



FCC TEST REPORT

for

47 CFR Part 22H

Equipment : CDMA 2000 Mobile Phone
Trade Name : RH-103
Model No. : 1265
FCC ID : QMNRH-103
Tx Frequency Range : 824~849 MHz
Rx Frequency Range : 869~894 MHz
Max. EIRP Power : 0.12 W
Emission Designator : 1M25F9W
Applicant : Nokia Inc.
12278 Scripps Summit Dr. San Diego CA 92131 USA

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- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsed by NVLAP or any agency of U.S. government.**
- The data shown in this test report were carried out on Jan. 06, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG6N2913, Report Version: Rev. 03

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History of this test report

Report Issue Date: Jan. 06, 2007

Report No.	Description



1. General Information

1.1. Applicant

Nokia Inc.

12278 Scripps Summit Dr. San Diego CA 92131 USA

1.2. Manufacturer

Foxconn International Holdings Limited

No. 2, 2nd Dong Huan Road, 10th YouSong Industrial District, Longhua Town, Baoan, Shenzhen, Guangdong, China

1.3. Basic Description of Equipment under Test

Equipment	: CDMA 2000 Mobile Phone
Trade Name	: RH-103
Model No.	: 1265
Power Supply Type	: Switching, From battery 3.7V
AC Power Cord	: AC 120V, Wall-mount, 1.8 meter, 2 pin
Earphone	: Nokia, HS-9
Adapter	: Nokia, AC-3C
Battery	: Nokia, BL-4C

**1.2 Feature of Equipment under Test**

DUT Type :	CDMA 2000 Mobile Phone
Trade Name :	RH-103
Model Name :	1265
FCC ID :	QMNRH-103
Phone ESN Number :	03706347576
Tx Frequency :	824~849 MHz
Rx Frequency :	869~894 MHz
Maximum Output Power to Antenna :	25.36 dBm
Maximum ERP :	0.12 W (20.84 dBm)
HW ID:	2200
SW Version :	ER_GEN_Q802251_B0301
Antenna Type :	Fixed Internal
Antenna Gain :	-4.4 dBi
Digital Modulation Emission :	QPSK
Type of Emission :	1M25F9W
DUT Stage :	Identical Prototype

1.3 Report Date

EUT Received : Nov. 29, 2006

Report Date : Jan. 06, 2007

2. Test Configuration of Equipment under Test

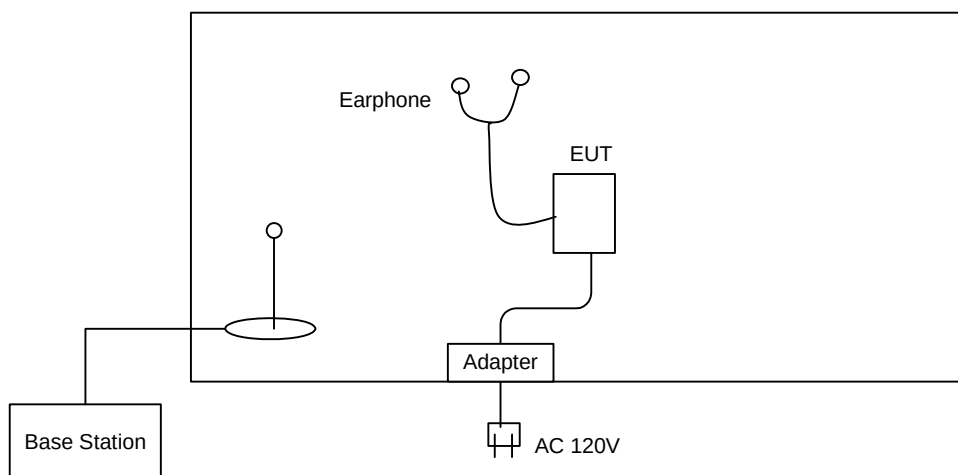
2.1 Test Manner

- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode with base station emulator at maximum power level.
- Frequency range investigated: radiated emission 30MHz to 9000 MHz for CDMA2000 Cellular 850 band.

2.2 Test Mode

Application	CDMA2000 Cellular 850 band
Radiated Emission	☒ Mode 1: CDMA2000 Link Mode
Conducted Measurement	☒ Mode 1: CDMA2000 Link Mode

2.3 Connection Diagram of Test System



2.4 Ancillary Equipment List

Item	Asset	Trade Name	Model Name	Power Cord
1.	Base Station	Agilent	E5515C	AC 100-240V



3. General Information of Test Site

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-318-0055
Test Site No : 03CH06-HY
FCC Reg. Num. : 101377

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC. The Industry Canada file number for this site is IC 4088.

3.1 Test Voltage

120V / 60Hz

3.2 Test in Compliance with

47 CFR Part 22H, and Part 2

3.3 Frequency Range Investigated

- a. Radiation: from 30 MHz to 9000 MHz for CDMA2000 Cellular 850 band.

3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



4. Test Data and Test Result

4.1 List of Measurements and Examinations

FCC Rule	DESCRIPTION OF TEST	Result	Section
§2.1046	RF Output Power	Passed	4.2
§22.913,	ERP / EIRP	Passed	4.3
§2.1049, §22.917	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§2.1051	Conducted Emission	Passed	4.5
§2.1053	Field Strength of Spurious Radiation	Passed	4.6
§2.1055, §22.355	Frequency Stability vs. Temperature	Passed	4.7
§2.1055, §22.355	Frequency Stability vs. Voltage	Passed	4.8

4.2 RF Output Power

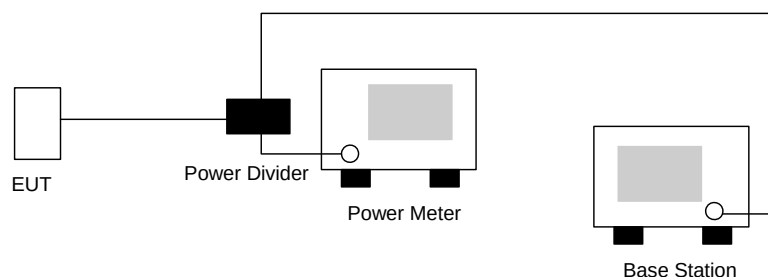
4.2.1 Measurement Instruments :

As described in chapter 5 of this test report.

4.2.2 Test Procedure :

1. The transmitter output was connected to power meter and base station through power divider.
2. Set EUT to maximum power through base station.
3. Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout :



4.2.4 Test Result :

Temperature : 23°C

Relative Humidity : 52%

Test Engineer: James Huang

Bands	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
CDMA2000 Cellular850 Band	1013	824.70 (Low)	24.73	0.297
	384	836.52 (Mid)	25.36	0.344
	777	848.31 (High)	24.88	0.308



4.3 ERP / EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603.

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

1. The EUT was placed on a rotatable table with 1.0 meter height in an fully anechoic chamber.
2. The EUT was set 1.2 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiated power.
4. The height of the receiving antenna is also kept at 1.0M height.
5. Taking the record of maximum ERP/EIRP.
6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
7. The conducted power at the terminal of the dipole antenna is measured.
8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
9. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

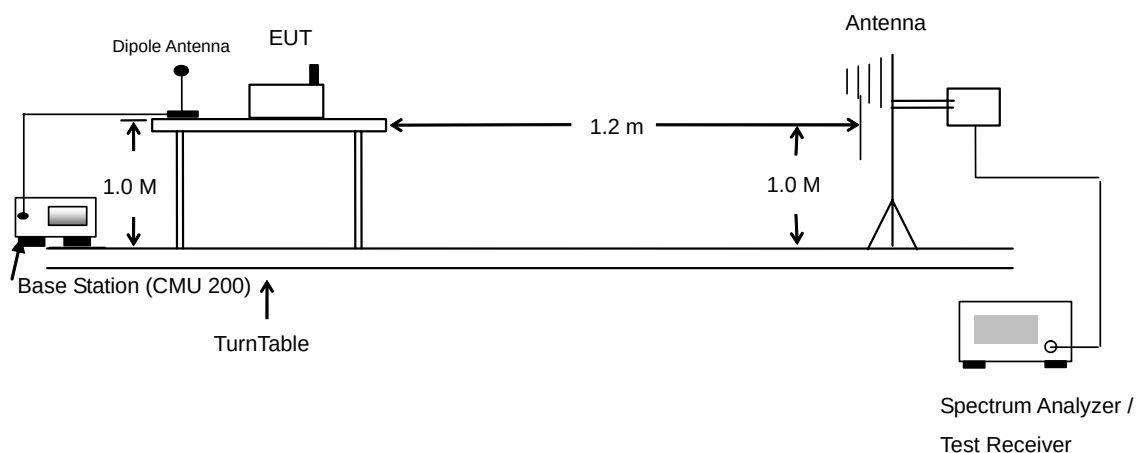
$E_s = R_s + AF$

AF (dB/m) : Receive antenna factor

R_t : The highest received signal in Spectrum Analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

4.3.3 Test Setup Layout of ERP/EIRP



4.3.4 Test Result

Temperature : 23°C

Relative Humidity : 52%

Test Engineer: James Huang

CDMA2000 Cellular850 Band Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	ERP (dBm)	ERP (W)
824.2	-26.56	-48.12	0	-1.08	20.48	0.11
836.4	-26.51	-48.28	0	-0.93	20.84	0.12
848.8	-27.51	-48.35	0	-0.76	20.08	0.10
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	ERP (dBm)	ERP (W)
824.2	-37.09	-47.97	0	-1.08	9.80	0.01
836.4	-37.20	-48.01	0	-0.93	9.88	0.01
848.8	-38.41	-48.05	0	-0.76	8.88	0.01

4.4 Occupied Bandwidth and Band Edge Measurement

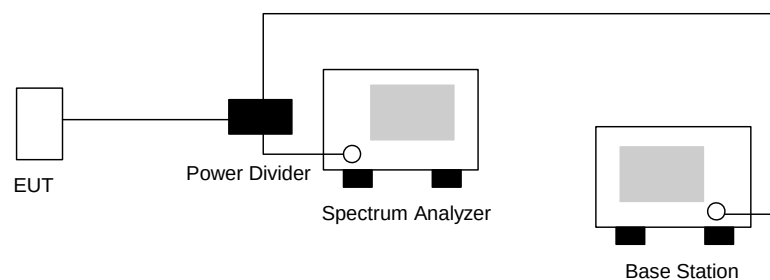
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers were measured.
3. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.

