FCC TEST REPORT

for

47 CFR Part 22H, 24E

Equipment	:	**Message Device**
Trade Name	:	**ogo**
Model No.	:	**CT-25C**
FCC ID	:	**SOW-OGOCT25C**
Uplink Frequency Range	:	**CDMA2000 Cellular 850 : 824.7~848.31 MHz** **CDMA2000 PCS 1900 : 1851.25~1908.75 MHz**
Downlink Frequency Range	:	**CDMA2000 Cellular 850 : 869.70~893.31 MHz** **CDMA2000 PCS 1900 : 1931.25~1988.75 MHz**
Max. ERP/EIRP Power	:	**CDMA2000 1xRTT Cellular 850 : 0.09 W** **CDMA2000 1xEVDO Cellular 850 : 0.08 W** **CDMA2000 1xRTT PCS 1900 : 0.13 W** **CDMA2000 1xEVDO PCS 1900 : 0.10 W**
Emission Designator	:	**1M25F9W**
Applicant	:	**IXI Mobile, Inc.** 275 Shoreline Drive Suite 600, Redwood City, CA 94065, USA

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- The data shown in this test report were carried out on Nov. 17, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG7N0718, Report Version: Rev. 02.

Jones Tsai
Manager

SPORTON International Inc.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

Table of Contents

History of this test report

Report Issue Date: Nov. 22, 2007

Report No.	Description

1. General Information

1.1. Applicant

IXI Mobile, Inc.
275 Shoreline Drive Suite 600, Redwood City, CA 94065, USA

1.2 Manufacturer

Inventec Appliance (Shanghai) Co.,Ltd.
No.7, Gui Qing Rd.,Caohejing Development Zone, Shanghai 200233, P.R.C.

1.3 Basic Description of Equipment under Test

Equipment		Message Device
Trade Name		ogo
Model No.		CT-25C
FCC ID		SOW-OGOCT25C
AC Adapter	**Brand Name**	PI
	Model Name	P925BW05050EB1u
	Power Rating	I/P:100-240Vac, 50-60Hz; O/P:5.0Vdc, 500mA
	AC Power Cord Type	1.6 meter
Battery	**Brand Name**	Formosa
	Model Name	IXC0000232
	Rating	3.7Vdc, 950mA
	Type	Li-ion

1.4 Feature of Equipment under Test

DUT Type :	Message Device
Trade Name	ogo
Model Name :	CT-25C
FCC ID :	SOW-OGOCT25C
Tx Frequency :	CDMA2000 Cellular 850 : 824 ~ 849 MHz CDMA2000 PCS 1900 : 1850 ~1910 MHz
Rx Frequency :	CDMA2000 Cellular 850 : 869 ~ 894 MHz CDMA2000 PCS1900 : 1930 ~ 1990 MHz
Maximum Output Power :	**CDMA2000 Cellular 850 (1xRTT)** FCH_RC1 : 23.80 dBm FCH_RC3 : 23.67 dBm FCH+SCH_RC3 : 23.83 dBm **CDMA2000 Cellular 850 (1xEV-DO)** 9.6Kbps : 24.48 dBm 38.4Kbps : 24.46 dBm 153.6Kbps : 24.39 dBm **CDMA2000 PCS1900 (1xRTT)** FCH_RC1 : 23.67 dBm FCH_RC3 : 23.62 dBm FCH+SCH_RC3 : 23.60 dBm **CDMA2000 PCS1900 (1xEV-DO)** 9.6Kbps : 23.92 dBm 38.4Kbps : 23.82 dBm 153.6Kbps : 23.76 dBm
Maximum ERP/EIRP :	CDMA2000 Cellular 850 : 0.09 W (19.66 dBm) for 1xRTT 0.08 W (19.22 dBm) for 1xEV-DO CDMA2000 PCS1900 : 0.13 W (21.23 dBm) for 1xRTT 0.10 W (20.11 dBm) for 1xEV-DO
Antenna Type :	Fixed Internal
Power Rating (DC/AC, Voltage and Current of RF element or PA) :	DC 3.4V / 16mA
Digital Modulation Emission :	QPSK
Type of Emission :	1M25F9W
Device Power Class :	CDMA2000 Cellular 850 : 3 CDMA2000 PCS1900 : 2
DUT Stage :	Identical Prototype

1.5 Report Date

EUT Received : Nov. 11, 2007

Report Date : Nov. 22, 2007

2 Test Configuration of Equipment under Test

2.1 Test Manner

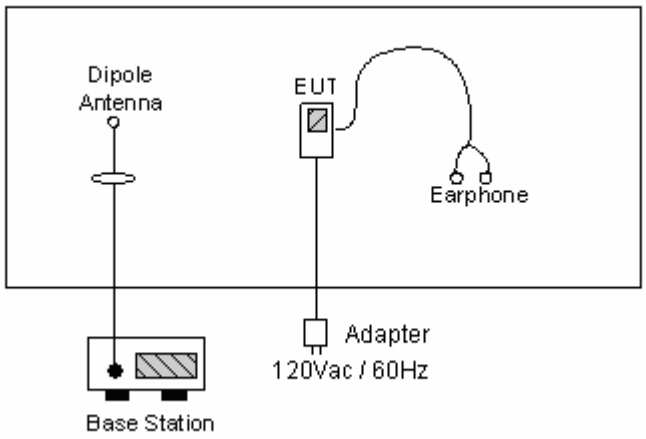
a. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
b. During all testings, EUT is in link mode with base station emulator at maximum power level.
c. Frequency range investigated: radiated emission 30 MHz to 9000 MHz for CDMA2000 Cellular 850; 30MHz to 19000 MHz for CDMA2000 PCS 1900.

2.2 Test Mode

Application	CDMA2000 Cellular 850	CDMA2000 PCS 1900
Radiated Emission	☒ Mode 1: 1xRTT Link Mode ☒ Mode 2: 1xEV-DO Link Mode ☒ Mode 5: BT Link Mode	☒ Mode 3: 1xRTT Link Mode ☒ Mode 4: 1xEV-DO Link Mode
Conducted Measurement	☒ Mode 1: 1xRTT Link Mode ☒ Mode 2: 1xEV-DO Link Mode	☒ Mode 3: 1xRTT Link Mode ☒ Mode 4: 1xEV-DO Link Mode

2.3 Connection Diagram of Test System

<Mode 1~4>



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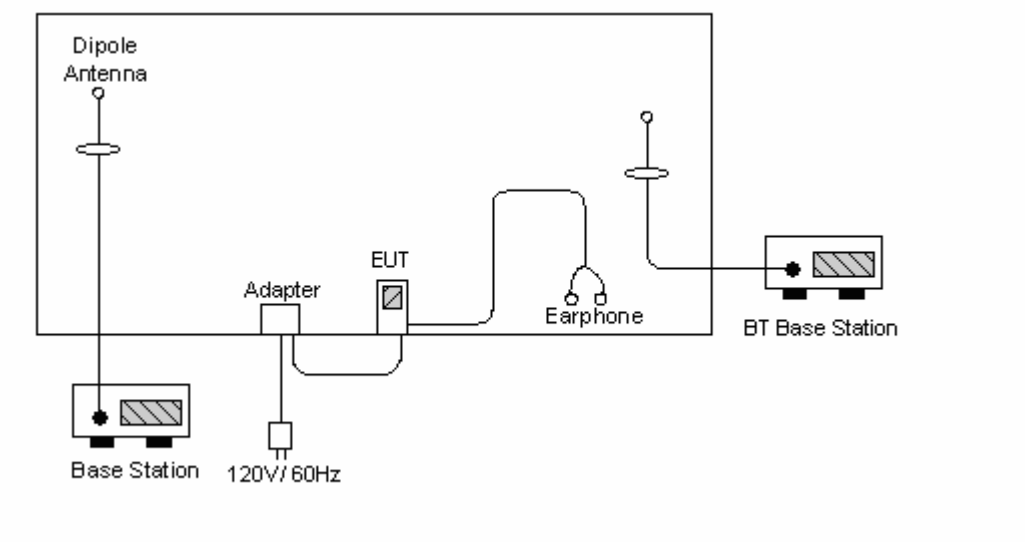


2.4 Ancillary Equipmnt List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable/ Power Cord
1.	Base Station	R & S	CMU 200	N/A	Unshielded, 1.8m
2.	BT Base Station	Anritus	8852B	N/A	Unshielded, 1.8m

3. General Information of Test Site

Test Site Location	:	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL : 86-0512- 5790-0158 FAX : 86-0512- 5790-0958
Test Site No	:	03CH01-KS

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

AC 120V / 60Hz

3.2 Test Compliance

47 CFR Part 22H, 24E, Part 2

3.3 Frequency Range

a. Radiation: from 30MHz to 9000MHz for CDMA2000 Cellular 850.
b. Radiation: from 30 MHz to 19000 MHz for CDMA2000 PCS 1900.

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 §24.232	ERP / EIRP	Passed	4.3
§2.1049, § 22.917, § 24.238(b)	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, §24.235	Frequency Stability vs. Temperature	Passed	4.7
§2.1055, §22.355, §24.235	Frequency Stability vs. Voltage	Passed	4.8

4.2 RF Output Power

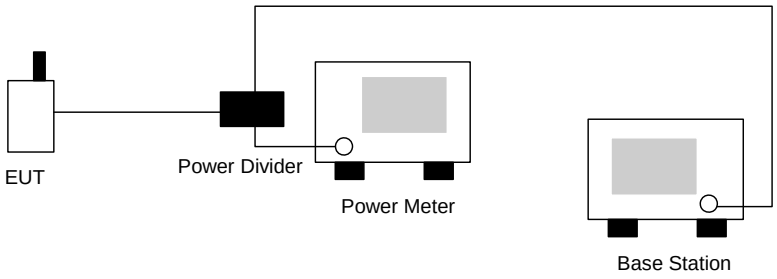
4.2.1 Measurement Instruments：

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 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：

Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
CDMA2000 Cellular 850	1xRTT	FCH _RC1	1013	824.70 (Low)	23.71	0.23
			384	836.52 (Mid)	23.62	0.23
			777	848.31 (High)	23.80	0.24
		FCH_RC3	1013	824.70 (Low)	23.65	0.23
			384	836.52 (Mid)	23.67	0.23
			777	848.31 (High)	23.67	0.23
		FCH+SCH_RC3	1013	824.70 (Low)	23.66	0.23
			384	836.52 (Mid)	23.58	0.23
			777	848.31 (High)	23.83	0.24
	1xEV-DO	EVDO-UL: 9.6Kbps	1013	824.70 (Low)	24.10	0.26
			384	836.52 (Mid)	24.48	0.28
			777	848.31 (High)	24.24	0.27
		EVDO-UL: 38.4Kbps	1013	824.70 (Low)	23.97	0.25
			384	836.52 (Mid)	24.46	0.28
			777	848.31 (High)	24.43	0.28
		EVDO-UL: 153.6Kbps	1013	824.70 (Low)	23.87	0.24
			384	836.52 (Mid)	24.39	0.27
			777	848.31 (High)	24.29	0.27
CDMA2000 PCS 1900	1xRTT	FCH_RC1	25	1851.25 (Low)	23.46	0.22
			600	1880.00 (Mid)	22.57	0.18
			1177	1908.75 (High)	23.67	0.23
		FCH_RC3	25	1851.25 (Low)	23.32	0.21
			600	1880.00 (Mid)	22.54	0.18
			1177	1908.75 (High)	23.62	0.23
		FCH+SCH_RC1	25	1851.25 (Low)	23.48	0.22
			600	1880.00 (Mid)	22.59	0.18
			1177	1908.75 (High)	23.60	0.23
	1xEV-DO	EVDO-UL: 9.6Kbps	25	1851.25 (Low)	23.92	0.25
			600	1880.00 (Mid)	23.11	0.20
			1177	1908.75 (High)	23.50	0.22
		EVDO-UL: 38.4Kbps	25	1851.25 (Low)	23.82	0.24
			600	1880.00 (Mid)	23.15	0.21
			1177	1908.75 (High)	23.60	0.23
		EVDO-UL: 153.6Kbps	25	1851.25 (Low)	23.76	0.24
			600	1880.00 (Mid)	23.09	0.20
			1177	1908.75 (High)	23.60	0.23

Note:
1. For cellular band 850, the worst case adopted as maximum output power 24.48dBm, is at CDMA2000 1xEVDO, 9.6Kbps.
2. For PCS band 1900, the worst case adopted as maximum output power 23.92dBm, is at CDMA2000 1xEVDO, 9.6Kbps.

4.3 ERP / 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

1. The EUT was placed on a tutntable 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 = Ps + Et – Es + Gs = Ps + Rt – Rs + Gs

   Ps (dBm)：Input power to substitution antenna.

   Gs (dBi or dBd)：Substitution antenna Gain.

   Et = Rt + AF

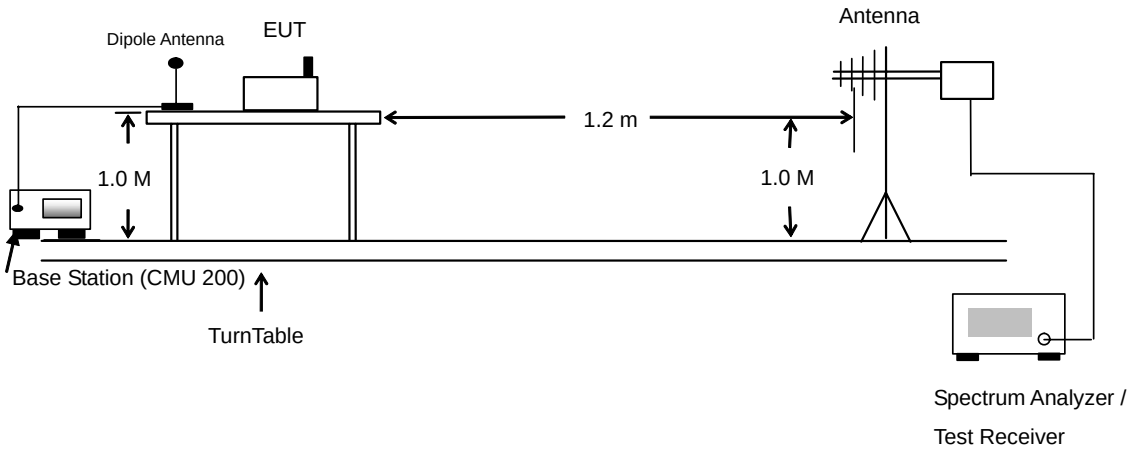
   Es = Rs + AF

   AF (dB/m)：Receive antenna factor

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

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

4.3.3 Test Setup Layout of ERP/EIRP



4.3.4 Test Result

CDMA2000 Cellular 850 1xRTT FCH+SCH_RC3 Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-28.25	-48.12	0.00	-1.08	18.79	0.08
836.52	-29.23	-48.28	0.00	-0.93	18.12	0.06
848.31	-30.46	-48.35	0.00	-0.76	17.13	0.05
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-27.23	-47.97	0.00	-1.08	19.66	0.09
836.52	-28.21	-48.01	0.00	-0.93	18.87	0.08
848.31	-29.40	-48.05	0.00	-0.76	17.89	0.06

CDMA2000 Cellular 850 1xEV-DO 9.6Kbps Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-28.52	-48.12	0.00	-1.08	18.52	0.07
836.52	-29.98	-48.28	0.00	-0.93	17.37	0.05
848.31	-30.71	-48.35	0.00	-0.76	16.88	0.05
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-27.67	-47.97	0.00	-1.08	19.22	0.08
836.52	-28.34	-48.01	0.00	-0.93	18.74	0.07
848.31	-30.06	-48.05	0.00	-0.76	17.23	0.05

CDMA2000 PCS1900 1xRTT FCH_RC1 Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-33.38	-51.88	0.00	1.96	20.46	0.11
1880.00	-35.44	-52.99	0.00	2.00	19.55	0.09
1908.75	-36.94	-54.28	0.00	1.98	19.32	0.09
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-32.86	-52.13	0.00	1.96	21.23	0.13
1880.00	-34.36	-53.17	0.00	2.00	20.81	0.12
1908.75	-35.94	-54.13	0.00	1.98	20.17	0.10

CDMA2000 PCS1900 1xEV-DO 9.6Kbps Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-34.39	-51.88	0.00	1.96	19.45	0.09
1880.00	-36.13	-52.99	0.00	2.00	18.86	0.08
1908.75	-38.28	-54.28	0.00	1.98	17.98	0.06
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-33.98	-52.13	0.00	1.96	20.11	0.10
1880.00	-35.30	-53.17	0.00	2.00	19.87	0.10
1908.75	-36.97	-54.13	0.00	1.98	19.14	0.08

4.4 Occupied Bandwidth and Band Edge Measurement

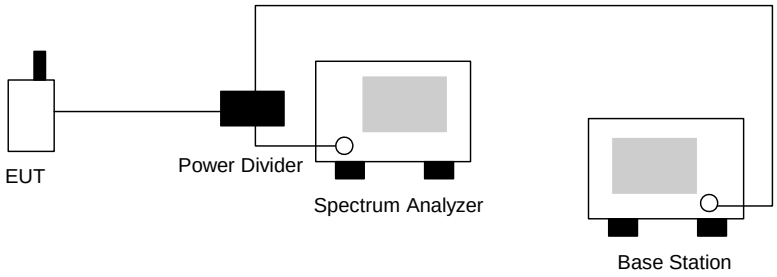
4.4.1 Measurement Instruments

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 99% occupied bandwidth and 26 dB Bandwidth of middle channel for the highest 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. 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% Occupy Bandwidth / Measured RBW) was used.

4.4.3 Test Setup Layout



4.4.4 Test Data

- **Mode 1~2**

Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Measurement Value (dBm)	Correction Factor (dB)	Band Edge (dBm)
CDMA2000 Cellular 850	1xRTT	FCH_RC1	1013	824.70 (Low)	-16.73	1.07	-15.66
			777	848.31 (High)	-15.50	1.07	-14.43
		FCH_RC3	1013	824.70 (Low)	-16.68	1.07	-15.61
			777	848.31 (High)	-17.17	1.07	-16.10
		FCH+SCH_RC3	1013	824.70 (Low)	-20.15	1.07	-19.08
			777	848.31 (High)	-15.87	1.07	-14.80
	1xEV-DO	9.6Kbps	1013	824.70 (Low)	-18.28	1.09	-17.19
			777	848.31 (High)	-15.81	1.09	-14.72
		38.4Kbps	1013	824.70 (Low)	-15.21	1.09	-14.12
			777	848.31 (High)	-16.23	1.09	-15.14
		153.6Kbps	1013	824.70 (Low)	-15.36	1.09	-14.27
			777	848.31 (High)	-14.27	1.09	-13.18

Note:

<For 1xRTT>
*Occupy Bandwidth = 1280.00KHz
*Correction Factor = 10*log(1% Occupy Bandwidth / Measurement RBW)
= 10*log[(0.01*1280.00KHz) / 10KHz]
= 1.07 dB

<For 1xEVDO>
*Occupy Bandwidth = 1284.00KHz
*Correction Factor = 10*log(1% Occupy Bandwidth / Measurement RBW)
= 10*log[(0.01*1284.00KHz) / 10KHz]
= 1.09 dB

*Band Edge = Measurement Value + Correction Factor

- **Mode 3~4**

Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Measurement Value (dBm)	Correction Factor (dB)	Band Edge (dBm)
CDMA2000 PCS 1900	1xRTT	FCH_RC1	25	1851.25 (Low)	-27.28	1.07	-26.21
			1177	1908.75 (High)	-19.18	1.07	-18.11
		FCH_RC3	25	1851.25 (Low)	-26.74	1.07	-25.67
			1177	1908.75 (High)	-22.52	1.07	-21.45
		FCH+SCH_RC3	25	1851.25 (Low)	-30.55	1.07	-29.48
			1177	1908.75 (High)	-22.80	1.07	-21.73
	1xEV-DO	9.6Kbps	25	1851.25 (Low)	-27.16	1.04	-26.12
			1177	1908.75 (High)	-23.08	1.04	-22.04
		38.4Kbps	25	1851.25 (Low)	-20.72	1.04	-19.68
			1177	1908.75 (High)	-32.02	1.04	-30.98
		153.6Kbps	25	1851.25 (Low)	-33.02	1.04	-31.98
			1177	1908.75 (High)	-25.94	1.04	-24.90

Note:

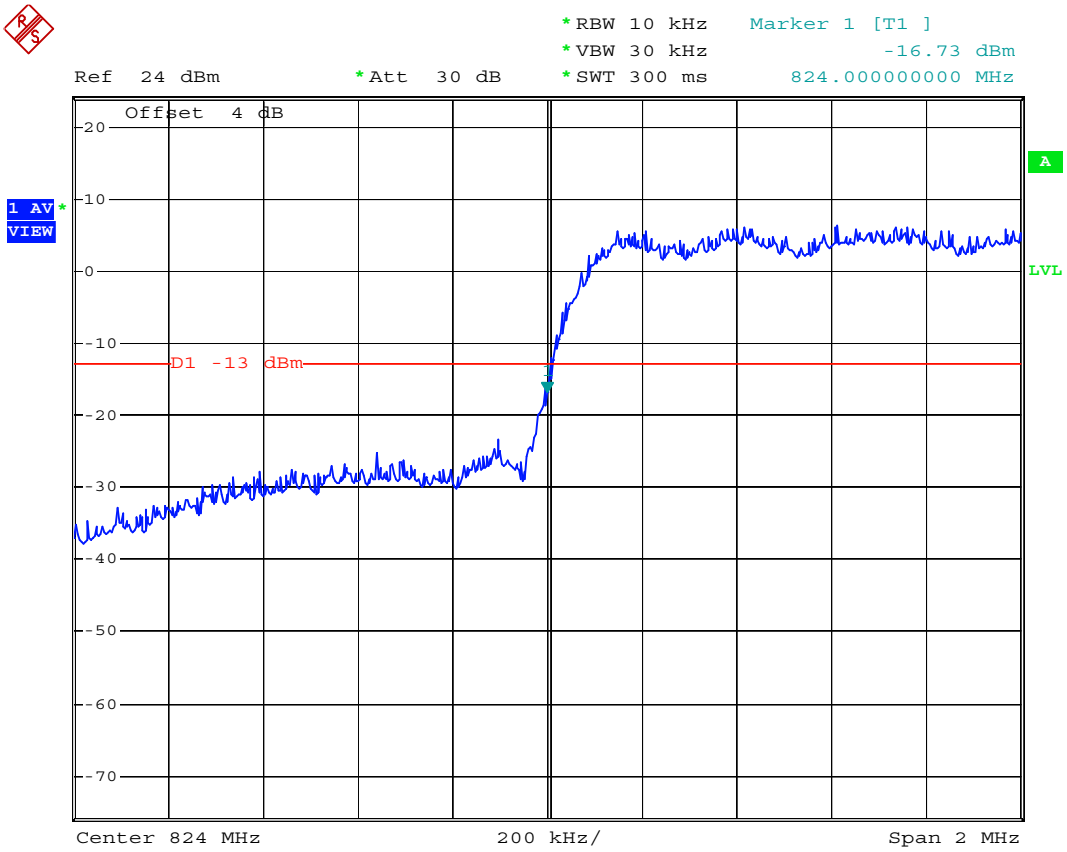
<For 1xRTT>
*Occupy Bandwidth = 1280.00KHz
*Correction Factor = 10*log(1% Occupy Bandwidth / Measurement RBW)
= 10*log[(0.01*1280.00KHz) / 10KHz]
= 1.07 dB

<For 1xEVDO>
*Occupy Bandwidth = 1272.00KHz
*Correction Factor = 10*log(1% Occupy Bandwidth / Measurement RBW)
= 10*log[(0.01*1272.00KHz) / 10KHz]
= 1.04 dB

*Band Edge = Measurement Value + Correction Factor

4.4.5 Test Result

- Mode 1
- Test Mode : CDMA2000 Cellular 850 Band CH1013_FCH_RC1 Lower Band Edge for 1xRTT
- Power State : High



