



FCC Test Report

According to

47 CFR Part 27

Equipment : ZTE C79 CDMA1X Digital Mobile Phone
Trade Name : ZTE
Model No. : ZTE C79
FCC ID : Q78-ZTEC79
Uplink Frequency Range : CDMA2000 AWS : 1710.00 ~ 1754.95 MHz
Downlink Frequency Range : CDMA2000 AWS : 2110.00 ~ 2154.95 MHz
Max. ERP/EIRP Power : CDMA2000 AWS : 0.2 W
Emission Designator : 1M25F9W
Applicant : **ZTE CORPORATION**
ZTE Plaza, Keji Road South, Hi-Tech Industrial
Park, Nanshan District, Shenzhen, Guangdong,
518057, P.R.China

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- The data shown in this test report were carried out on Jan. 10, 2008 at **Sporton International Inc. LAB.**
- Report No.: FG810601-B, Report Version: Rev. 01.
-

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Manager

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1. General Information

1.1. Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.3 Basic Description of Equipment under Test

Equipment		ZTE C79 CDMA1X Digital Mobile Phone
Trade Name		ZTE
Model Name		ZTE C79
FCC ID		Q78-ZTEC79
AC Adapter	Brand Name	Shenzhen Ruide Electronic Industrial Co.,Ltd
	Model Name	STC-A22O50U8
	Power Rating	I/P:100-240Vac, 50-60Hz, 200mA; O/P: 5Vdc, 650mA
	AC Power Cord Type	1.9 meter shielded cable without ferrite core
Battery	Brand Name	BYD Company Limited
	Model Name	Li3710T42P3h553457
	Power Rating	3.7Vdc, 1000mA
	Type	Li-ion
Earphone	Brand Name	Full-Sound(Dongguan) Electrical Products Ltd
	Model Name	FS07-0026-1-A0//EE-564A-25EN
	Signal Line Type	1.5 meter non-shielded cable without ferrite core

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.



1.4 Feature of Equipment under Test

DUT Type :	ZTE C79 CDMA1X Digital Mobile Phone
Model Name :	ZTE C79
FCC ID :	Q78-ZTEC79
Tx Frequency :	CDMA2000 Cellular : 824 ~ 849 MHz CDMA2000 AWS : 1710 ~ 1755 MHz CDMA2000 PCS : 1850 ~1910 MHz Bluetooth : 2400 MHz ~ 2483.5 MHz
Rx Frequency :	CDMA2000 Cellular : 869 ~ 894 MHz CDMA2000 AWS : 2110 ~ 2155 MHz CDMA2000 PCS : 1930 ~ 1990 MHz Bluetooth : 2400 MHz ~ 2483.5 MHz
Number of Channels :	Bluetooth : 79
Carrier Frequency of Each Channel :	Bluetooth : 2402+n*1 MHz; n=0~78
Channel Spacing	Bluetooth : 1 MHz
Maximum Output Power :	CDMA2000 Cellular FCH_RC1 : 23.75 dBm FCH_RC3 : 23.74 dBm FCH+SCH_RC3 : 23.11 dBm CDMA2000 AWS FCH_RC1 : 23.98 dBm FCH_RC3 : 23.86 dBm FCH+SCH_RC3 : 23.15 dBm CDMA2000 PCS FCH_RC1 : 23.55 dBm FCH_RC3 : 23.59 dBm FCH+SCH_RC3 : 22.86 dBm Bluetooth : 2.78 dBm (1Mbps) Bluetooth EDR : -0.92 dBm (2Mbps) / -0.48 dBm (3Mbps)
Maximum ERP/EIRP :	CDMA2000 AWS : 0.2 W (23.02 dBm)
Antenna Type :	CDMA: Fixed Internal Antenna Bluetooth: PIFA Antenna
Antenna Gain :	Bluetooth : -5 dBi
HW Version	C67B
SW Version	ZTEC79V1.0.0.B02
Digital Modulation Emission :	CDMA2000 : QPSK Bluetooth (1Mbps) : GFSK Bluetooth EDR (2Mbps) : $\pi/4$ -DQPSK Bluetooth EDR (3Mbps) : 8-DPSK
Type of Emission :	1M25F9W
DUT Stage :	Production Unit

1.5 Report Date

EUT Received : Jan. 06, 2008

Report Date : Jan. 24, 2008

2 Test Configuration of Equipment under Test

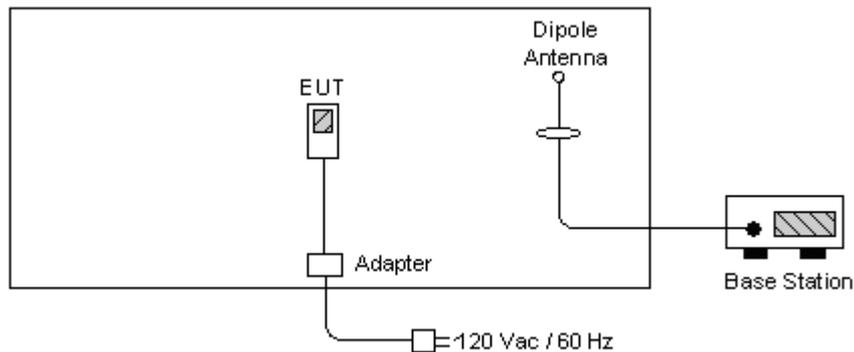
2.1 Test Manner

- a. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- b. During all testings, EUT is in link mode with base station emulator at maximum power level.
- c. Frequency range investigated: radiated emission 30 MHz to 18000 MHz for CDMA2000 AWS band.

2.2 Test Mode

Application	CDMA2000 AWS
Radiated Emission	<input checked="" type="checkbox"/> Mode 1: 1xRTT Link Mode_CH450
Conducted Measurement	<input checked="" type="checkbox"/> Mode 1: 1xRTT Link Mode_CH450

2.3 Connection Diagram of Test System



2.4 Ancillary Equipmnt List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable / Power Code
1.	Base Station	R&S	CMU200	N/A	Unshielded, 1.8m



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 : 886-3-328-4978

Test Site No : 03CH06-HY, TH02-HY

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC.

3.1 Test Voltage

AC 120V / 60Hz

3.2 Test Compliance

47 CFR Part 27, Part 2

3.3 Frequency Range

a. Radiation: from 30MHz to 18000MHz for CDMA2000 AWS.

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
§27.50 (d)(2)	EIRP	Passed	4.3
§2.1049, §27.53 (g)(1)	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§2.1051, §27.53 (g)	Conducted Emission	Passed	4.5
§2.1053, §27.153 (g)	Field Strength of Spurious Radiation	Passed	4.6
§2.1055, §27.54	Frequency Stability vs. Temperature	Passed	4.7
§2.1055, §27.54	Frequency Stability vs. Voltage	Passed	4.8

4.2 RF Output Power

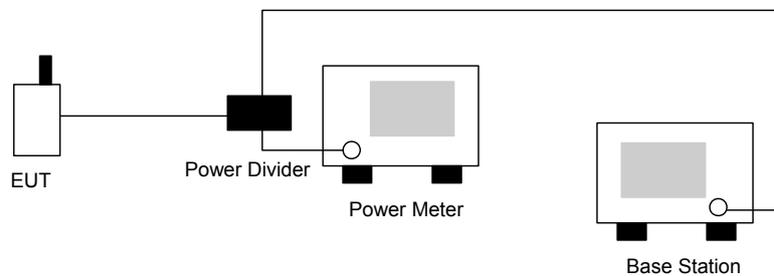
4.2.1 Measurement Instruments

As described in chapter 5 of this test report.