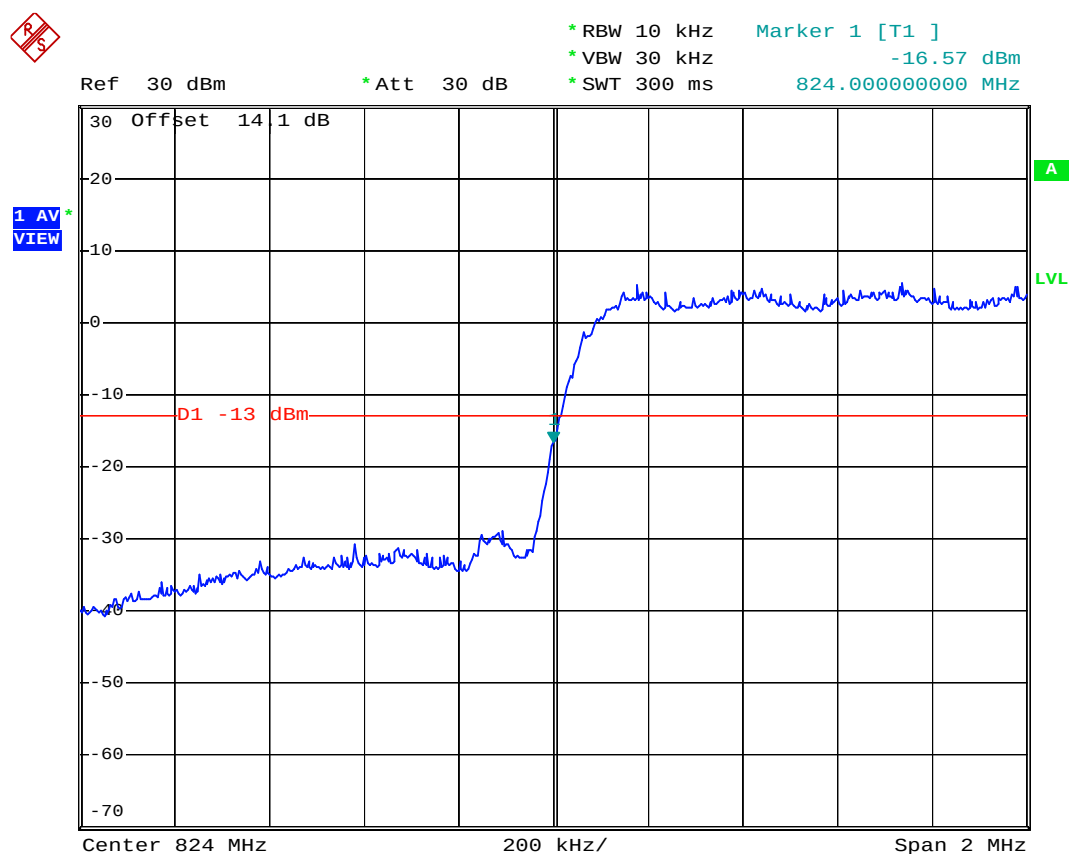
4.4.3 Test Setup Layout



**4.4.4 Test Result**

- Temperature : 21°C
- Relative Humidity : 48%
- Test Mode : Mode 1
- Test Engineer: James Huang
- Test Mode : CDMA2000 Cellular850 Band CH 1013 Lower Band Edge

Power State : High



Date: 30.NOV.2006 03:26:39



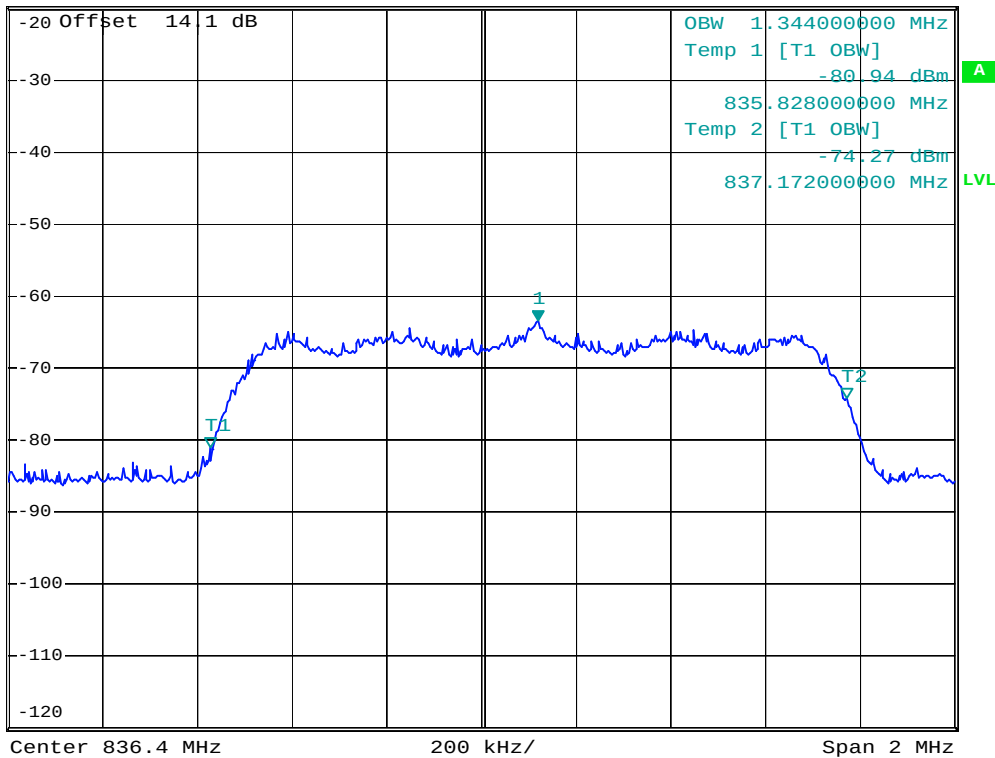
- Test Mode : CDMA2000 Cellular850 Band CH 384 99% Occupied Bandwidth

Power State : Low



* RBW 30 kHz Marker 1 [T1]
* VBW 30 kHz -63.42 dBm
* SWT 300 ms 836.52000000 MHz

Ref -20 dBm * Att 0 dB

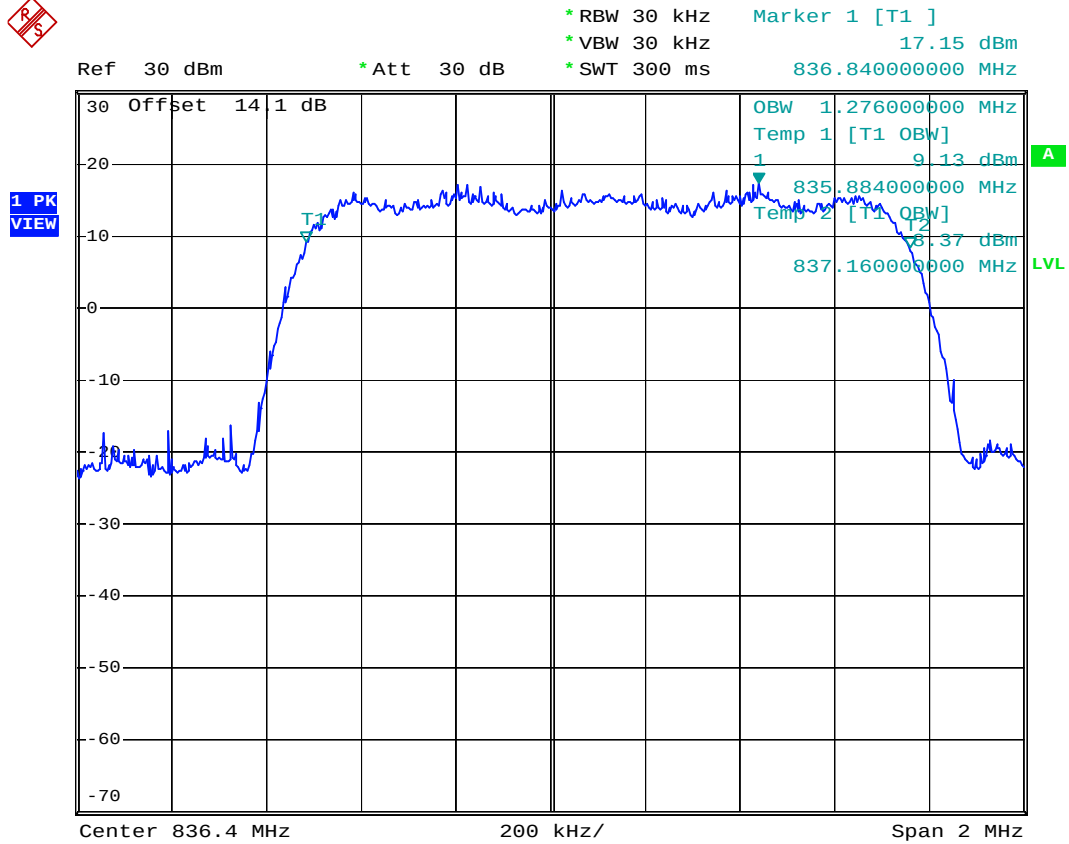
1 PK
VIEW

Date: 30.NOV.2006 03:35:08



- Test Mode : CDMA2000 Cellular850 Band CH 384 99% Occupied Bandwidth

Power State : High

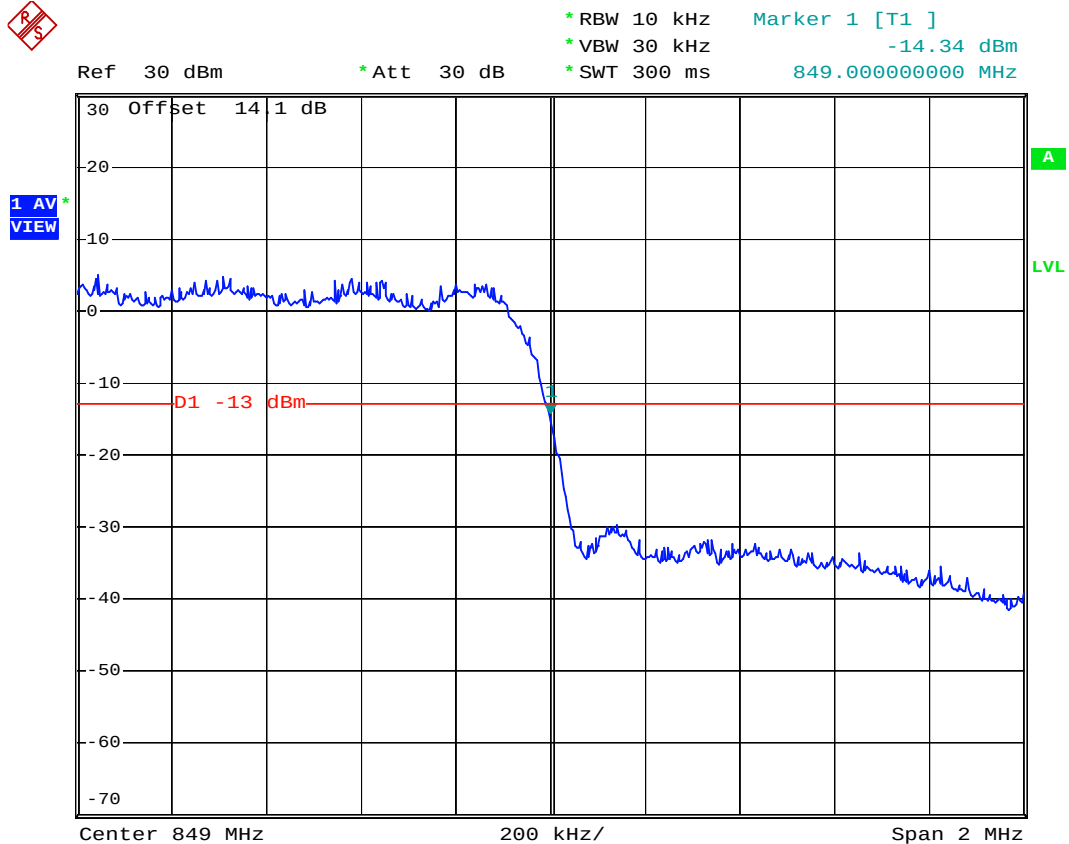


Date: 30.NOV.2006 03:28:32



- Test Mode : CDMA2000 Cellular850 Band CH 777 Higher Band Edge

Power State : High



Date: 30.NOV.2006 03:24:59

4.5 Conducted Emission

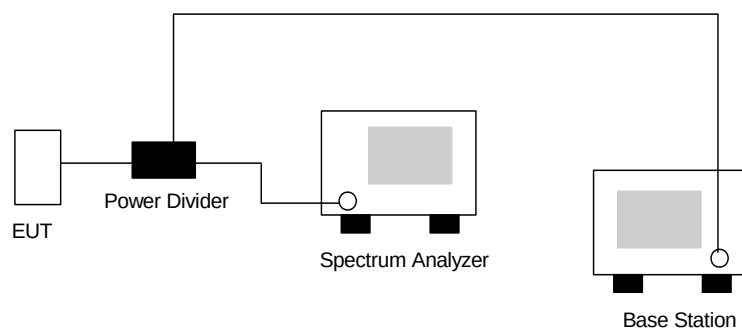
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The low, middle and high channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

