO COMMUNICATION TESTER	CMU 200	109373	Nov. 20, 2006

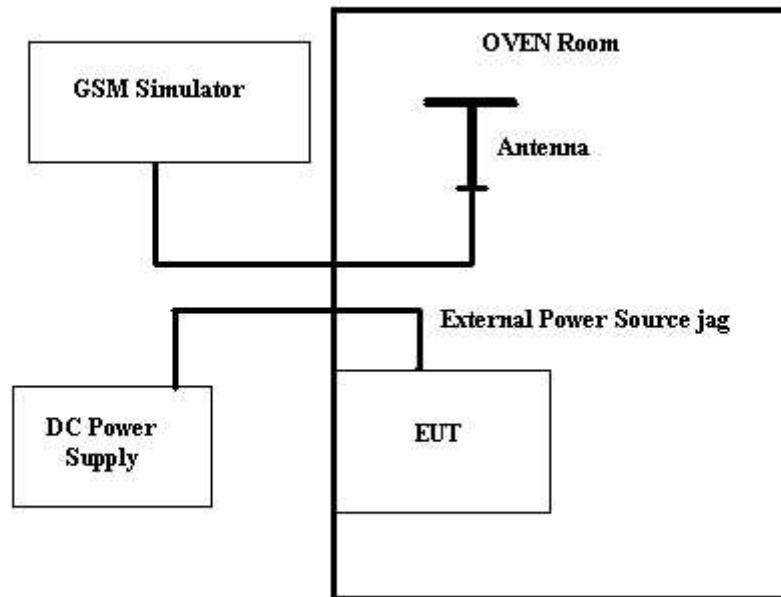
**NOTE:** The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

#### 4.3.3 TEST PROCEDURE

- a. Because of the measure the carrier frequency under the condition of the AFC lock, it shall be used the mobile station in the CDMA link mode. This is accomplished with the use of the R&S CMU200 simulator station. The oven room could control the temperatures and humidity. The CDMA link channel is the 777.
- b. Power must be removed when changing from one temperature to another or one voltage to another voltage. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- c. EUT is connected the external power supply to control the DC input power. The various Volts from the minimum 3.1 Volts to 4.3 Volts. Each step shall be record the frequency error rate.
- d. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing.
- e. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

**NOTE:** The frequency error was recorded frequency error from the CDMA simulator.

#### 4.3.4 TEST SETUP



## 4.3.5 TEST RESULTS

<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX channel 777	<b>POWER CONTROL LEVEL</b>	Max.
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 60%RH, 991hPa
<b>TESTED BY</b>	Bright		

AFC FREQUENCY ERROR vs. VOLTAGE			
<b>VOLTAGE (Volts)</b>	<b>FREQUENCY ERROR (Hz)</b>	<b>FREQUENCY ERROR (ppm)</b>	<b>LIMIT (ppm)</b>
3.1	33	0.038880	2.5
3.2	31	0.036524	2.5
3.3	17	0.020029	2.5
3.4	23	0.027098	2.5
3.5	24	0.028277	2.5
3.6	14	0.016495	2.5
3.7	23	0.027098	2.5
3.8	17	0.020029	2.5
3.9	-11	-0.012960	2.5
4	-24	-0.028277	2.5
4.1	18	0.021207	2.5
4.2	31	0.036524	2.5
4.3	14	0.016495	2.5

<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX channel 777	<b>POWER CONTROL LEVEL</b>	Max.
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 60%RH, 991hPa
<b>TESTED BY</b>	Bright		

**AFC FREQUENCY ERROR vs. TEMPERATURE**

<b>Temp. (°C)</b>	<b>Frequency Error (Hz)</b>	<b>Frequency Error (ppm)</b>	<b>Limit (ppm)</b>
50	-12	-0.01414	2.5
40	33	0.03888	2.5
30	28	0.03299	2.5
20	-17	-0.02003	2.5
10	32	0.03770	2.5
0	-11	-0.01296	2.5
-10	48	0.05655	2.5
-20	-21	-0.02474	2.5
-30	18	0.02121	2.5

## 4.4 OCCUPIED BANDWIDTH MEASUREMENT

### 4.4.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

According to FCC 2.1049 (h) specified that emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

### 4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP30	E1S1002	May. 16, 2007
UNIVERSAL RADIO COMMUNICATION TESTER	CMU 200	109373	Nov. 20, 2006
Power Splitter *Mini-Circuits	ZX10-2-20	E2PS001	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

### 4.4.3 TEST SETUP

Same as Item 4.2.4 (Conducted Power Setup)

#### 4.4.4 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with CDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels, 1013, 384 and 777 (low, middle and high operational frequency range.)
- b. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. FCC 2.1049 (h) required a measurement bandwidth is the fundamental emission below 26dB bandwidth.

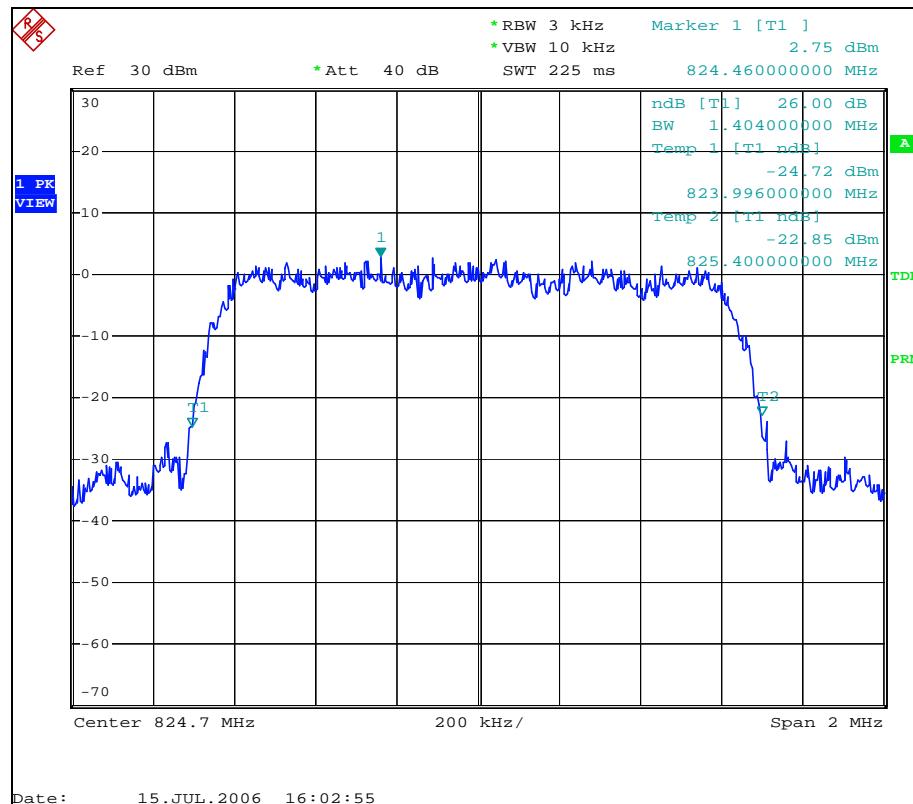
#### 4.4.5 EUT OPERATING CONDITION

- a. The EUT makes a phone call to the CDMA simulator.
- b. The CDMA simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

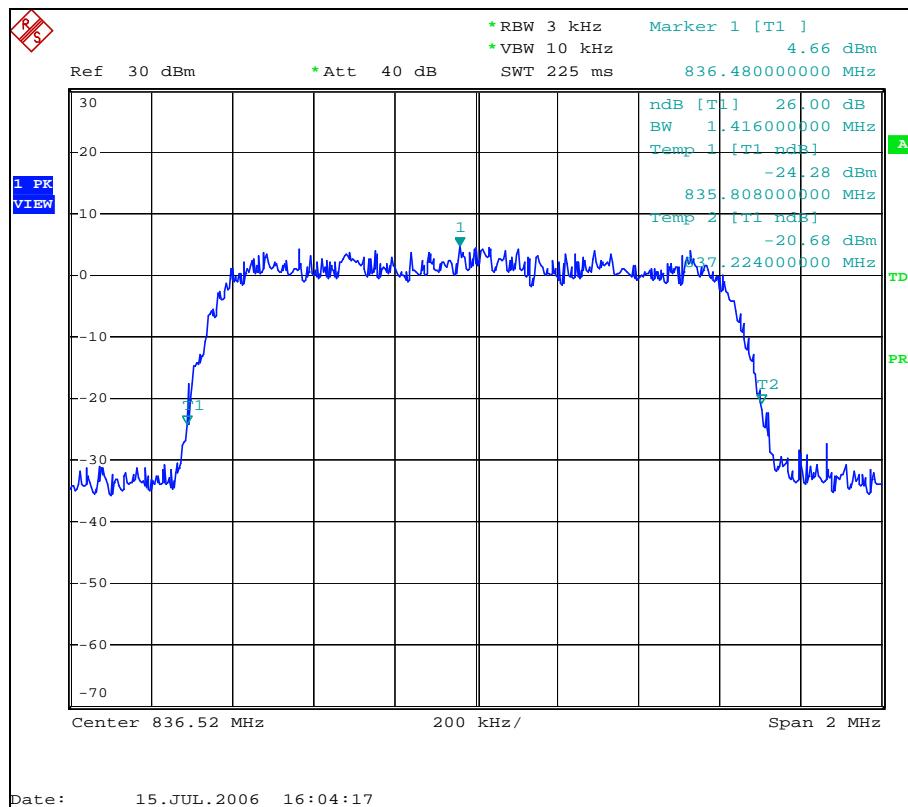
#### 4.4.6 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	MAX. OUTPUT POWER -26 dBc BANDWIDTH (kHz)
1013	824.12	1404
384	836.58	1416
777	848.76	1396