4.2.2 Test Procedure

- a. The transmitter output was connected to power meter and base station through power divider.
- b. Set EUT maximum power through base station.
- c. Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout





4.2.4 Test Result

Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
CDMA2000 AWS	1xRTT	FCH_RC1	25	1711.25 (Low)	23.54	0.23
			450	1732.50 (Mid)	23.79	0.24
			875	1753.75 (High)	23.98	0.25
		FCH_RC3	1013	1711.25 (Low)	23.61	0.23
			384	1732.50 (Mid)	23.79	0.24
			777	1753.75 (High)	23.86	0.24
		FCH+SCH_RC3	1013	1711.25 (Low)	22.94	0.20
			384	1732.50 (Mid)	23.15	0.21
			777	1753.75 (High)	23.02	0.20

Note:

1. For AWS band, the worst case adopted as maximum output power 23.98dBm, is at CDMA2000 1xRTT, FCH_RC1.



4.3 EIRP Measurement

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

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

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

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

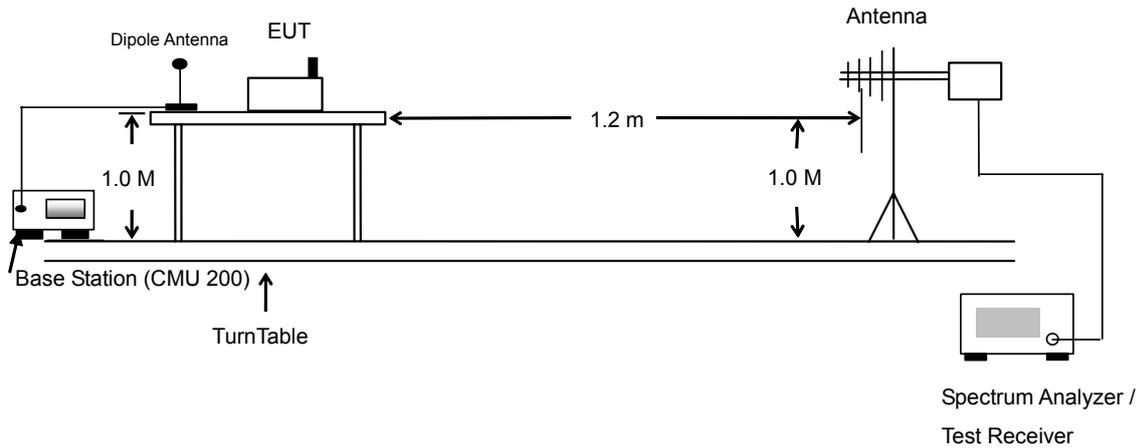
$E_s = R_s + AF$

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 EIRP





4.3.4 Test Result

CDMA2000 AWS 1xRTT FCH_RC1 Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1711.25	-32.58	-51.88	0.00	1.96	21.26	0.13
1732.50	-31.97	-52.99	0.00	2.00	23.02	0.20
1753.75	-35.18	-54.28	0.00	1.98	21.08	0.13
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1711.25	-35.10	-52.13	0.00	1.96	18.99	0.08
1732.50	-34.66	-53.17	0.00	2.00	20.51	0.11
1753.75	-37.46	-54.13	0.00	1.98	18.65	0.07

4.4 Occupied Bandwidth and Band Edge Measurement

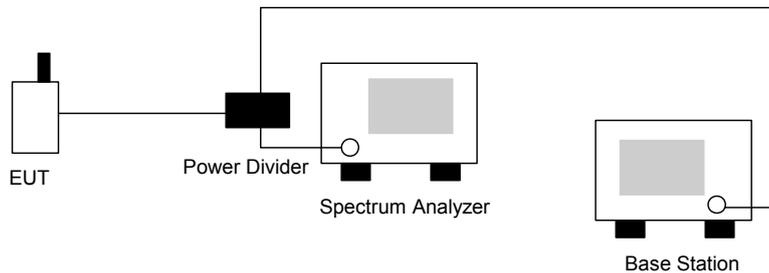
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

- a. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- b. The 99% occupied bandwidth and 26 dB Bandwidth of middle channel for the highest RF powers were measured.
- c. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly $BW/100$.
- d. The RBW was replaced 30KHz with 10KHz, due to the spectrum analyzer IF-Filter leading to an exceeding of the limit, a worst case correction factor of $10 \log (1\% \text{ Occupy Bandwidth} / \text{Measured RBW})$ was used.

4.4.3 Test Setup Layout





4.4.4 Test Data

• **Mode 1**

Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Measurement Value (dBm)	Correction Factor (dB)	Band Edge (dBm)
CDMA2000 AWS	1xRTT	FCH_RC1	25	1711.25 (Low)	-37.11	1.07	-36.04
			875	1753.75 (High)	-34.87	1.07	-33.80
		FCH_RC3	25	1711.25 (Low)	-36.70	1.07	-35.63
			875	1753.75 (High)	-35.24	1.07	-34.17
		FCH+SCH_RC3	25	1711.25 (Low)	-38.41	1.07	-37.34
			875	1753.75 (High)	-37.40	1.07	-36.33

Note:

*Occupy Bandwidth = 1280.00KHz

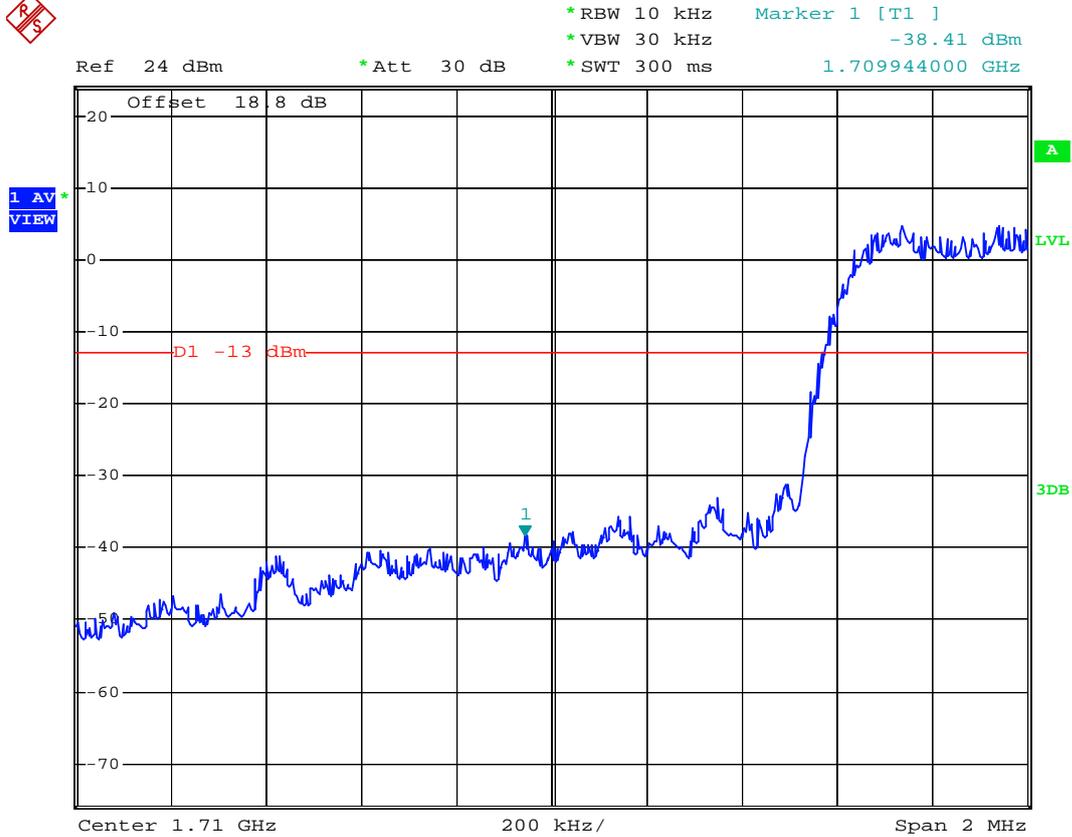
*Correction Factor = $10 \cdot \log(1\% \text{ Occupy Bandwidth} / \text{Measurement RBW})$
= $10 \cdot \log[(0.01 \cdot 1280.00\text{KHz}) / 10\text{KHz}]$
= 1.07 dB

*Band Edge = Measurement Value + Correction Factor



4.4.5 Test Result

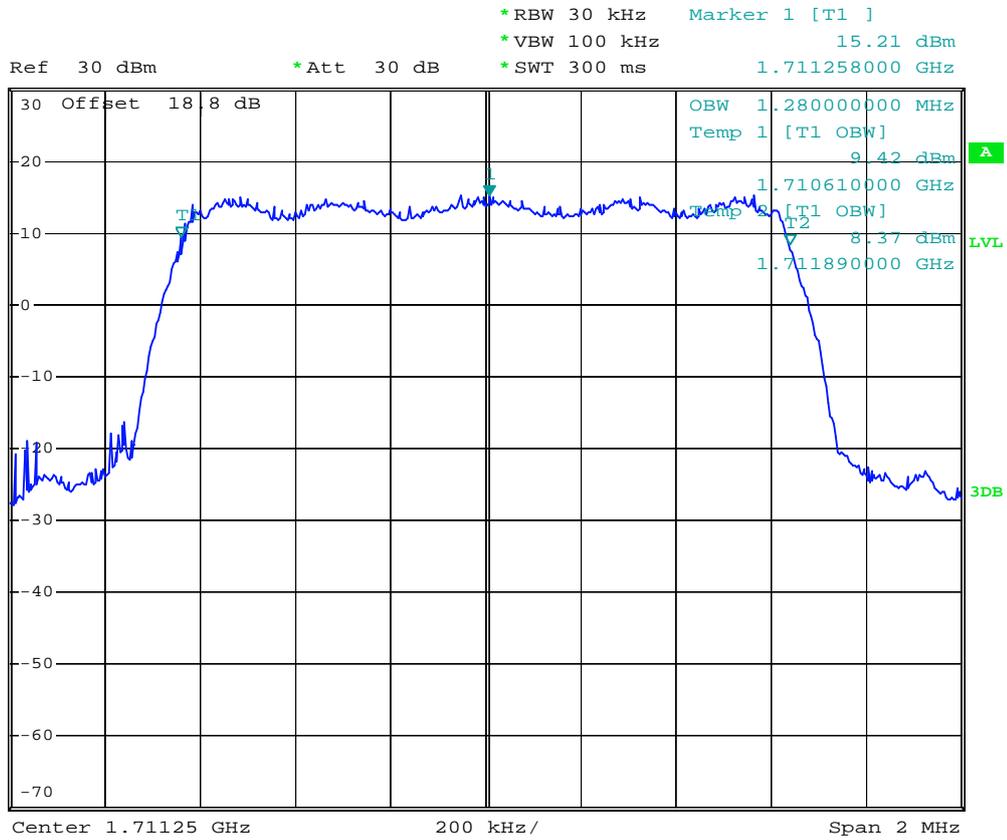
- Mode 1
- Test Mode : CDMA2000 AWS Band CH25_FCH_RC1 Lower Band Edge for 1xRTT
- Power State : High