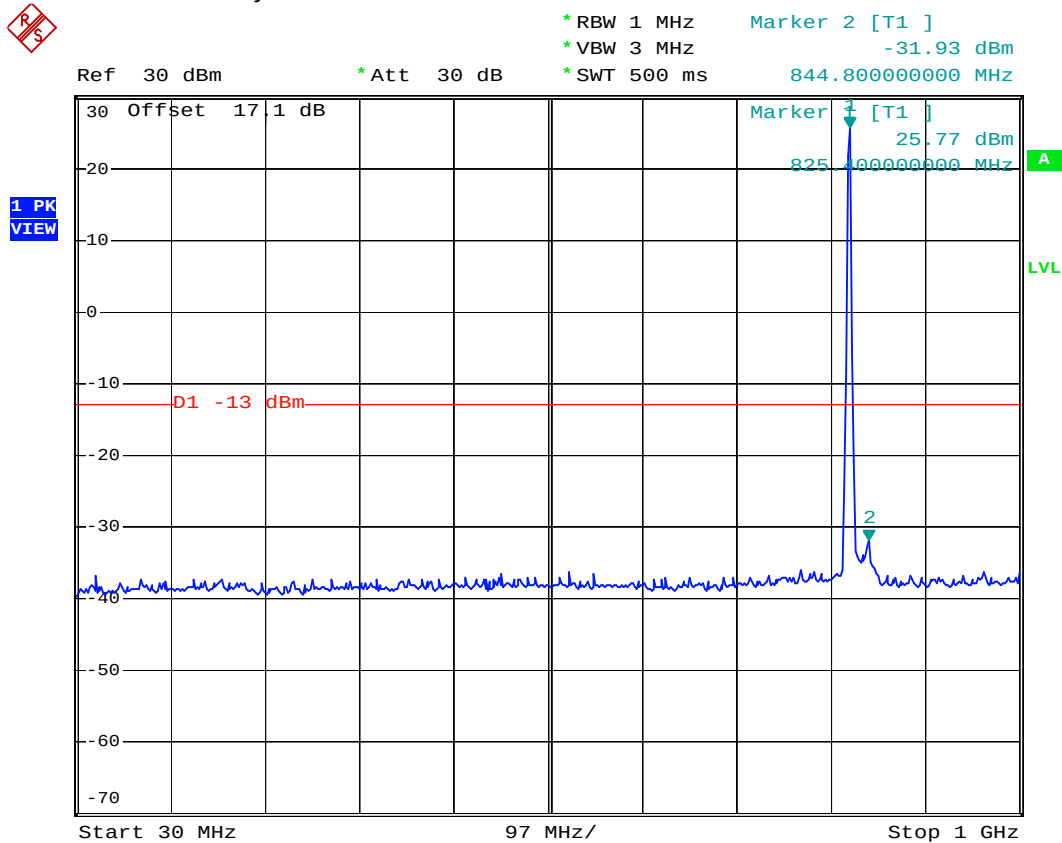
4.5.3 Test Setup Layout





4.5.4 Test Result

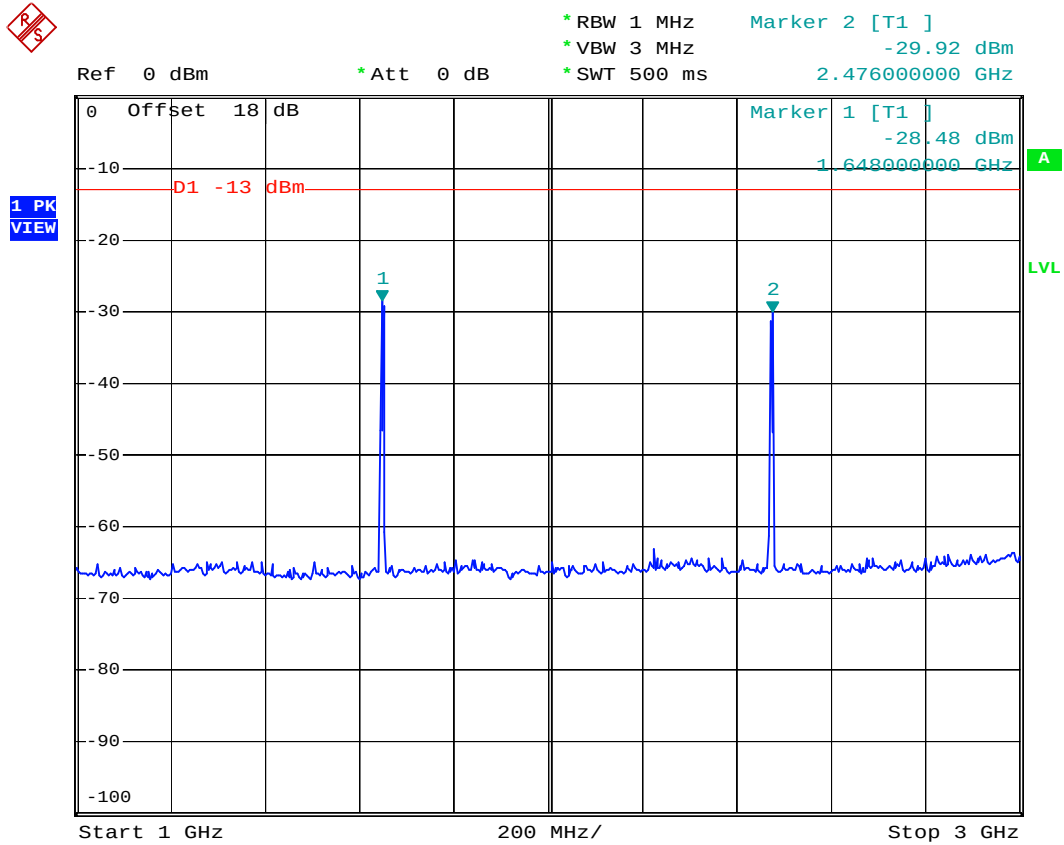
- Temperature : 21°C
- Relative Humidity : 48%
- Test Mode : Mode 1
- Test Engineer: James Huang
- Test Mode : CDMA2000 Cellular850 CH1013
- Frequency Range : 30M-1G
- Attenuations of System : 17.1 dB



Date: 6.JAN.2007 15:58:28



- Test Mode : CDMA2000 Cellular850 CH1013
- Frequency Range : 1G-3G
- Attenuations of System : 18.0 dB



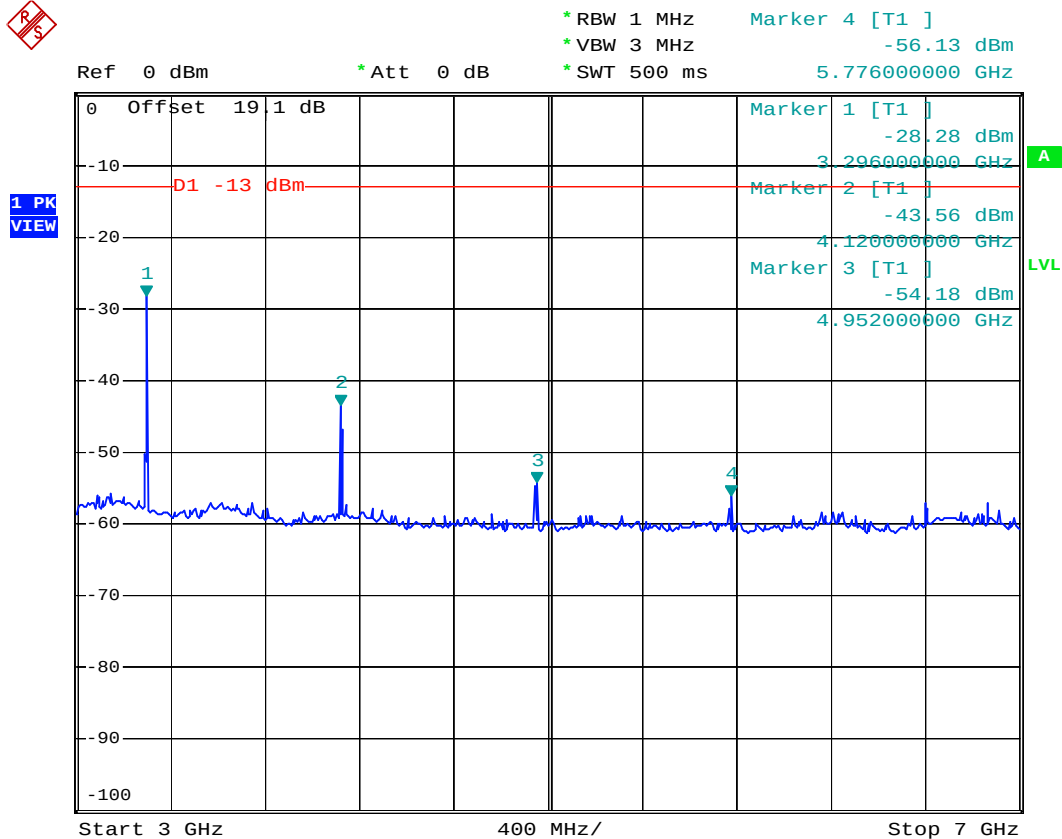
Date: 6.JAN.2007 15:57:19



FCC TEST REPORT

Report No. : FG6N2913

- Test Mode : CDMA2000 Cellular850 CH1013
- Frequency Range : 3G-7G
- Attenuations of System : 19.1 dB