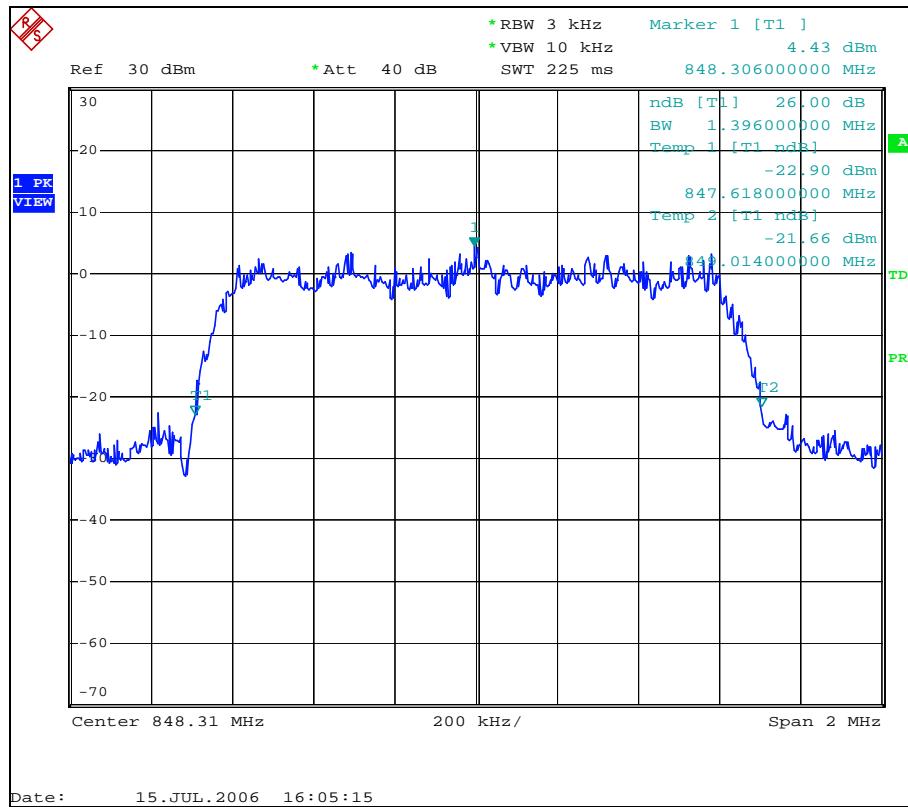
CH1013



CH384



CH777



## 4.5 BAND EDGE MEASUREMENT

### 4.5.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 22.917 specified that 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. Then we measure that the resolution bandwidth is 3 kHz.

### 4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP30	E1S1002	May. 16, 2007
UNIVERSAL RADIO COMMUNICATION TESTER	CMU200	109373	Nov. 20, 2006
Power Splitter Mini-Circuits	ZX10-2-20	E2PS001	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

### 4.5.3 TEST SETUP

Same as Item 4.2.4 (Conducted Power Setup)

#### 4.5.4 TEST PROCEDURES

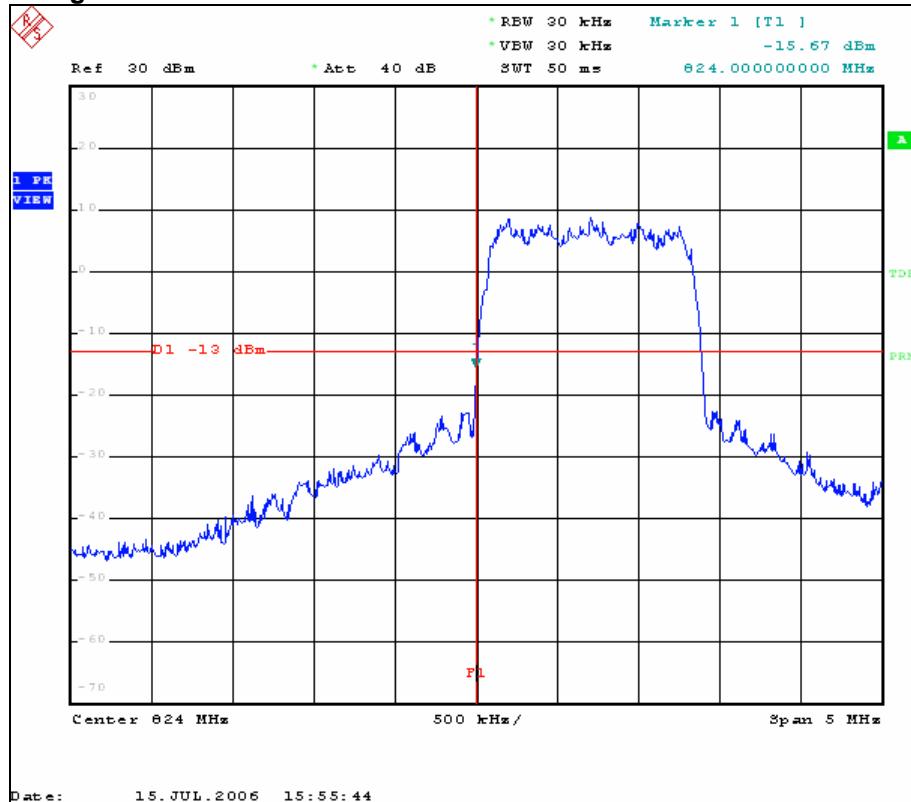
- a. The EUT was set up for the maximum peak power with CDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels, 1013 and 777 (low and high operational frequency range.)
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 2 MHz. RBW of the spectrum is 3kHz and VBW of the spectrum is 10 KHz.
- d. Record the max trace plot into the test report.

#### 4.5.5 EUT OPERATING CONDITION

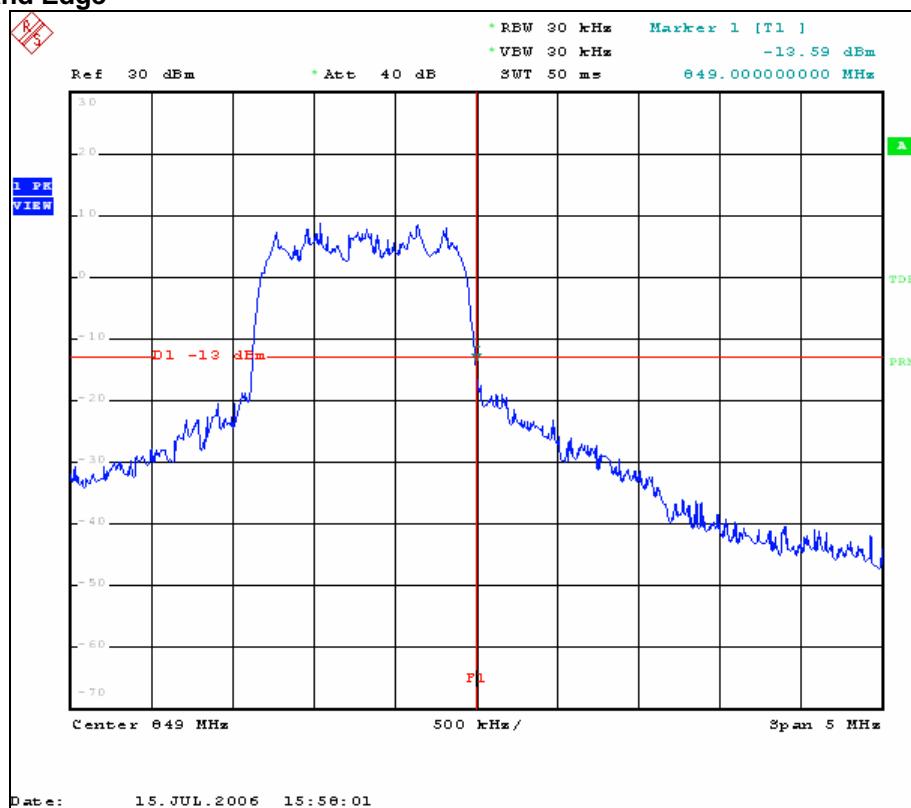
- a. The EUT makes a phone call to the CDMA simulator.
- b. The CDMA simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

#### 4.5.6 TEST RESULTS

##### Lower Band Edge



##### Higher Band Edge



## 4.6 CONDUCTED SPURIOUS EMISSIONS

### 4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

In the FCC 22.917, on any frequency outside a licensee's frequency block within CDMA spectrum, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB. The limit translates in the relevant power range (2 to 0.003W). At 2W (Power Control Level 3) the specified minimum attenuation becomes 43dB and the limit of emission equal to  $-13$ dBm.