Date: 15.JAN.2008 17:26:53



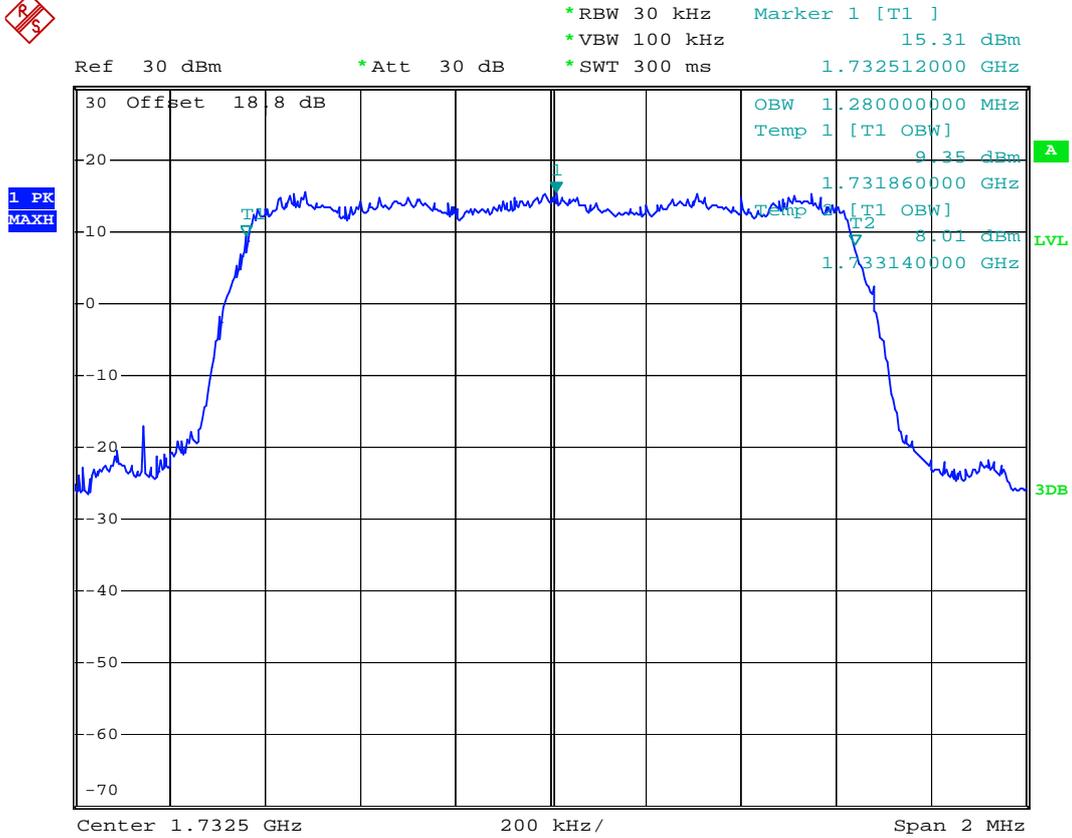
- Test Mode : CDMA2000 AWS CH25_FCH_RC1 99% Occupied Bandwidth for 1xRTT
- Power State : High



Date: 9.JAN.2008 16:15:54



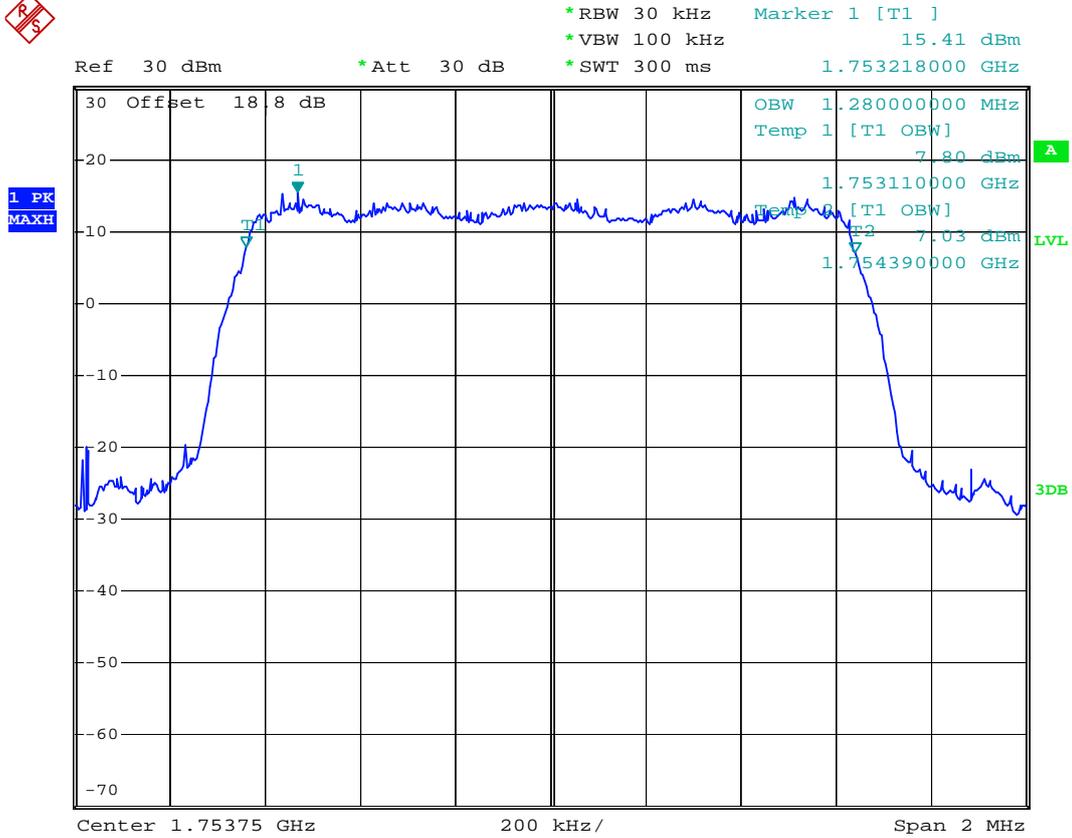
- Test Mode : CDMA2000 AWS CH450_FCH_RC1 99% Occupied Bandwidth for 1xRTT
- Power State : High