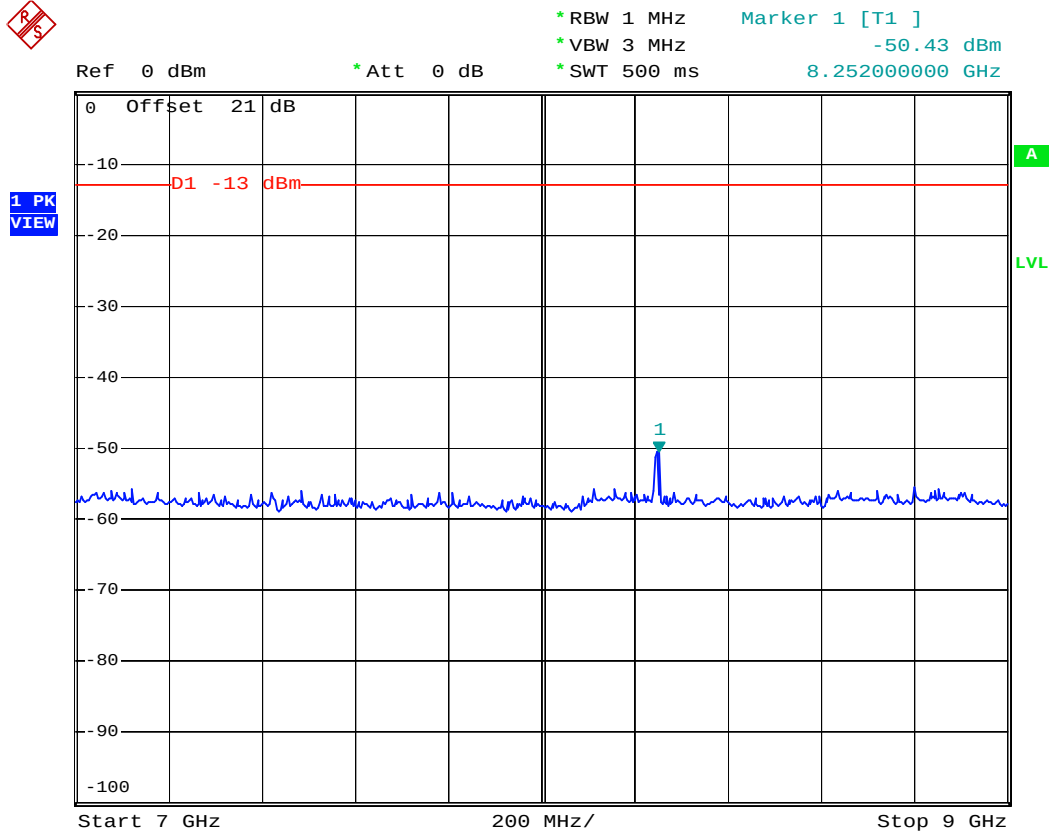
Date: 6.JAN.2007 15:56:45



FCC TEST REPORT

Report No. : FG6N2913

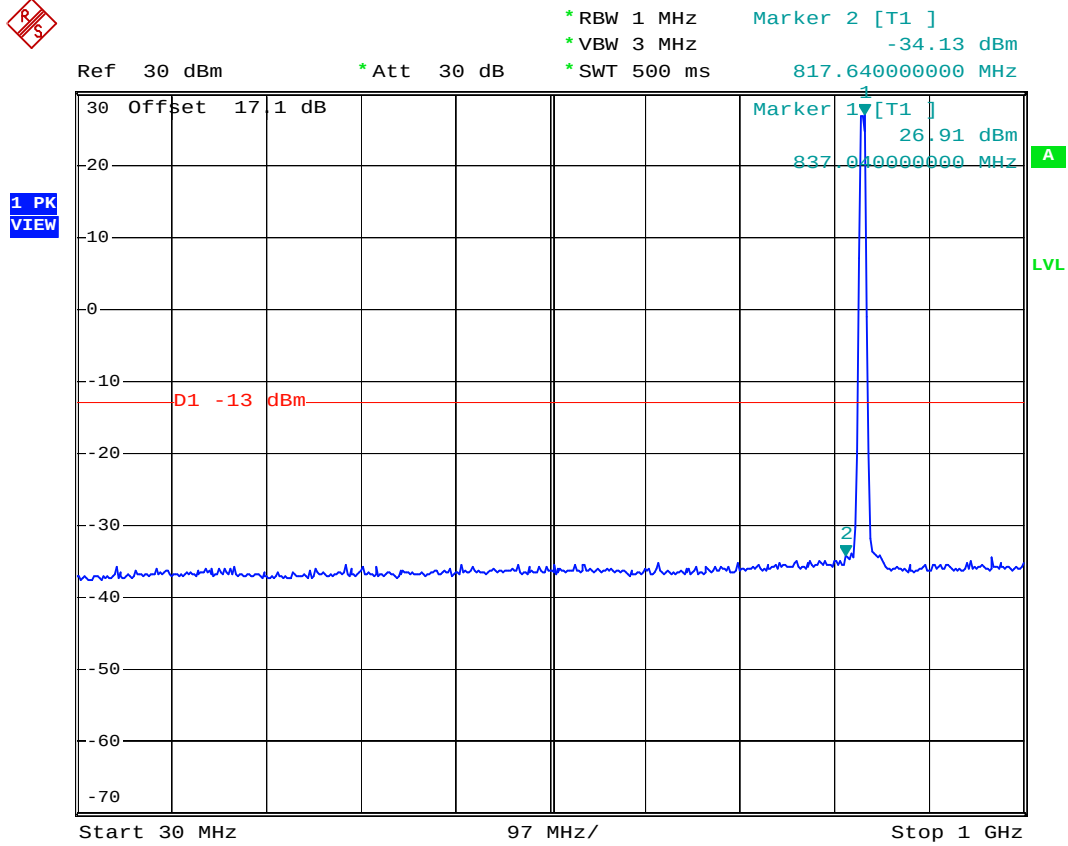
- Test Mode : CDMA2000 Cellular850 CH1013
- Frequency Range : 7G-9G
- Attenuations of System : 21.0 dB



Date: 6.JAN.2007 15:56:07



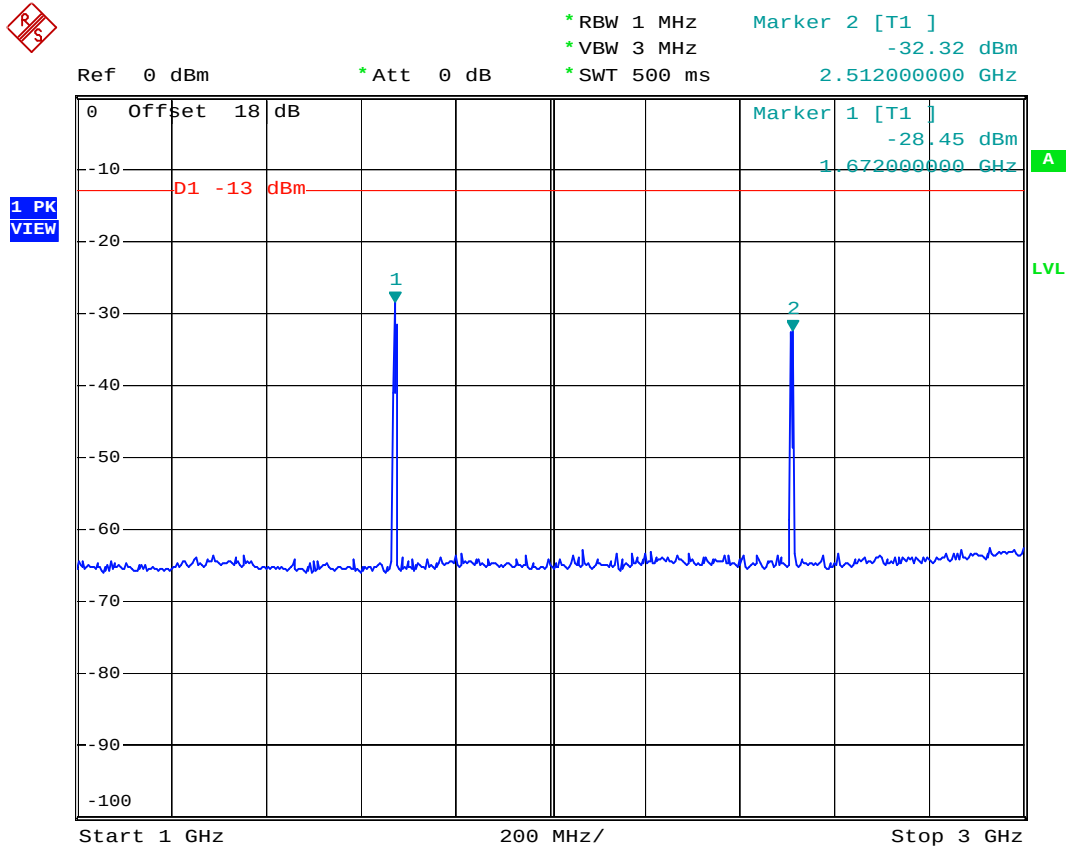
- Test Mode : CDMA2000 Cellular850 CH384
- Frequency Range : 30M-1G
- Attenuations of System : 17.1 dB



Date: 30.NOV.2006 03:46:58

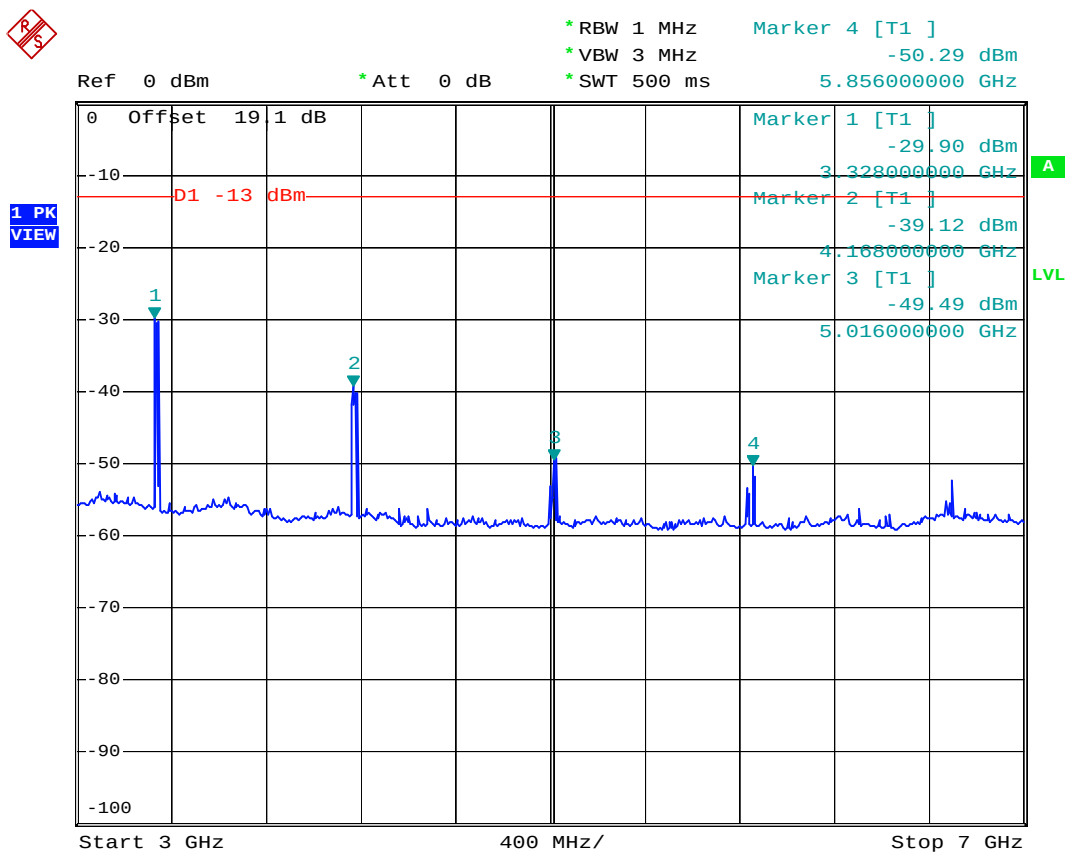


- Test Mode : CDMA2000 Cellular850 CH384
- Frequency Range : 1G-3G
- Attenuations of System : 18.0 dB