### 4.6.2 TEST INSTRUMENTS

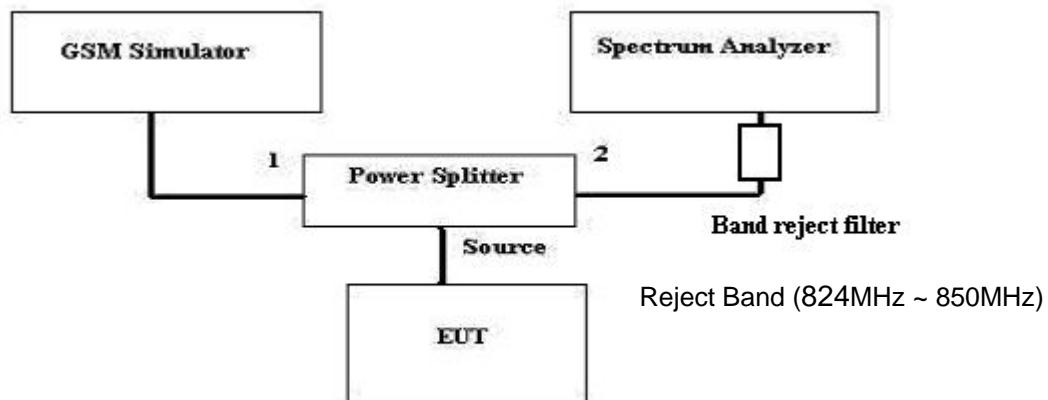
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP30	E1S1002	May. 16, 2007
Universal Radio Communication Tester	CMU200	109373	Nov. 20, 2006
K & L Turnable Band Reject Filter	3TNF-00083	E1F4003	N/A
Wainwright Instruments High Pass Filter	WHK1.5/15G-10ST	E1F4001	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

#### 4.6.3 TEST PROCEDURE

- a. The EUT was set up for the maximum peak power with CDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels, 1013, 384 and 777 (low, middle and high operational frequency range.)
- b. The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. When the spectrum scanned from 9 kHz to 3GHz, it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB/VB 1MHz.
- d. When the spectrum scanned from 3 kHz to 9GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB/VB 1MHz.

#### 4.6.4 TEST SETUP



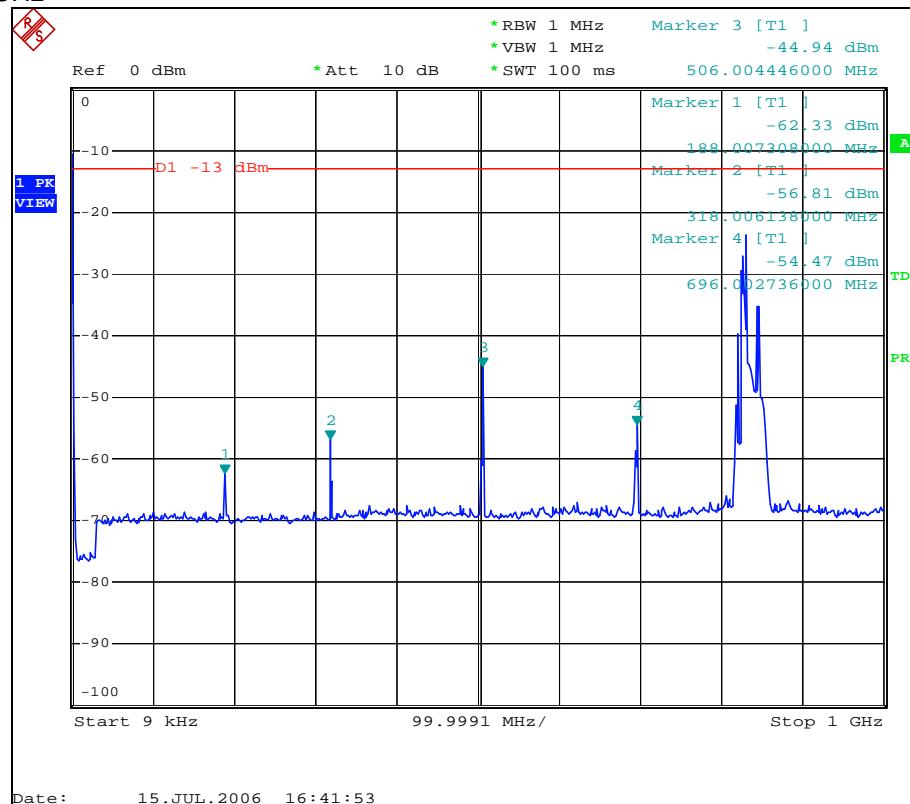
#### 4.6.5 EUT OPERATING CONDITIONS

- a. The EUT makes a phone call to the CDMA simulator.
- b. The CDMA simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