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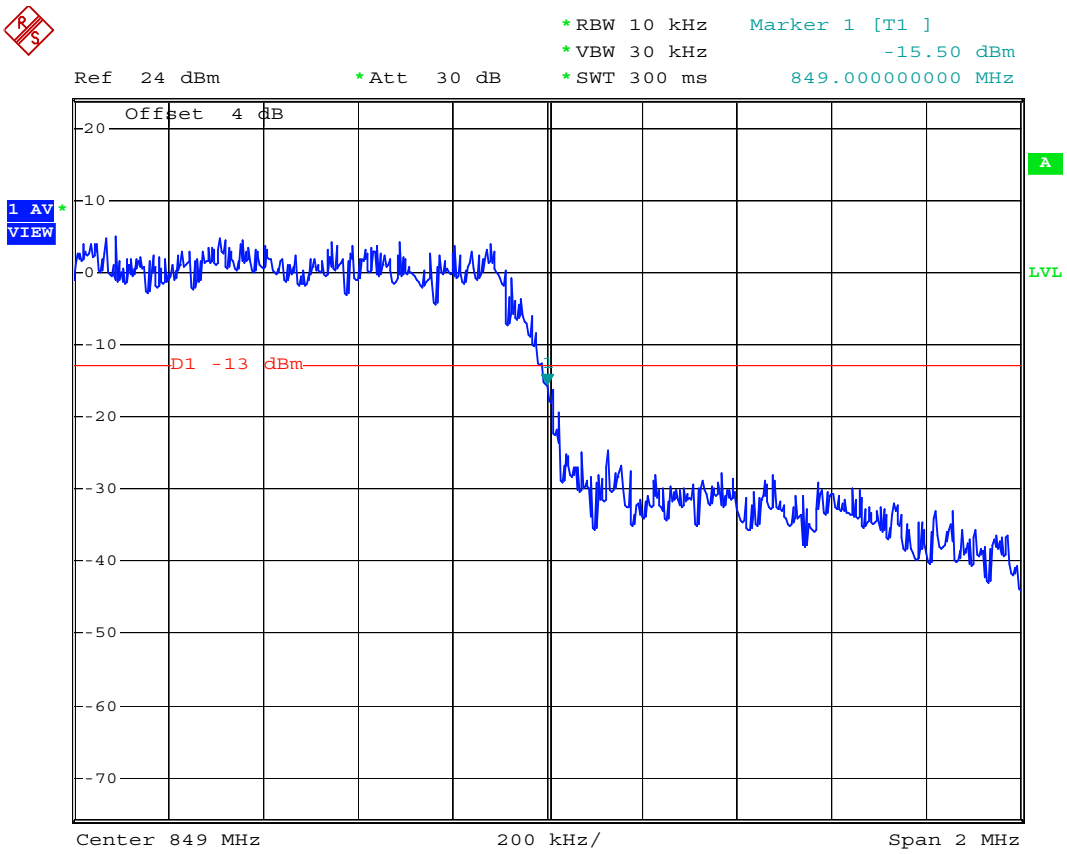
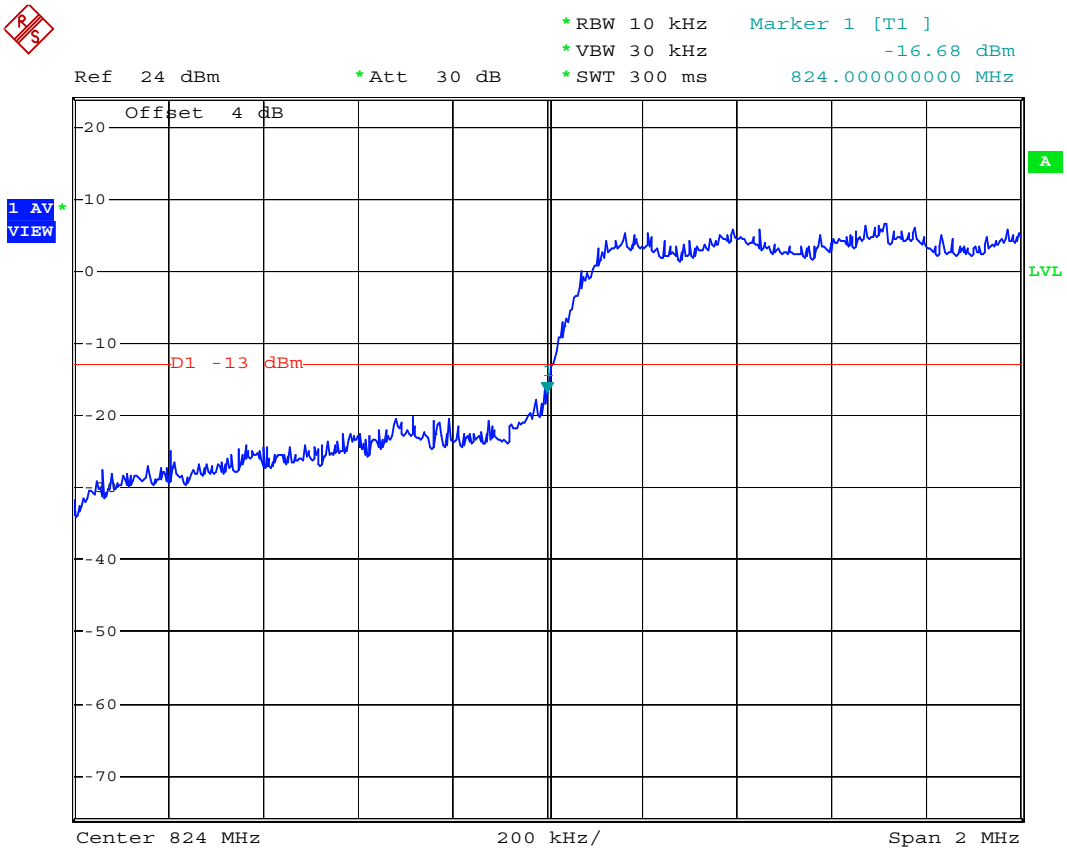
- Test Mode : CDMA2000 Cellular 850 CH777_FCH_RC1 Higher Band Edge for 1xRTT
- Power State : High



- Test Mode : CDMA2000 Cellular 850 Band CH1013_FCH_RC3 Lower Band Edge for 1xRTT
- Power State : High



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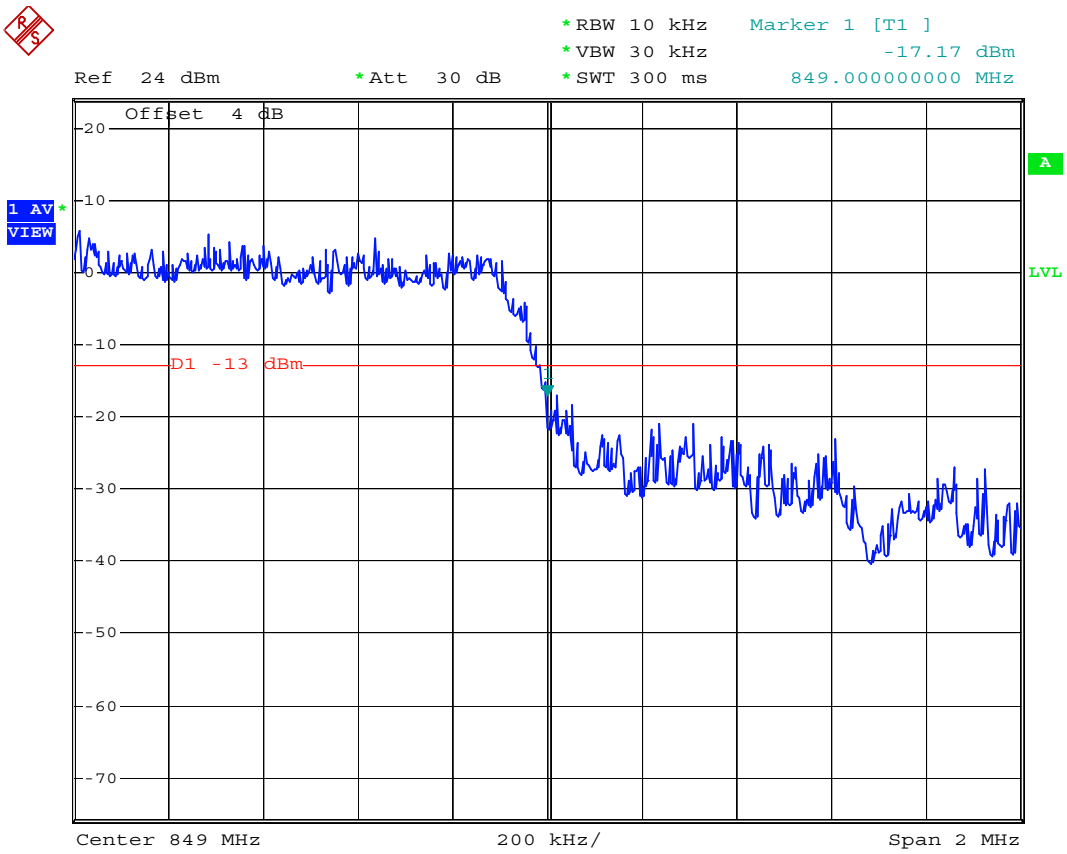
- Test Mode : CDMA2000 Cellular 850 CH777_FCH_RC3 Higher Band Edge for 1xRTT
- Power State : High



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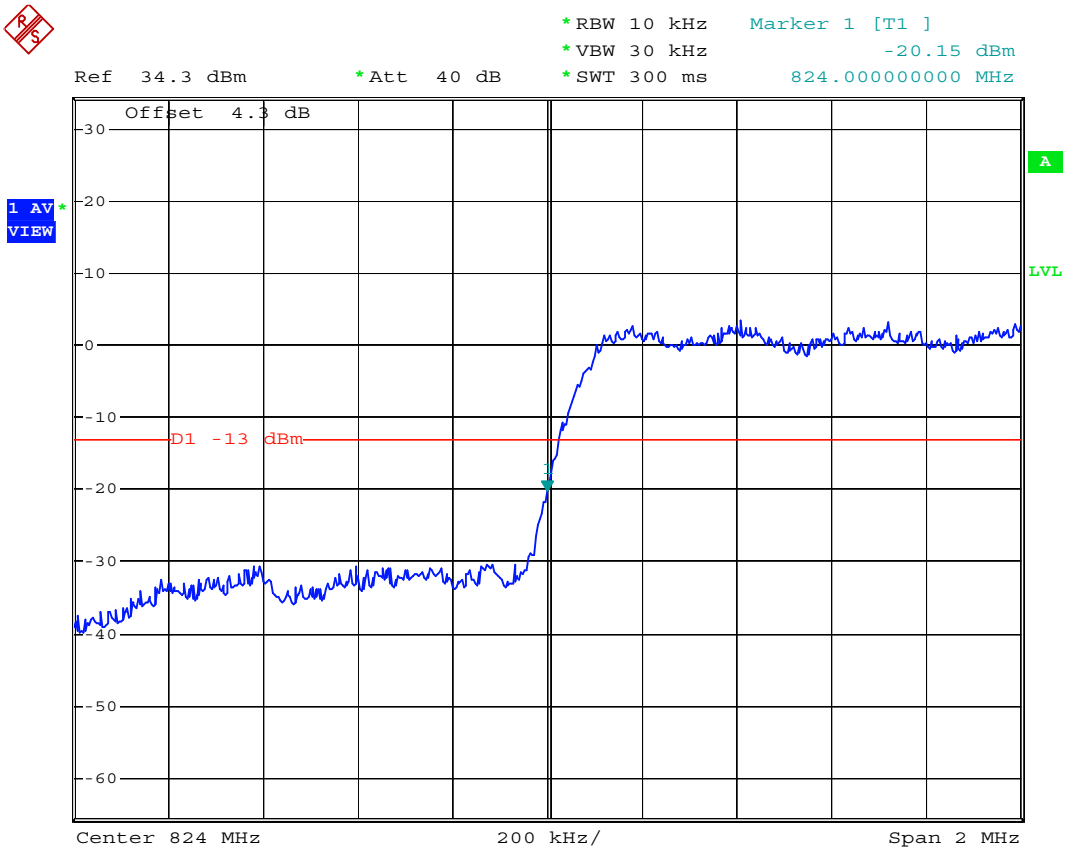
- Test Mode : CDMA2000 Cellular 850 Band CH1013_FCH+SCH_RC3 Lower Band Edge for 1xRTT
- Power State : High, RBW 10K, VBW 30K



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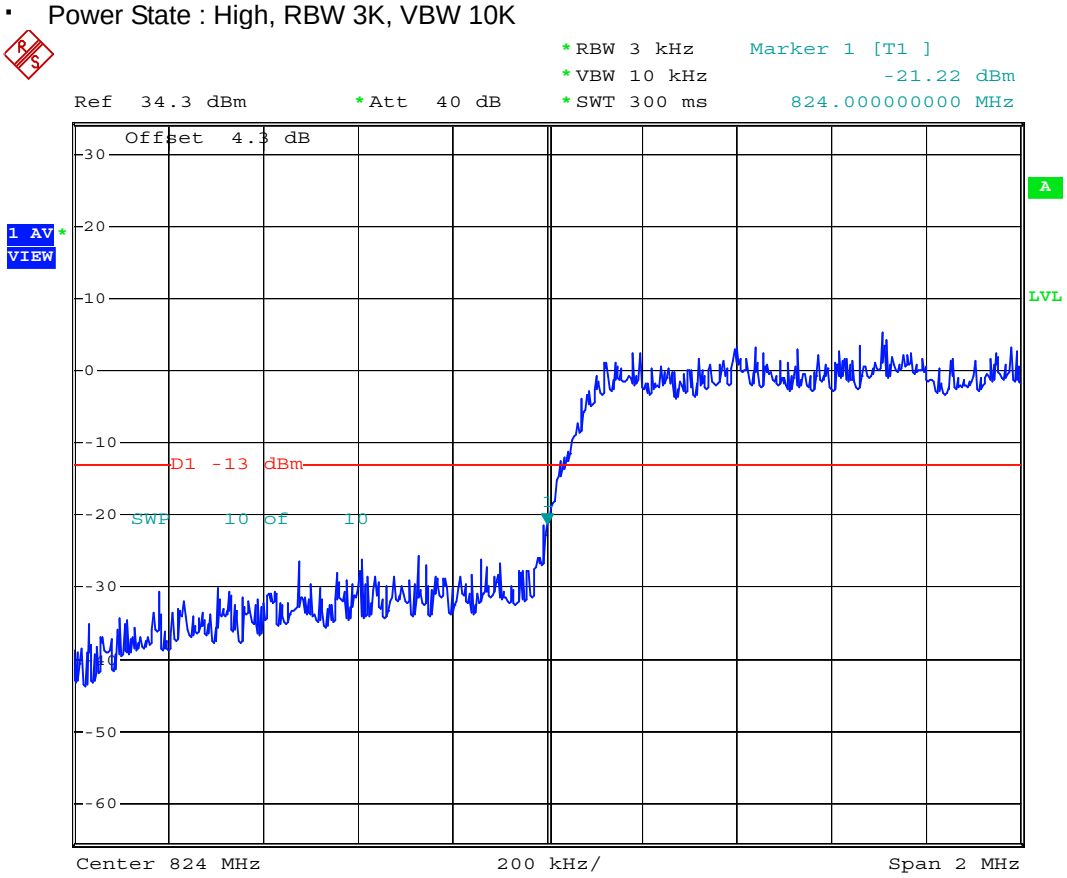
- Test Mode : CDMA2000 Cellular 850 Band CH1013_FCH+SCH_RC3 Lower Band Edge for 1xRTT
- Power State : High, RBW 3K, VBW 10K



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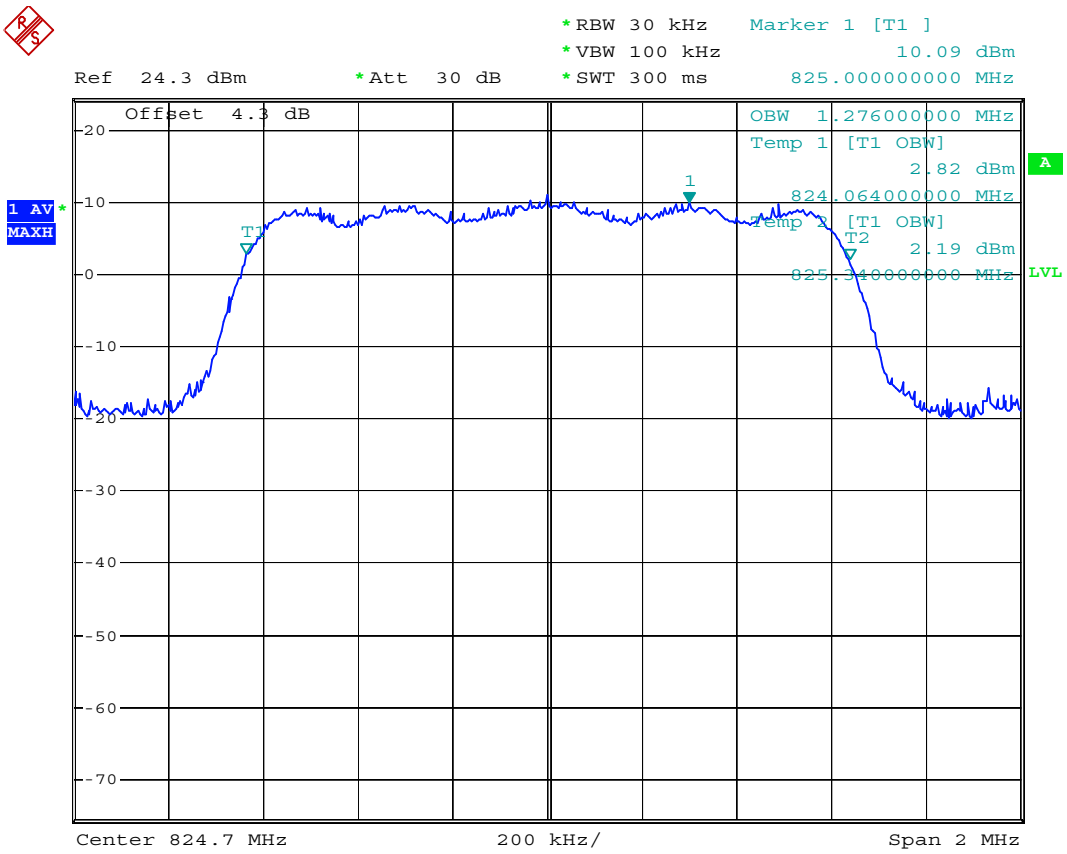
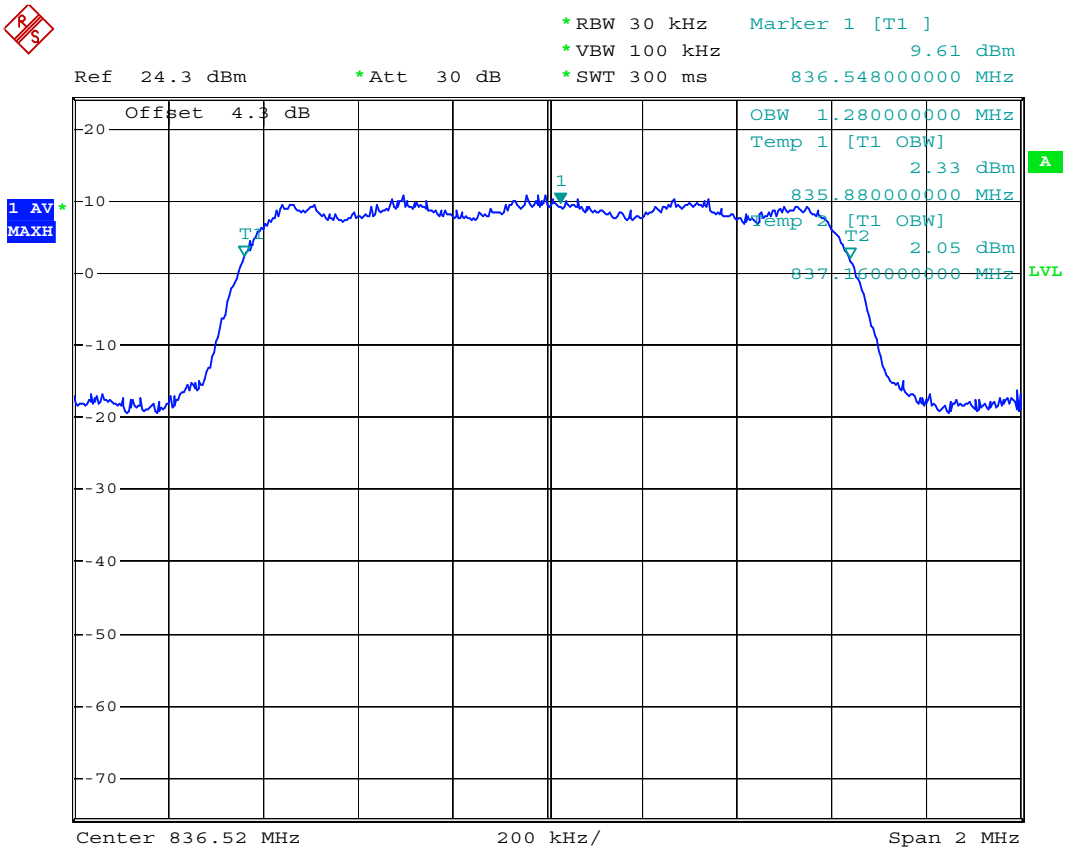
- Test Mode : CDMA2000 Cellular 850 CH1013 99% Occupid Bandwidth for 1xRTT
- Power State : High



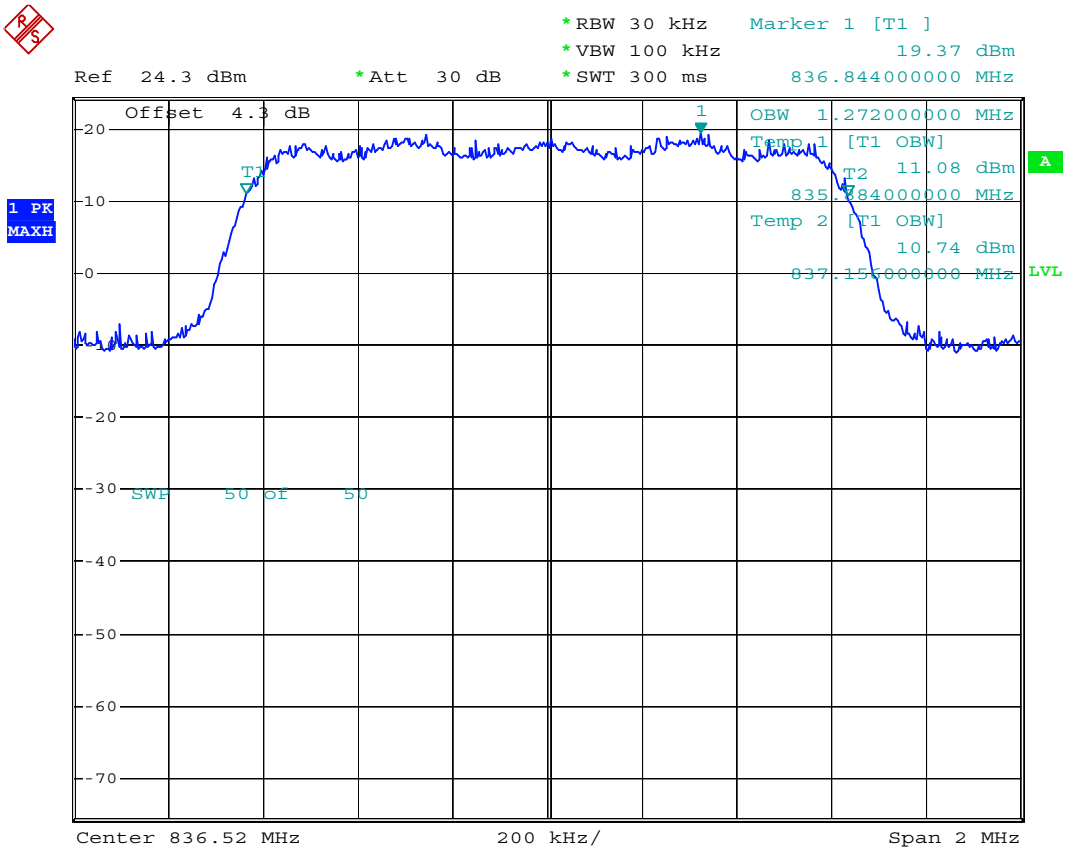
Date: 8.NOV.2007 14:12:08

- Test Mode : CDMA2000 Cellular 850 CH384 99% Occupid Bandwidth for 1xRTT
- Power State : High



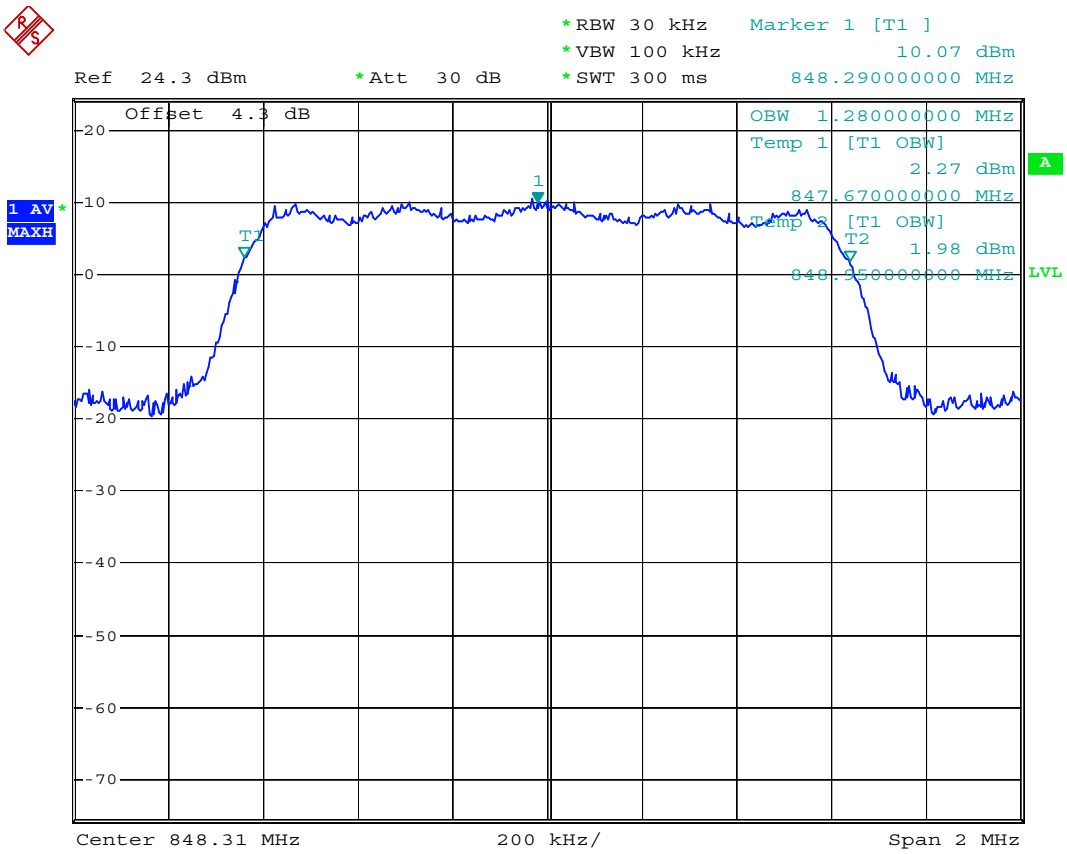
Date: 8.NOV.2007 14:07:48

- Test Mode : CDMA2000 Cellular 850 CH384 99% Occupid Bandwidth for 1xRTT
- Power State : High