Date: 30.NOV.2006 03:48:56

- Test Mode : CDMA2000 Cellular850 CH384
- Frequency Range : 3G-7G
- Attenuations of System : 19.1 dB



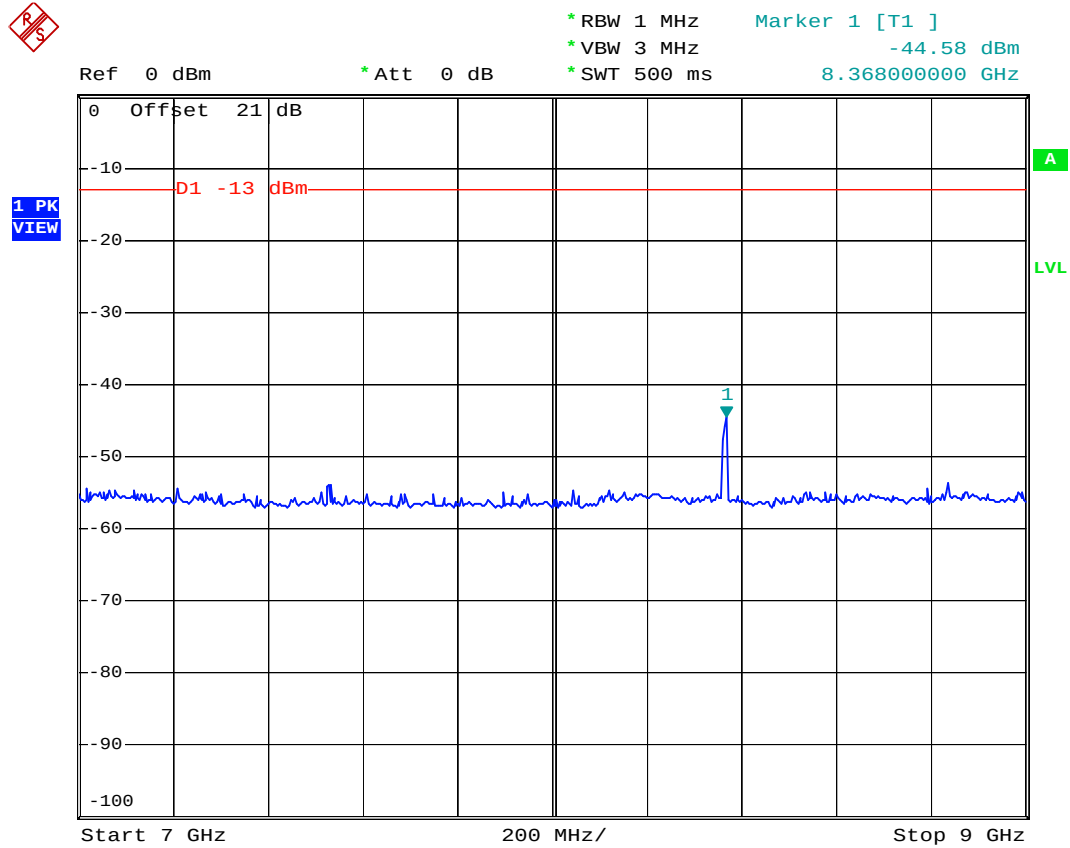
Date: 30.NOV.2006 03:53:12



FCC TEST REPORT

Report No. : FG6N2913

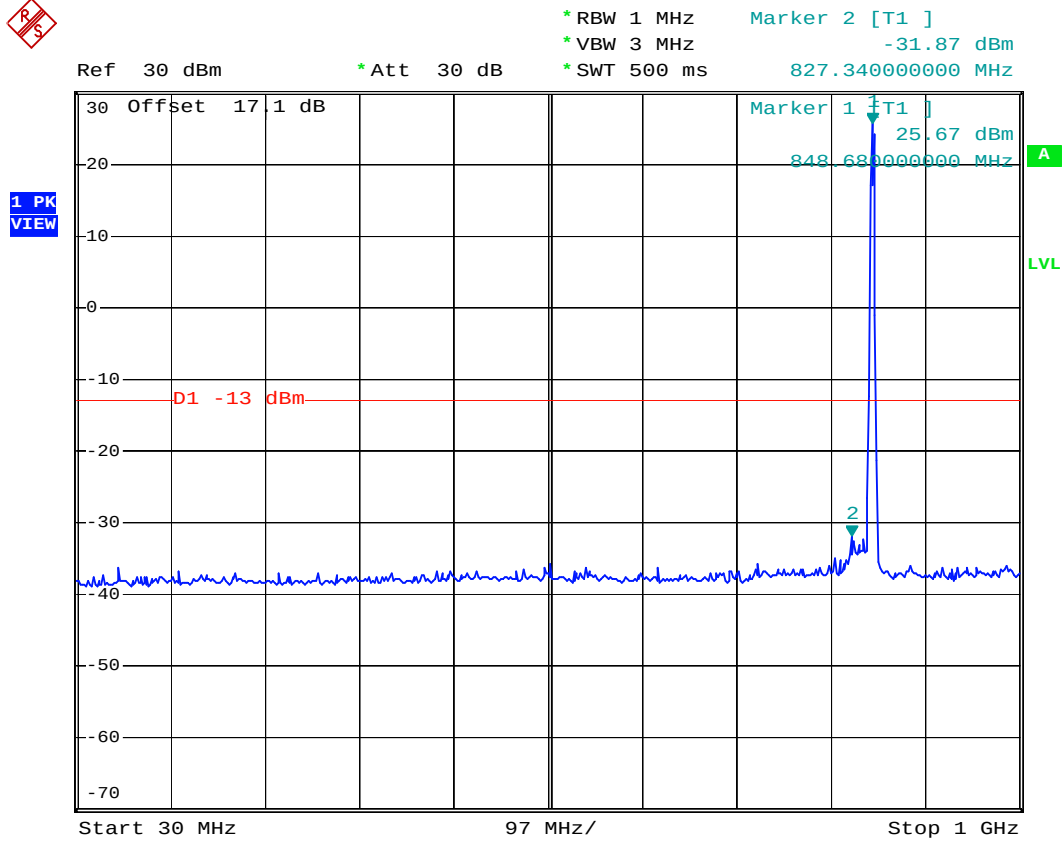
- Test Mode : CDMA2000 Cellular850 CH384
- Frequency Range : 7G-9G
- Attenuations of System : 21.0 dB



Date: 30.NOV.2006 03:55:07



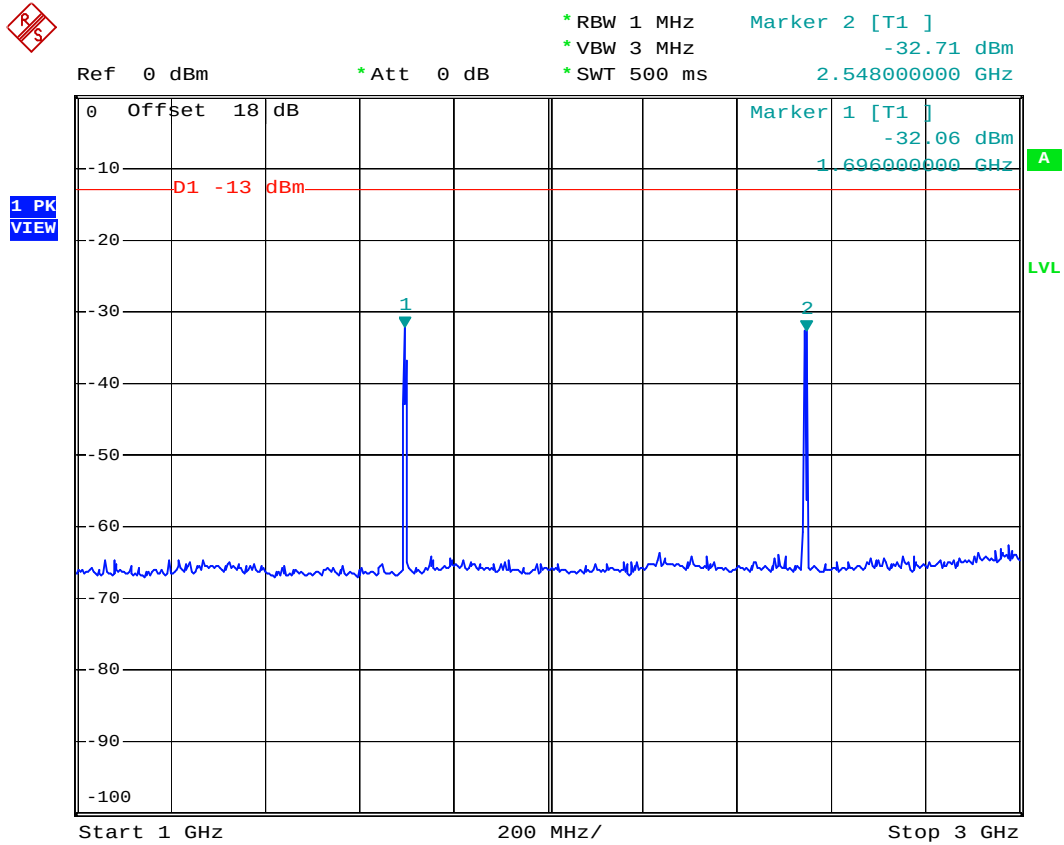
- Test Mode : CDMA2000 Cellular850 CH777
- Frequency Range : 30M-1G
- Attenuations of System : 17.1 dB



Date: 6.JAN.2007 15:51:45



- Test Mode : CDMA2000 Cellular850 CH777
- Frequency Range : 1G-3G
- Attenuations of System : 18.0 dB



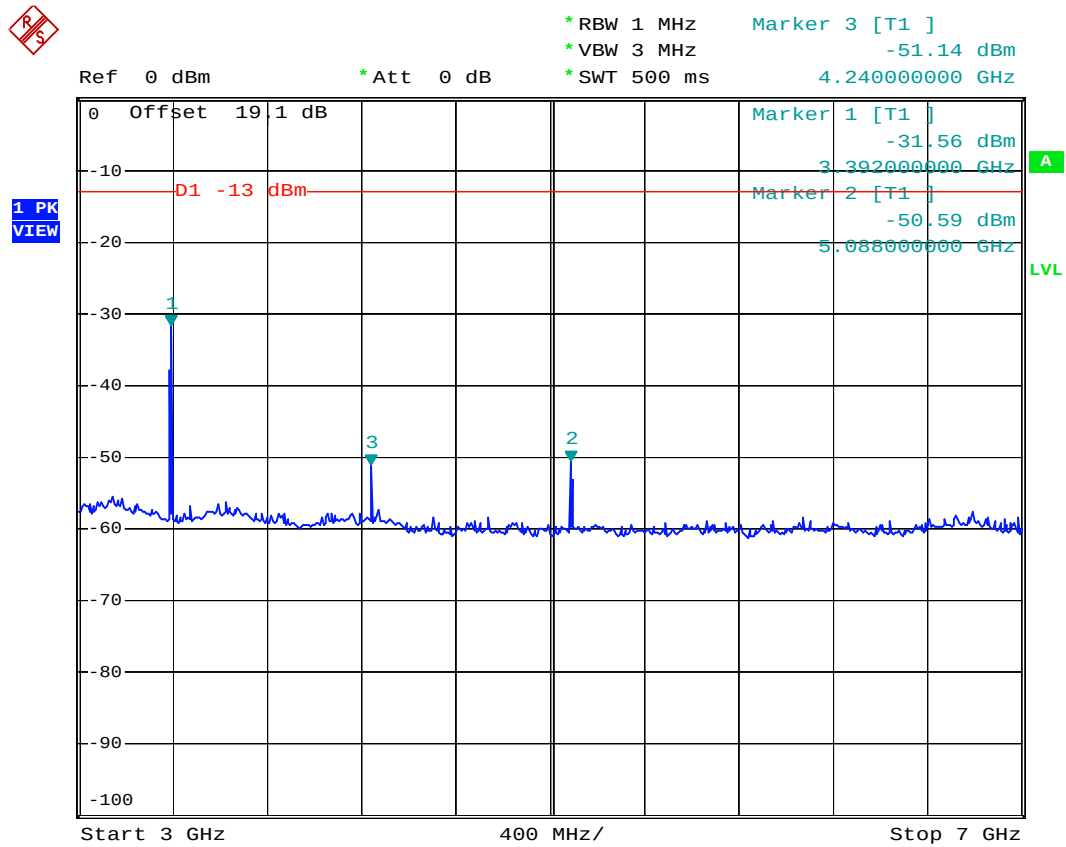
Date: 6.JAN.2007 15:52:59



FCC TEST REPORT

Report No. : FG6N2913

- Test Mode : CDMA2000 Cellular850 CH777
- Frequency Range : 3G-7G
- Attenuations of System : 19.1 dB