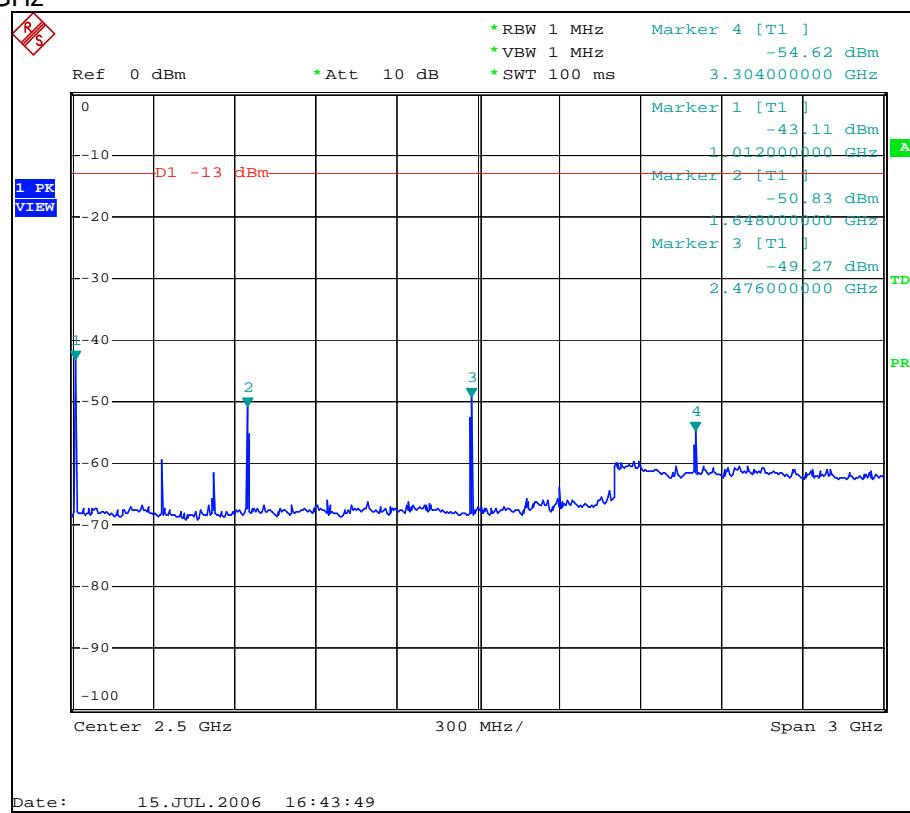
## 4.6.6 TEST RESULTS

**CH 1013:**

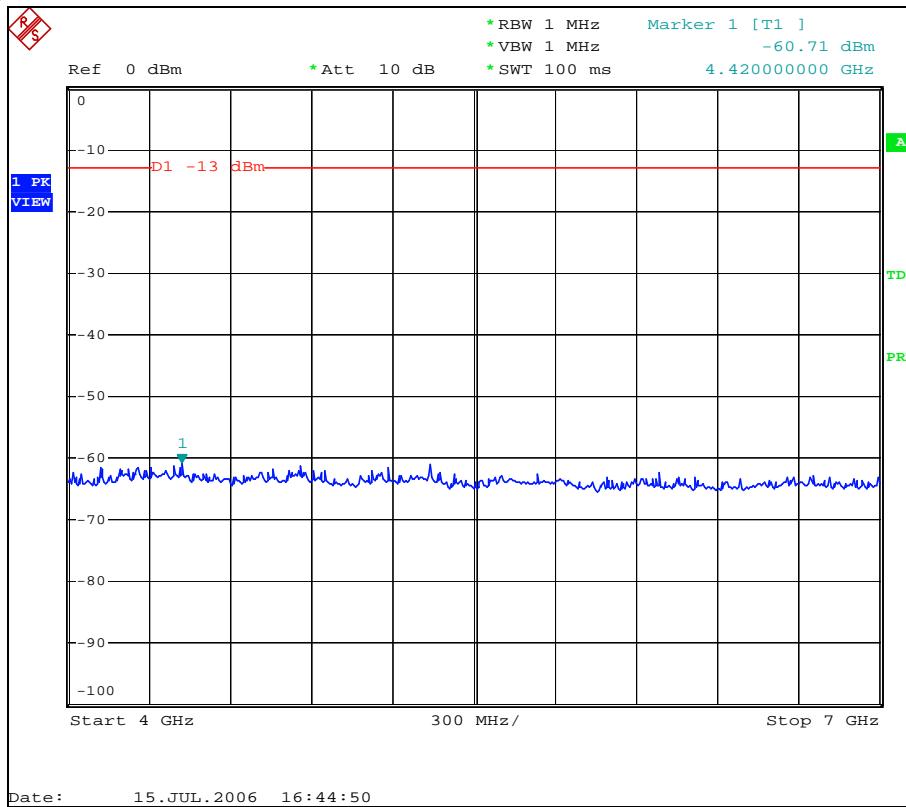
9kHz ~ 1GHz



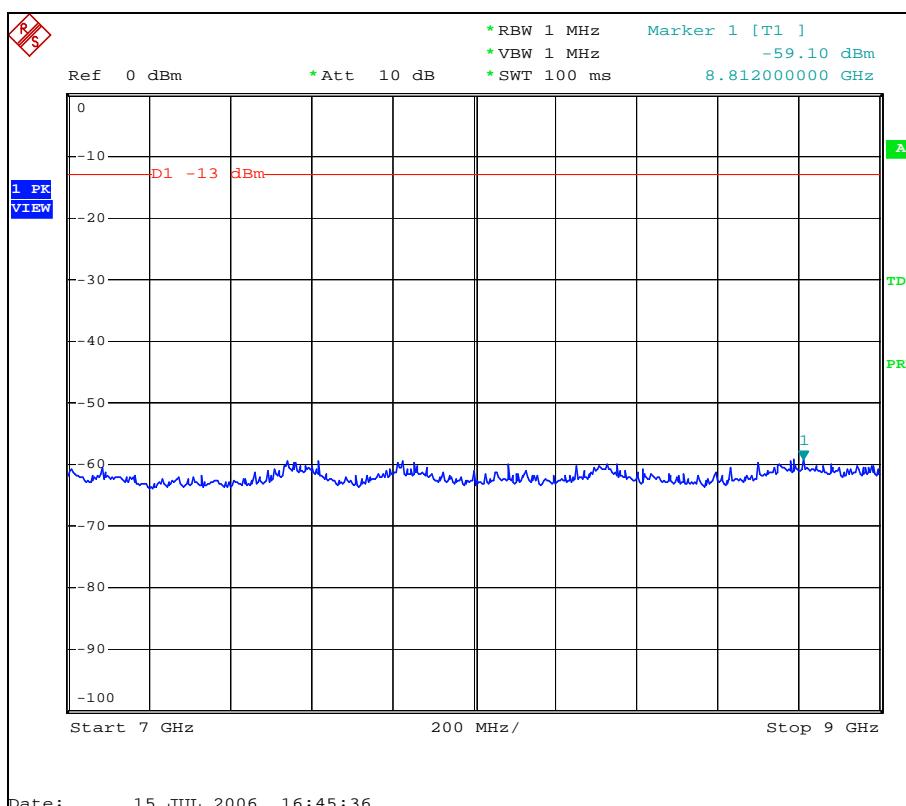
1GHz ~ 4GHz

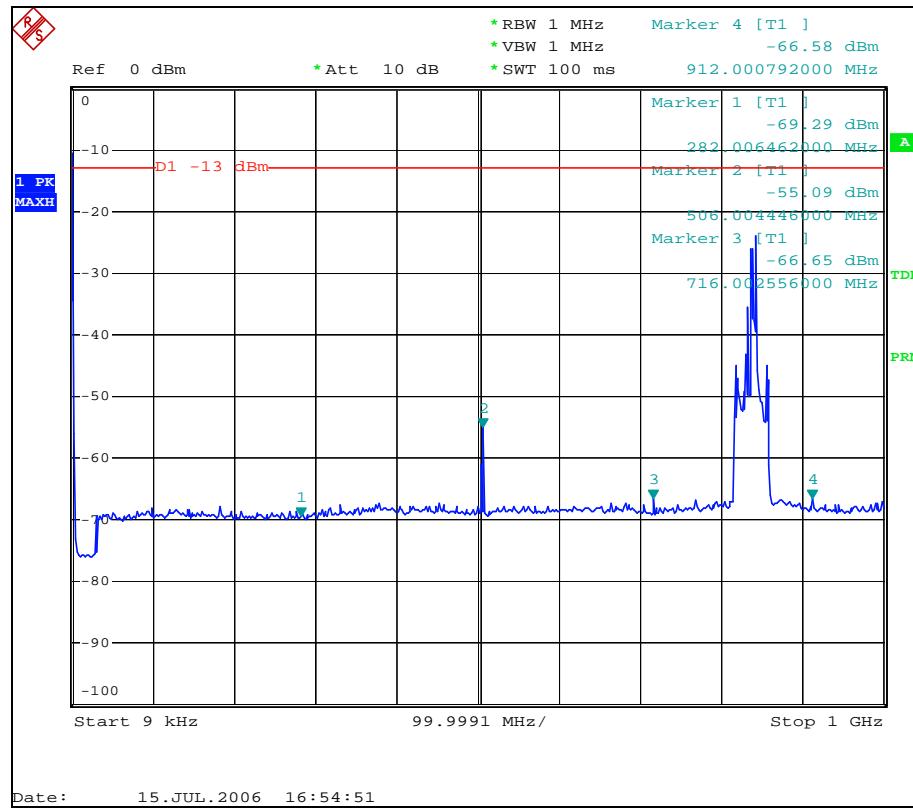


## 4GHz ~ 7GHz

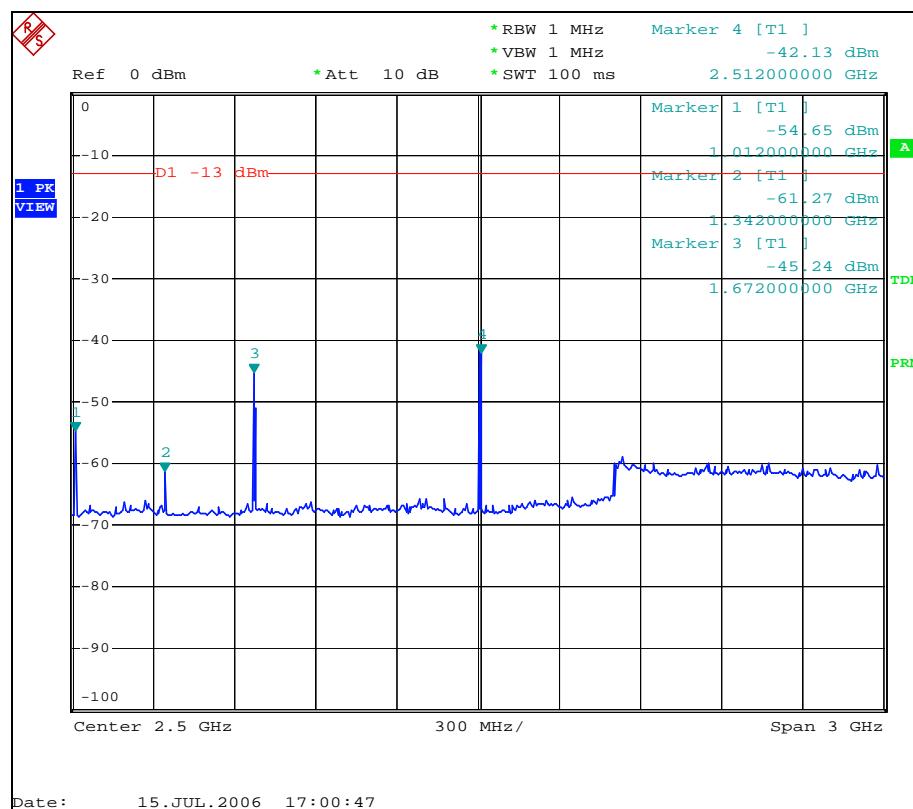


## 7GHz ~ 9GHz

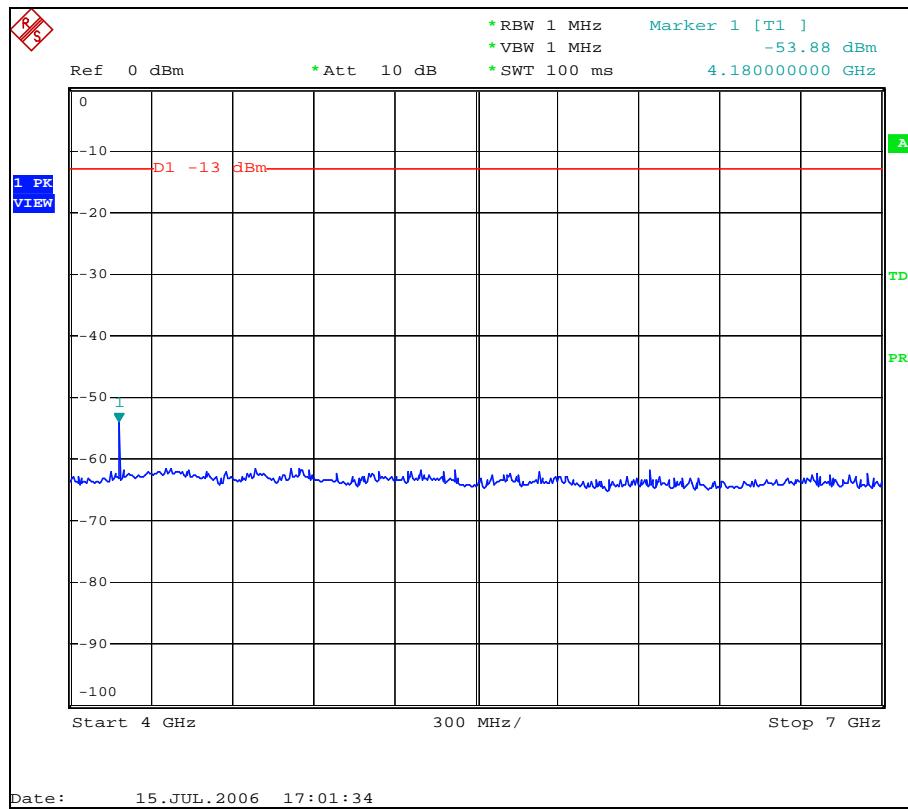


**CH 384:**  
 9kHz ~ 1GHz


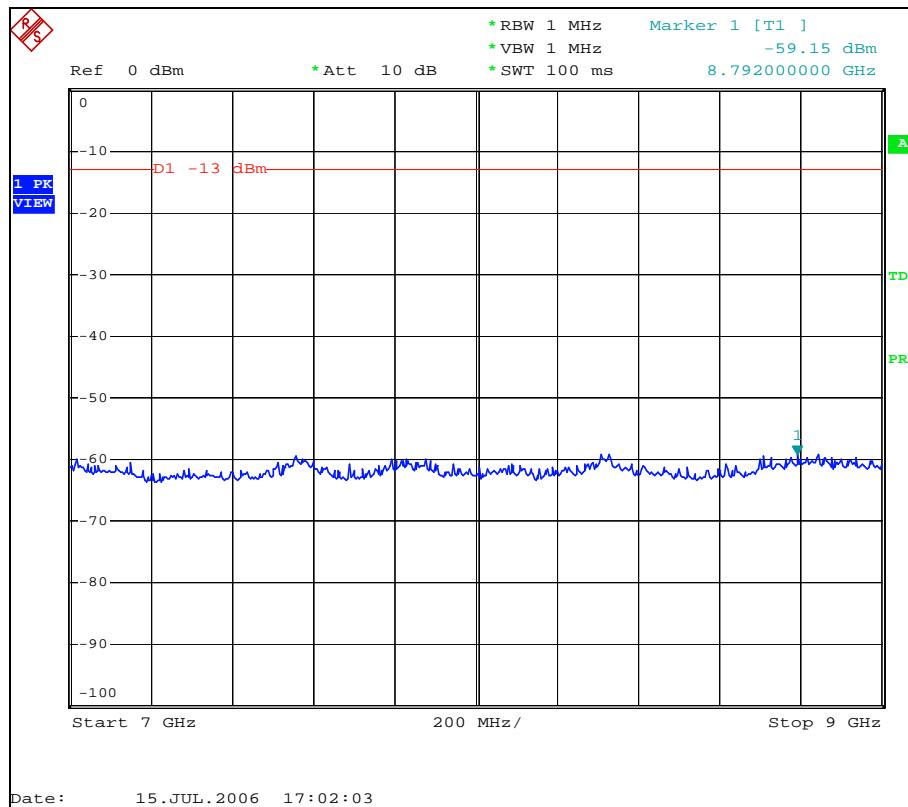
## 1GHz ~ 4GHz



4GHz ~ 7GHz

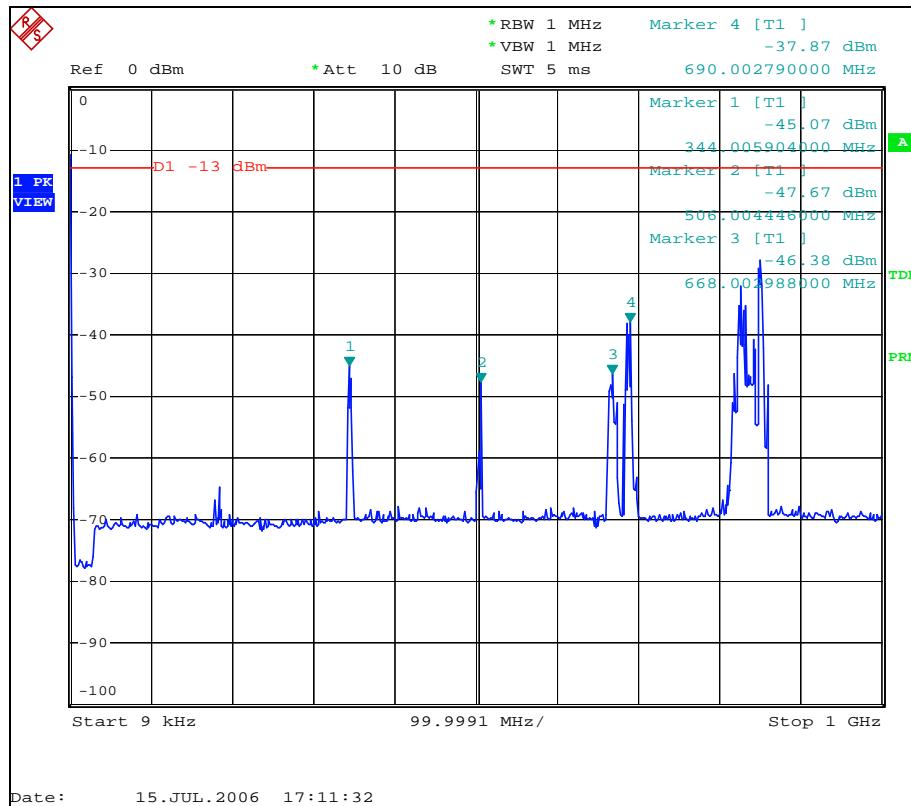


7GHz ~ 9GHz

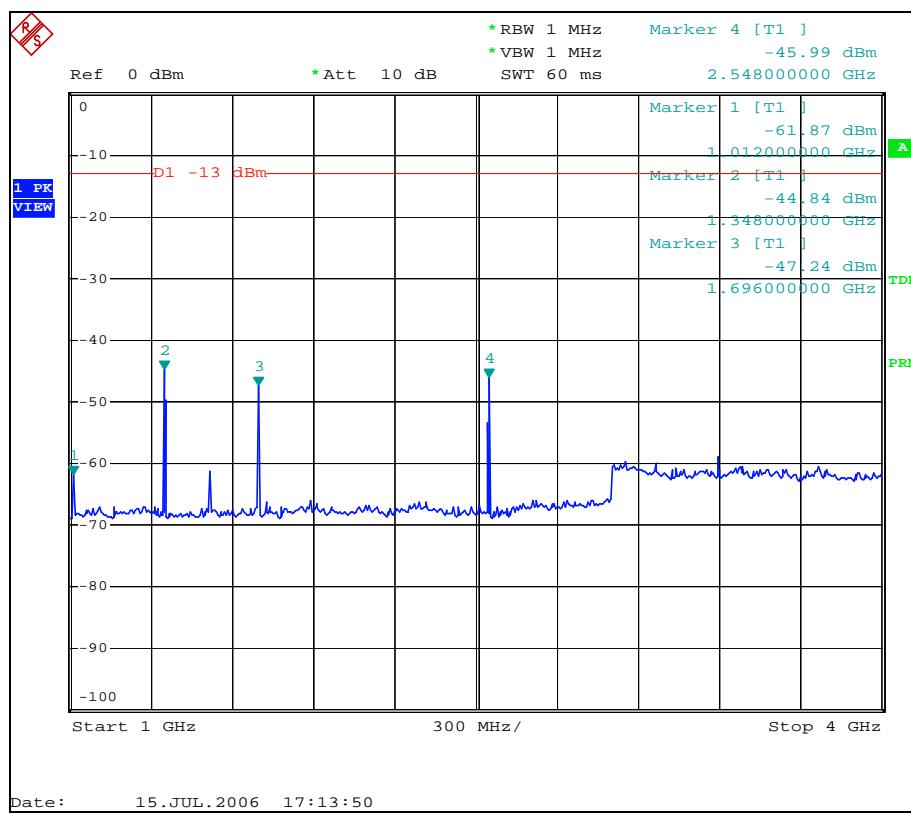


## CH 777:

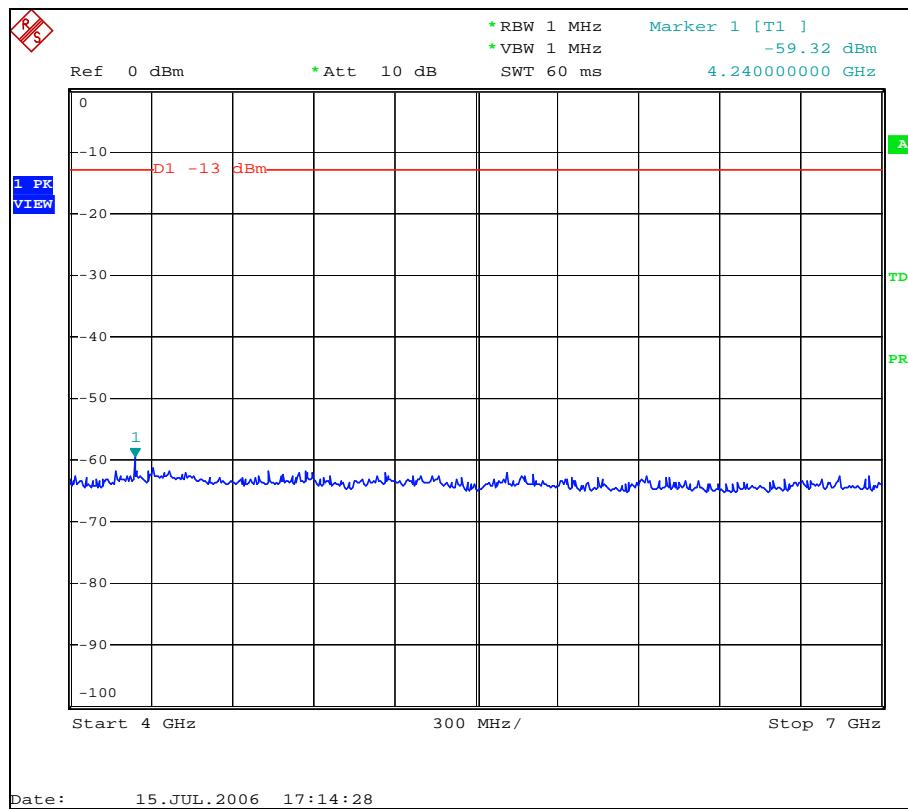
9kHz ~ 1GHz