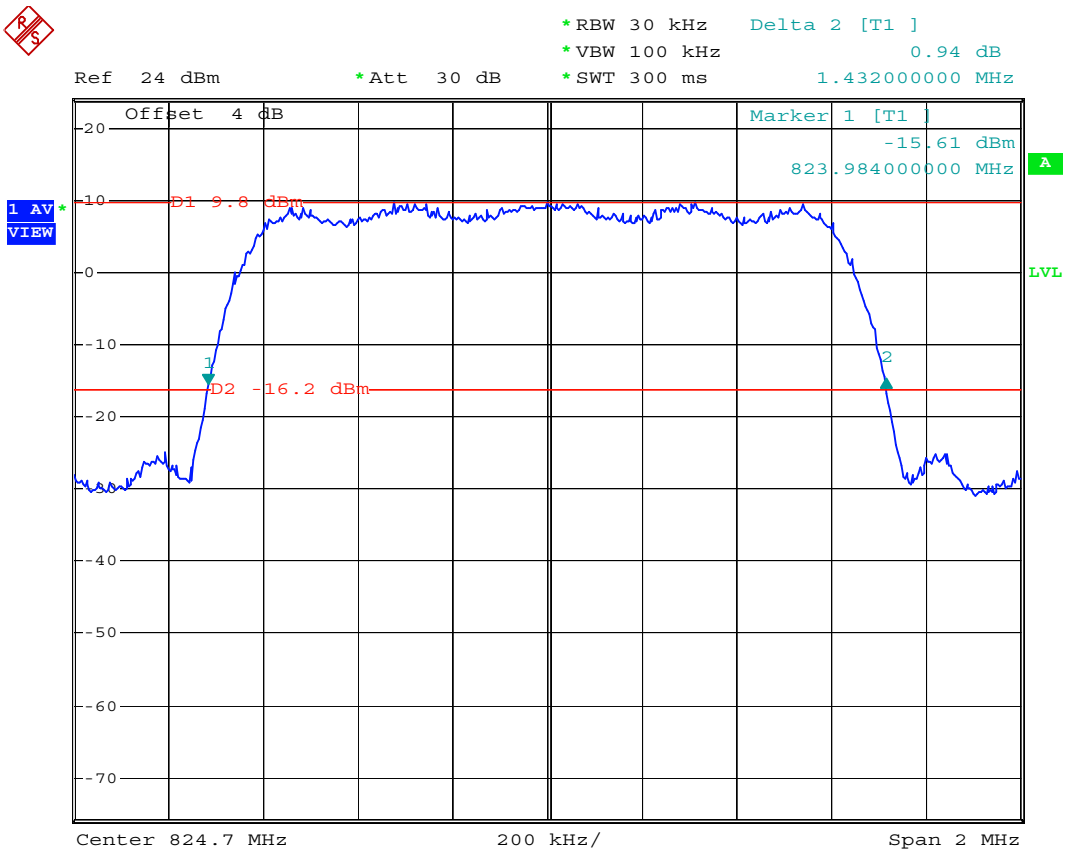
Date: 8.NOV.2007 14:08:58

- Test Mode : CDMA2000 Cellular 850 CH77 99% Occupid Bandwidth for 1xRTT
- Power State : High



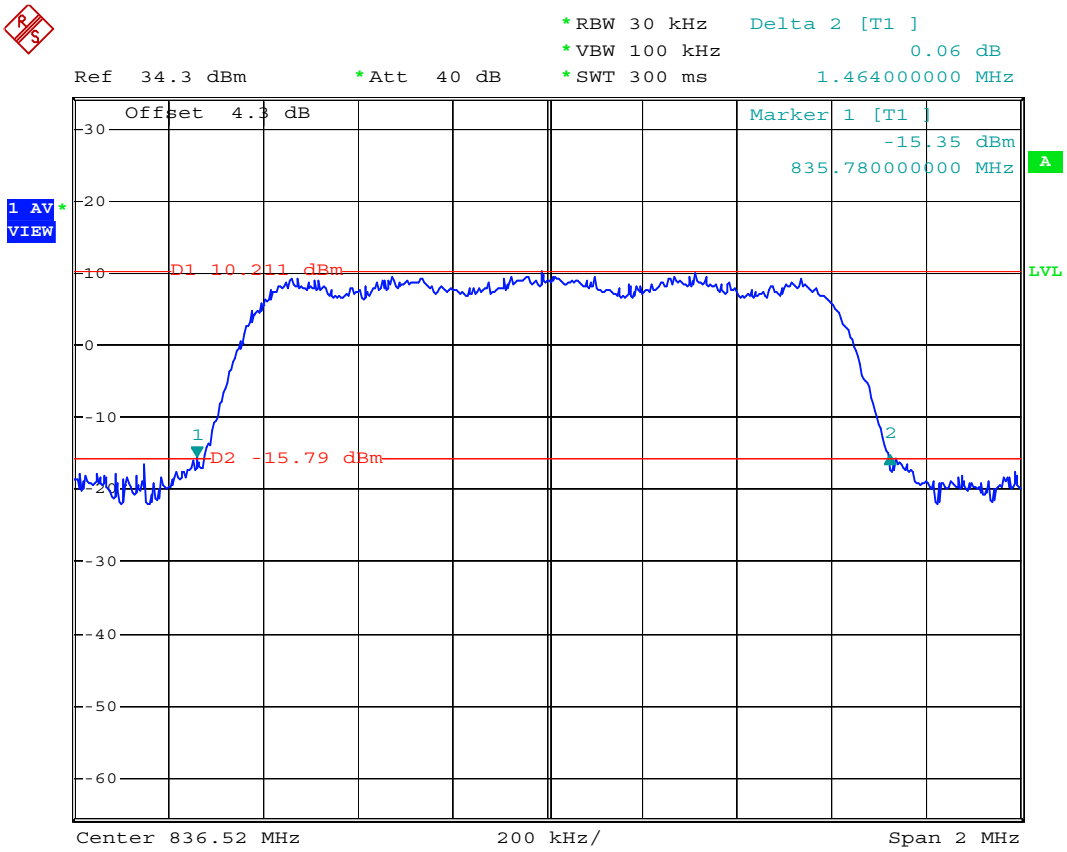
Date: 8.NOV.2007 14:09:48

- Test Mode : CDMA2000 Cellular 850 CH1013 26 dB Bandwidth for 1xRTT
- Power State : High



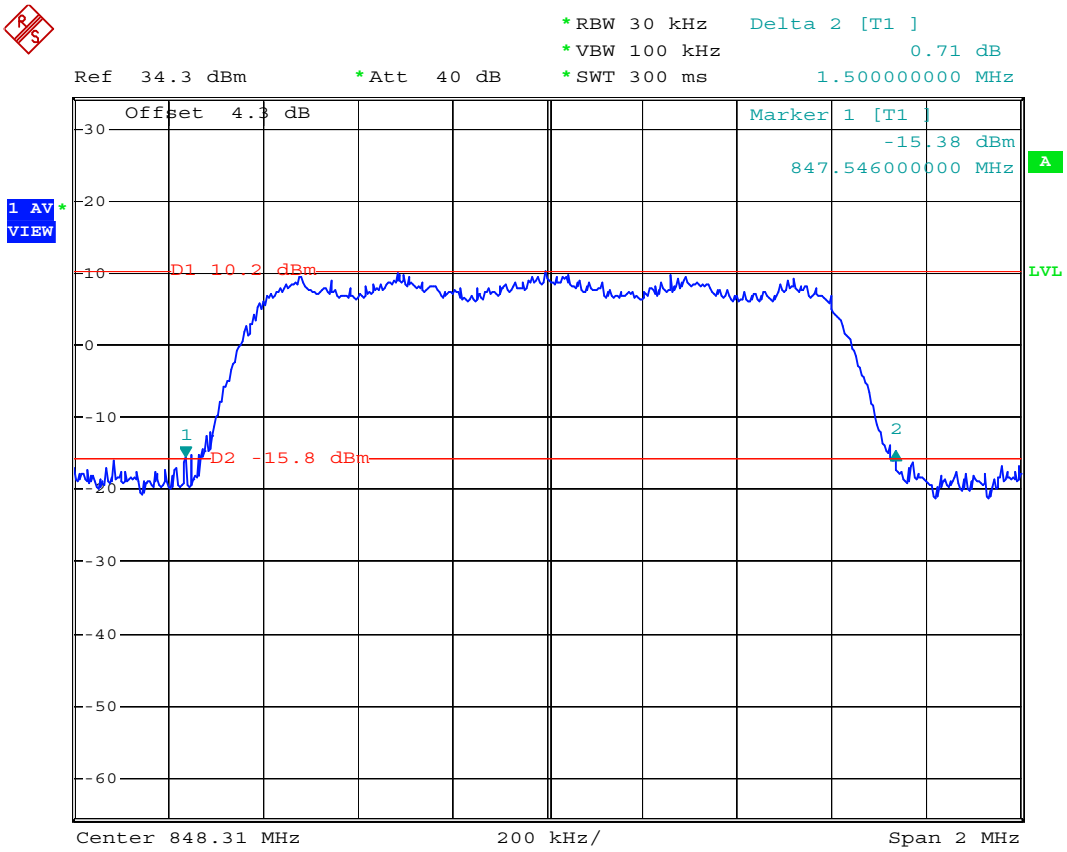
Date: 9.NOV.2007 09:35:36

- Test Mode : CDMA2000 Cellular 850 CH384 26 dB Bandwidth for 1xRTT
- Power State : High



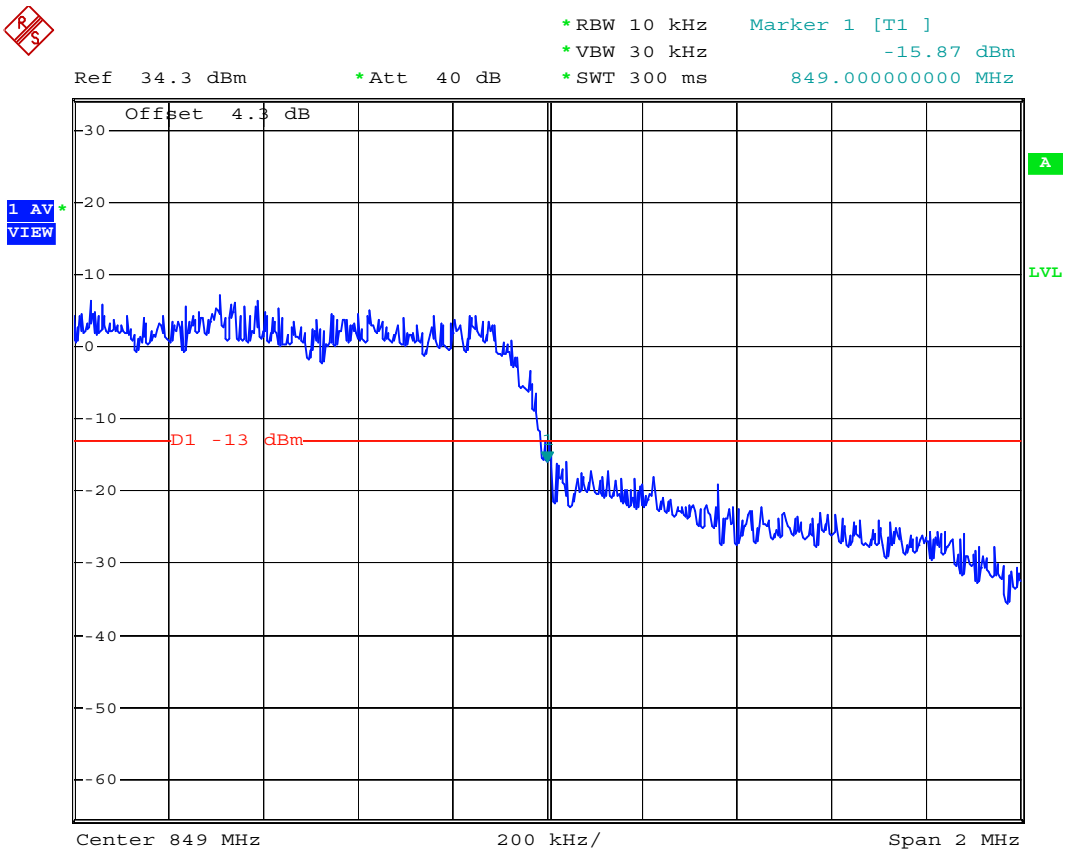
Date: 8.NOV.2007 13:32:18

- Test Mode : CDMA2000 Cellular 850 CH777 26 dB Bandwidth for 1xRTT
- Power State : High



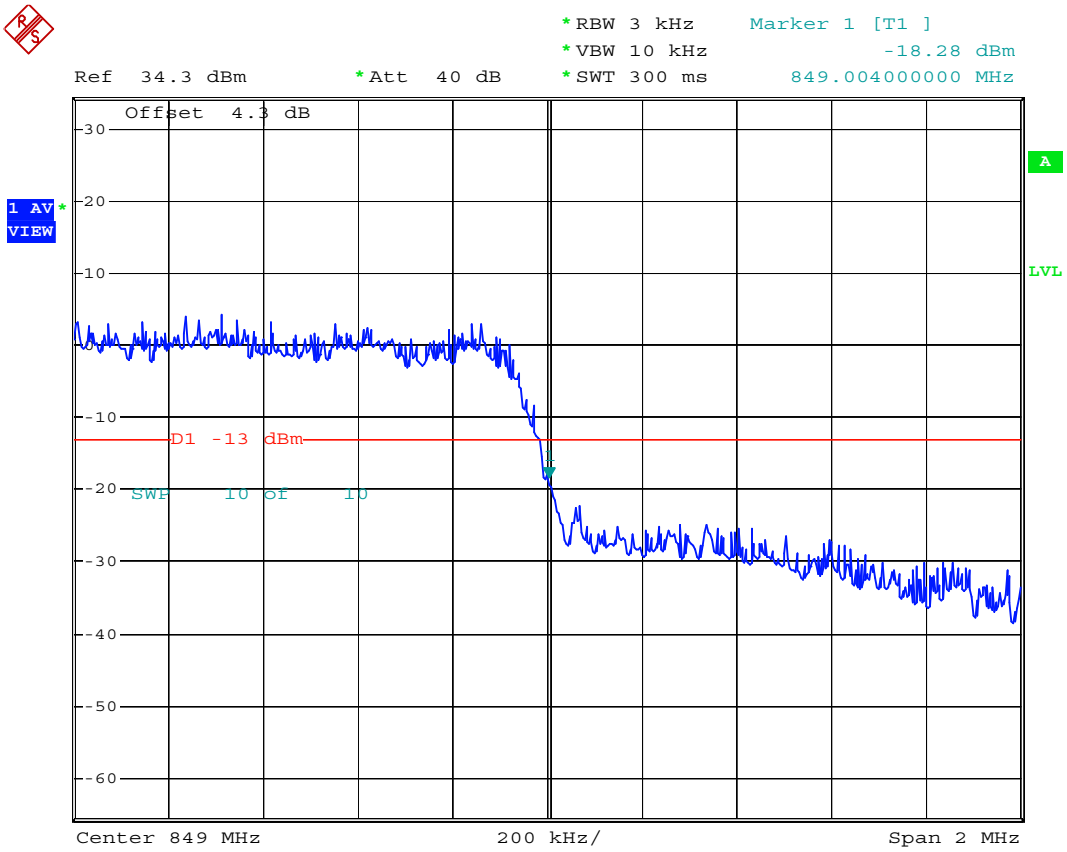
Date: 8.NOV.2007 13:34:04

- Test Mode : CDMA2000 Cellular 850 CH777_FCH+SCH_RC3 Higher Band Edge for 1xRTT
- Power State : High, RBW 10K, VBW 30K



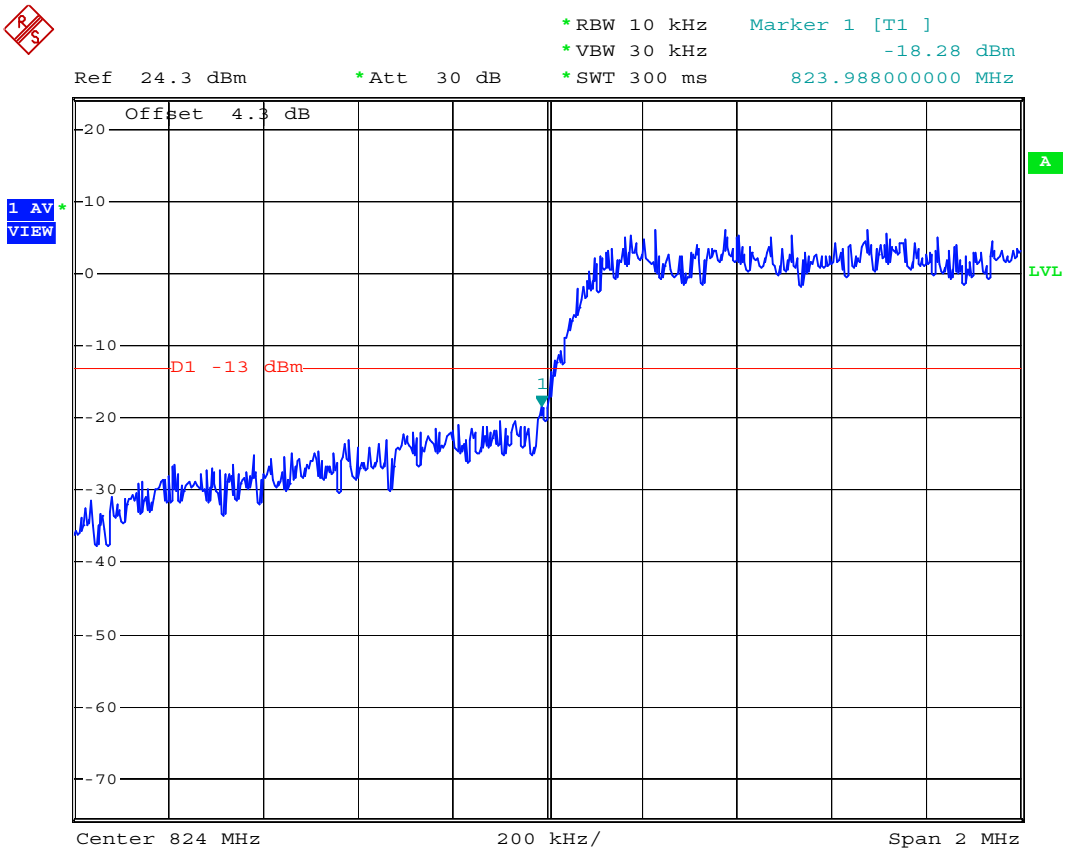
Date: 8.NOV.2007 09:17:03

- Test Mode : CDMA2000 Cellular 850 CH777_FCH+SCH_RC3 Higher Band Edge for 1xRTT
- Power State : High, RBW 3K, VBW 10K



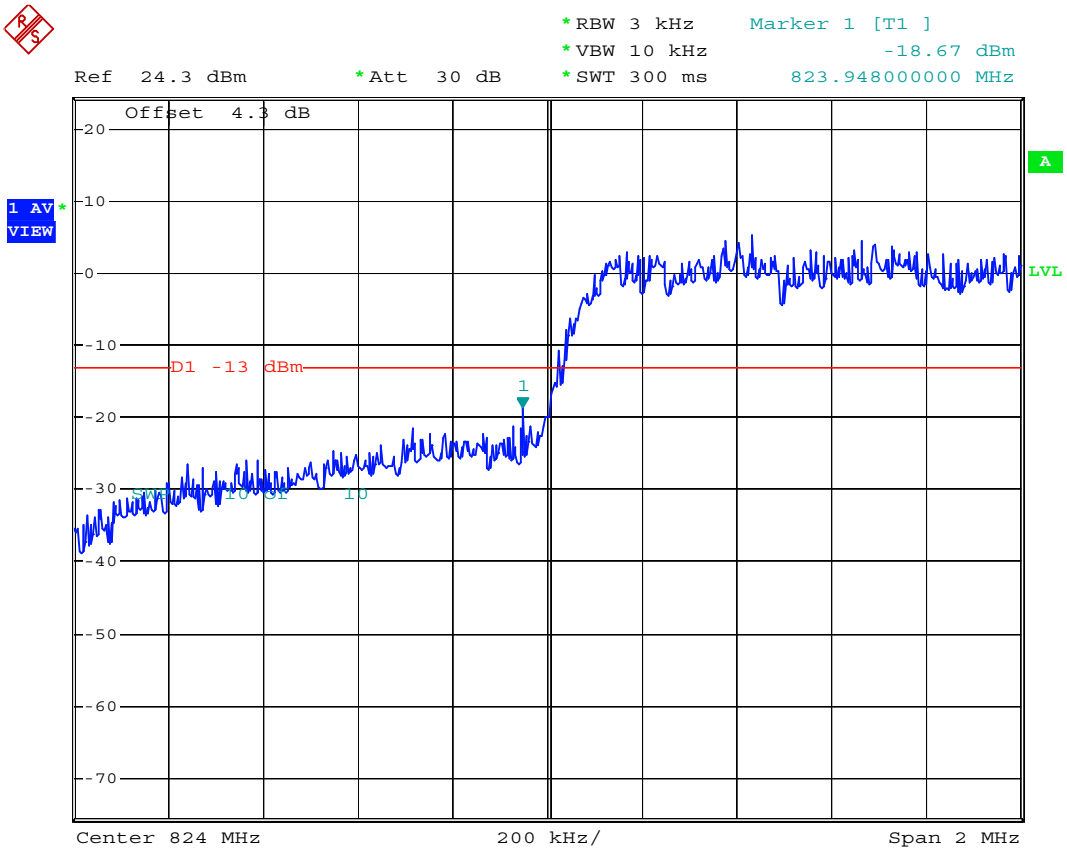
Date: 8.NOV.2007 15:33:30

- Mode 2
- Test Mode : CDMA2000 Cellular 850 CH1013_9.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High, RBW 10K, VBW 30K



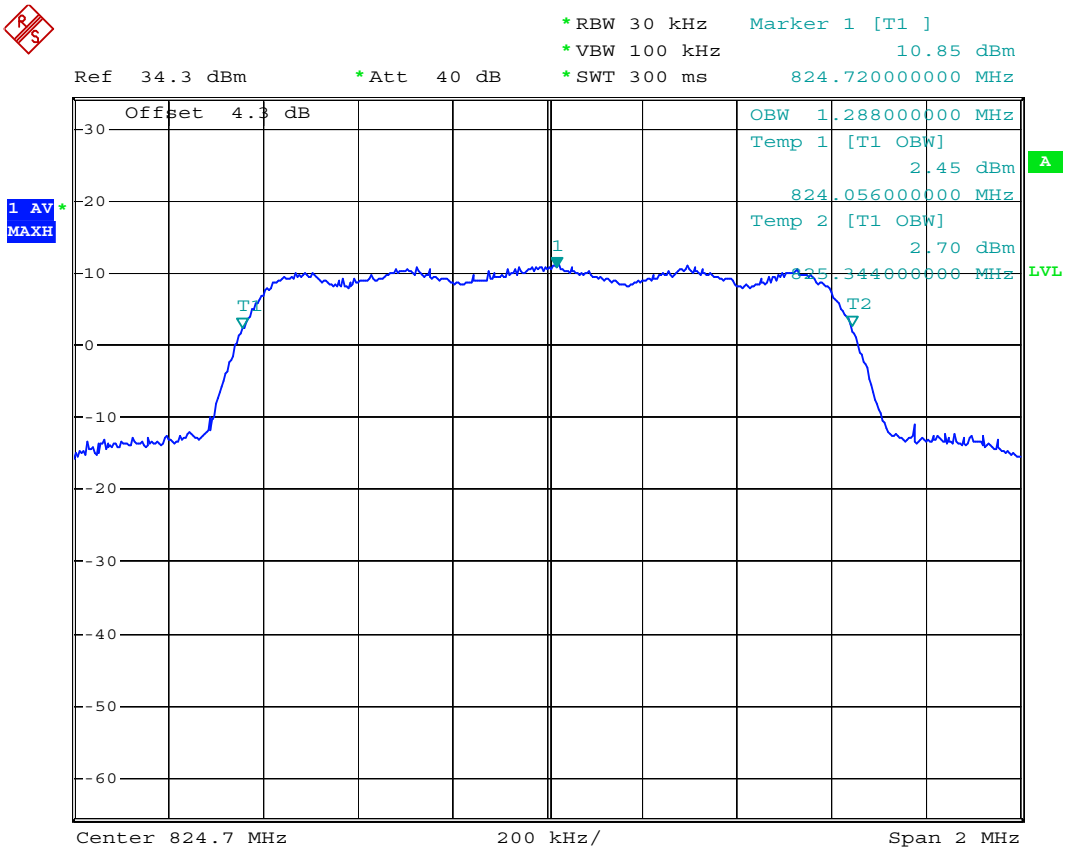
Date: 8.NOV.2007 08:32:46

- Test Mode : CDMA2000 Cellular 850 CH1013_9.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High, RBW 3K, VBW 10K