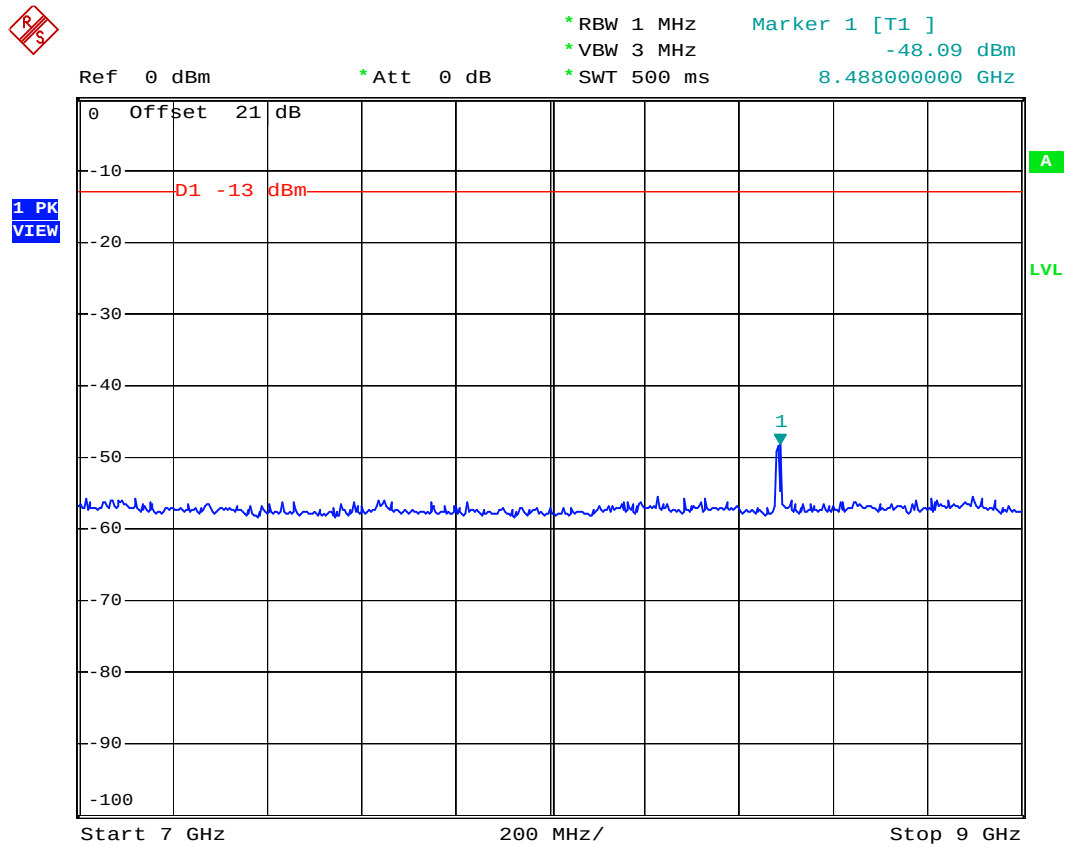
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FCC TEST REPORT

Report No. : FG6N2913

- Test Mode : CDMA2000 Cellular850 CH777
- Frequency Range : 7G-9G
- Attenuations of System : 21.0 dB



Date: 6.JAN.2007 15:54:37

4.6 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to TIA/EIA-603.

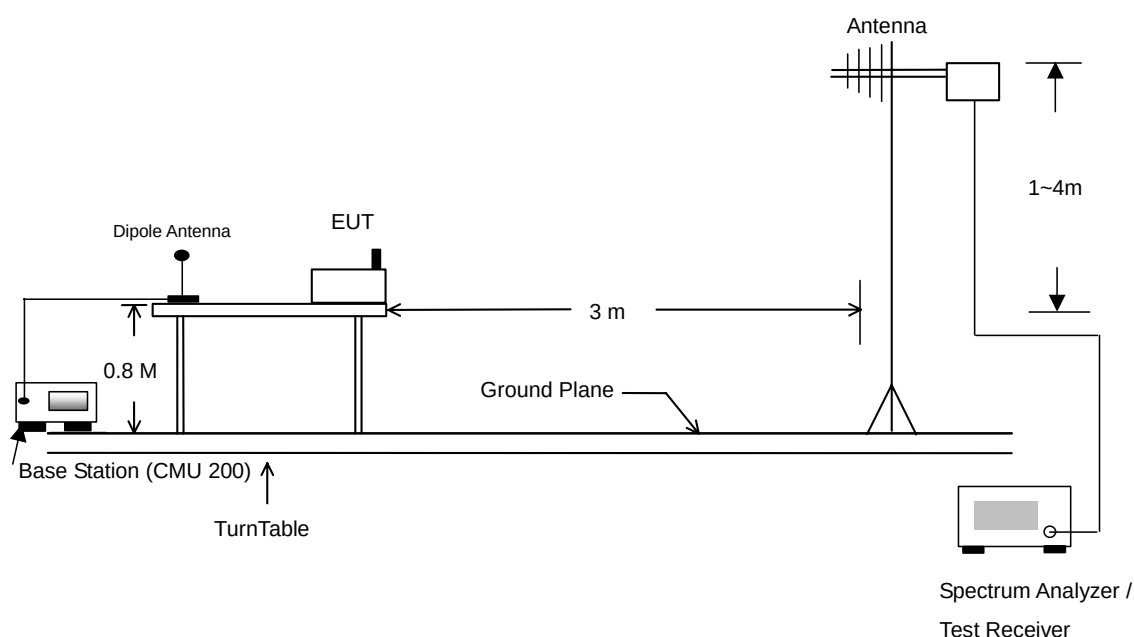
4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Emission level (dBm) = output power + substitution Gain.

4.6.3 Test Setup Layout



4.6.4 Test Result

- Temperature : 22°C
- Relative Humidity : 51%
- Test Mode : Mode 1
- Test Engineer: James Huang

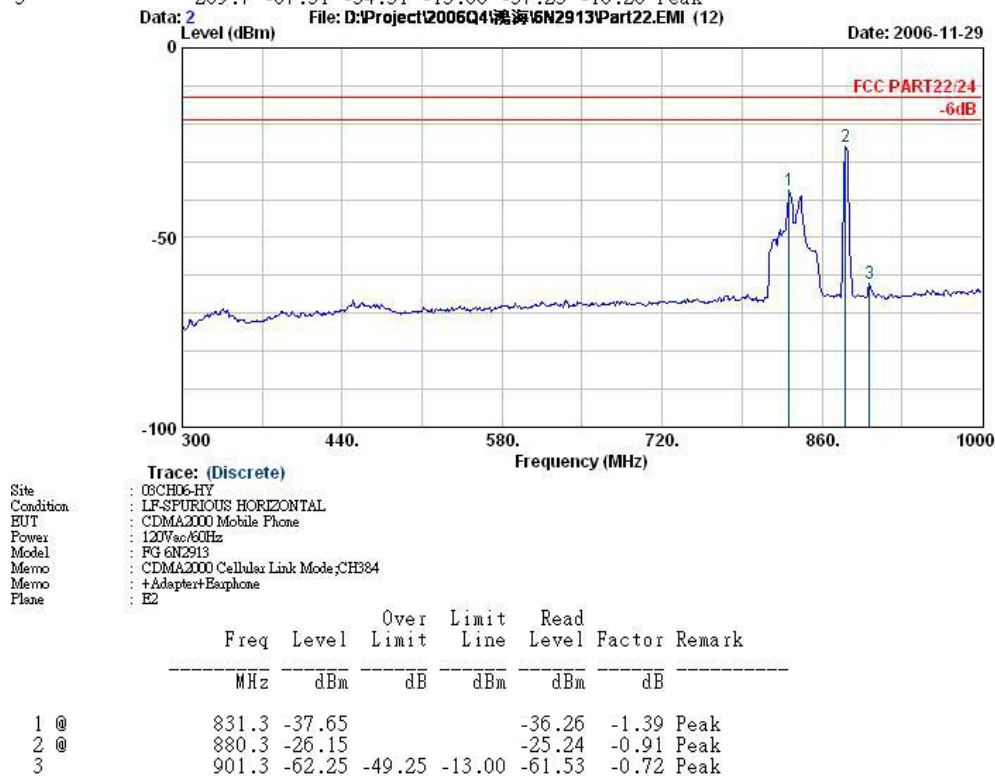
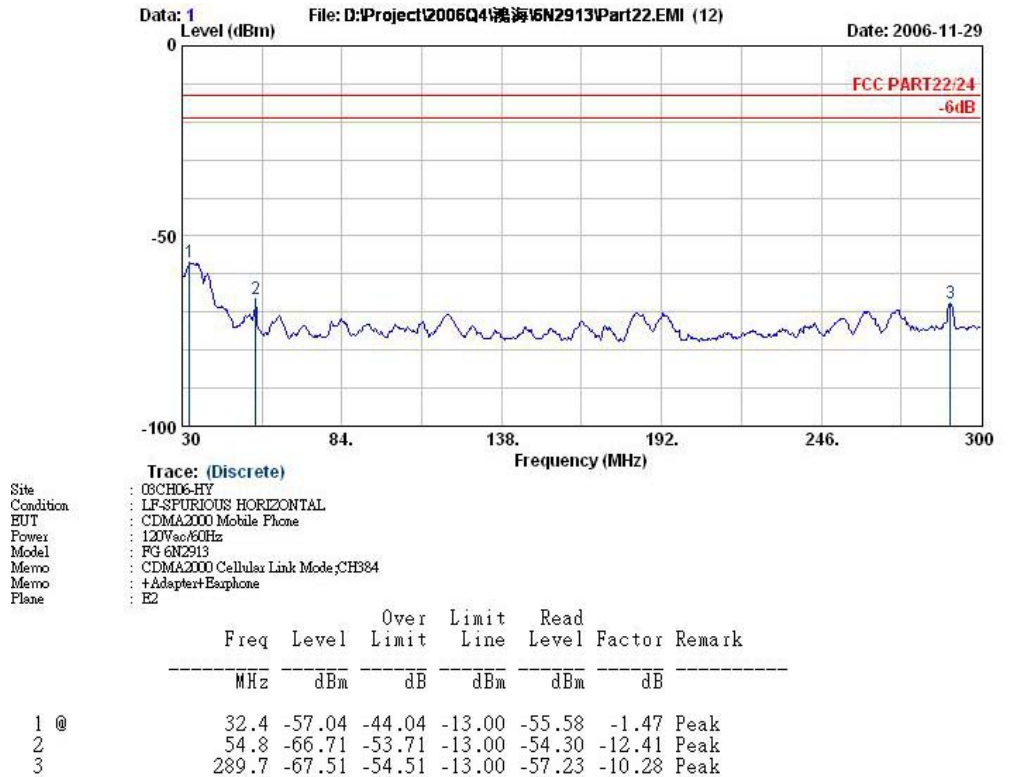
CDMA2000 Cellular850 Band with Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
32.430	-59.190	-13	-46.19	32.430	-55.510	-13	-42.51
54.840	-68.860	-13	-55.86	91.830	-57.570	-13	-44.57
289.740	-69.660	-13	-56.66	103.980	-57.240	-13	-44.24
901.300	-64.400	-13	-51.40	983.900	-62.910	-13	-49.91
1674.000	-45.130	-13	-32.13	1674.000	-51.190	-13	-38.19