Date: 9.JAN.2008 16:16:40



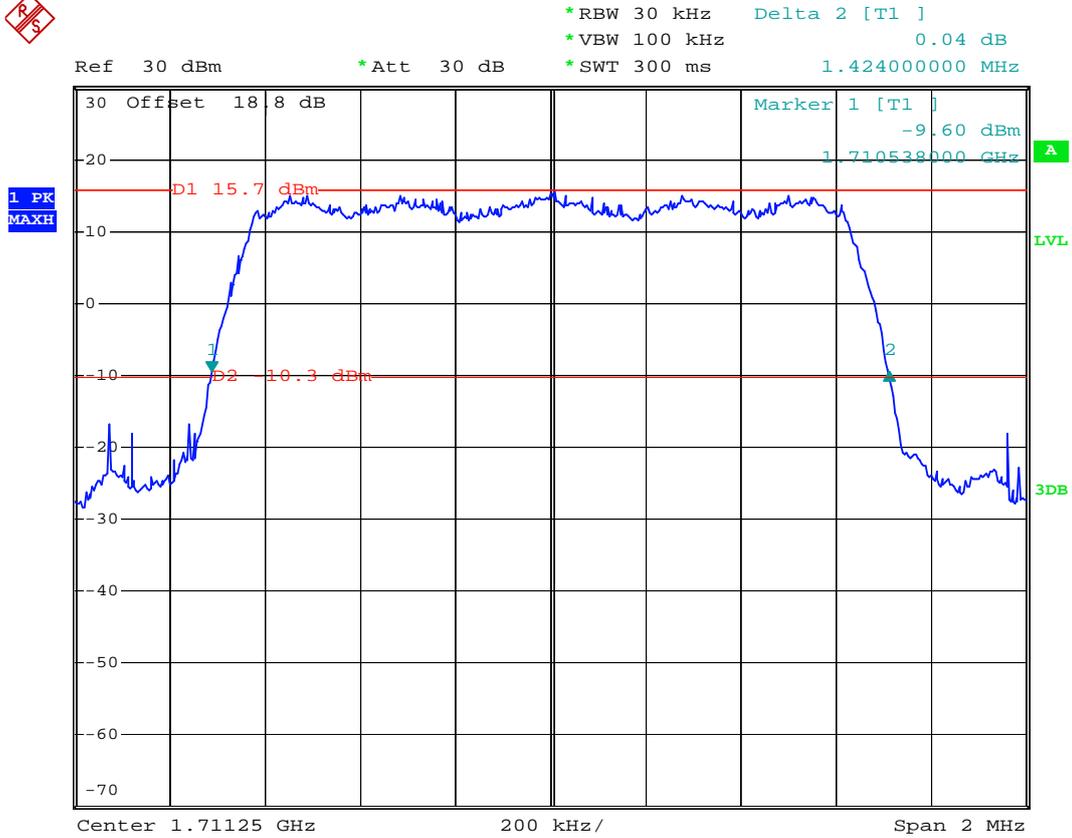
- Test Mode : CDMA2000 AWS CH875_FCH_RC1 99% Occupied Bandwidth for 1xRTT
- Power State : High



Date: 9.JAN.2008 16:13:31



- Test Mode : CDMA2000 AWS CH25_FCH_RC1 26 dB Bandwidth for 1xRTT
- Power State : High



Date: 9.JAN.2008 15:44:46



- Test Mode : CDMA2000 AWS CH450_FCH_RC1 26 dB Bandwidth for 1xRTT
- Power State : High

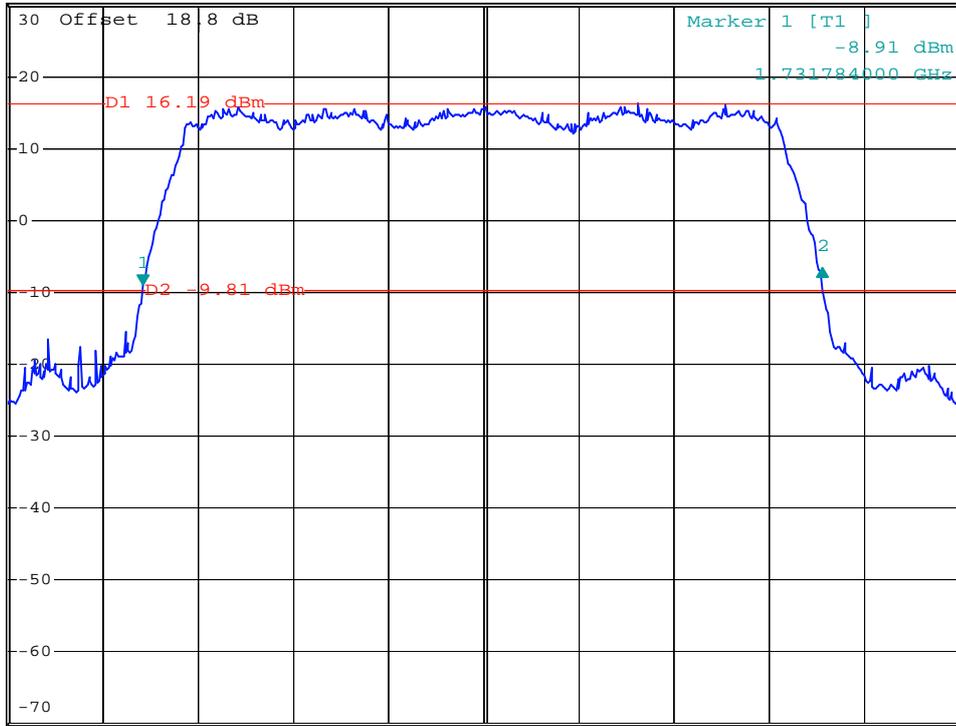


*RBW 30 kHz Delta 2 [T1]
 *VBW 100 kHz 2.19 dB
 *SWT 300 ms 1.42800000 MHz

Ref 30 dBm

*Att 30 dB

1 PK
MAXH



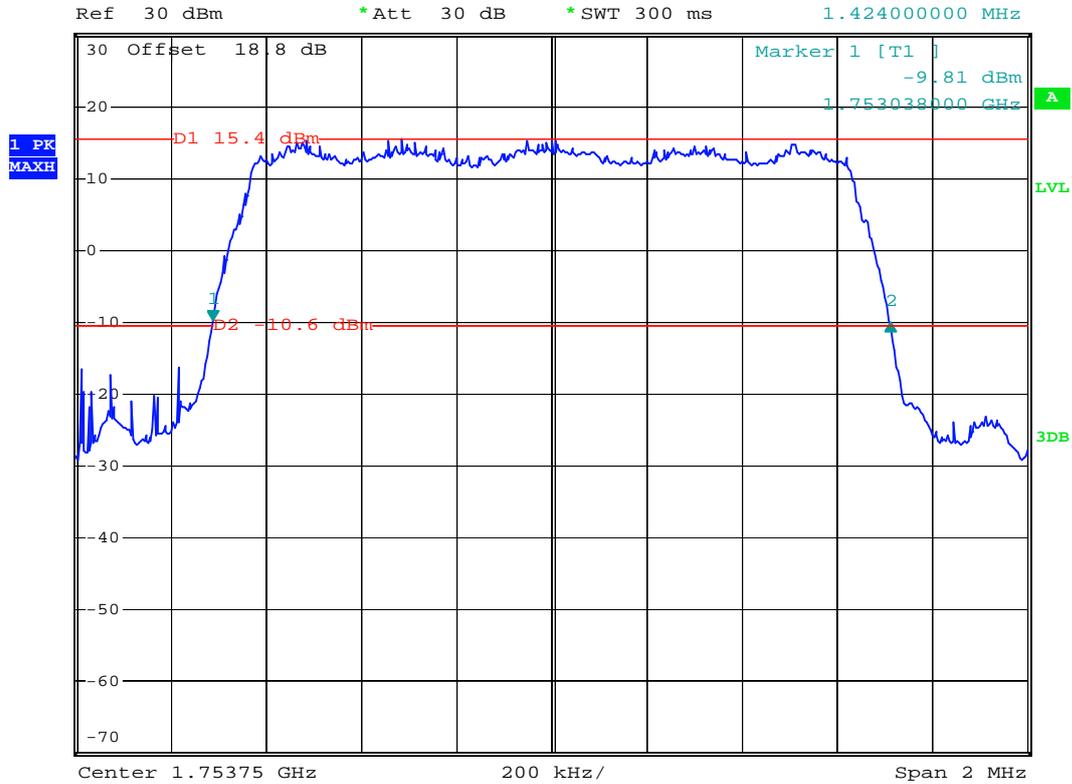
Date: 9.JAN.2008 15:46:44



- Test Mode : CDMA2000 AWS CH875_FCH_RC1 26 dB Bandwidth for 1xRTT
- Power State : High