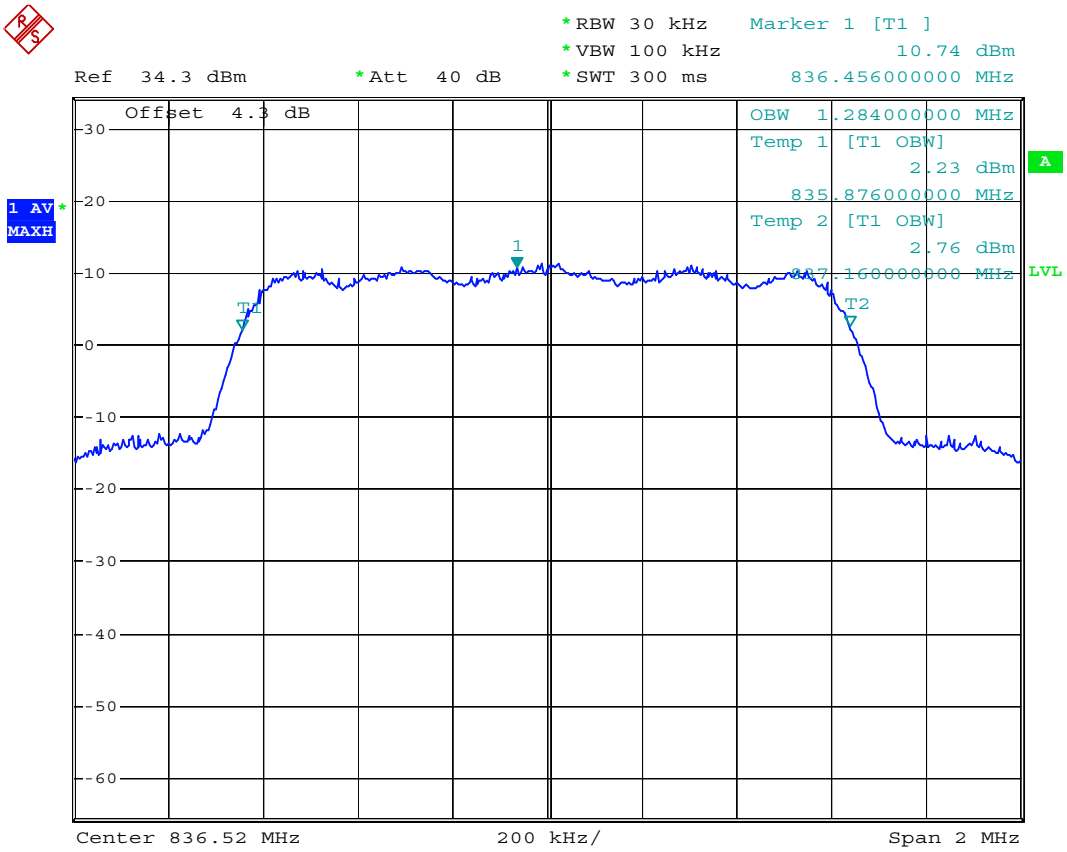
Date: 8.NOV.2007 08:32:04

- Test Mode : CDMA2000 Cellular 850 CH1013 99% Occupid Bandwidth for 1xEV-DO
- Power State : High



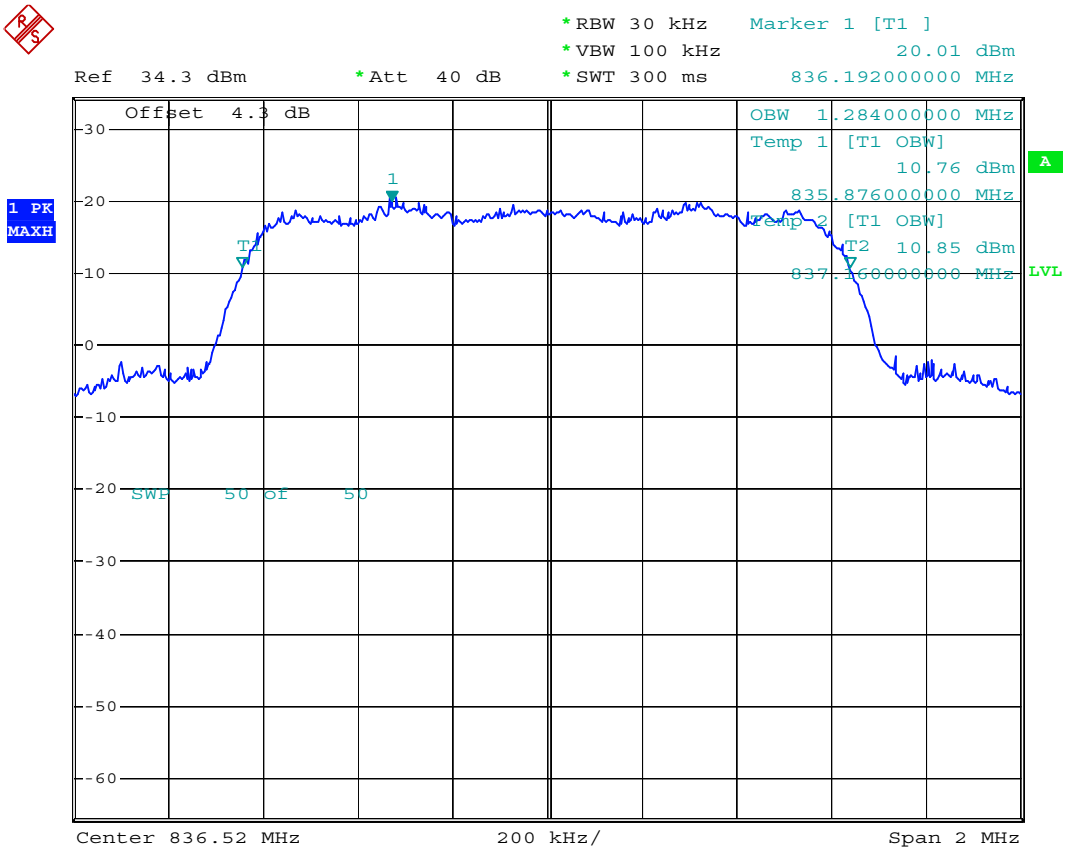
Date: 8.NOV.2007 08:41:47

- Test Mode : CDMA2000 Cellular 850 CH384 99% Occupid Bandwidth for 1xEV-DO
- Power State : High



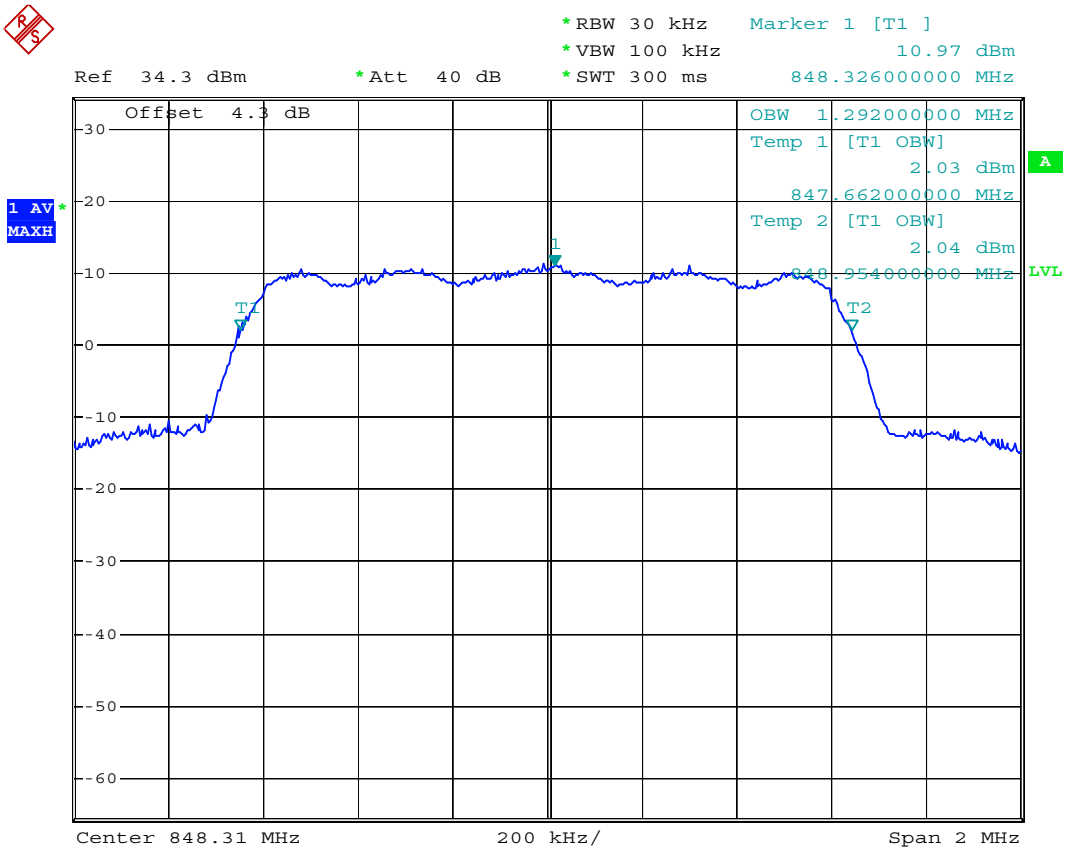
Date: 8.NOV.2007 08:42:57

- Test Mode : CDMA2000 Cellular 850 CH384 99% Occupid Bandwidth for 1xEV-DO
- Power State : High



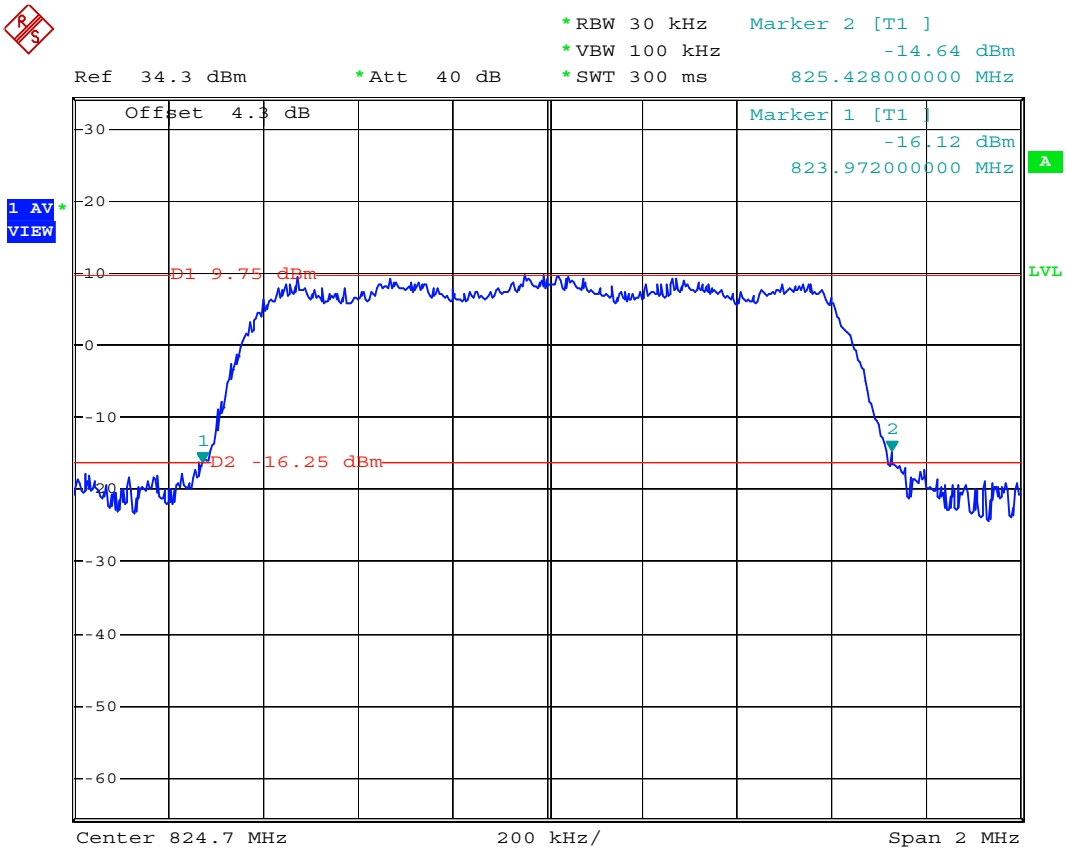
Date: 8.NOV.2007 08:44:05

- Test Mode : CDMA2000 Cellular 850 CH777 99% Occupid Bandwidth for 1xEV-DO
- Power State : High



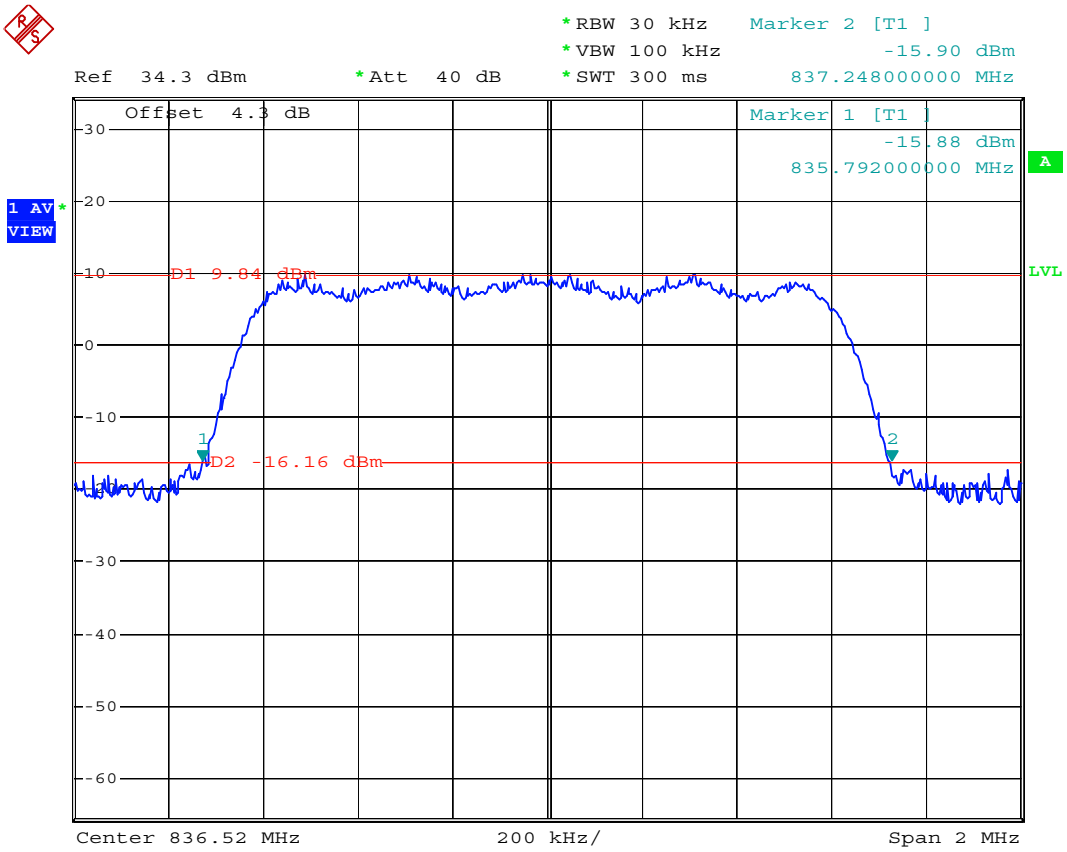
Date: 8.NOV.2007 09:24:20

- Test Mode : CDMA2000 Cellular 850 CH1013 26 dB Bandwidth for 1xEV-DO
- Power State : High



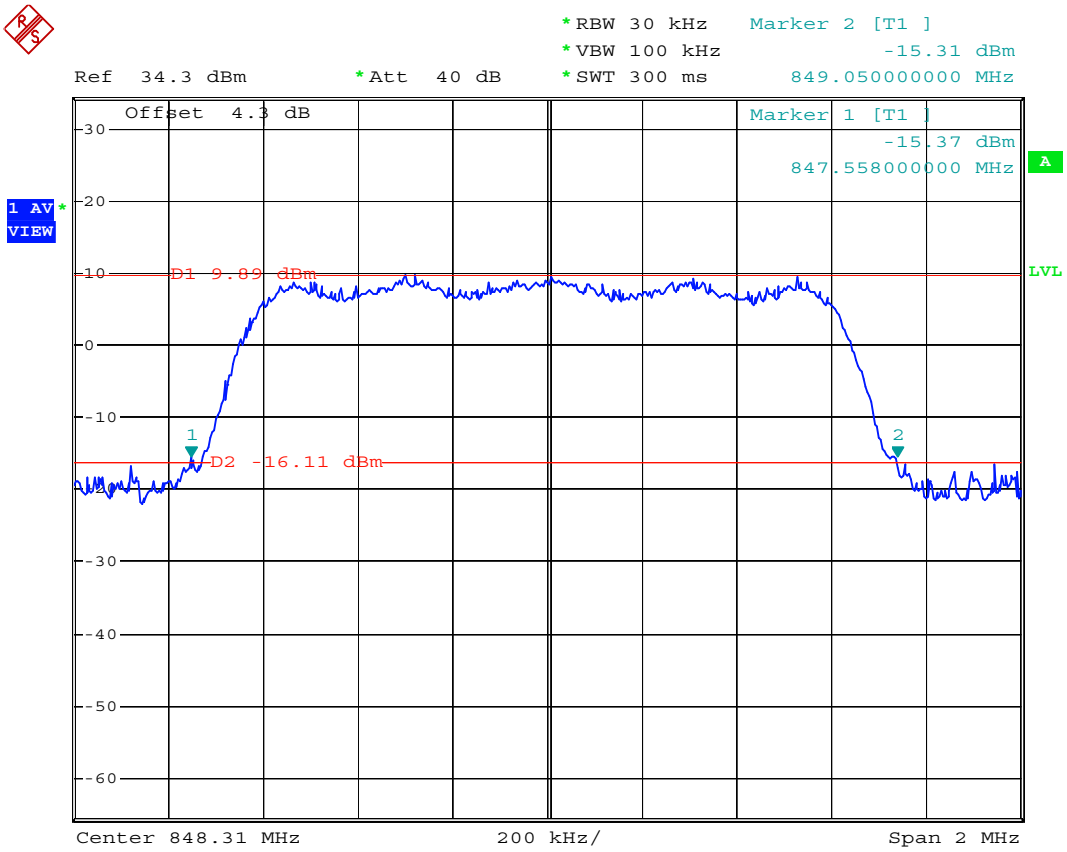
Date: 8.NOV.2007 15:29:27

- Test Mode : CDMA2000 Cellular 850 CH384 26 dB Bandwidth for 1xEV-DO
- Power State : High



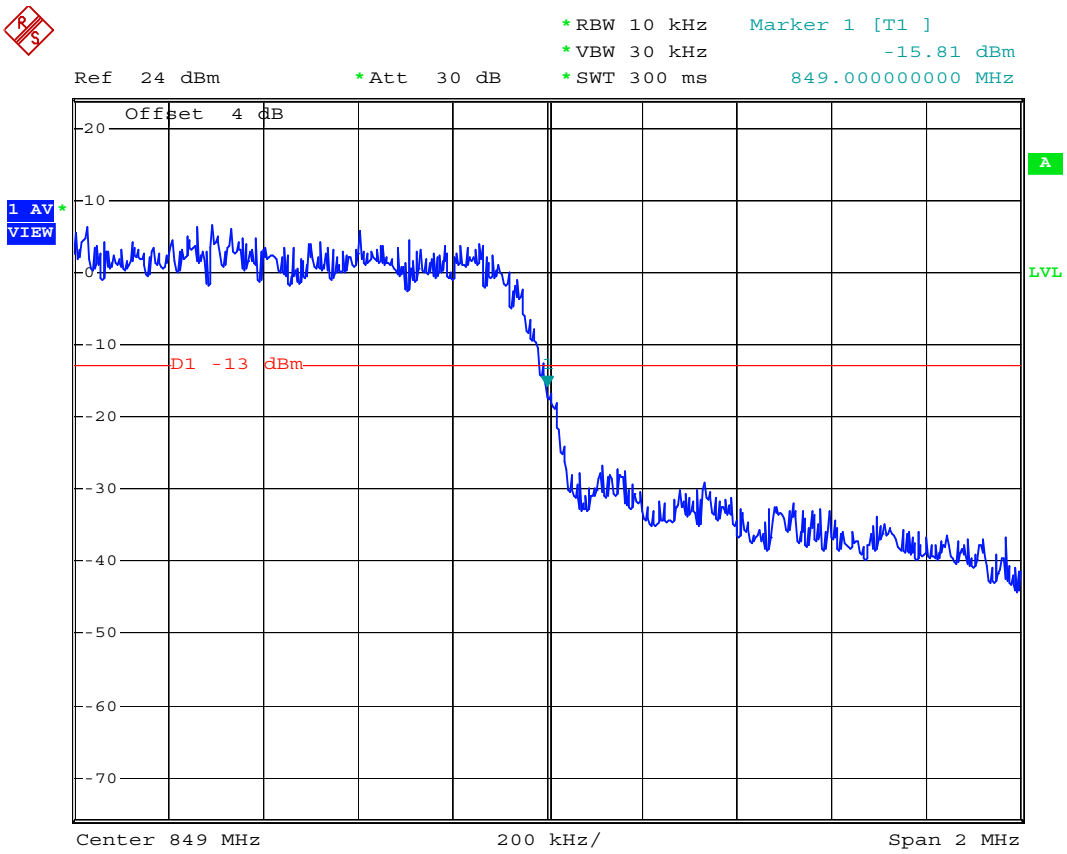
Date: 8.NOV.2007 15:26:37

- Test Mode : CDMA2000 Cellular 850 CH777 26 dB Bandwidth for 1xEV-DO
- Power State : High



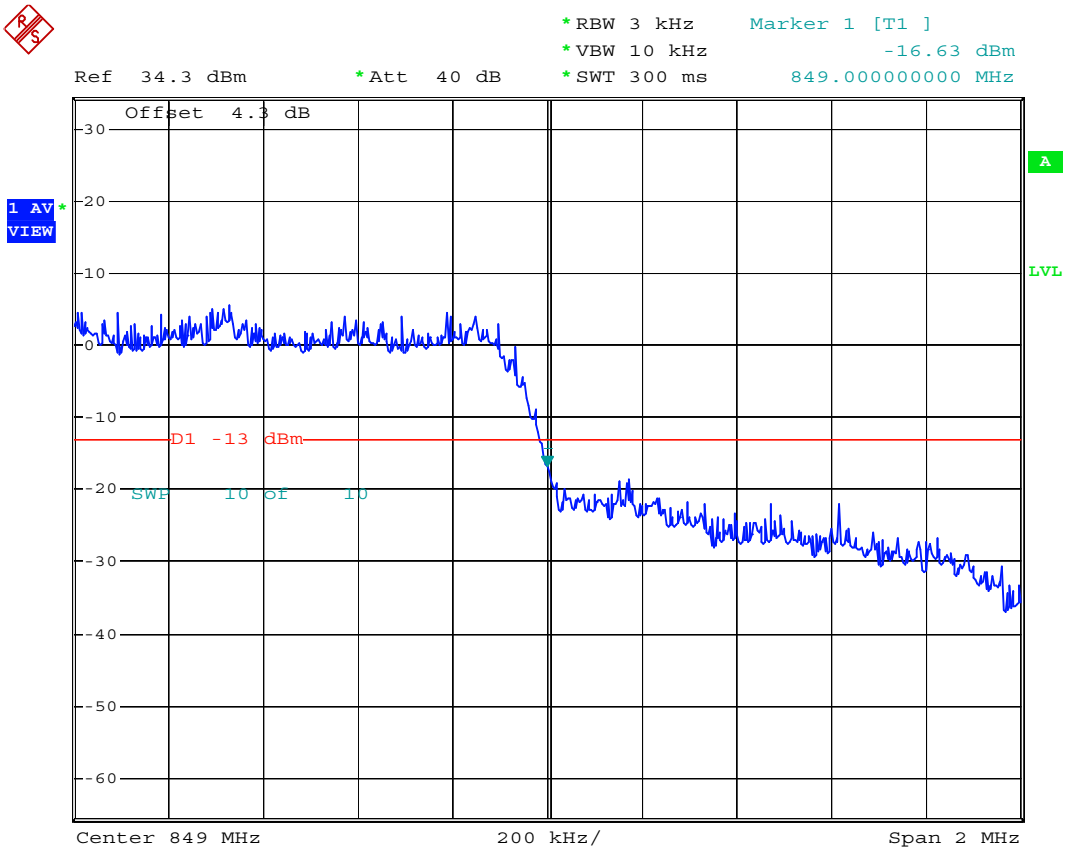
Date: 8.NOV.2007 15:28:16

- Test Mode : CDMA2000 Cellular 850 CH777_9.6Kbps Higher Band Edge for 1xEV-DO
- Power State : High, RBW 10K, VBW 30K



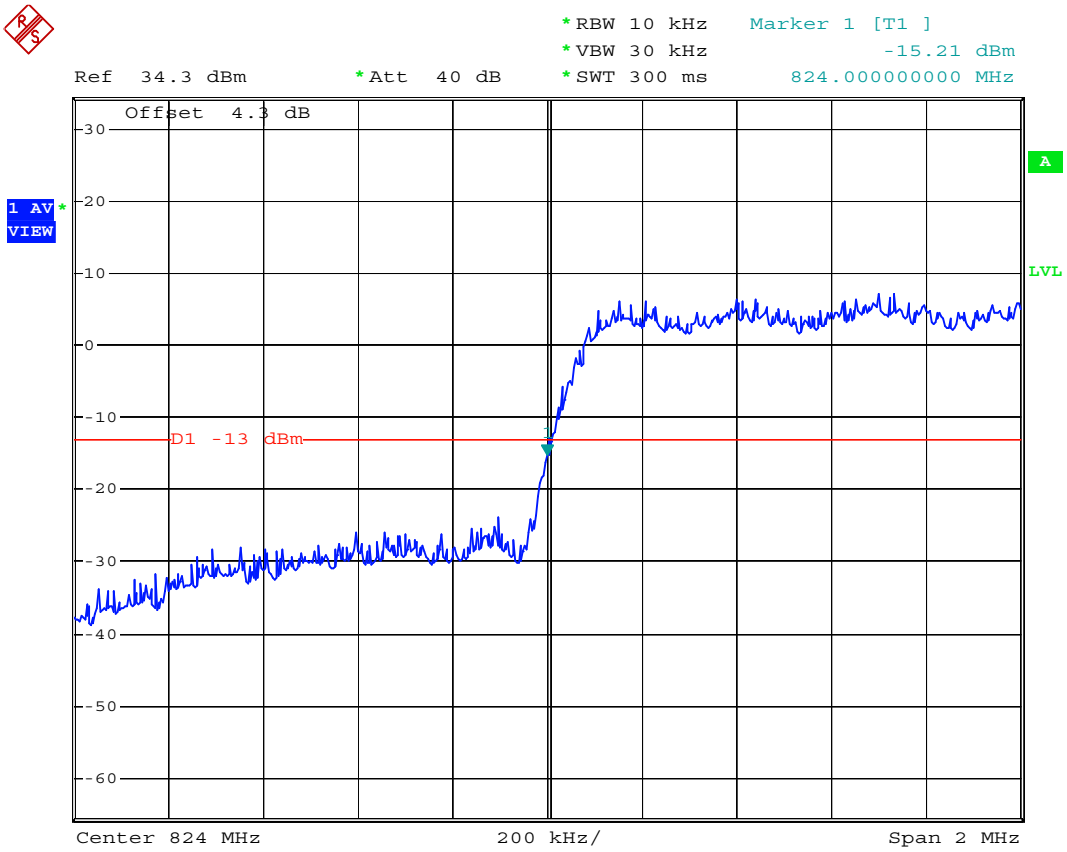
Date: 19.NOV.2007 10:01:17

- est Mode : CDMA2000 Cellular 850 CH777_9.6Kbps Higher Band Edge for 1xEV-DO
- Power State : High, RBW 3K, VBW 10K