4.6.5 Test Data

4.6.5.1 Test Mode : Mode 1

Horizontal Polarization



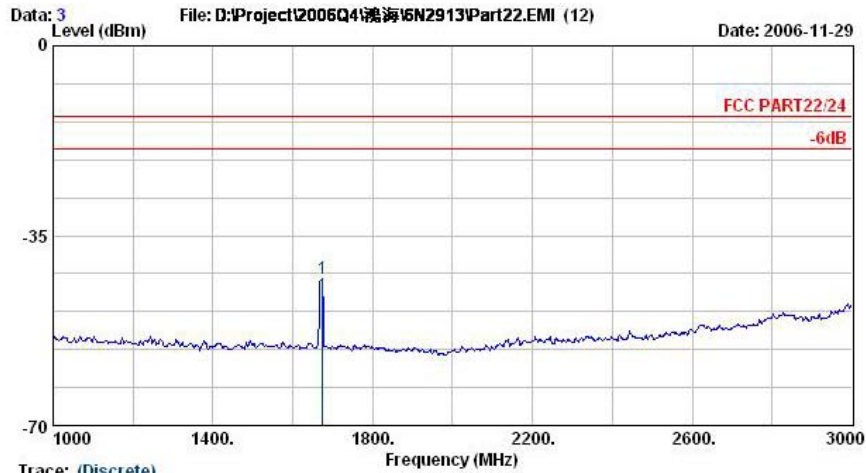
Remark:

1. MS Signal
2. BS Signal



FCC TEST REPORT

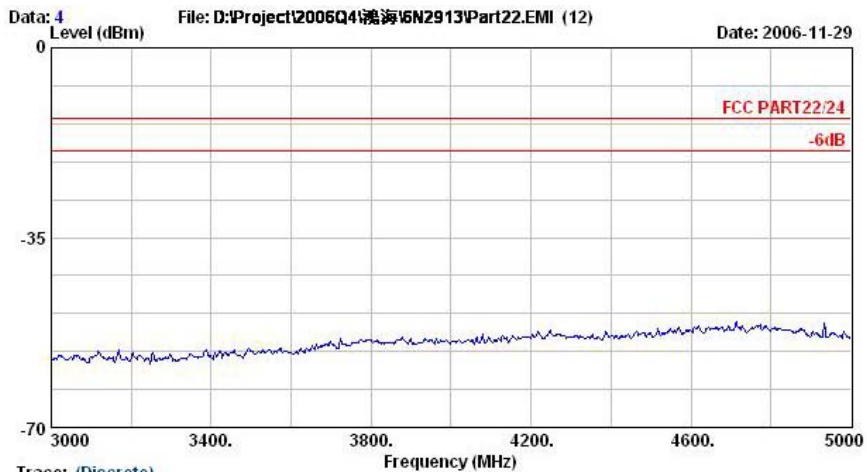
Report No. : FG6N2913



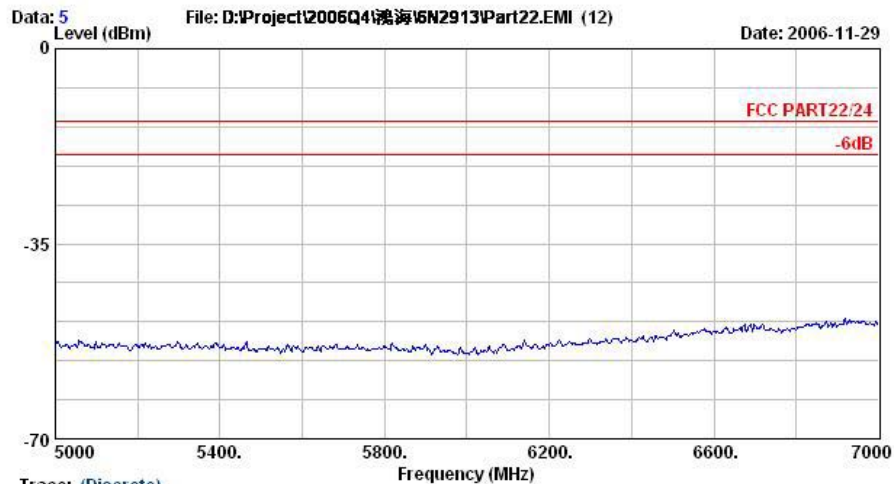
Trace: (Discrete)
Site : 08CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : CDMA2000 Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2913
Memo : CDMA2000 Cellular Link Mode,CH384
Memo : +Adaptex+Earphone
Plane : E2

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	dB

1 @	1674.0	-42.98	-29.98	-13.00	-43.21	0.22 Peak
-----	--------	--------	--------	--------	--------	-----------



Trace: (Discrete)
Site : 08CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : CDMA2000 Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2913
Memo : CDMA2000 Cellular Link Mode,CH384
Memo : +Adaptex+Earphone
Plane : E2



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SPURIOUS HORIZONTAL

EUT : CDMA2000 Mobile Phone

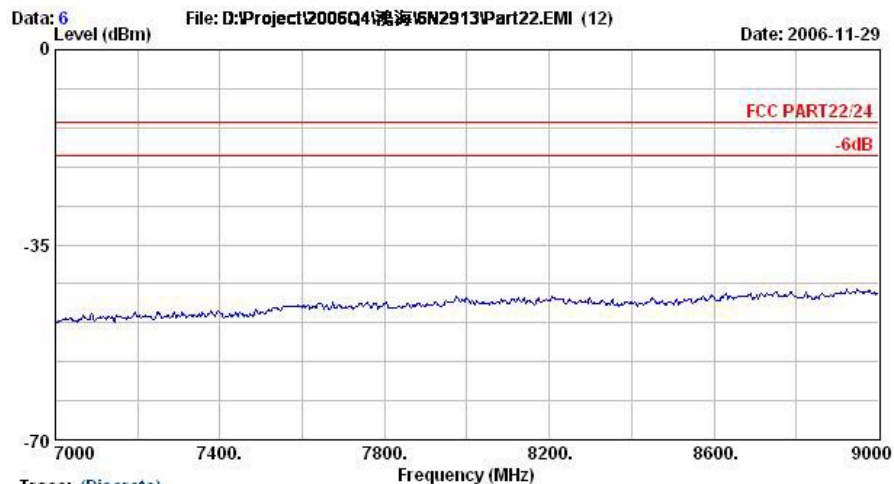
Power : 120Vac/60Hz

Model : FG 6N2913

Memo : CDMA2000 Cellular Link Mode;CH384

Memo : +Adapter+Earphone

Plane : E2



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SPURIOUS HORIZONTAL

EUT : CDMA2000 Mobile Phone

Power : 120Vac/60Hz

Model : FG 6N2913

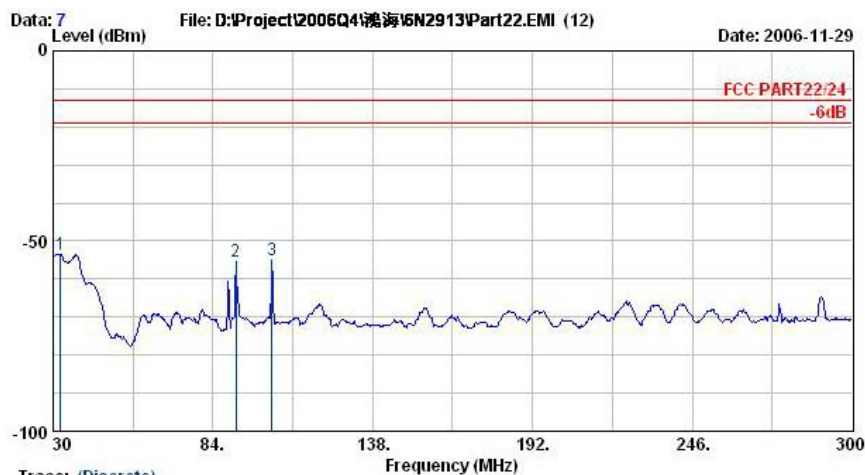
Memo : CDMA2000 Cellular Link Mode;CH384

Memo : +Adapter+Earphone

Plane : E2



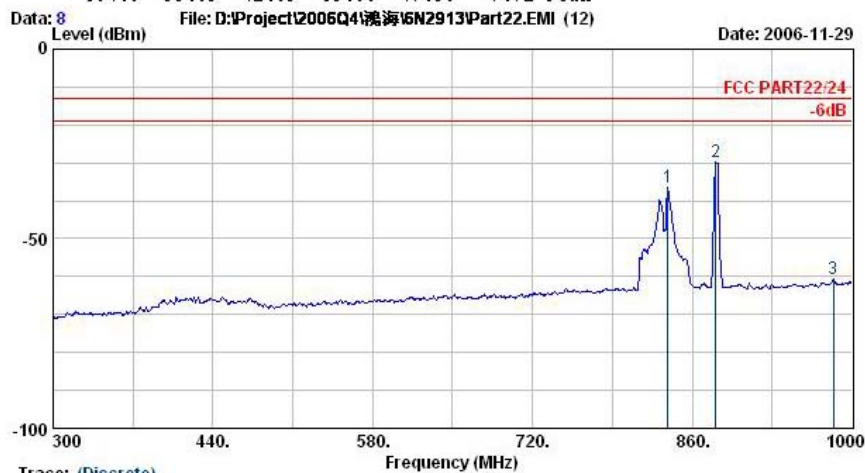
Vertical Polarization



Trace: (Discrete)

Site : 08CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : CDMA2000 Mobile Phone
Power : 120Wac/60Hz
Model : FG 6N2913
Memo : CDMA2000 Cellular Link Mode;CH384
Plane : +Adapt+Earphone
E2

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1 @	32.4	-53.36	-40.36	-13.00	-43.47	-9.89 Peak
2 @	91.8	-55.42	-42.42	-13.00	-46.61	-8.81 Peak
3 @	104.0	-55.09	-42.09	-13.00	-47.36	-7.72 Peak



Trace: (Discrete)

Site : 08CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : CDMA2000 Mobile Phone
Power : 120Wac/60Hz
Model : FG 6N2913
Memo : CDMA2000 Cellular Link Mode;CH384
Plane : +Adapt+Earphone
E2