*RBW 30 kHz Delta 2 [T1]
 *VBW 100 kHz -0.13 dB
 *SWT 300 ms 1.424000000 MHz



Date: 9.JAN.2008 15:49:05



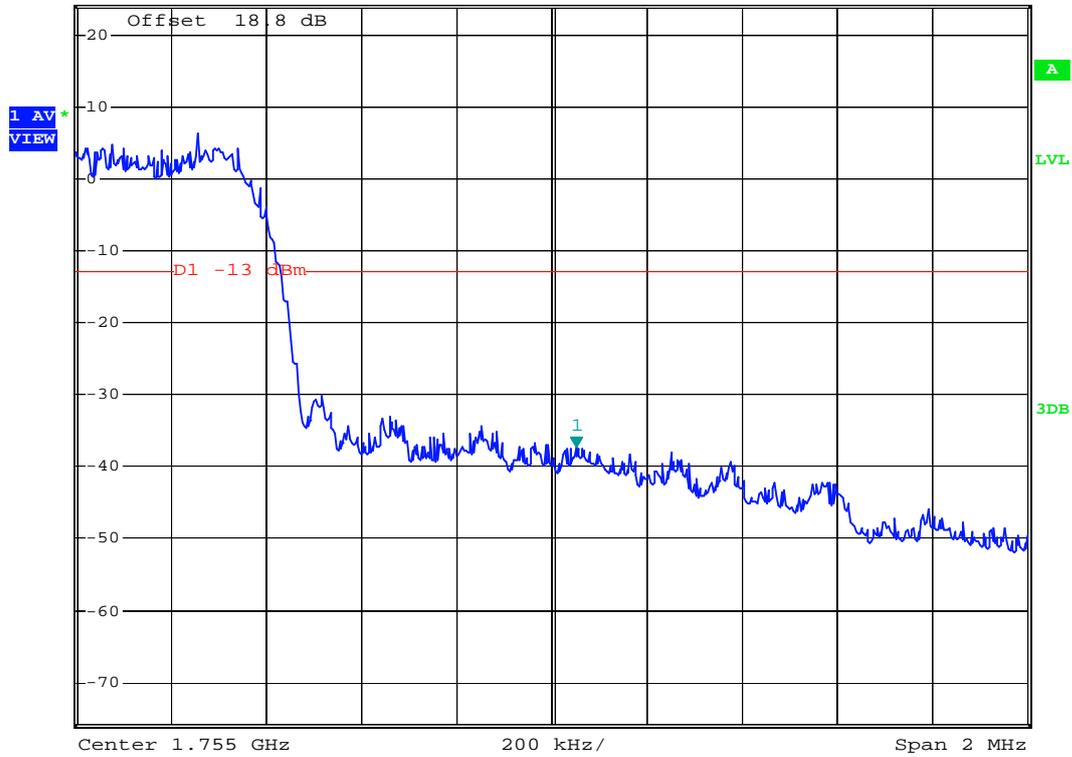
- Test Mode : CDMA2000 AWS CH875_ FCH_RC1 Higher Band Edge for 1xRTT
- Power State : High



*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -37.40 dBm
*SWT 300 ms 1.755052000 GHz

Ref 24 dBm

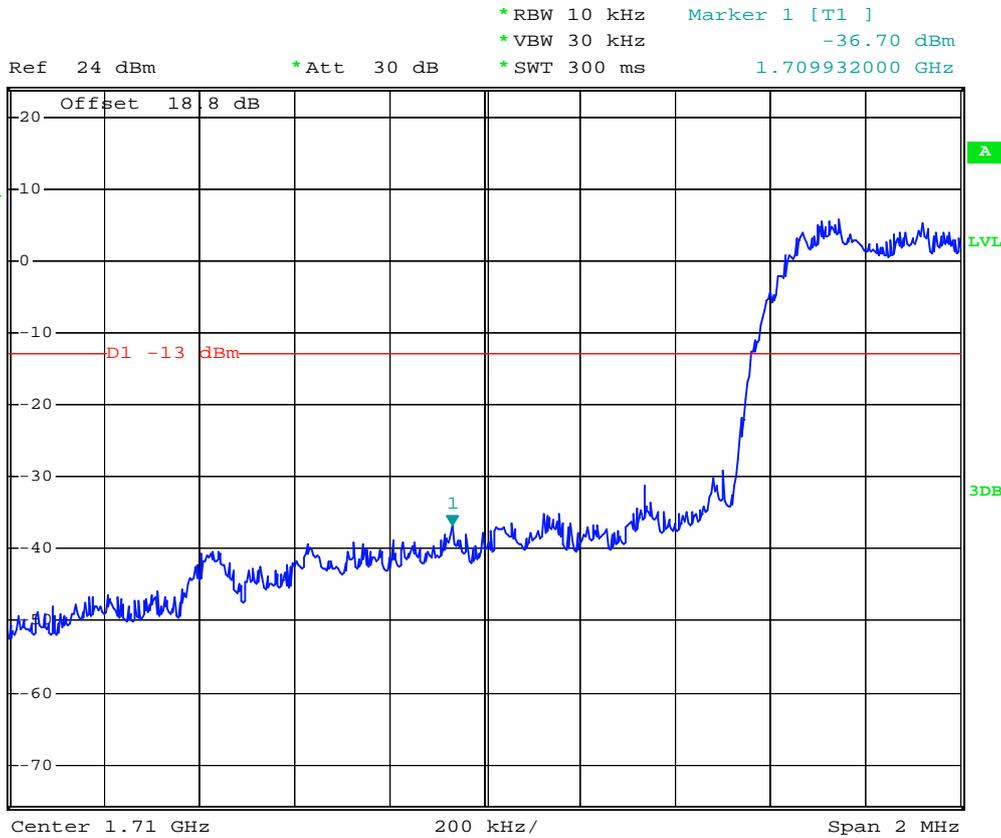
*Att 30 dB



Date: 15.JAN.2008 17:24:14



- Test Mode : CDMA2000 Cellular Band CH25_FCH_RC3 Lower Band Edge for 1xRTT
- Power State : High



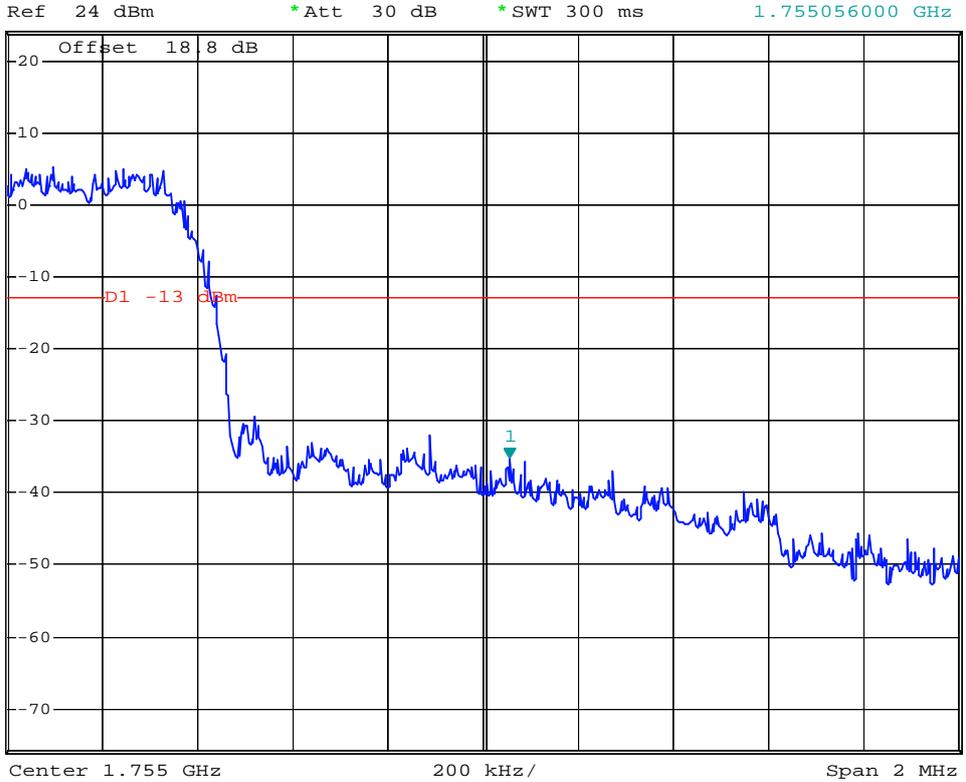
Date: 15.JAN.2008 17:20:02



- Test Mode : CDMA2000 AWS CH875_FCH_RC3 Higher Band Edge for 1xRTT
- Power State : High