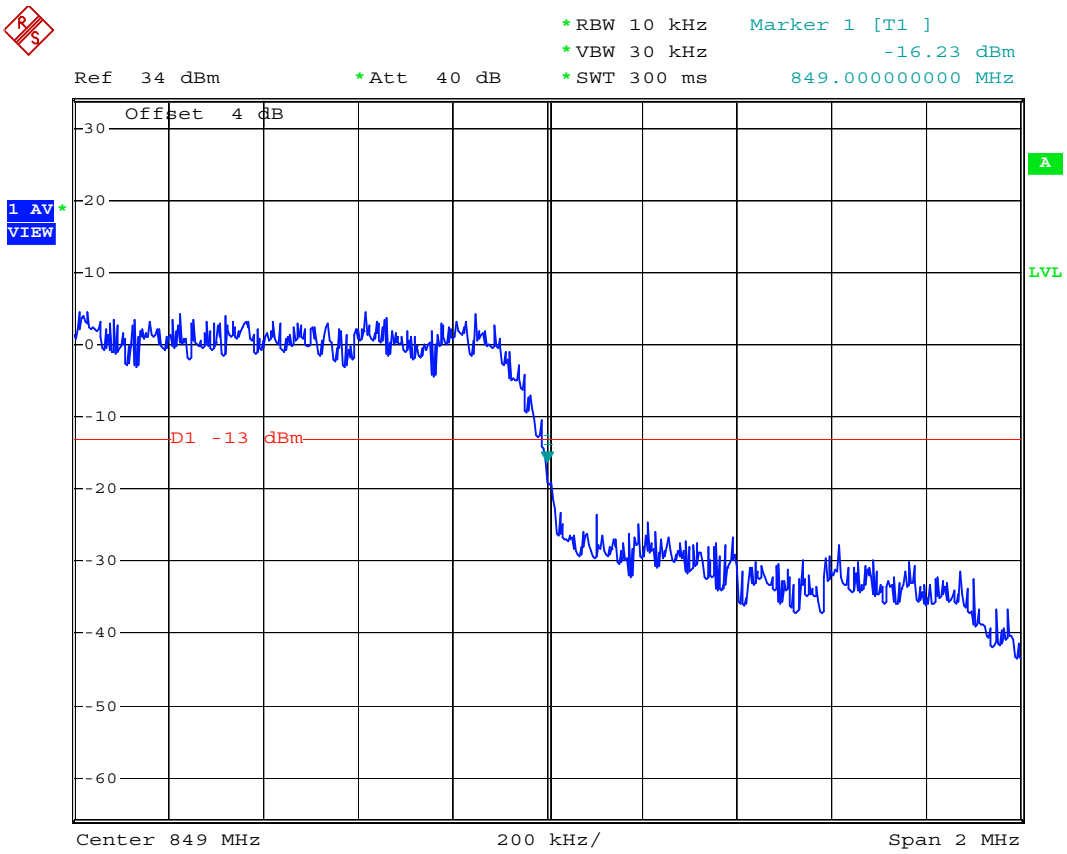
Date: 8.NOV.2007 16:12:30

- Test Mode : CDMA2000 Cellular 850 CH1013_38.4Kbps Lower Band Edge for 1xEV-DO
- Power State : High



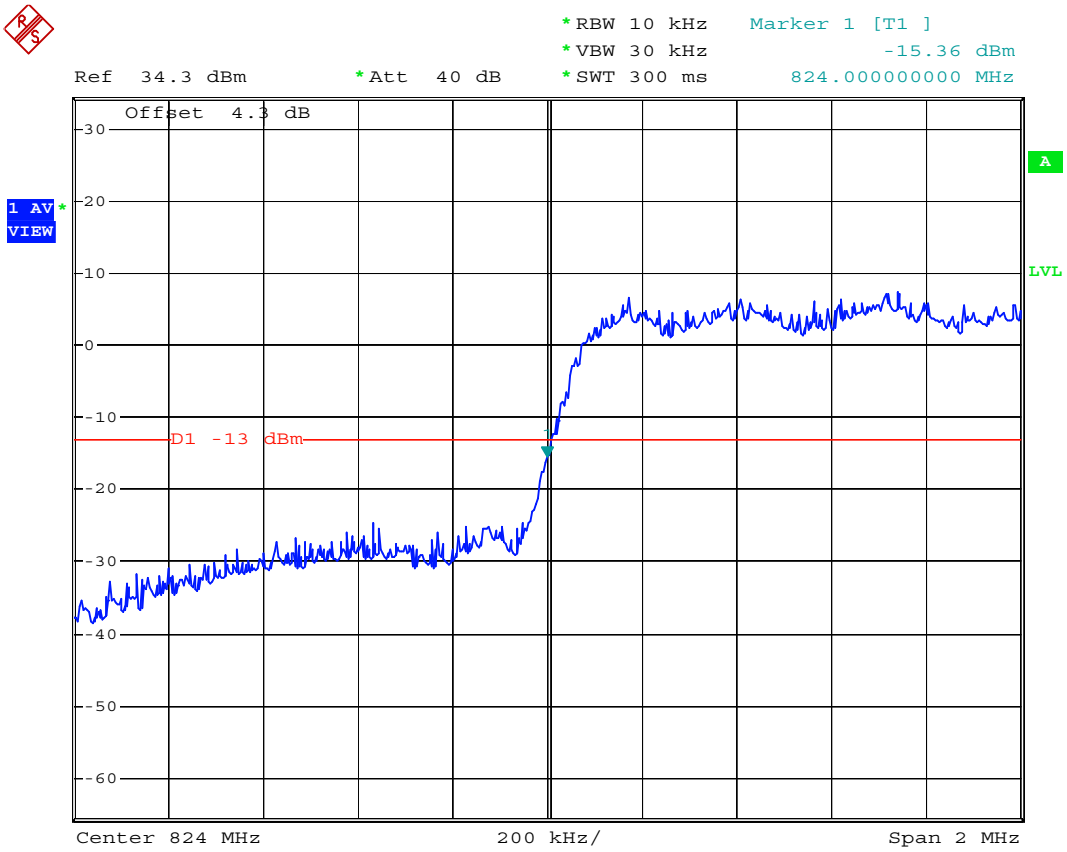
Date: 8.NOV.2007 16:20:09

- Test Mode : CDMA2000 Cellular 850 CH777_38.4Kbps Higher Band Edge for 1xEV-DO
- Power State : High



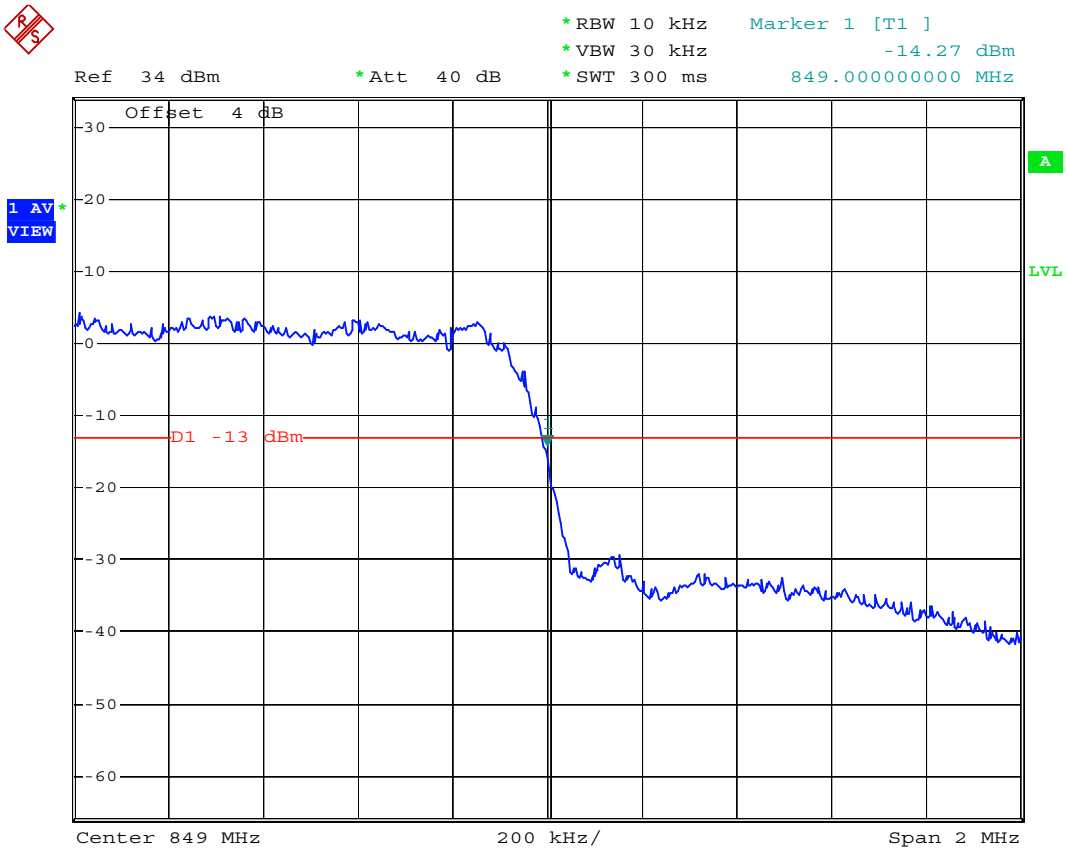
Date: 16.NOV.2007 14:35:30

- Test Mode : CDMA2000 Cellular 850 CH1013_153.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High



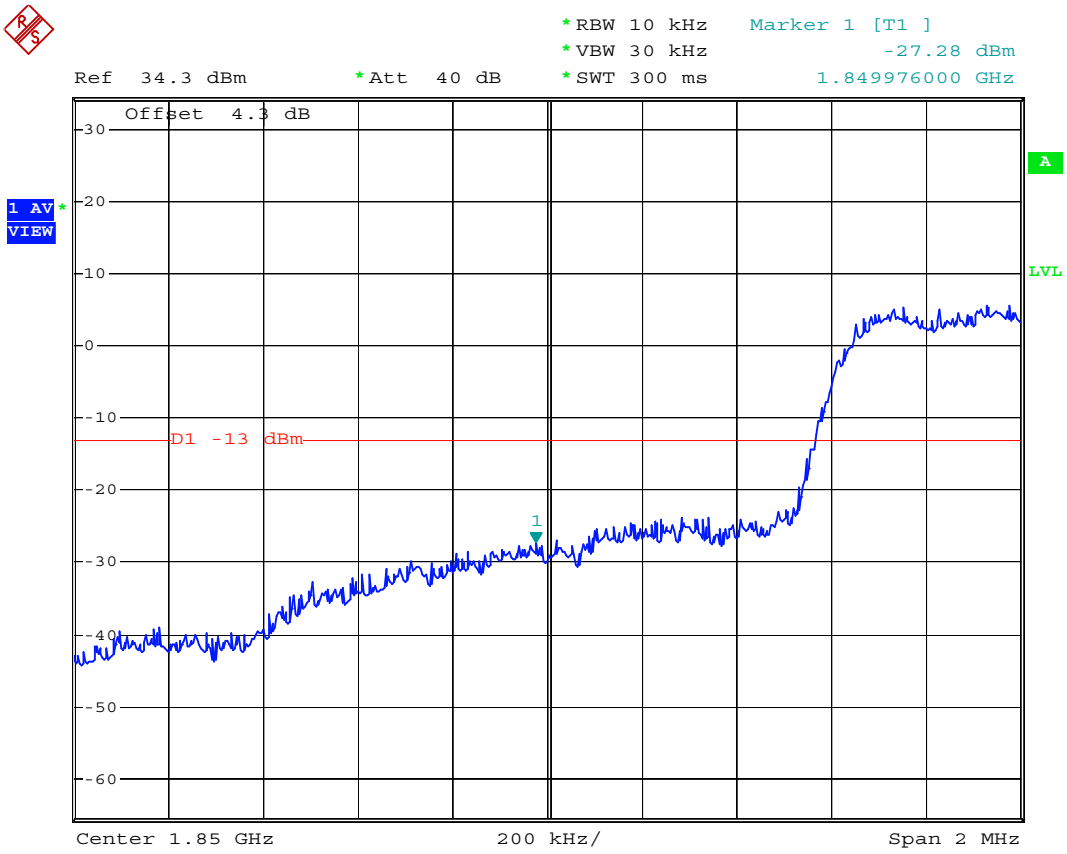
Date: 8.NOV.2007 16:20:42

- Test Mode : CDMA2000 Cellular 850 CH777_153.6Kbps Higher Band Edge for 1xEV-DO
- Power State : High



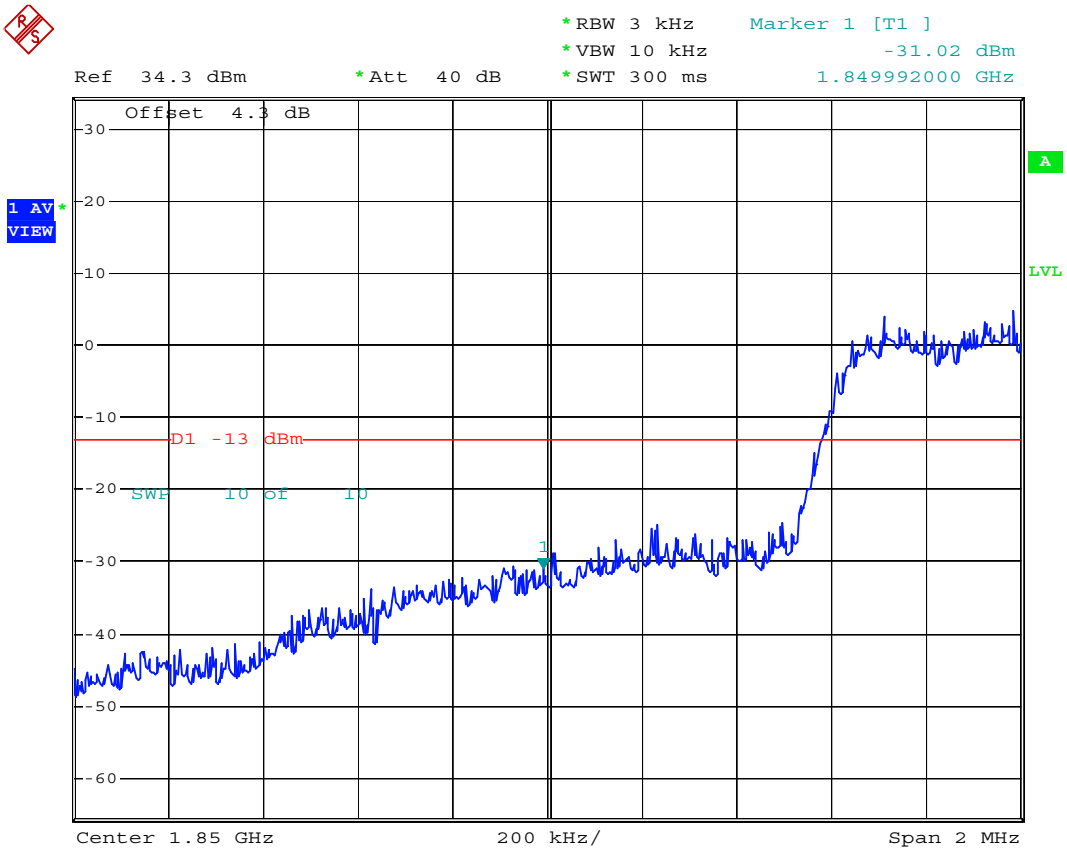
Date: 9.NOV.2007 10:15:08

- Mode 3
- Test Mode : CDMA2000 PCS 1900 Band CH25_FCH_RC1 Lower Band Edge for 1xRTT
- Power State : High, RBW 10K, VBW 30K



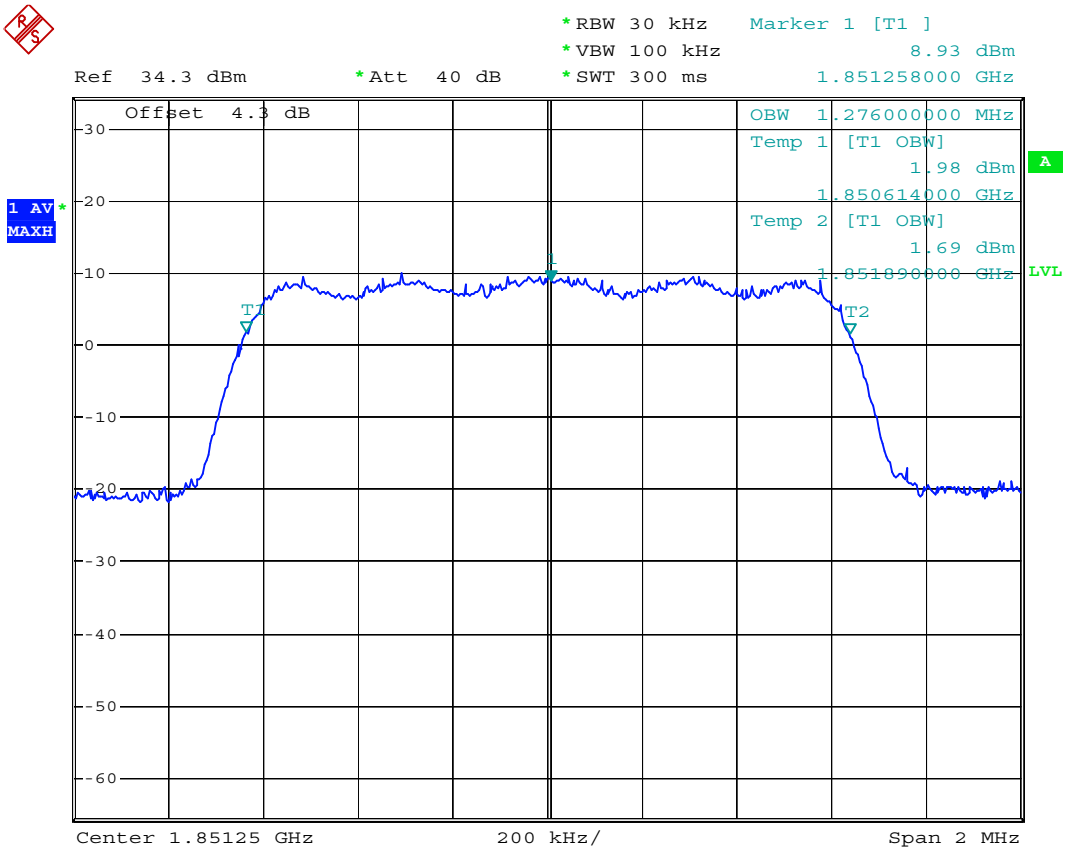
Date: 8.NOV.2007 14:39:42

- Test Mode : CDMA2000 PCS 1900 Band CH25_FCH_RC1 Lower Band Edge for 1xRTT
- Power State : High, RBW 3K, VBW 10K



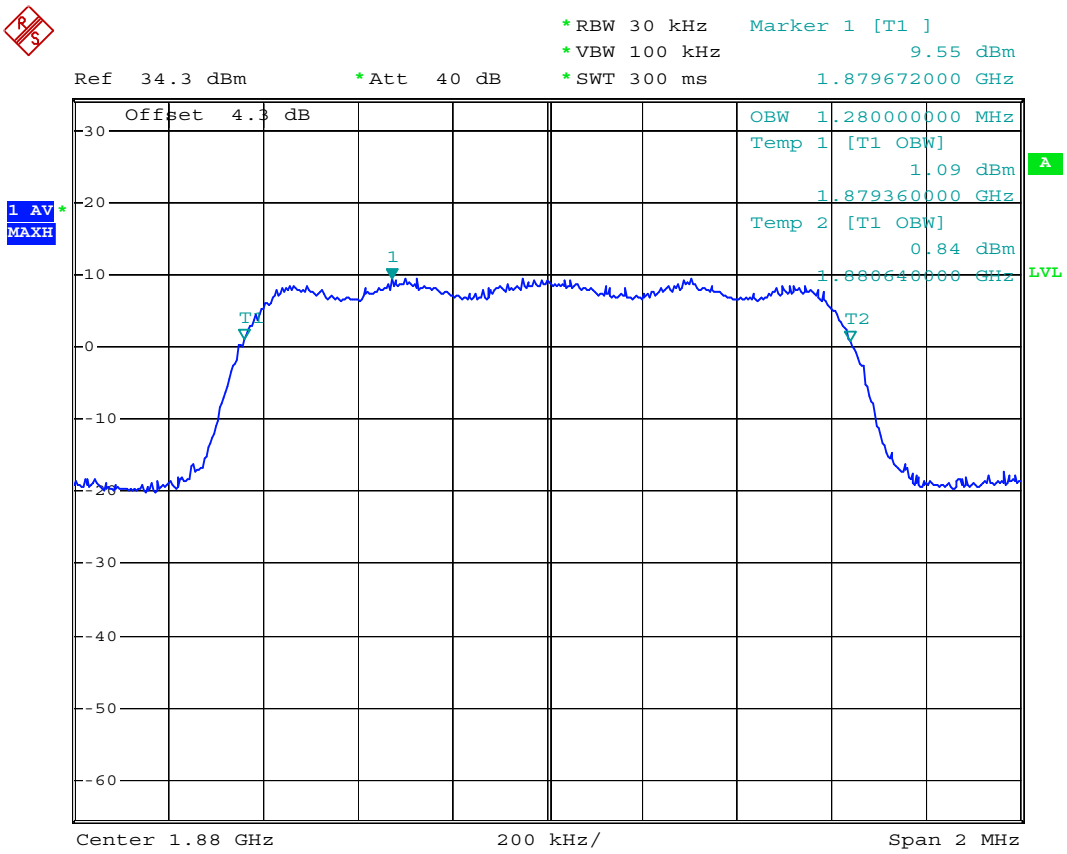
Date: 8.NOV.2007 14:40:53

- Test Mode : CDMA2000 PCS 1900 Band CH25 99% Occupid Bandwidth for 1xRTT
- Power State : High



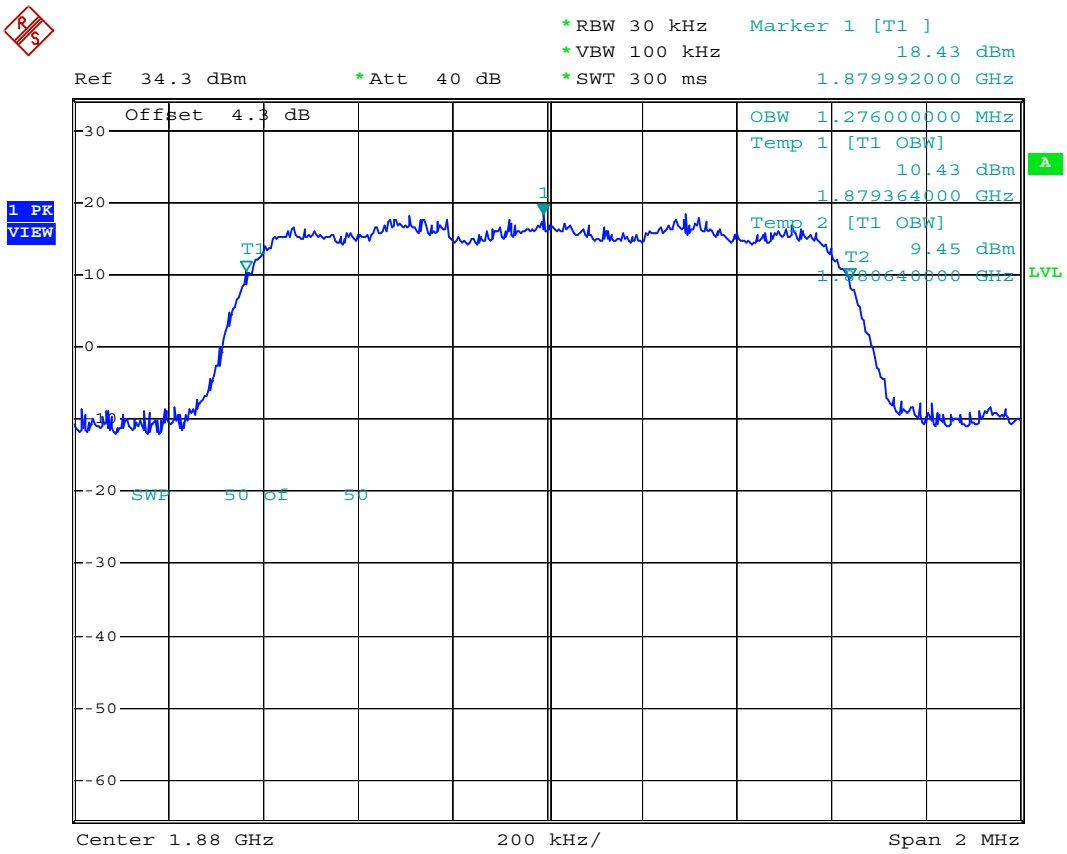
Date: 8.NOV.2007 14:46:39

- Test Mode : CDMA2000 PCS 1900 Band CH600 99% Occupid Bandwidth for 1xRTT
- Power State : High