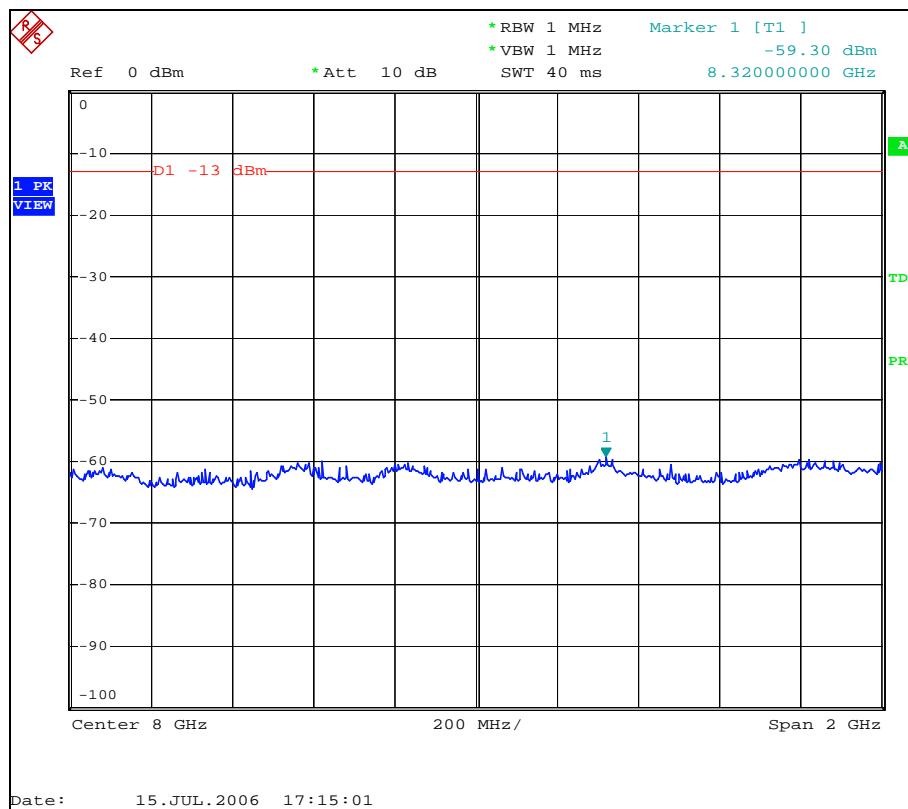
1GHz ~ 4GHz



## 4GHz ~ 7GHz



## 7GHz ~ 9GHz



<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX channel 1013	<b>POWER CONTROL LEVEL</b>	Max.
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>DETECTOR FUNCTION</b>	Peak
<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 60%RH, 991hPa	<b>TESTED BY</b>	Bright

CONDUCTED SPURIOUS EMISSION					
<b>FREQUENCY (MHz)</b>	<b>CORRECTION FACTOR (dB)</b>	<b>S.A READING (dBm)</b>	<b>CONDUCTED LEVEL (dBm)</b>	<b>LIMIT (dBm)</b>	<b>MARGIN (dB)</b>
188.01	1.1	-62.33	-61.23	-13	-48.23
318.01	1.5	-56.91	-55.41	-13	-42.41
506.00	1.6	-44.94	-43.34	-13	-30.34
696.00	1.7	-54.47	-52.77	-13	-39.77
1012.00	2.1	-43.11	-41.01	-13	-28.01
1648.00	2.7	-50.83	-48.13	-13	-35.13
2476.00	3.1	-49.27	-46.17	-13	-33.17
3304.00	3.9	-54.62	-50.72	-13	-37.72
4420.00	4.5	-60.71	-56.21	-13	-43.21
8812.00	6.5	-59.10	-52.60	-13	-39.60

**REMARKS:** 1. Peak Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).

<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX channel 384	<b>POWER CONTROL LEVEL</b>	Max.
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>DETECTOR FUNCTION</b>	Peak
<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 60%RH, 991hPa	<b>TESTED BY</b>	Bright