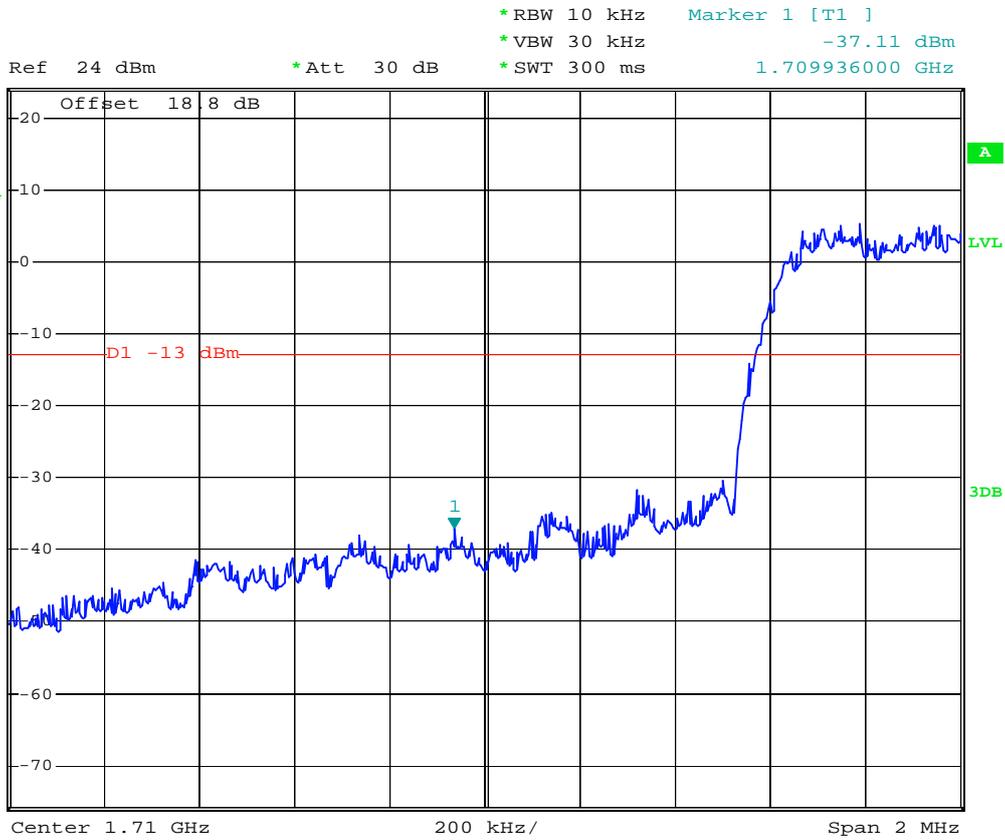
*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz -35.24 dBm
*SWT 300 ms 1.755056000 GHz



Date: 15.JAN.2008 17:45:07



- Test Mode : CDMA2000 AWS Band CH25_FCH+SCH_RC3 Lower Band Edge for 1xRTT
- Power State : High



Date: 15.JAN.2008 17:09:23

4.5 Conducted Emission

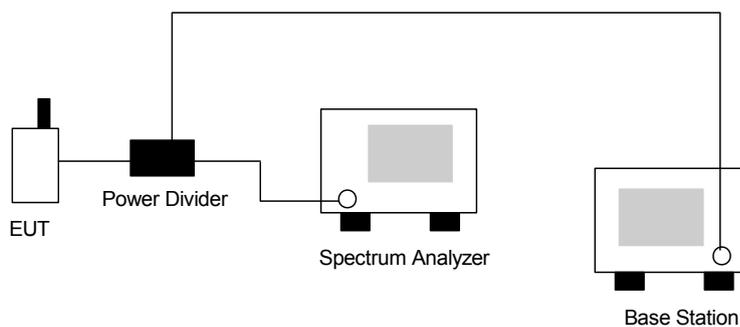
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

- a. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- b. The middle channel for the highest RF power within the transmitting frequency was measured.
- c. The conducted spurious emission for the whole frequency range was taken.