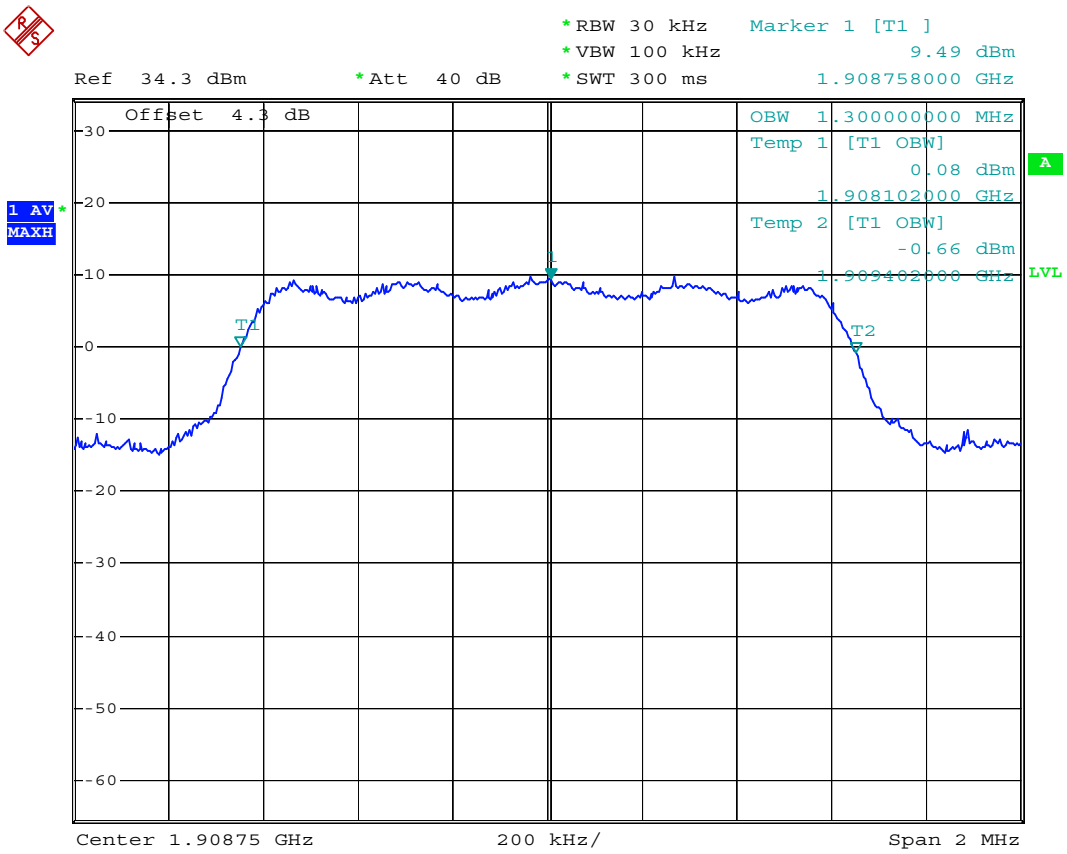
Date: 8.NOV.2007 14:47:47

- Test Mode : CDMA2000 PCS 1900 Band CH600 99% Occupid Bandwidth for 1xRTT
- Power State : High



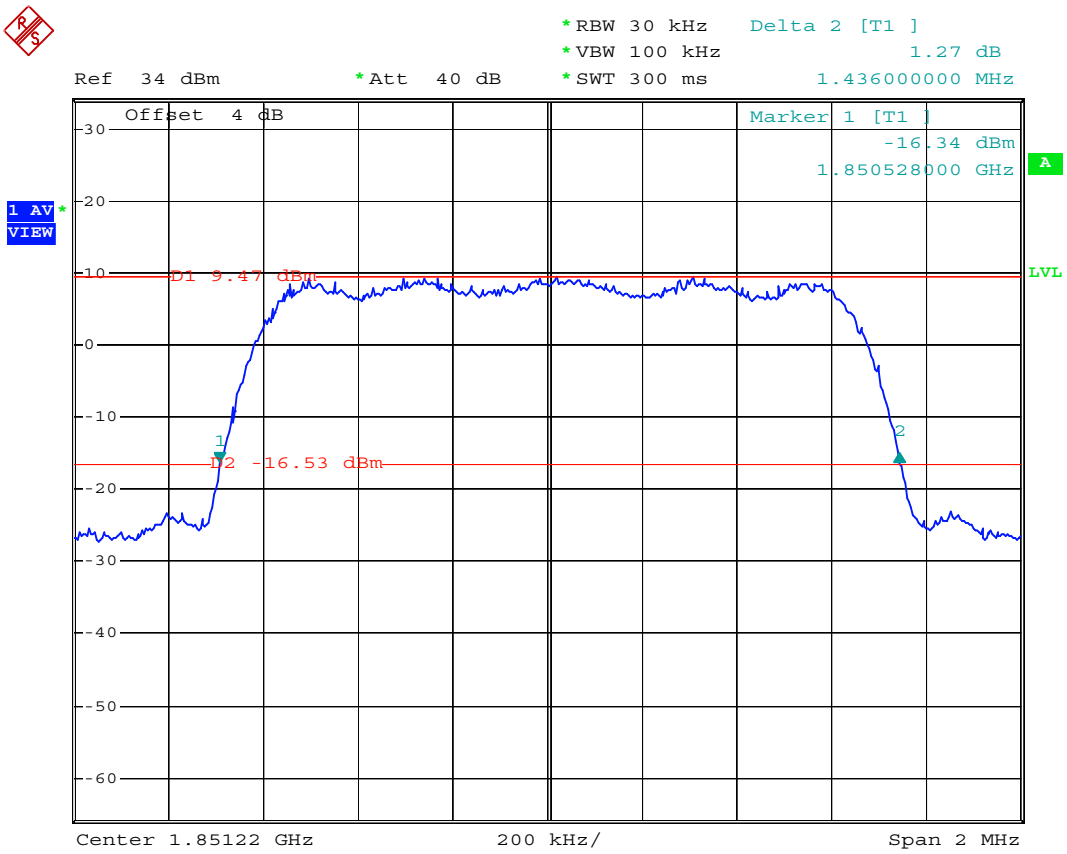
Date: 8.NOV.2007 14:49:27

- Test Mode : CDMA2000 PCS 1900 Band CH1175 99% Occupid Bandwidth for 1xRTT
- Power State : High



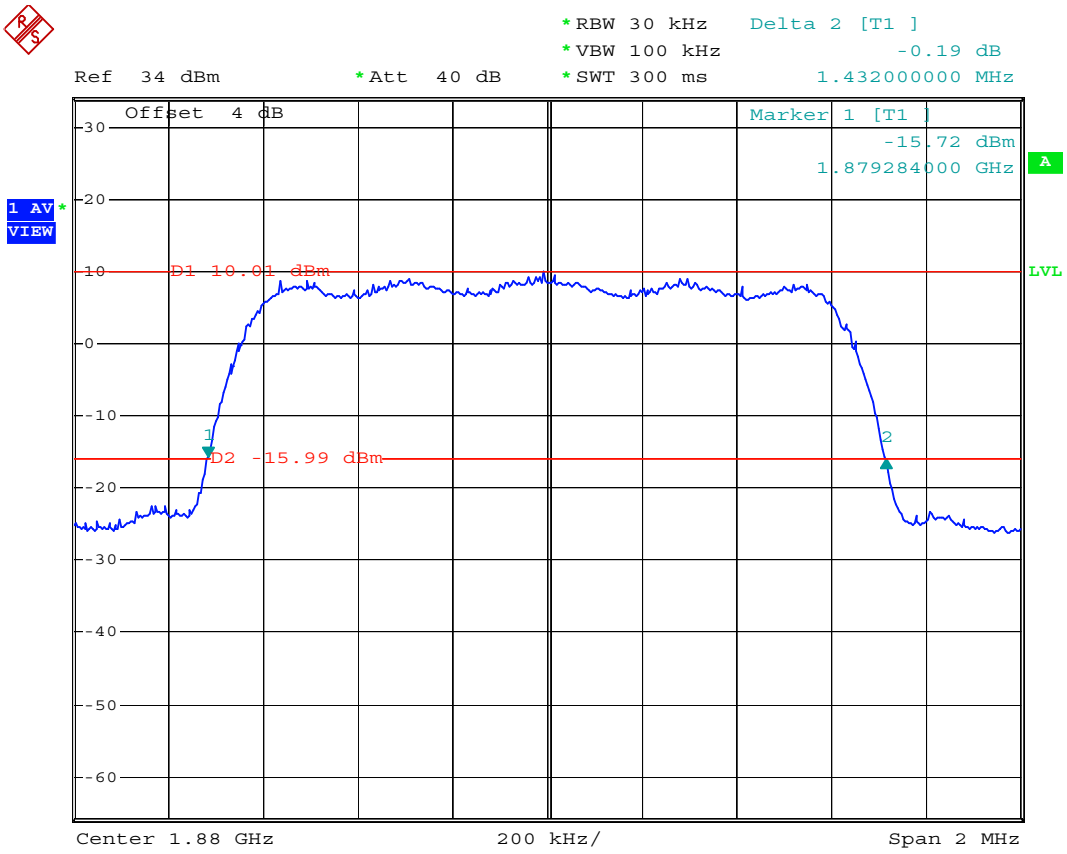
Date: 8.NOV.2007 14:48:17

- Test Mode : CDMA2000 PCS 1900 Band CH25 26 dB Bandwidth for 1xRTT
- Power State : High



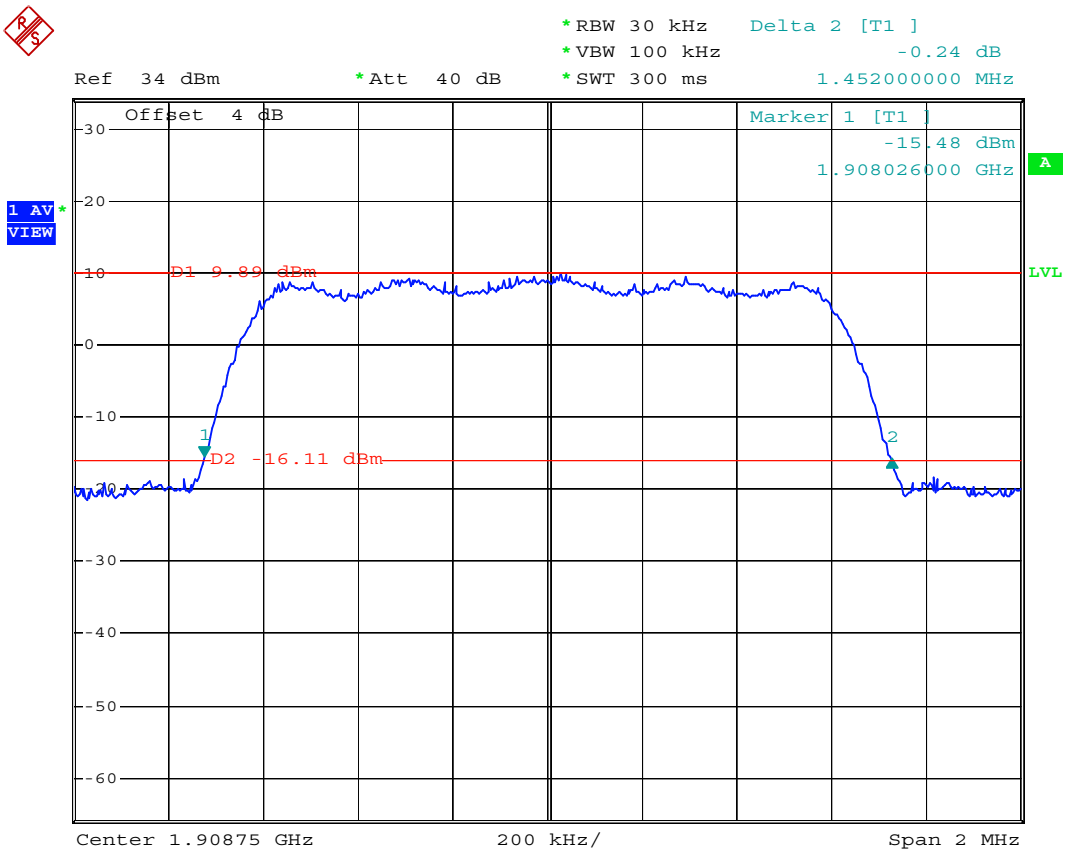
Date: 9.NOV.2007 10:00:51

- Test Mode : CDMA2000 PCS 1900 Band CH600 26 dB Bandwidth for 1xRTT
- Power State : High



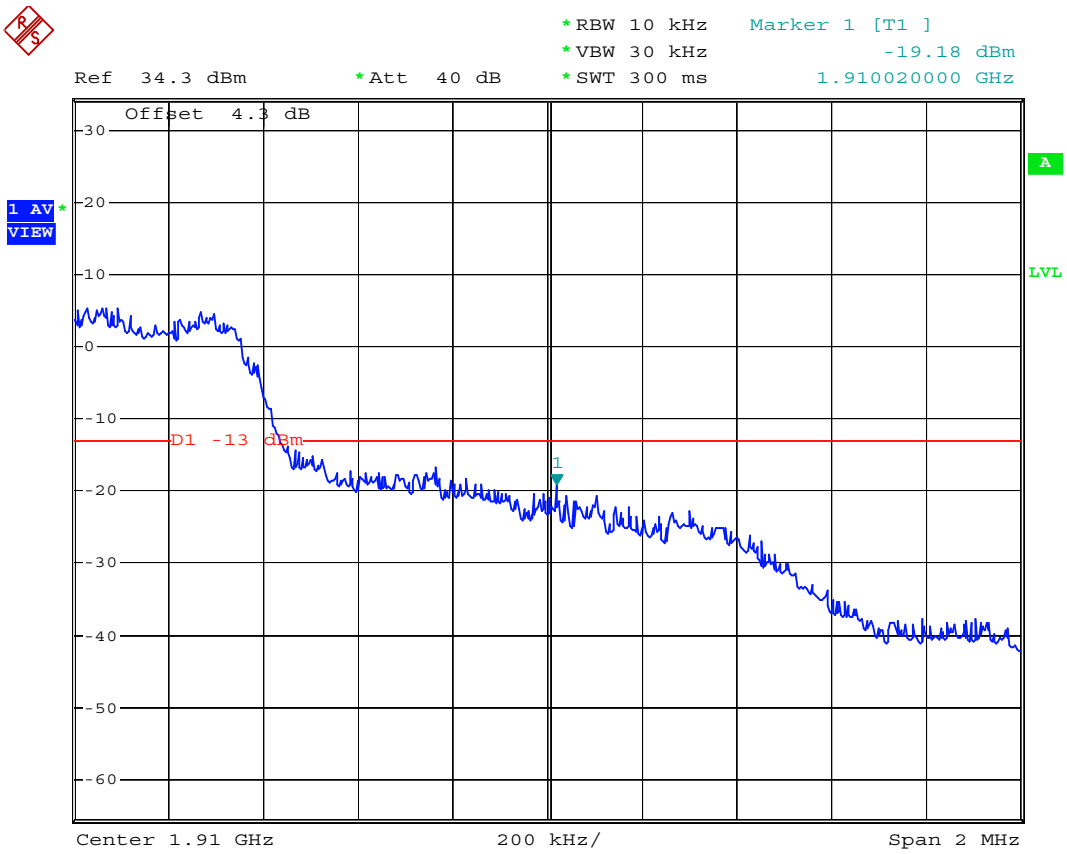
Date: 9.NOV.2007 09:58:26

- Test Mode : CDMA2000 PCS 1900 Band CH1175 26 dB Bandwidth for 1xRTT
- Power State : High

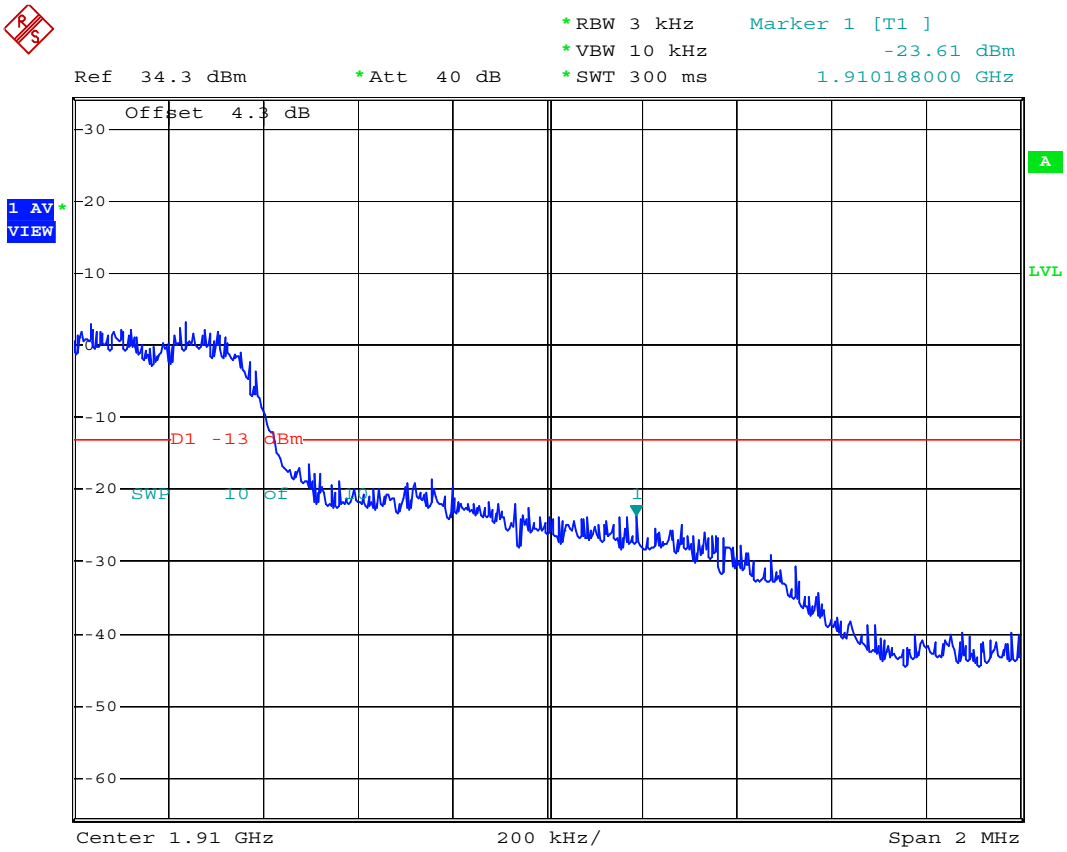


Date: 9.NOV.2007 09:54:54

- Test Mode : CDMA2000 PCS 1900 CH1175_FCH_RC1 Higher Band Edge for 1xRTT
- Power State : High, RBW 10K, VBW 30K

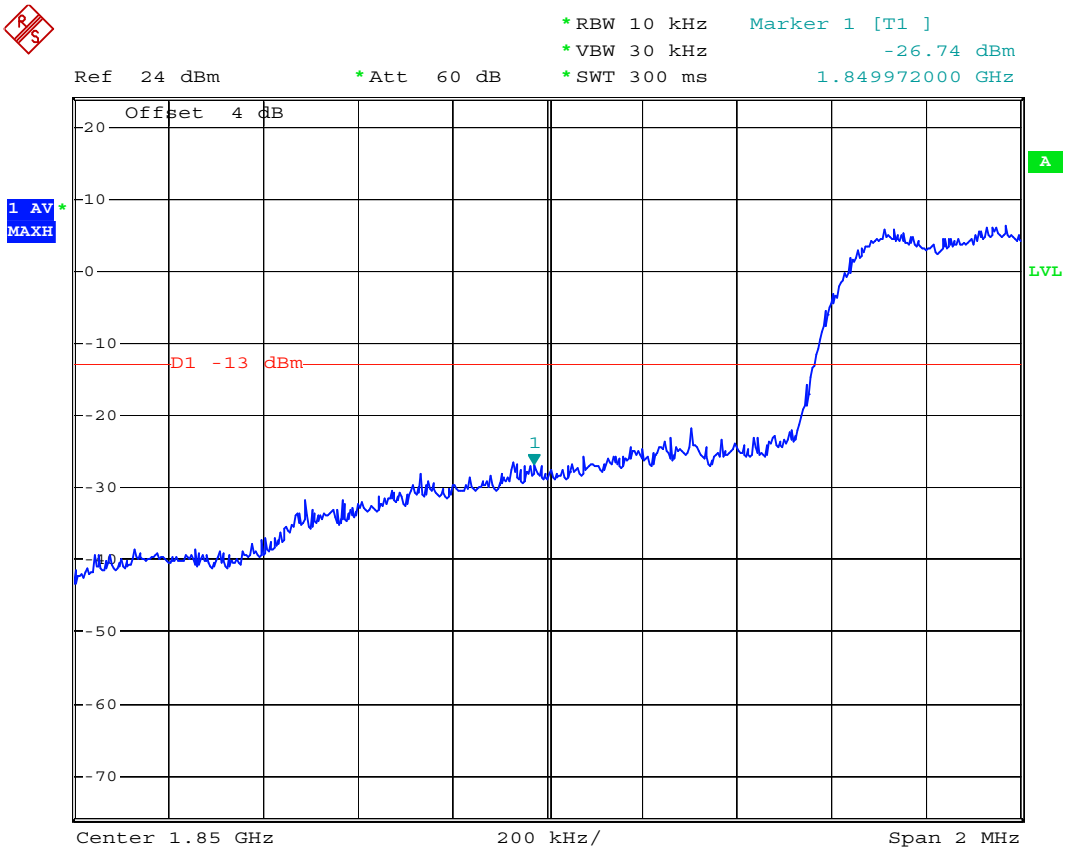


- Test Mode : CDMA2000 PCS 1900 CH1175_FCH_RC1 Higher Band Edge for 1xRTT
- Power State : High, RBW 3K, VBW 10K



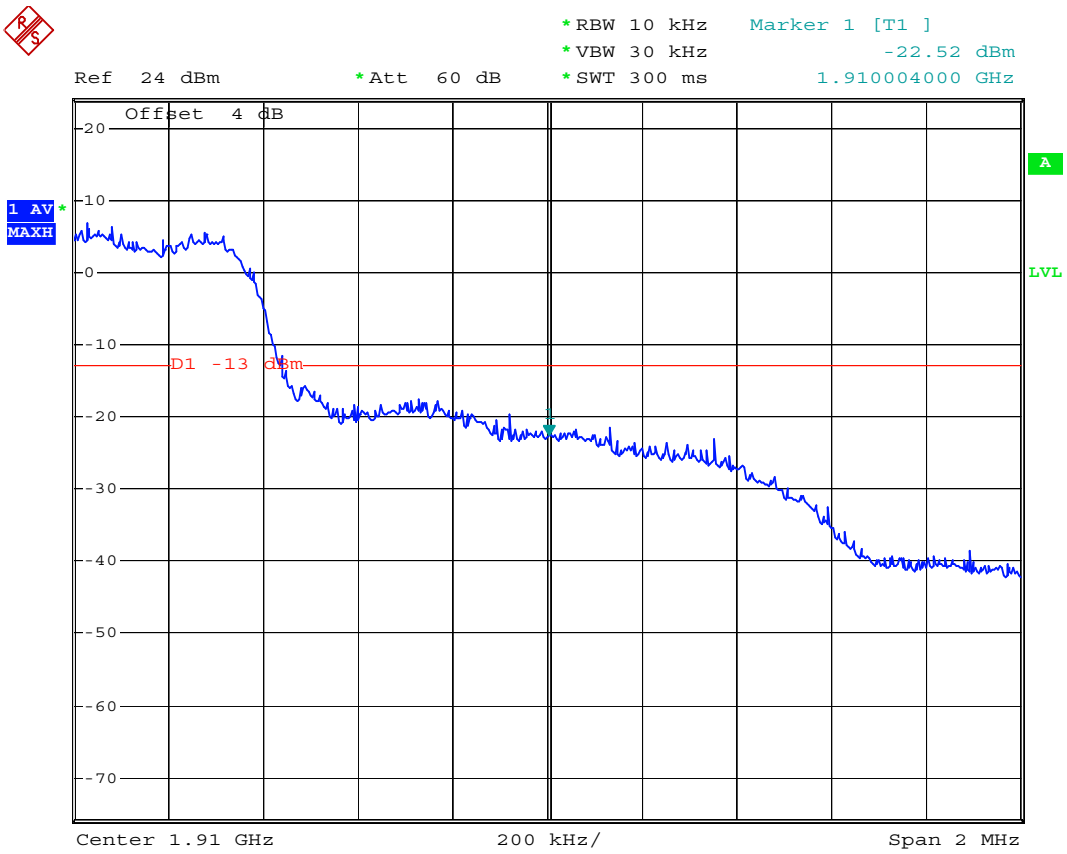
Date: 8.NOV.2007 15:55:59

- Test Mode : CDMA2000 PCS 1900 Band CH25_FCH_RC3 Lower Band Edge for 1xRTT
- Power State : High