CONDUCTED SPURIOUS EMISSION					
<b>FREQUENCY (MHz)</b>	<b>CORRECTION FACTOR (dB)</b>	<b>S.A READING (dBm)</b>	<b>CONDUCTED LEVEL (dBm)</b>	<b>LIMIT (dBm)</b>	<b>MARGIN (dB)</b>
282.01	1.2	-69.29	-68.09	-13	-55.09
516.00	1.6	-55.09	-53.49	-13	-40.49
716.00	1.7	-66.65	-64.95	-13	-51.95
912.00	2.0	-66.58	-64.58	-13	-51.58
1012.00	2.1	-54.65	-52.55	-13	-39.55
1342.00	2.3	-61.27	-58.97	-13	-45.97
1672.00	2.7	-45.24	-42.54	-13	-29.54
2512.00	3.1	-42.13	-39.03	-13	-26.03
4180.00	4.5	-53.88	-49.38	-13	-36.38
8792.00	6.5	-59.15	-52.65	-13	-39.65

**REMARKS:** 1. Peak Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).

<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX channel 777	<b>POWER CONTROL LEVEL</b>	Max.
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>DETECTOR FUNCTION</b>	Peak
<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 60%RH, 991hPa	<b>TESTED BY</b>	Bright

**CONDUCTED SPURIOUS EMISSION**

<b>FREQUENCY (MHz)</b>	<b>CORRECTION FACTOR (dB)</b>	<b>S.A READING (dBm)</b>	<b>CONDUCTED LEVEL (dBm)</b>	<b>LIMIT (dBm)</b>	<b>MARGIN (dB)</b>
344.00	1.5	-45.07	-43.57	-13	-30.57
506.00	1.6	-46.07	-44.47	-13	-31.47
668.00	1.7	-46.38	-44.68	-13	-31.68
<b>690.00</b>	<b>1.7</b>	<b>-37.87</b>	<b>-36.17</b>	<b>-13</b>	<b>-23.17</b>
1012.00	2.1	-61.87	-59.77	-13	-46.77
1348.00	2.3	-44.84	-42.54	-13	-29.54
1696.00	2.7	-47.24	-44.54	-13	-31.54
2548.00	3.1	-45.99	-42.89	-13	-29.89
4240.00	4.5	-59.32	-54.82	-13	-41.82
8320.00	6.3	-59.30	-53.00	-13	-40.00

**REMARKS:** 1. Peak Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).

## 4.7 RADIATED EMISSION MEASUREMENT (BELOW 1GHz)

### 4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

In the FCC 22.917, on any frequency outside a licensee's frequency block within USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB. The limit translates in the relevant power range (2 to 0.003W). At 2W (Power Control Level 3) the specified minimum attenuation becomes 43dB and the limit of emission equal to -13dBm.

#### 4.7.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1001	Apr. 19, 2007
BILOG Antenna SCHWARZBECK	VULB9168	E1A1001	Sep. 26, 2006
Preamplifier Agilent	8447D	E1A2001	Jan. 27, 2007
Preamplifier Agilent	8449B	E1A2002	Jan. 27, 2007
Double Ridged Broadband Horn Antenna Schwarzbeck	BBHA 9120D	E1A1002	Feb.15, 2007
Spectrum Analyzer Agilent	E4403B	E1S1001	Jan. 13, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP30	E1S1002	May.15, 2007
RF signal cable Woken	RG-402	E1CBH01	May. 30, 2007
RF signal cable Woken	RG-402	E1CBH02	May. 30, 2007
RF signal cable Woken	RG-402	E1CBH03	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL02	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL03	May. 30, 2007
RF signal cable Woken	RG-412	E1CBL04	May. 30, 2007
Software ADT	ADT_Radiated_V7.5	N/A	N/A

**NOTE:**

1. The calibration interval of the above test instruments is 12 months.
2. The horn antenna and Agilent preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The Spectrum Analyzer (model: FSP30) and RF signal cable (SERIAL: E1CBH05&E1CBH07) are used only for the measurement of emission frequency above 1GHz if tested.

#### 4.7.3 TEST PROCEDURES

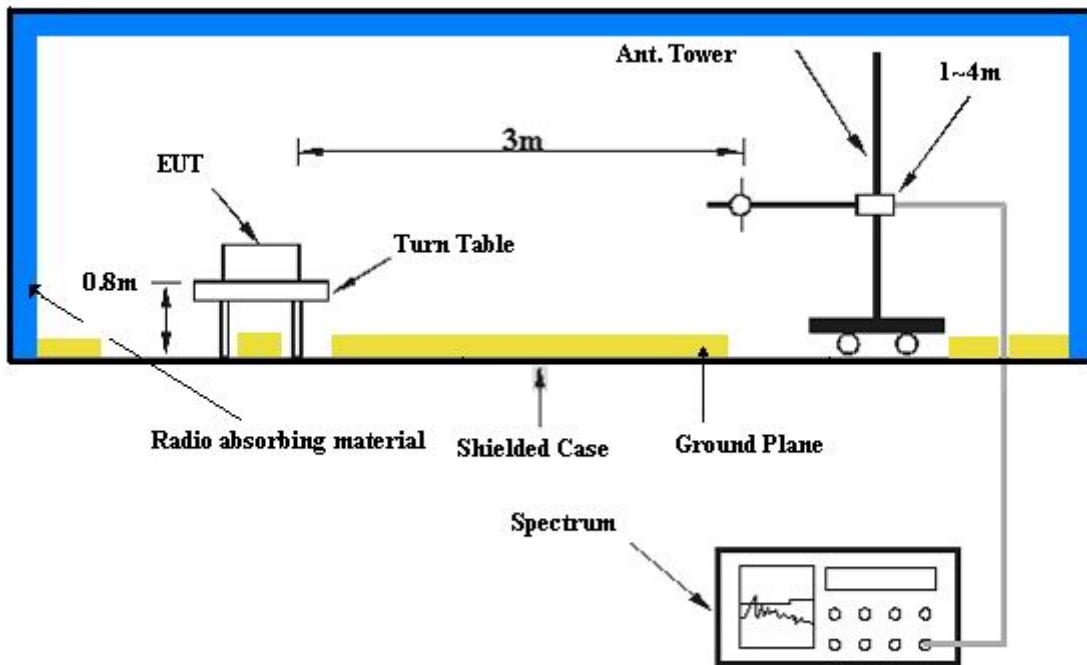
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8 m above the ground.
- c. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
- d. Repeat step a ~ c for horizontal polarization.

**NOTE:** 1. The resolution bandwidth of spectrum analyzer is 10 kHz and the video bandwidth is 300 kHz for spurious emission below 1GHz.  
2. The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for spurious emission above 1GHz.  
3. The resolution bandwidth of spectrum analyzer is 100 kHz and the video bandwidth is 100 kHz for the transmitter output measurement.

#### 4.7.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.7.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 4.7.6 EUT OPERATING CONDITIONS

- a. The notebook system makes a phone call to the CDMA simulator.
- b. The CDMA simulator station system controlled an EUT to export maximum output power under transmission mode and specific channel frequency.

#### 4.7.7 TEST RESULTS

##### FOR MODE A

<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX channel 384	<b>FREQUENCY RANGE</b>	Below 1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 66%RH, 991hPa	<b>TESTED BY</b>	Bright

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	56.67	15.01	-7.35	7.66	40	-32.34	99	169
2	163.37	16.75	-7.66	9.09	43.5	-34.41	99	165
3	362.23	17.81	-7.36	10.45	46	-35.55	99	276
4	482.9	20.62	-0.46	20.16	46	-25.84	118	14
5	612	23.36	-7.64	15.72	46	-30.28	99	246
6	772.05	25.59	-7.88	17.71	46	-28.29	132	134

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	54.25	15.18	-7.97	7.21	40	-32.79	99	128
2	160.95	16.98	-8	8.98	43.5	-34.52	99	175
3	369.27	18.01	2.94	20.95	46	-25.05	99	276
4	500.45	20.88	-7.95	12.93	46	-33.07	99	314
5	633.83	23.7	-8.09	15.62	46	-30.38	100	3
6	803.58	25.9	-8.04	17.86	46	-28.14	100	17

##### NOTE:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. This is valid for all 3 channels.

## FOR MODE B

<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX channel 384	<b>FREQUENCY RANGE</b>	Below 1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 66%RH, 991hPa	<b>TESTED BY</b>	Bright

## ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	47.94	15.49	9.52	25	40	-15	100	256
2	158.53	17.06	-7.43	9.62	43.5	-33.88	156	68
3	350.33	17.48	6.05	23.53	46	-22.47	195	293
4	459.23	20.26	-7.78	12.48	46	-33.52	102	167
5	636.25	23.73	-8.25	15.48	46	-30.52	142	85
6	798.73	25.81	-8.17	17.64	46	-28.36	133	220

## ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	<b>48.3</b>	<b>15.48</b>	<b>21.43</b>	<b>36.91</b>	<b>40</b>	<b>-3.09</b>	<b>100</b>	<b>14</b>
2	74.65	12.32	18.68	31	40	-9	99	52
3	107.6	13.32	13.91	27.23	43.5	-16.27	109	127
4	153.4	17	-1.25	15.75	43.5	-27.75	99	0
5	350.33	17.48	1.00	18.48	46	-27.52	161	181
6	563.5	22.36	-8.47	13.89	46	-32.11	164	262

## NOTE:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. This is valid for all 3 channels.

## 4.8 EFFECTIVE RADIATED POWER MEASUREMENT (ABOVE 1GHz)

### 4.8.1 LIMITS OF RADIATED EMISSION MEASUREMENT

In the FCC 22.917 (a), on any frequency outside a licensee's frequency block within CDMA spectrum, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB. The limit translates in the relevant power range (2 to 0.003W). At 2W (Power Control Level 3) the specified minimum attenuation becomes 43dB and the limit of emission equal to -13dBm.