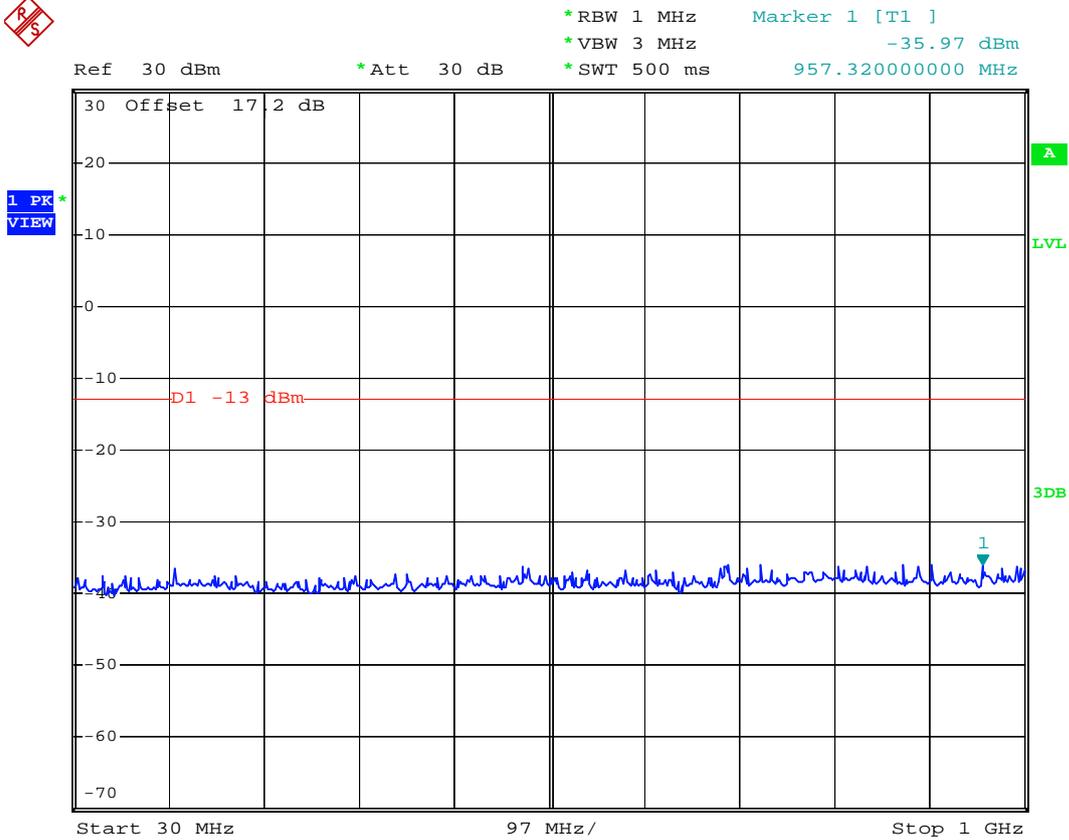
4.5.3 Test Setup Layout





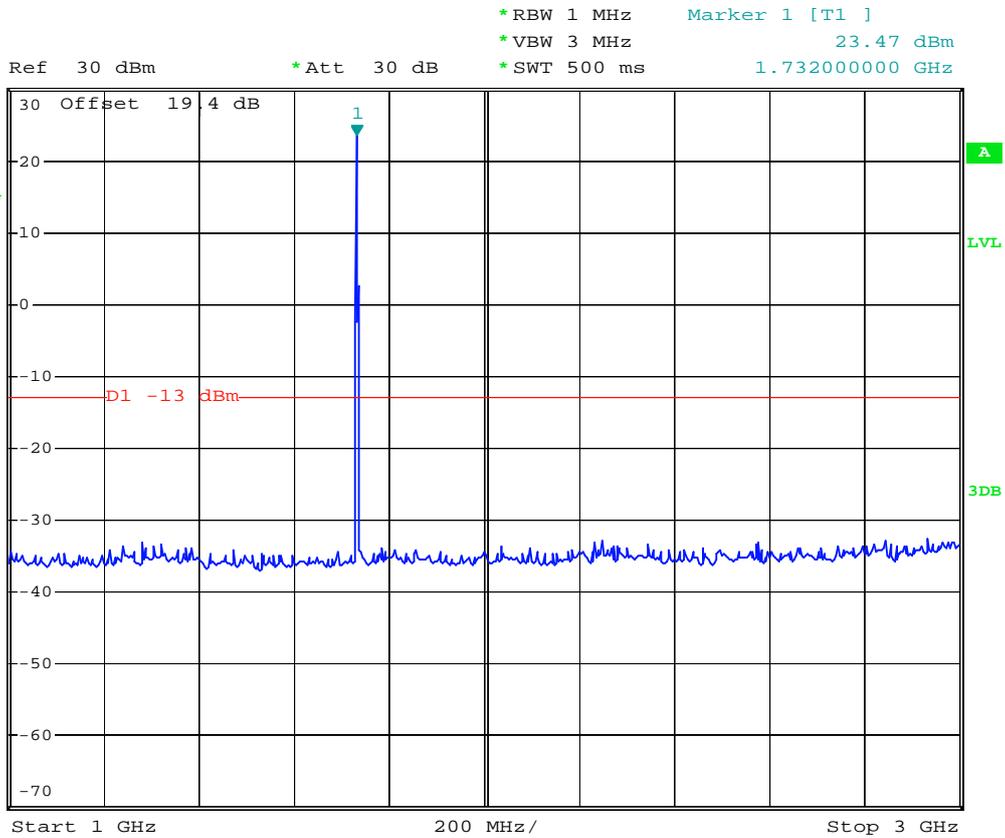
4.5.4 Test Result

- Mode 1
- Test Mode : CDMA2000 AWS CH450 for 1xRTT
- Frequency Range : 30M-1G



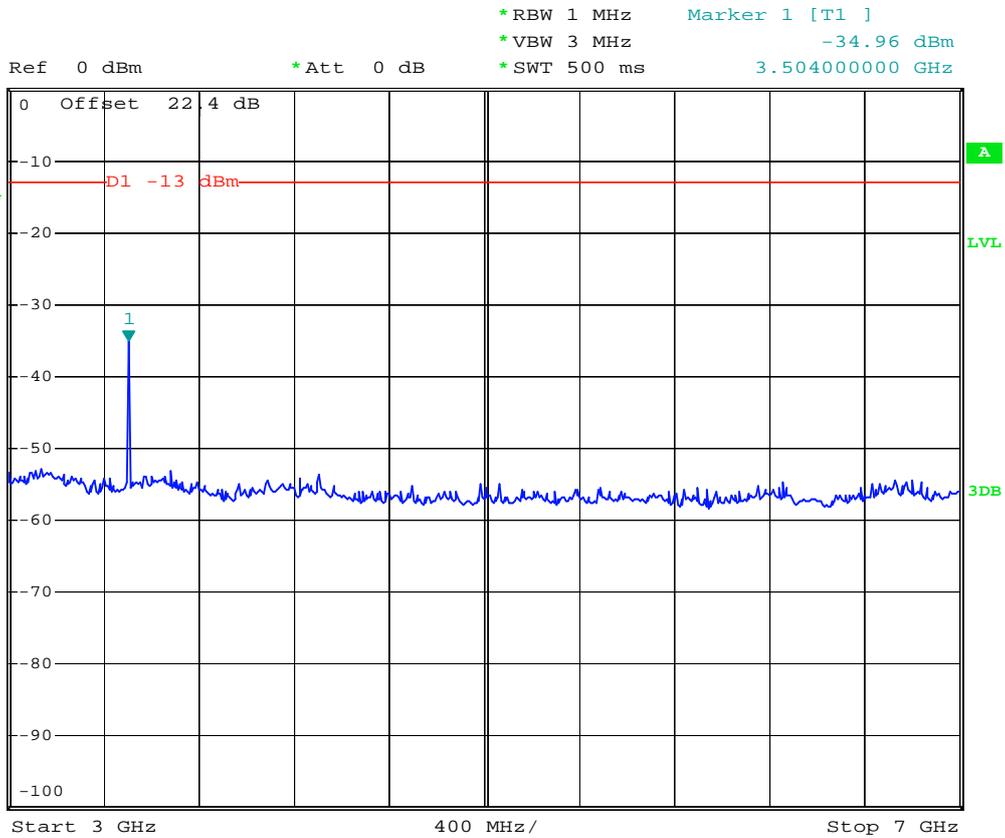


- Test Mode : CDMA2000 AWS CH450 for 1xRTT
- Frequency Range : 1G-3G





- Test Mode : CDMA2000 AWS CH450 for 1xRTT
- Frequency Range : 3G-7G

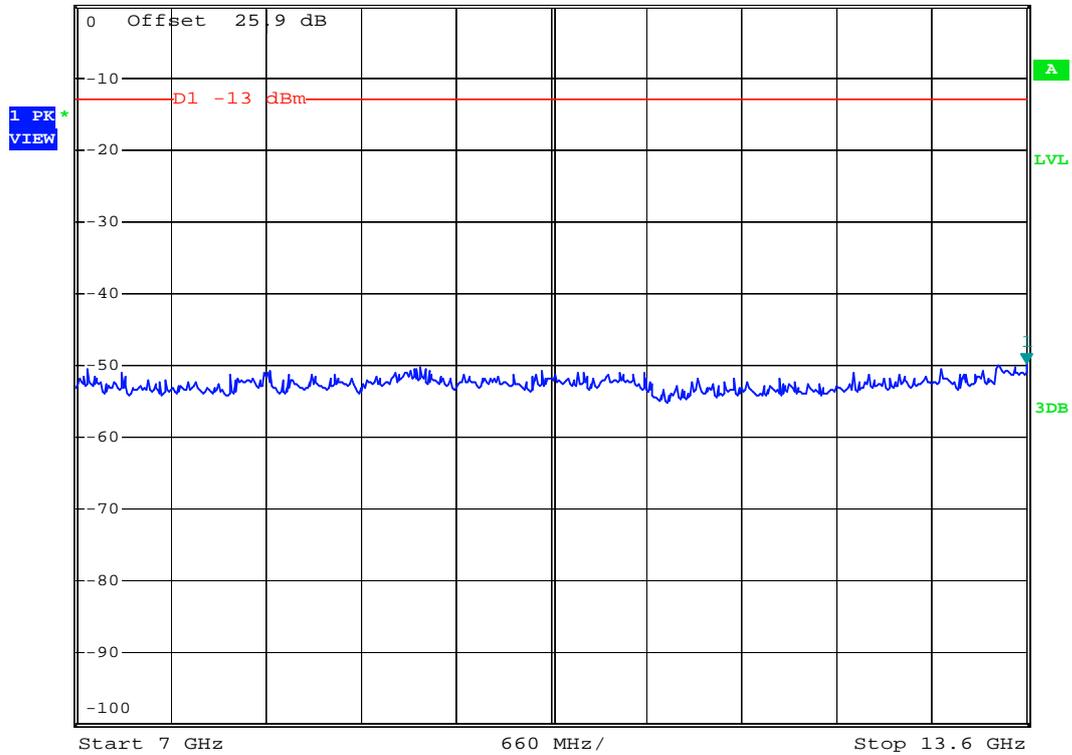




- Test Mode : CDMA2000 AWS CH450 for 1xRTT
- Frequency Range : 7G-13.6G



Ref 0 dBm *Att 0 dB *RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -49.73 dBm
*SWT 500 ms 13.600000000 GHz





4.6 Field Strength of Spurious Radiation

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

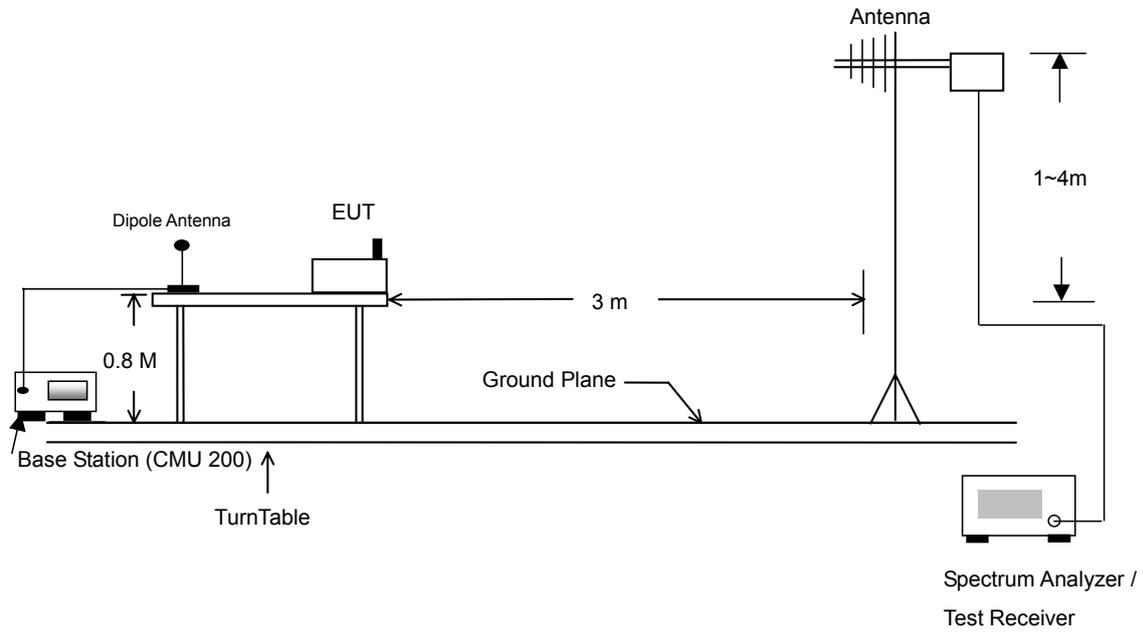
4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

- a. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- b. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- d. 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.
- e. Taking the record of maximum spurious emission.
- f. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
- g. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- h. Taking the recored of output power at antenna port.
- i. Repeat step 7 to step 8 for another polarization.
- j. Emission level (dBm) = output power + substitution Gain.