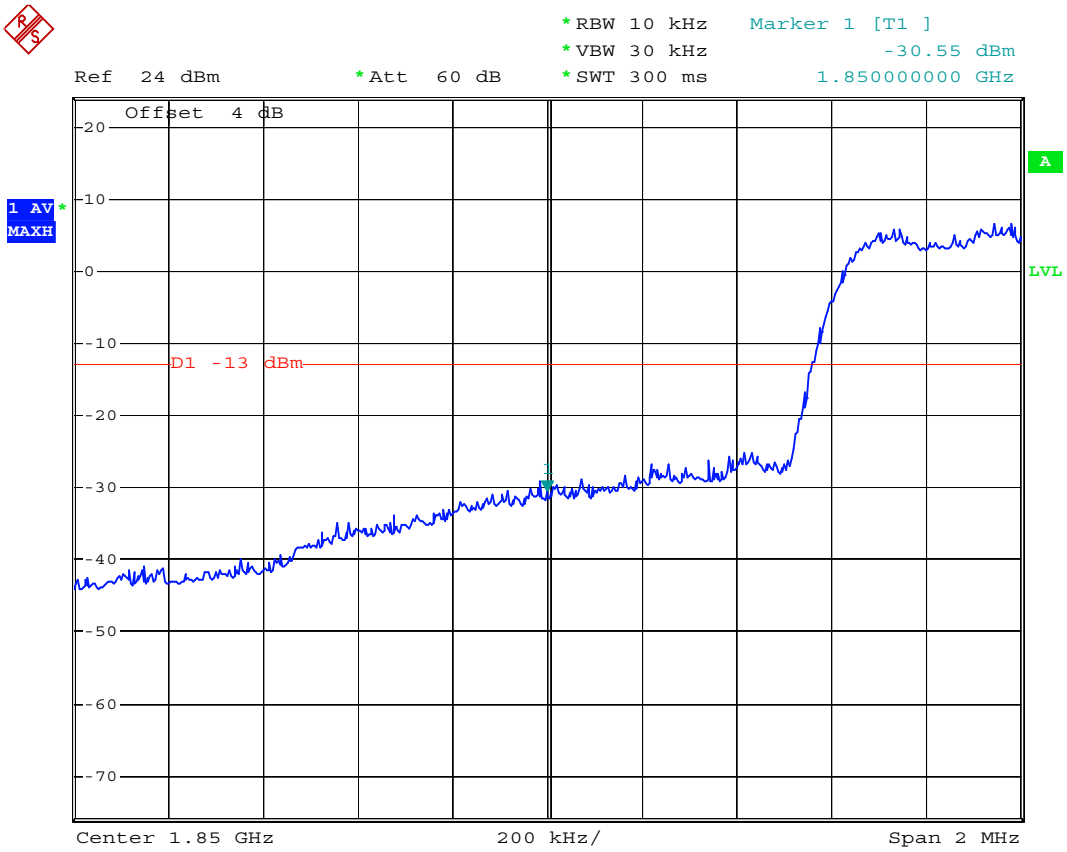
Date: 5.NOV.2007 08:44:52

- Test Mode : CDMA2000 Cellular 850 CH1175_FCH_RC3 Higher Band Edge for 1xRTT
- Power State : High



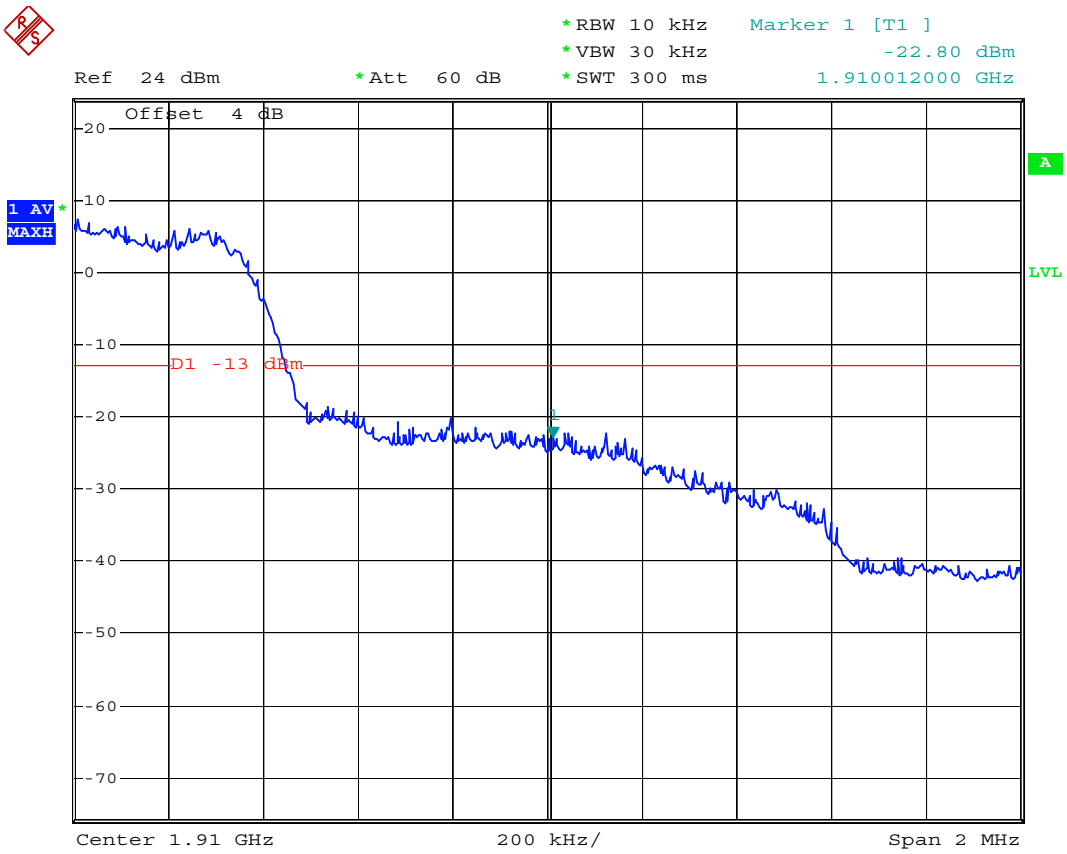
Date: 5.NOV.2007 08:45:53

- Test Mode : CDMA2000 PCS 1900 Band CH25_FCH+SCH_RC3 Lower Band Edge for 1xRTT
- Power State : High

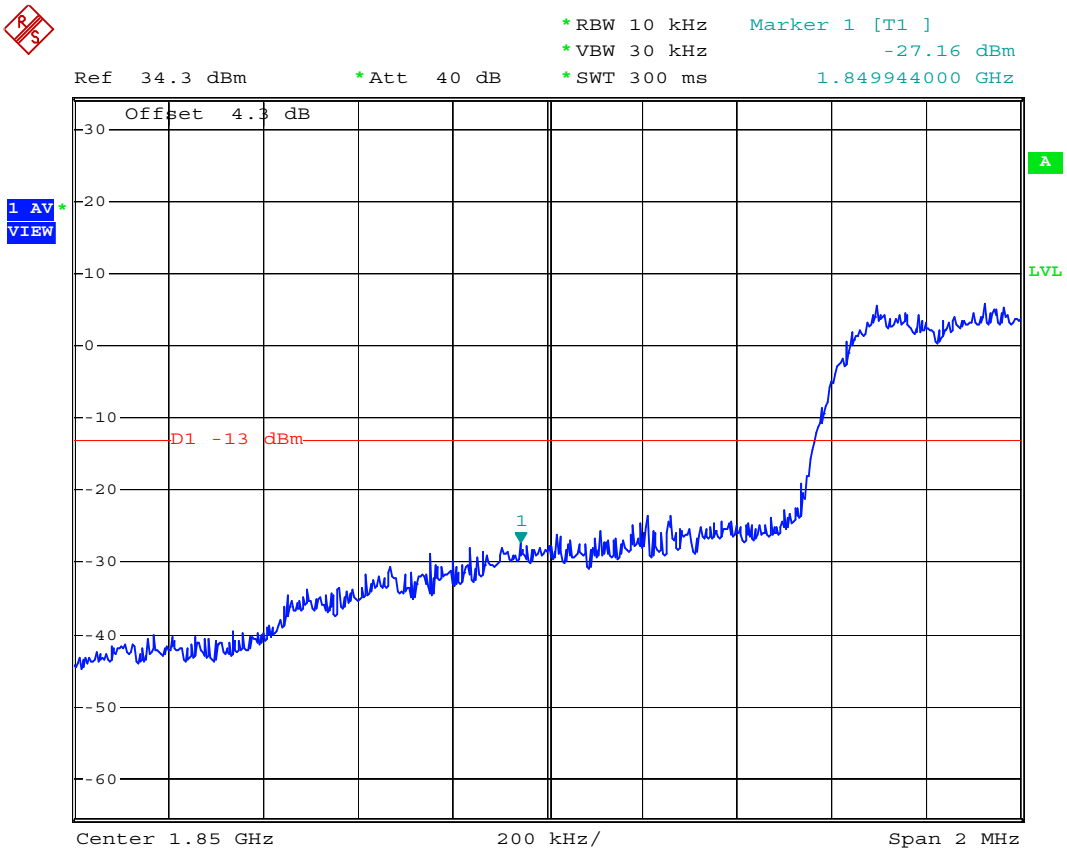


Date: 5.NOV.2007 08:41:33

- Test Mode : CDMA2000 PCS 1900 CH1175_FCH+SCH_RC3 Higher Band Edge for 1xRTT
- Power State : High

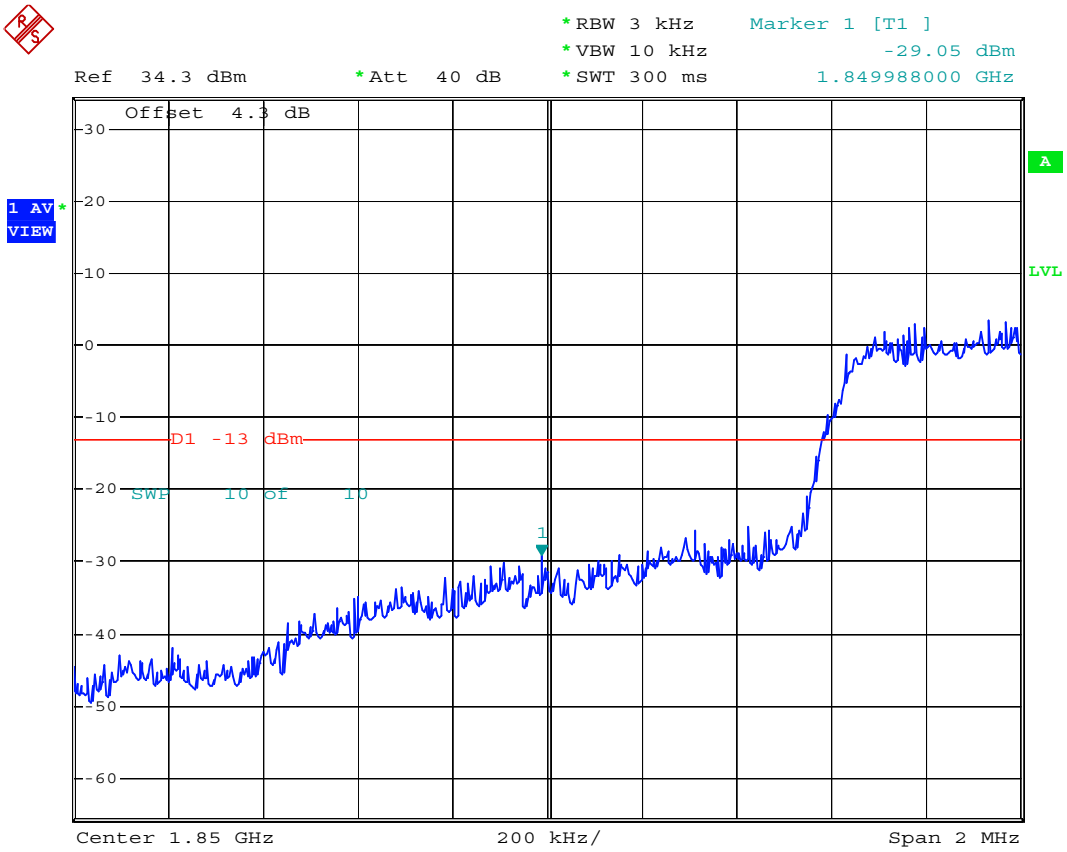


- Mode 4
- Test Mode : CDMA2000 PCS 1900 CH25_9.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High, RBW 10K, VBW 30K



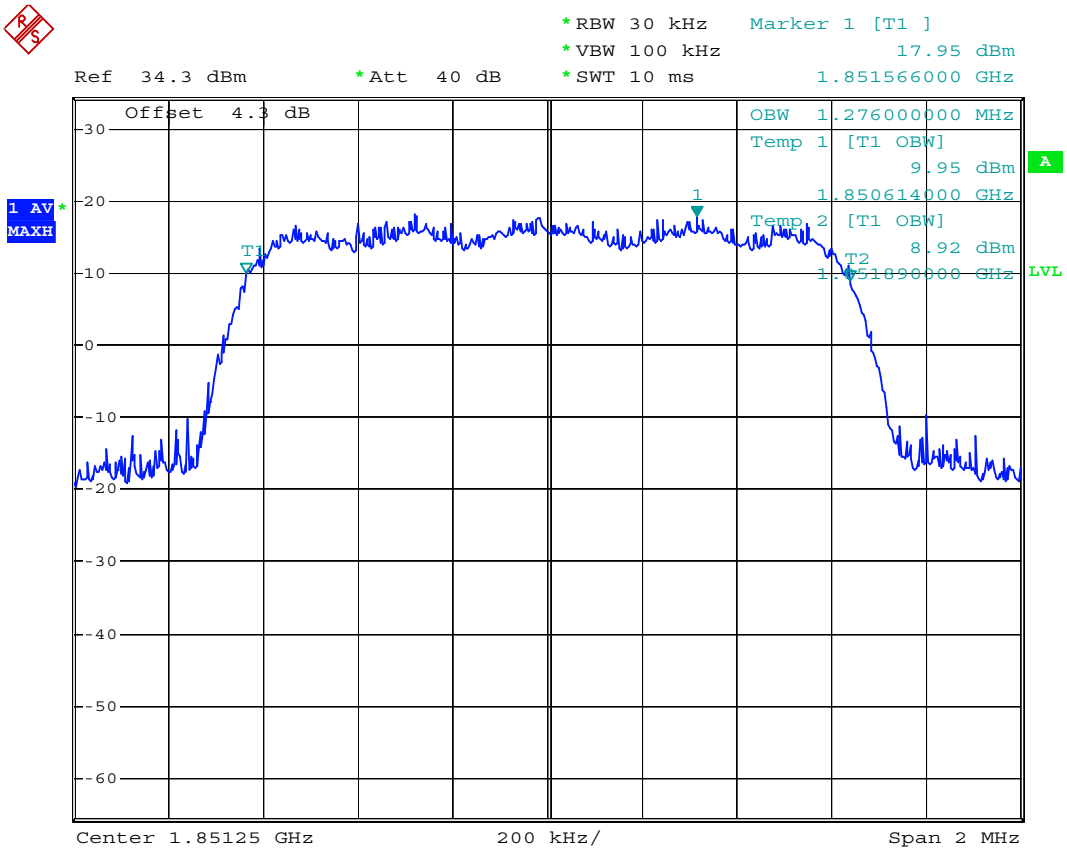
Date: 8.NOV.2007 15:51:48

- Test Mode : CDMA2000 PCS 1900 CH25_9.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High, RBW 3K, VBW 10K



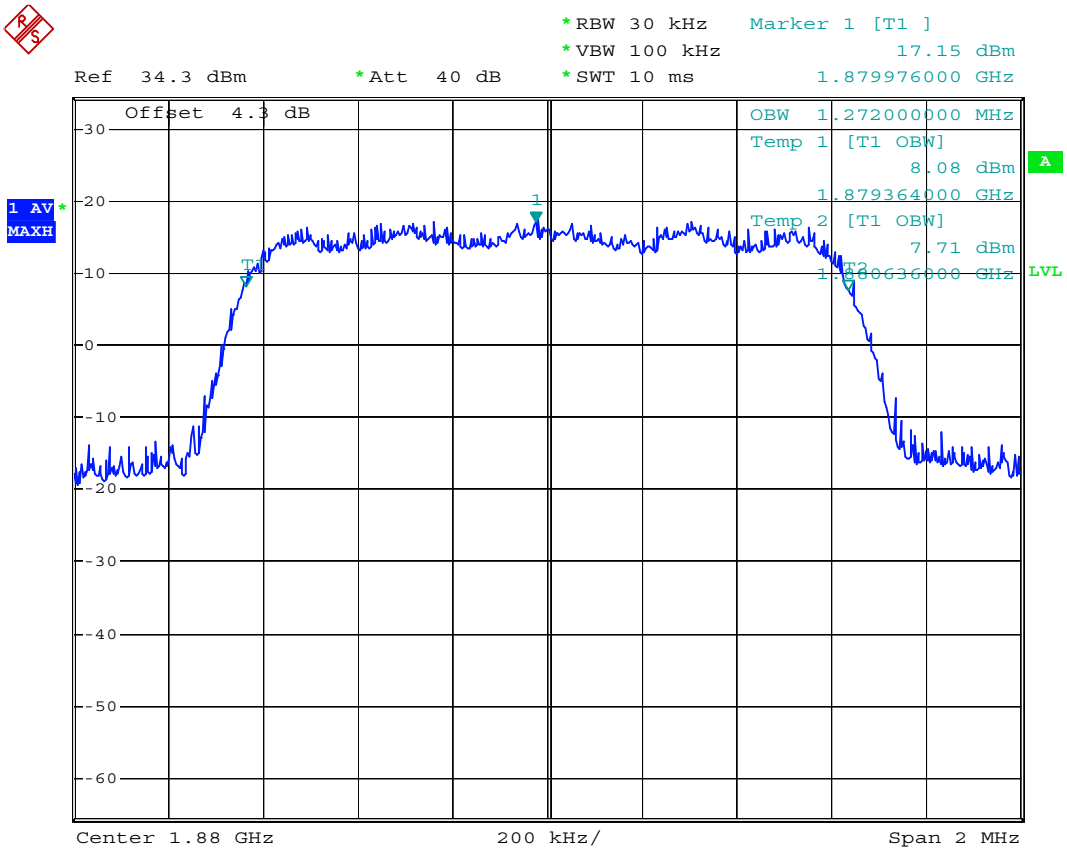
Date: 8.NOV.2007 15:54:35

- Test Mode : CDMA2000 PCS 1900 CH25 99% Occupid Bandwidth for 1xEV-DO
- Power State : High



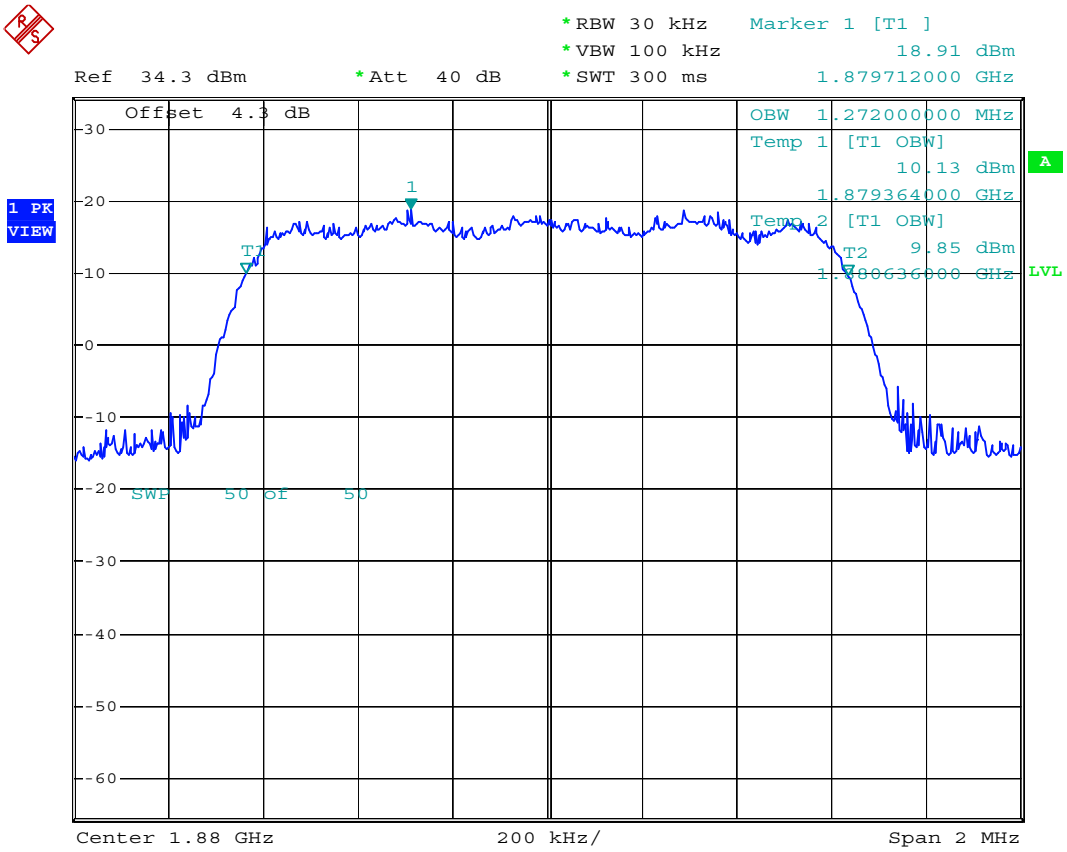
Date: 8.NOV.2007 16:39:01

- est Mode : CDMA2000 PCS 1900 CH600 99% Occupid Bandwidth for 1xEV-DO
- Power State : High



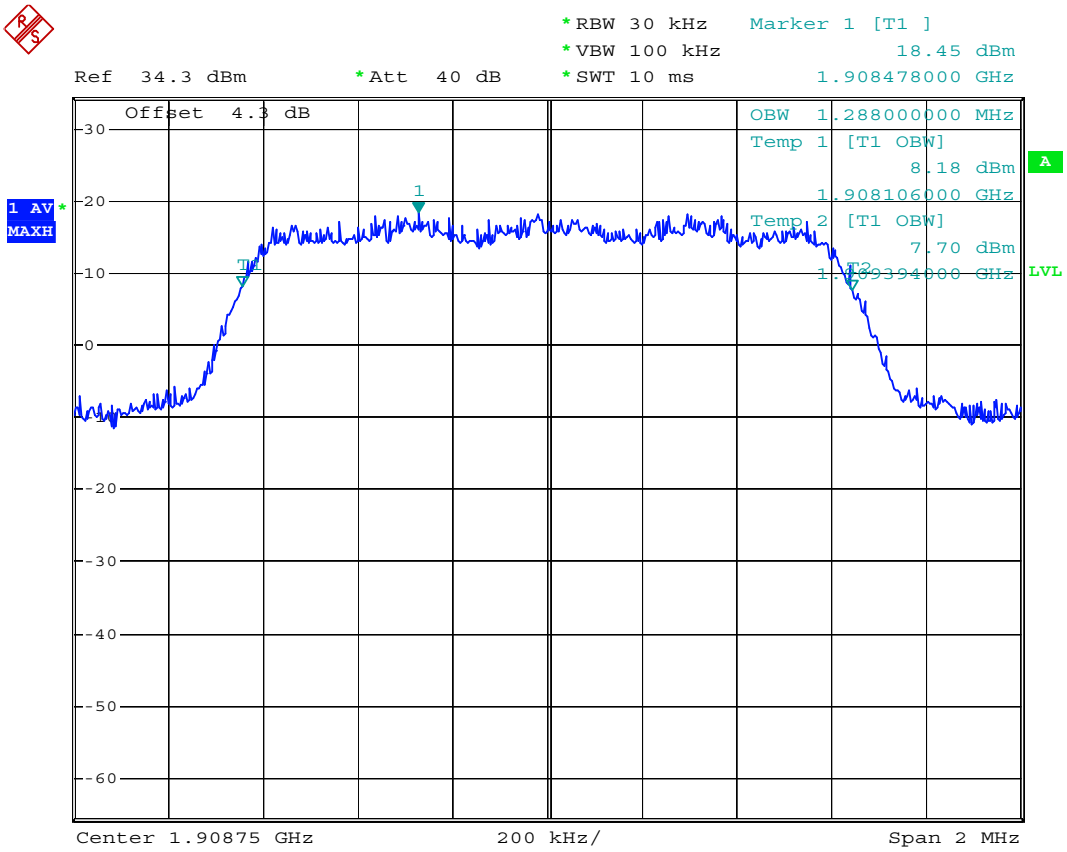
Date: 8.NOV.2007 16:39:38

- est Mode : CDMA2000 PCS 1900 CH600 99% Occupid Bandwidth for 1xEV-DO
- Power State : High



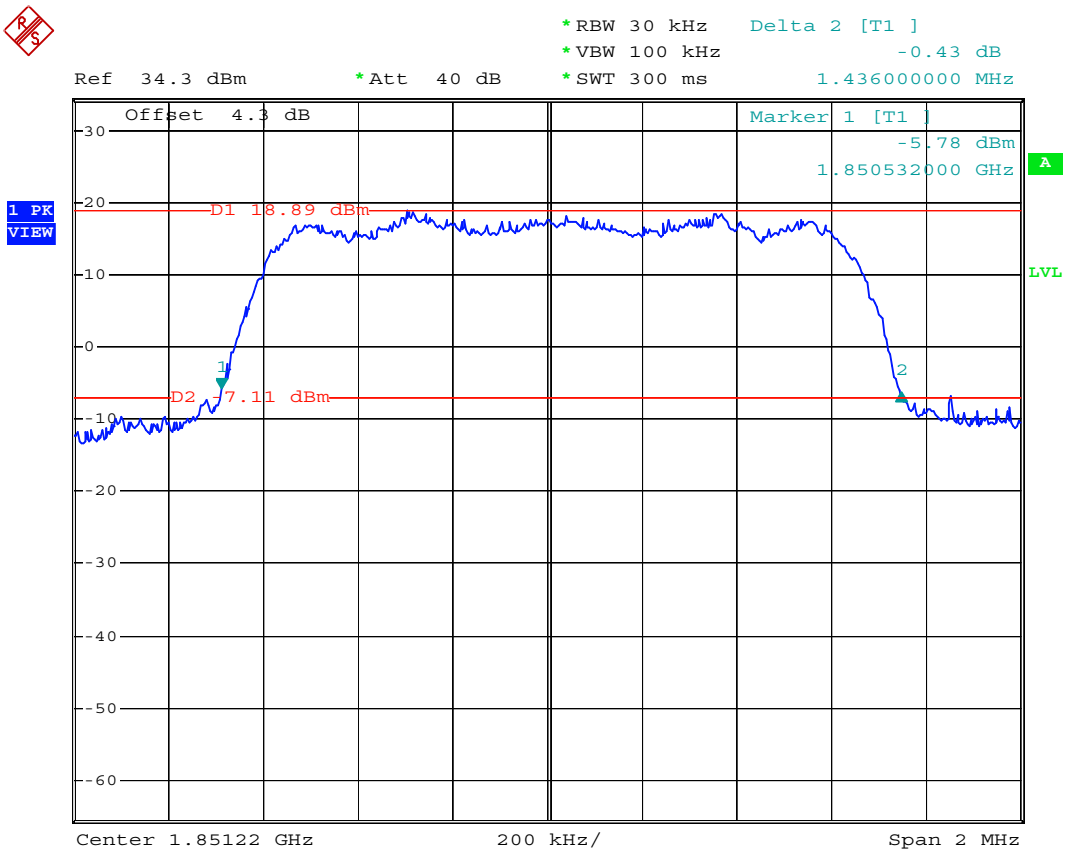
Date: 8.NOV.2007 16:42:05

- est Mode : CDMA2000 PCS 1900 CH1175 99% Occupid Bandwidth for 1xEV-DO
- Power State : High