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dBm	dB	dBm	dBm	dB
1 @	838.3	-36.42			-37.79	1.37 Peak
2 @	880.3	-29.74			-31.45	1.71 Peak
3 @	983.9	-60.76	-47.76	-13.00	-63.29	2.53 Peak

Remark:

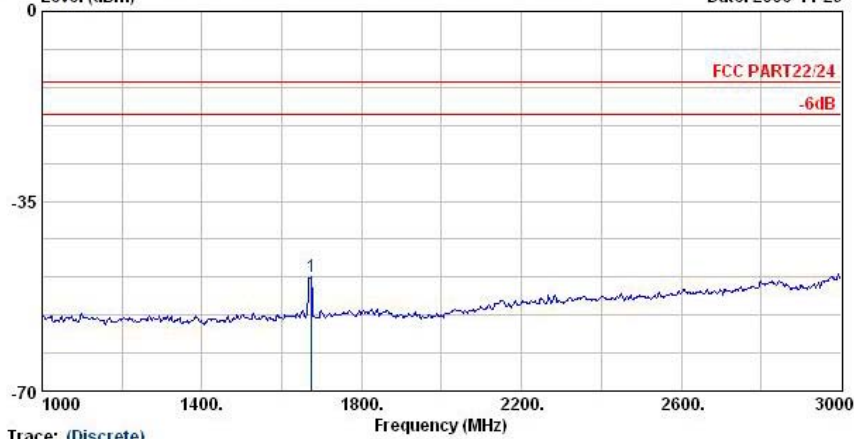
1. #1: MS Signal
2. #2: BS Signal



FCC TEST REPORT

Report No. : FG6N2913

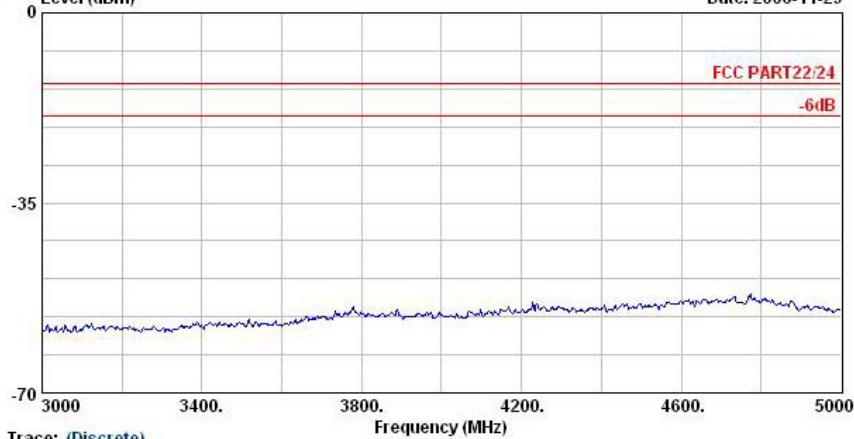
Data: 9 Level (dBm) File: D:\Project\2006Q4\测试\6N2913\Part22.EMI (12) Date: 2006-11-29



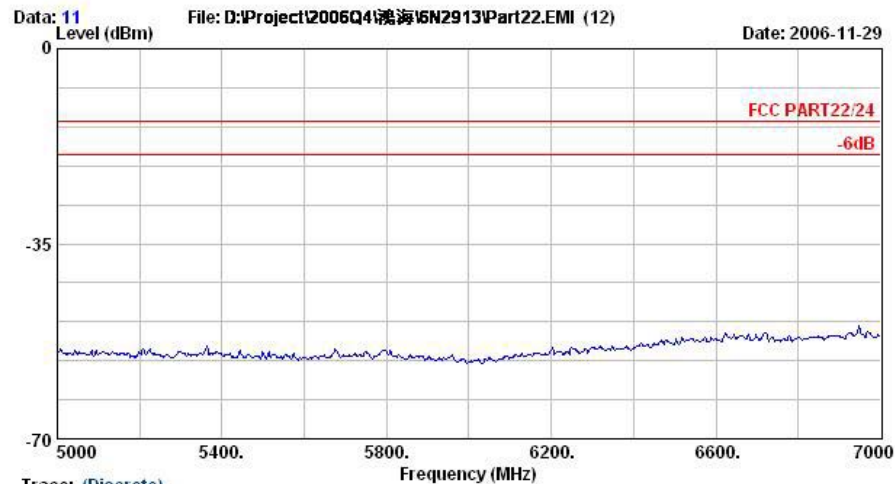
Trace: (Discrete)
Site : 08CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : CDMA2000 Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2913
Memo : CDMA2000 Cellular Link Mode;CH384
Memo : +Adapter+Earphone
Plane : E2

Freq	Level	Over	Limit	Read	Factor	Remark
MHz	dBm	dB	dBm	dBm	dB	
1 @ 1674.0	-49.04	-36.04	-13.00	-48.56	-0.48	Peak

Data: 10 Level (dBm) File: D:\Project\2006Q4\测试\6N2913\Part22.EMI (12) Date: 2006-11-29



Trace: (Discrete)
Site : 08CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : CDMA2000 Mobile Phone
Power : 120Vac/60Hz
Model : FG 6N2913
Memo : CDMA2000 Cellular Link Mode;CH384
Memo : +Adapter+Earphone
Plane : E2



Trace: (Discrete)

Site : 03CHD6-HY

Condition : HF-SPURIOUS VERTICAL

EUT : CDMA2000 Mobile Phone

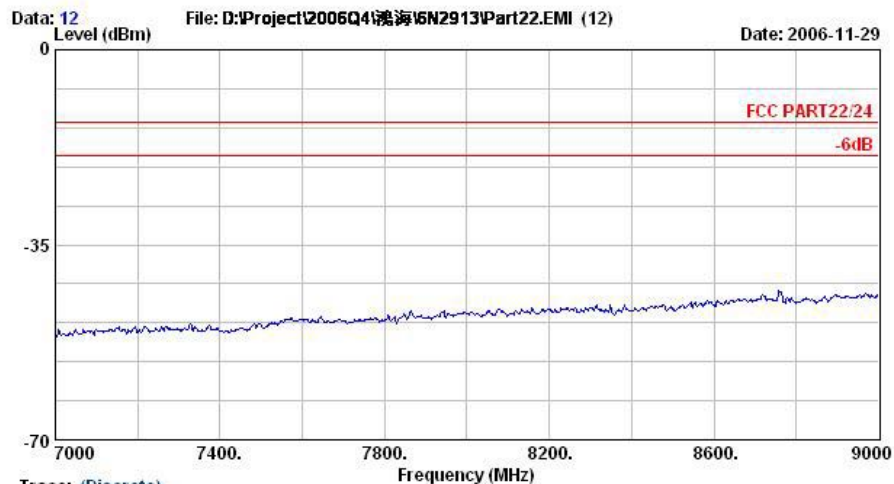
Power : 120Vac/60Hz

Model : FG 6N2913

Memo : CDMA2000 Cellular Link Mode;CH384

Memo : +Adapter+Earphone

Plane : E2



Trace: (Discrete)

Site : 03CHD6-HY

Condition : HF-SPURIOUS VERTICAL

EUT : CDMA2000 Mobile Phone

Power : 120Vac/60Hz

Model : FG 6N2913

Memo : CDMA2000 Cellular Link Mode;CH384

Memo : +Adapter+Earphone

Plane : E2

4.7 Frequency Stability (Temperature Variation)

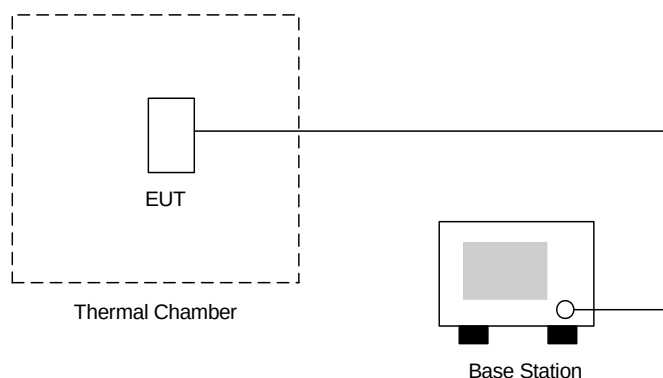
4.7.1 Measurement Instrument

As described in chapter 5 of this test report.

4.7.2 Test Procedure

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was noted within one minute.
3. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The temperature tests were performed for the worst case.
5. Test data was recorded.

4.7.3 Test Setup Layout



4.7.4 Test Result

- Test Mode : Mode 1 for CDMA2000 Cellular850
- Test Engineer: James Huang

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-9	0.00	2.5	Passed
-20	16	0.01		
-10	13	0.01		
0	5	0.00		
10	11	0.01		
20	-14	-0.01		
30	2	0.00		
40	-5	0.00		
50	7	0.00		

4.8 Frequency Stability (Voltage Variation)

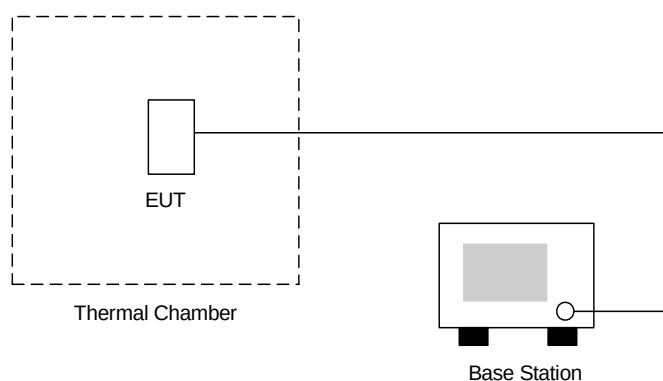
4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

4.8.2 Test Procedure

1. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected as the following section.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

4.8.3 Test Setup Layout



4.8.4 Test Result

- Temperature : 23°C
- Relative Humidity : 53%
- Test Mode : Mode 1 for CDMA2000 Cellular850
- Test Engineer: James Huang

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	18.0	0.01	2.5	Passed
BEP	-15.0	-0.01		
4.3	11.0	0.01		

Remark:

1. Normal Voltage=3.7V
2. Battery End Point (BEP)=3.1V

5. List of Measurement Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Oct. 05, 2006	Oct. 04, 2007	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 13, 2006	Jul. 12, 2007	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Dec. 02, 2005	Dec. 01, 2006	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	May. 29, 2006	May. 28, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Jul. 22, 2006	Jul. 21, 2008	Radiation (03CH06-HY)
HF Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Sep. 13, 2006	Sep. 12, 2007	Radiation (03CH06-HY)
Amplifier	Mini Circuits	ZFL-2500VH	D092004	10~2500MHz	Jul. 20, 2006	Jul. 19, 2007	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	INN-CO	MM3000	114/8000604/L	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)
Base Station	Agilent	E5515C	GB43460754	N/A	Feb. 21, 2006	Feb. 20, 2007	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D35P	TBN-930701	N/A	Jul. 24, 2006	Jul. 23 2007	Conducted (TH02-HY)
Power Divider	ARRA	5200-1	3871	N/A	Oct. 07, 2006	Oct. 06, 2007	Conducted (TH02-HY)

6. Uncertainty Evaluation

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty Uc(y)	2.36				
Measuring uncertainty for a level of confidence of 95% U=2Ue(y)	4.72				

END OF TEST REPORT