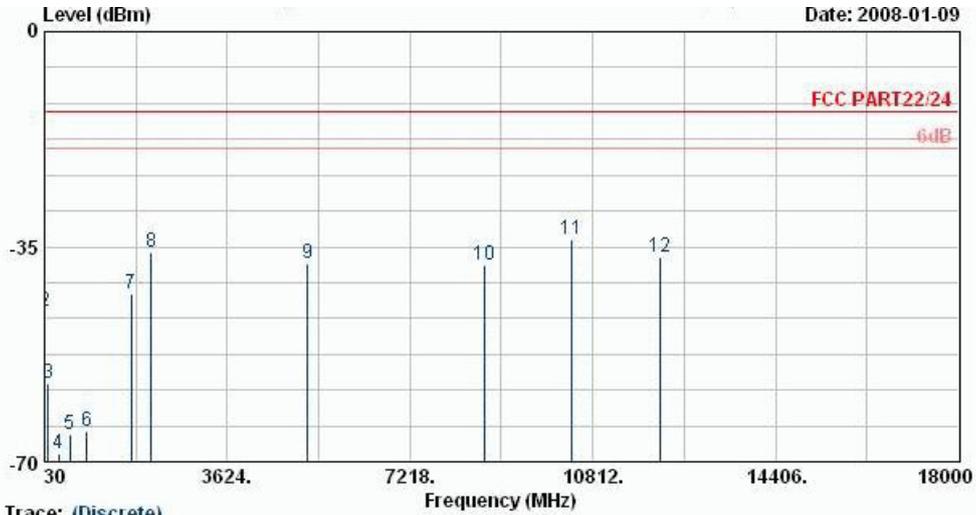
4.6.3 Test Setup Layout





4.6.4 Test Data

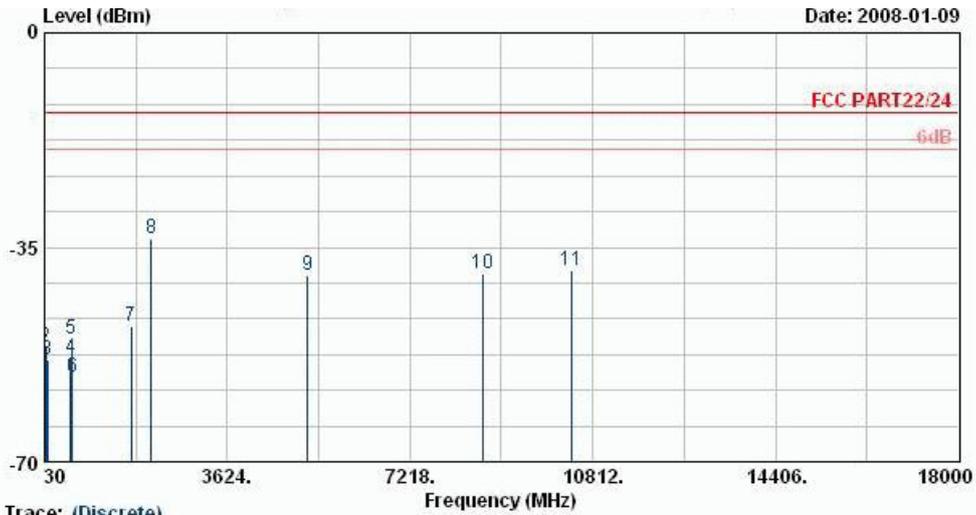
4.6.4.1 Mode 1



Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC PART22/24 EIRP-071107 HORIZONTAL
 EUT : CDMA20001X 800MHz Cellular /1900MHz PCS/
 1700MHz AWS Bluetooth 2.0 Handset
 Power : 120Vac/60Hz
 Model : FG 810601
 Mode : AWS 1700 Link ; CH450 + Adaptor
 Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5196	-39.79	-13	-53.86	-41.0	8.69	9.90	H	Pass
8668	-42.56	-13	-58.66	-40.1	11.66	9.20	H	Pass
10396	-37.74	-13	-54.93	-34.5	13.66	10.42	H	Pass
12128	-41.37	-13	-59.01	-37.2	14.00	9.83	H	Pass



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 EIRP-071107 VERTICAL
 EUT : CDMA20001X 800MHz Cellular /1900MHz PCS/
 : 1700MHz AWS Bluetooth 2.0 Handset
 Power : 120Vac/60Hz
 Model : FG 810601
 Mode : AWS 1700 Link ; CH450 + Adaptor
 Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5196	-41.39	-13	-55.65	-42.6	8.69	9.90	V	Pass
8656	-43.76	-13	-59.84	-41.3	11.66	9.20	V	Pass
10396	-43.74	-13	-60.02	-40.5	13.66	10.42	V	Pass

4.7 Frequency Stability (Temperature Variation)

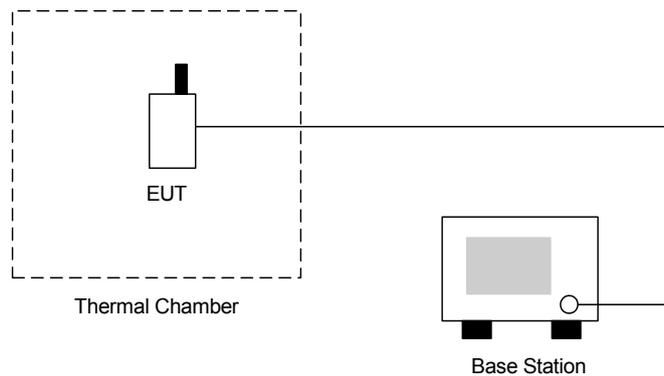
4.7.1 Measurement Instrument

As described in chapter 5 of this test report.

4.7.2 Test Procedure

- a. The EUT and test equipment were set up as shown on the following section.
- b. 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.
- c. 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.
- d. The temperature tests were performed for the worst case.
- e. Test data was recorded.

4.7.3 Test Setup Layout





4.7.4 Test Result

• Test Mode : CDMA2000 AWS 1xRTT

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	-13	-0.01	2.5	Passed
-20	-8	-0.01		
-10	-7	-0.01		
0	5	0.01		
10	6	0.01		
20	7	0.01		
30	10	0.01		
40	15	0.02		
50	37	0.04		

4.8 Frequency Stability (Voltage Variation)

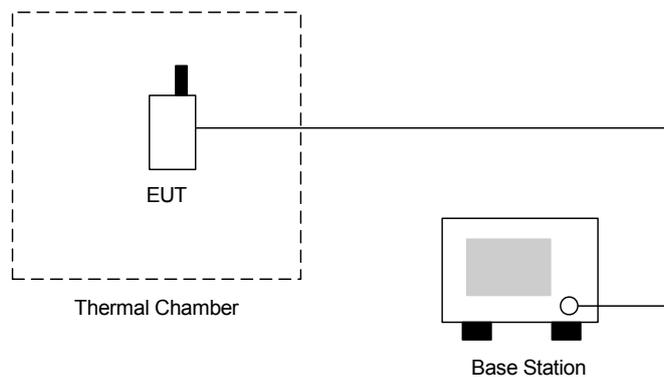
4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

4.8.2 Test Procedure

- a. The EUT was placed in a temperature chamber at 25 ± 5 oC and connected as the following section.
- b. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- c. The variation in frequency was measured for the worst case.

4.8.3 Test Setup Layout





4.8.4 Test Result

- Test Mode : CDMA2000 AWS 1xRTT

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	5	0.01	2.5	Passed
BEP	-4	0.00		
4.2	14	0.02		

Remark:

1. Normal Voltage=3.7V.
2. Battery End Point (BEP)= 3.2 V.



5 List of Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum Analyzer	Agilent	E4408B	MY44211028	9KHz-26.5GHz	Oct. 17, 2007	Oct. 16, 2008	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 26, 2007	Jul. 25, 2008	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Dec. 01, 2007	Nov. 30, 2008	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	071025	1G~18G	Jun. 04, 2007	Jun. 03, 2008	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-251	14G - 40G	Oct. 17, 2007	Oct. 16, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 22, 2007	Nov. 21, 2008	Radiation (03CH06-HY)
PreAmplifier	EMEC	PA303	PA303-SMA-	100K~3GHz	Nov. 26, 2007	Nov. 25, 2008	Radiation (03CH06-HY)
Base Station Simulator	R & S	CMU200	103937	Third-Band	Oct. 19, 2007	Oct. 18, 2008	Radiation (03CH06-HY)
Thermal Chamber	Tenyi technology	TTH-D35P	TBN-930701	N/A	Aug. 02, 2007	Aug. 01, 2008	Conduction (TH02-HY)
Spectrum	R&S	FSP40	100055	9KHz~40GHz	Jun. 25, 2007	Jun. 24, 2008	Conduction (TH02-HY)
Bluetooth Test	ANRITSU	MT8852A	6K00003939	N/A	N/A	N/A	Conduction (TH02-HY)
Power Divider	ARRA	5200-1	3871	N/A	Oct. 01, 2007	Sep. 30, 2008	Conduction (TH02-HY)
DC Power Supply	TOPWARD	3303D	740889	N/A	May 25, 2007	May 24, 2009	Conduction (TH02-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Feb. 08, 2007	Feb. 07, 2008	Conduction (TH02-HY)
Power Sensor	Agilent	E9327A	US40441548	N/A	Feb. 08, 2007	Feb. 07, 2008	Conduction (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=2Uc(y)	4.72				

END OF TEST REPORT