#### 4.8.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1001	Apr. 19, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP30	E1S1002	May. 16, 2007
BILOG Antenna SCHWARZBECK	VULB9168	E1A1001	Sep. 26, 2006
HORN Antenna SCHWARZBECK	BBHA 9120D	E1A1002	Feb. 14, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	E1A1003	Feb. 14, 2007
Preamplifier Agilent	8447D	E1A2001	Jan. 26, 2007
Preamplifier Agilent	8449B	E1A2002	Jan. 26, 2007
Software ADT	ADT_Radiated_V7.5	N/A	N/A

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The horn antenna and Agilent preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

#### 4.8.3 TEST PROCEDURES

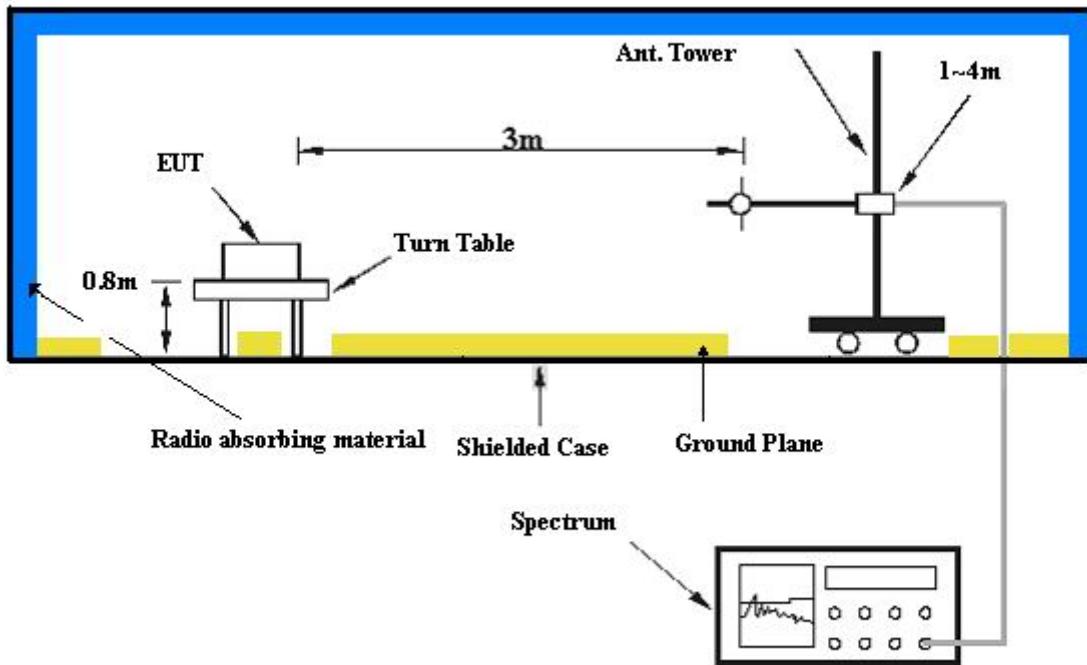
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8 m above the ground.
- c. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
- d. The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission.
- e. The signal generator level has to be adjusted to have the same emission nature.
- f. The radiated power can be calculated via the factor and antenna gain.
- g. Repeat step a ~ f for horizontal polarization.

**NOTE:** 1. The resolution bandwidth of spectrum analyzer is 10 kHz and the video bandwidth is 300 kHz for spurious emission below 1GHz.  
2. The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for spurious emission above 1GHz.  
3. The resolution bandwidth of spectrum analyzer is 100 kHz and the video bandwidth is 100 kHz for the transmitter output measurement.

#### 4.8.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.8.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 4.8.6 EUT OPERATING CONDITIONS

- The notebook system makes a phone call to the CDMA simulator.
- The CDMA simulator station system controlled an EUT to export maximum output power under transmission mode and specific channel frequency.

#### 4.8.7 TEST RESULTS

<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX channel 1013	<b>FREQUENCY RANGE</b>	Above 1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 62%RH, 991hPa
<b>TESTED BY</b>	Bright		

##### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBm)	Limit (dBm)	Margin(dB)
1	1648.24	-52.51	-13	-39.51
2	2472.36	-49.43	-13	-36.43
3	3296.48	-34.38	-13	-21.38
4	4120.6	-41.65	-13	-28.65
5	4944.72	-42.3	-13	-29.3
6	5768.84	-40.63	-13	-27.63
7	6592.96	-36.66	-13	-23.66
8	7417.08	-34.56	-13	-21.56
9	8241.2	-31.78	-13	-18.78

##### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
1	1648.24	-46.15	-13	-33.15
2	2472.36	-48.26	-13	-35.26
3	3296.48	-41.28	-13	-28.28
4	4120.6	-42.81	-13	-29.81
5	4944.72	-37.98	-13	-24.98
6	5768.84	-40.07	-13	-27.07
7	6592.96	-35.94	-13	-22.94
8	7417.08	-33.6	-13	-20.6
9	8241.2	-31.69	-13	-18.69

<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX channel 384	<b>FREQUENCY RANGE</b>	Above 1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 62%RH, 991hPa
<b>TESTED BY</b>	Bright		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBm)	Limit (dBm)	Margin(dB)
1	1673.16	-49.27	-13	-36.27
2	2509.74	-42.23	-13	-29.23
3	3346.32	-33.92	-13	-20.92
4	4182.9	-42.54	-13	-29.54
5	5019.48	-40.24	-13	-27.24
6	5856.06	-39.49	-13	-26.49
7	6692.64	-36.02	-13	-23.02
8	7529.22	-33.41	-13	-20.41
9	8365.8	-31.54	-13	-18.54

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
1	1673.16	-51.21	-13	-38.21
2	2509.74	-51.43	-13	-38.43
3	3346.32	-40.3	-13	-27.3
4	4182.9	-43.06	-13	-30.06
5	5019.48	-40.21	-13	-27.21
6	5856.06	-39.5	-13	-26.5
7	6692.64	-36.26	-13	-23.26
8	7529.22	-33.96	-13	-20.96
9	8365.8	-31.72	-13	-18.72

**NOTE:** Power Value (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

<b>EUT</b>	CDMA 1X Digital Mobile Phone	<b>MODEL</b>	C600
<b>MODE</b>	TX channel 777	<b>FREQUENCY RANGE</b>	Above 1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>ENVIRONMENTAL CONDITIONS</b>	24deg. C, 62%RH, 991hPa
<b>TESTED BY</b>	Bight		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBm)	Limit (dBm)	Margin(dB)
1	1697.52	-48.08	-13	-35.08
2	2546.28	-42.91	-13	-29.91
3	3395.04	-32.61	-13	-19.61
4	4243.8	-41.29	-13	-28.29
5	5092.56	-41.41	-13	-28.41
6	5941.32	-40.04	-13	-27.04
7	6790.08	-36.17	-13	-23.17
8	7638.84	-33.12	-13	-20.12
9	<b>8487.6</b>	<b>-31.4</b>	<b>-13</b>	<b>-18.4</b>

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
1	1697.52	-48.64	-13	-35.64
2	2546.28	-49.89	-13	-36.89
3	3395.04	-36.73	-13	-23.73
4	4243.8	-42.77	-13	-29.77
5	5092.56	-40.22	-13	-27.22
6	5941.32	-39.95	-13	-26.95
7	6790.08	-36.62	-13	-23.62
8	7638.84	-33.28	-13	-20.28
9	8487.6	-31.49	-13	-18.49

## 5 INFORMATION ON THE TESTING LABORATORY

We, ADT (Shanghai) Corp., were founded in 2003 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

**JAPAN****USA****Norway**

VCCI

FCC, A2LA

DNV



Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: [www.cnadt.com](http://www.cnadt.com)

If you have any comments, please feel free to contact us at the following:

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