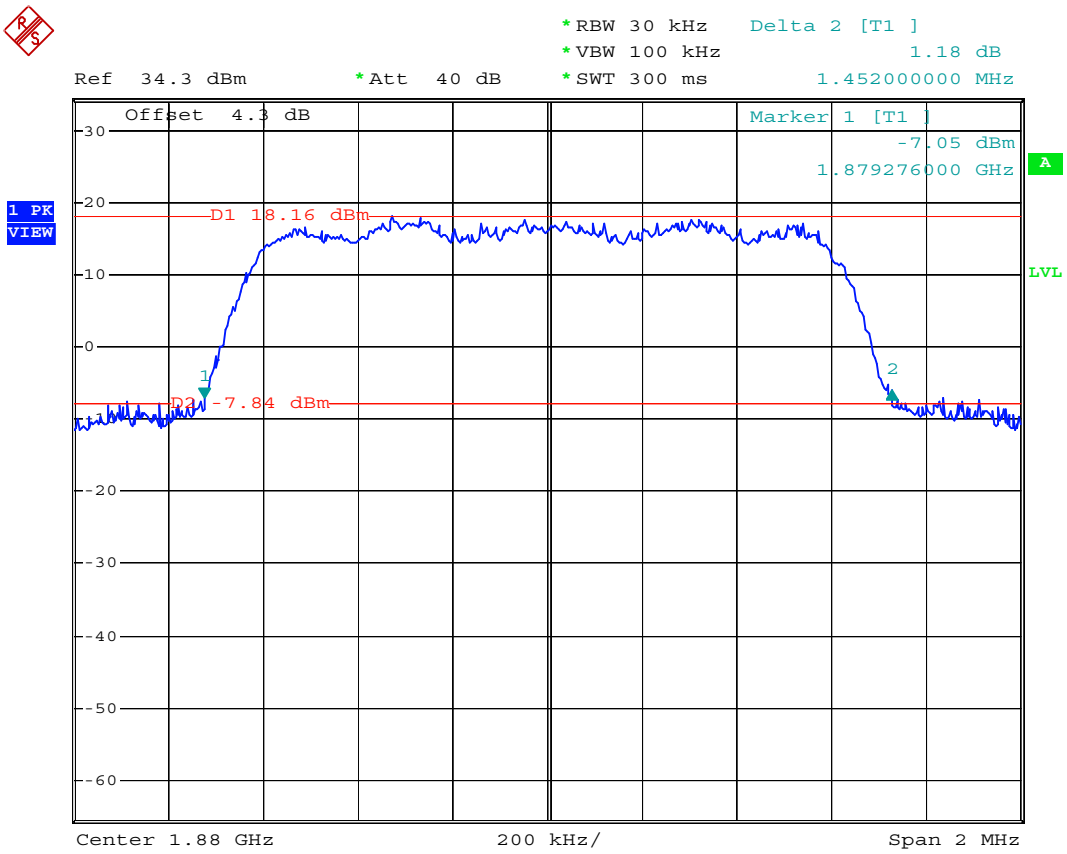
Date: 8.NOV.2007 16:40:26

- Test Mode : CDMA2000 PCS 1900 CH25 26 dB Bandwidth for 1xEV-DO
- Power State : High



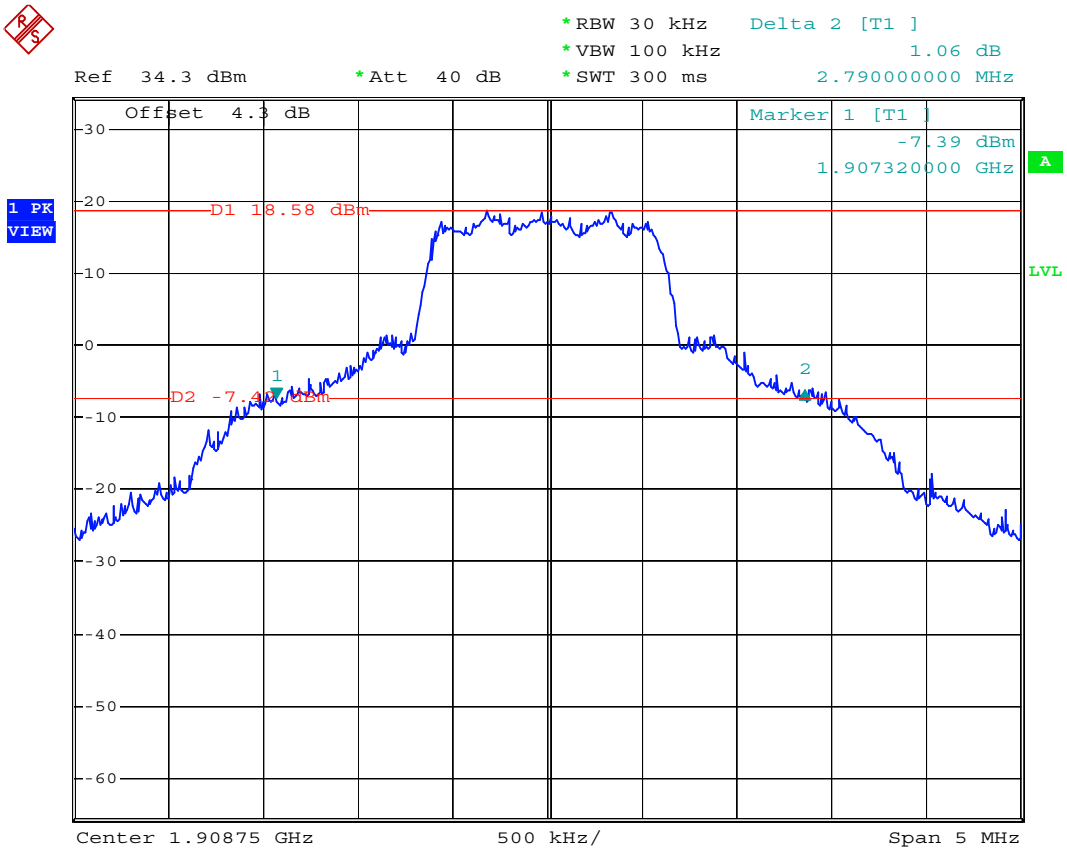
Date: 8.NOV.2007 10:38:53

- Test Mode : CDMA2000 PCS 1900 CH600 26 dB Bandwidth for 1xEV-DO
- Power State : High



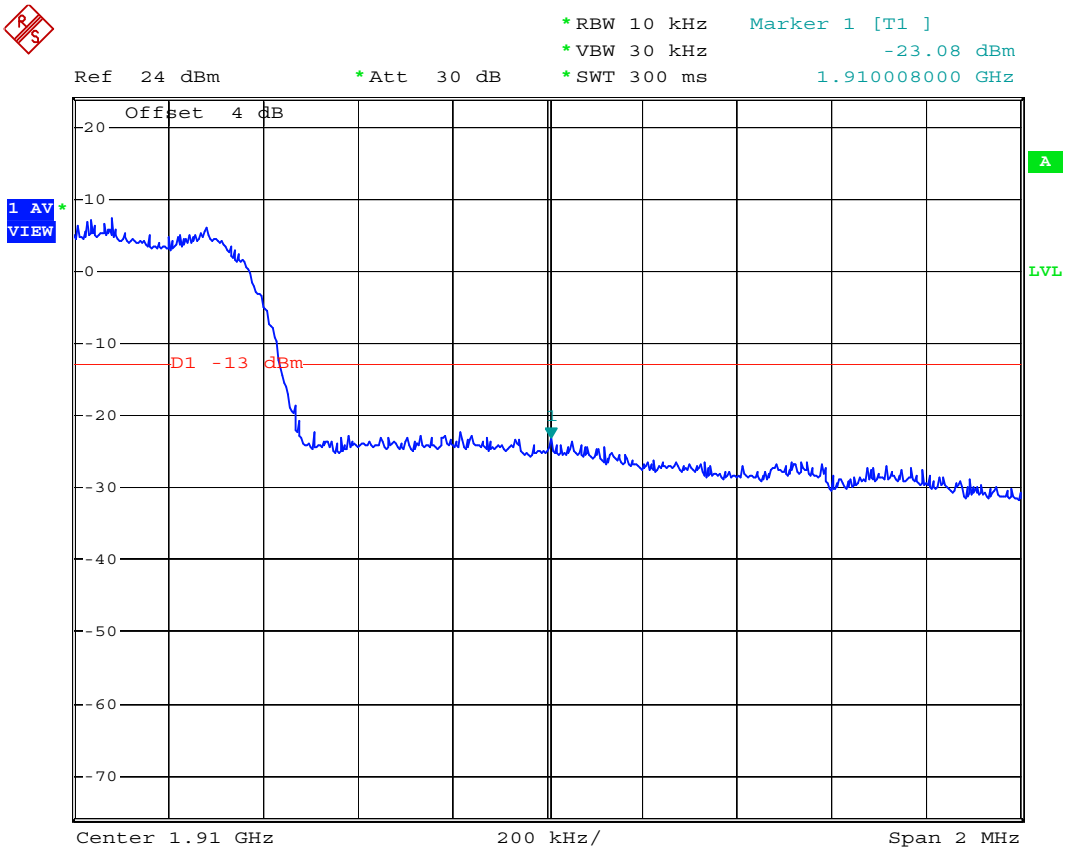
Date: 8.NOV.2007 10:41:40

- Test Mode : CDMA2000 PCS 1900 CH1175 26 dB Bandwidth for 1xEV-DO
- Power State : High



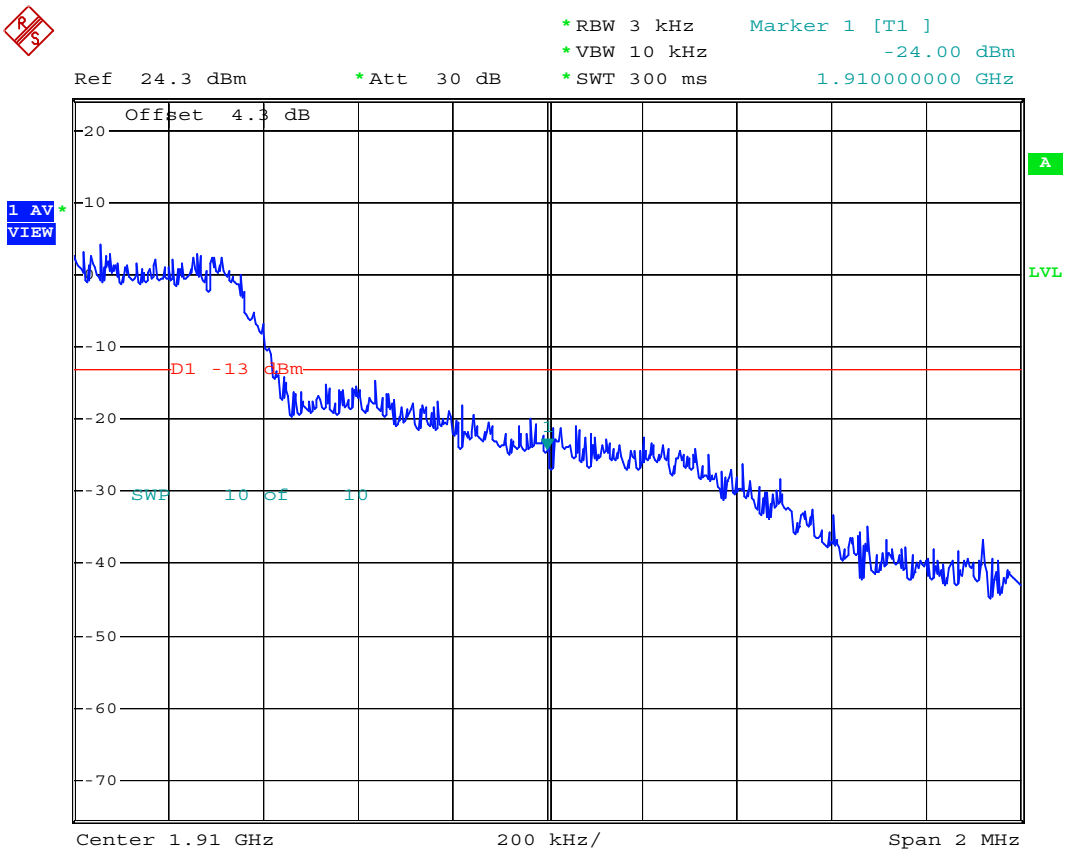
Date: 8.NOV.2007 10:48:35

- Test Mode : CDMA2000 PCS 1900 CH1175_9.6Kbps Higher Band Edge for 1xEV-DO
- Power State : High, RBW 10K, VBW 30K



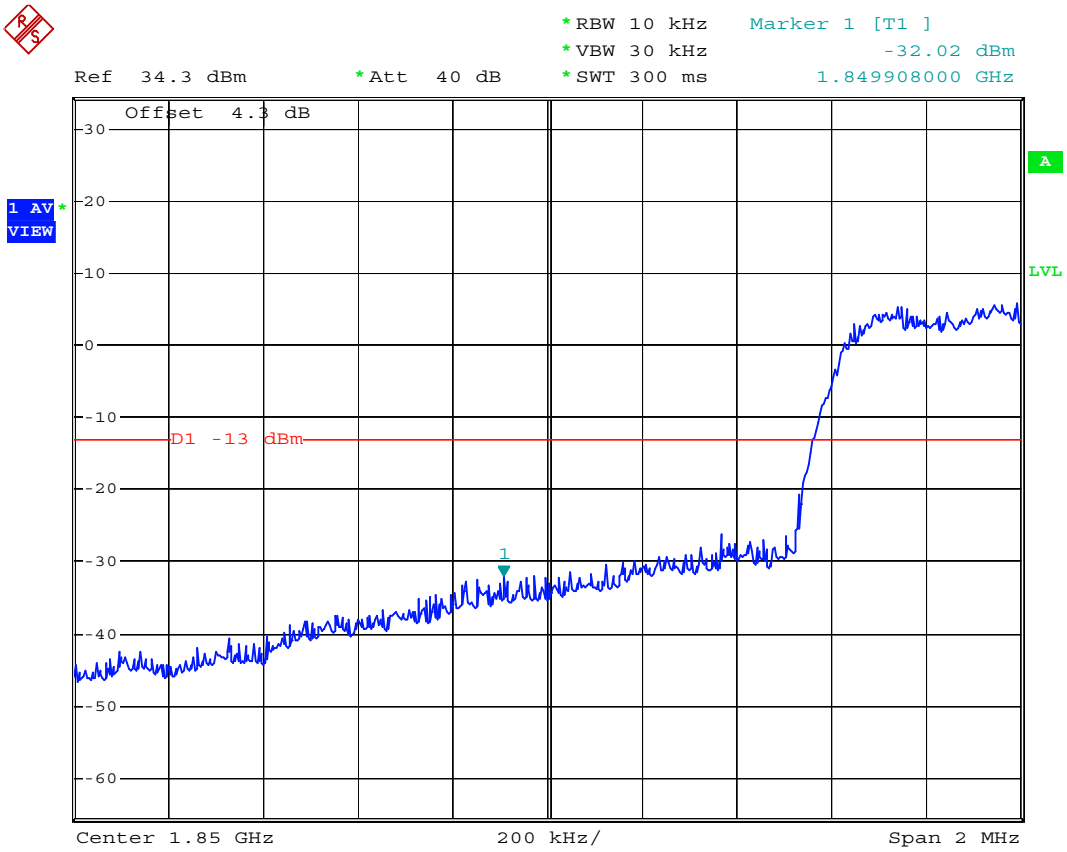
Date: 19.NOV.2007 09:57:49

- Test Mode : CDMA2000 PCS 1900 CH1175_9.6Kbps Higher Band Edge for 1xEV-DO
- Power State : High, RBW 3K, VBW 10K



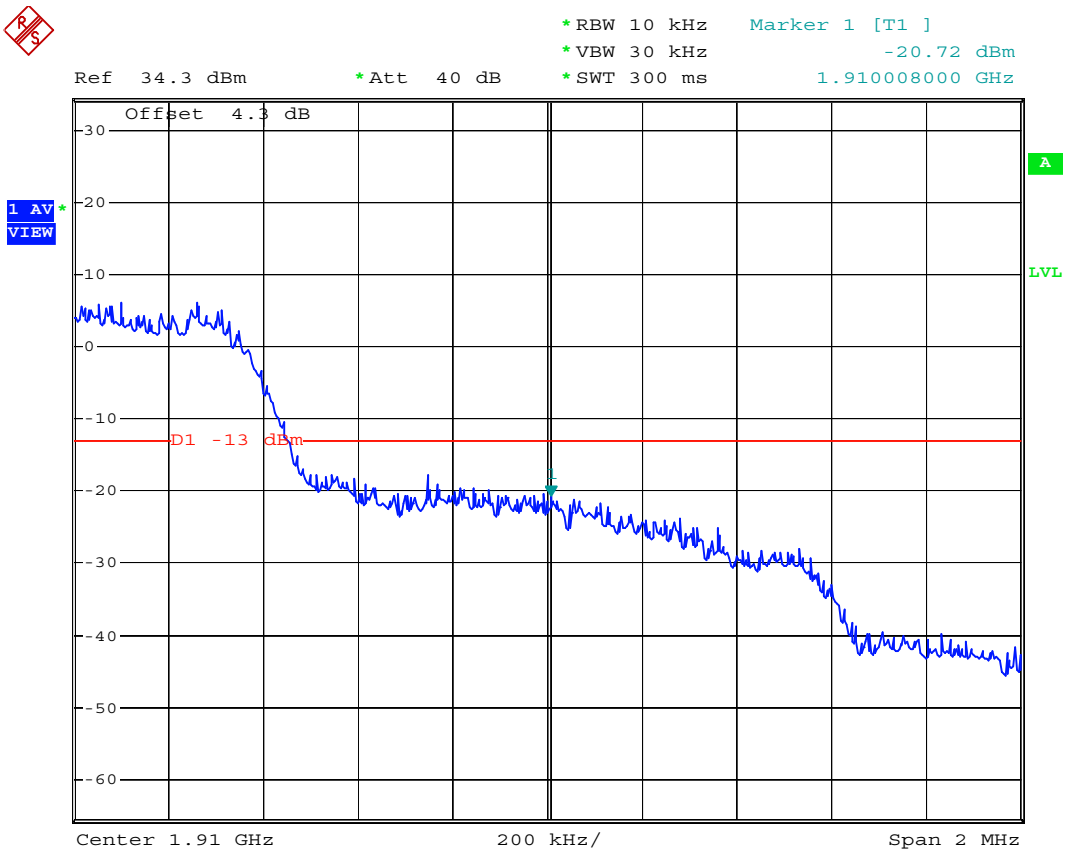
Date: 8.NOV.2007 10:58:46

- Test Mode : CDMA2000 PCS 1900 CH25_38.4Kbps Lower Band Edge for 1xEV-DO
- Power State : High



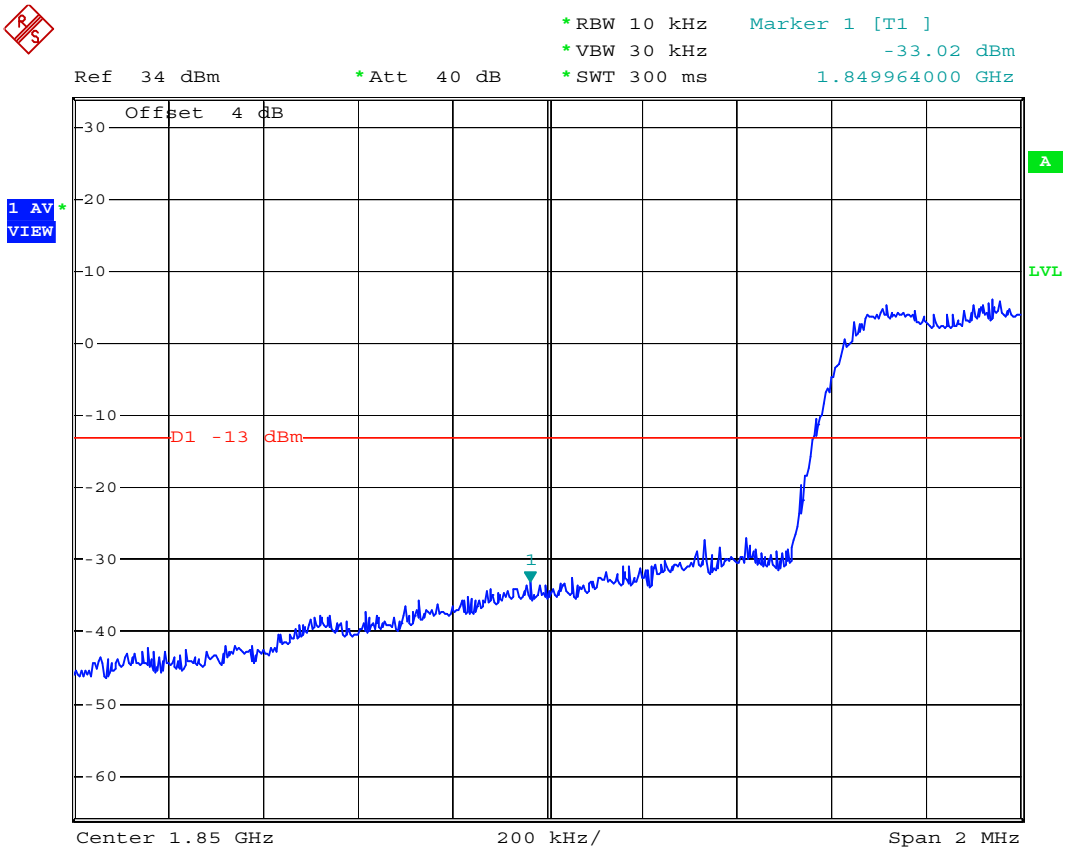
Date: 8.NOV.2007 16:27:26

- Test Mode : CDMA2000 PCS 1900 CH1175_38.4Kbps Higher Band Edge for 1xEV-DO
- Power State : High



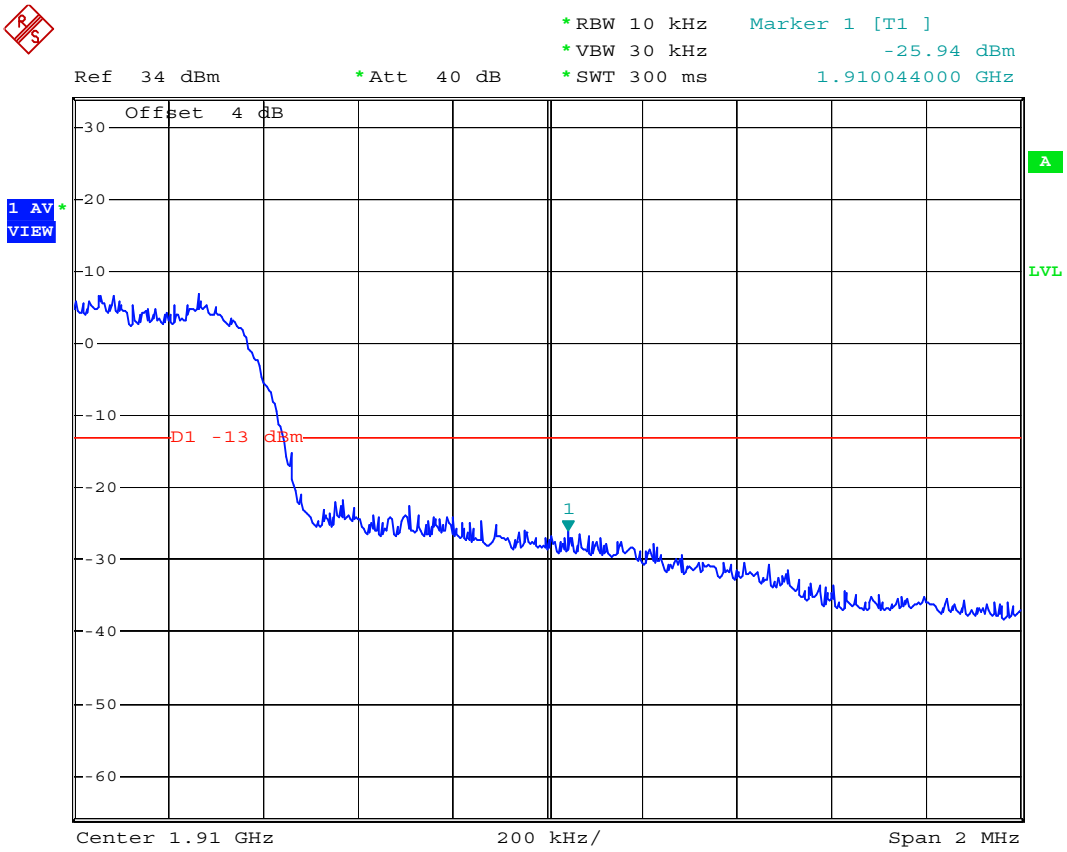
Date: 8.NOV.2007 16:32:35

- Test Mode : CDMA2000 PCS 1900 CH25_153.6Kbps Lower Band Edge for 1xEV-DO
- Power State : High



Date: 9.NOV.2007 10:40:58

- Test Mode : CDMA2000 PCS 1900 CH1175_153.6Kbps Higher Band Edge for 1xEV-DO
- Power State : High



Date: 9.NOV.2007 10:35:45

4.5 Conducted Emission

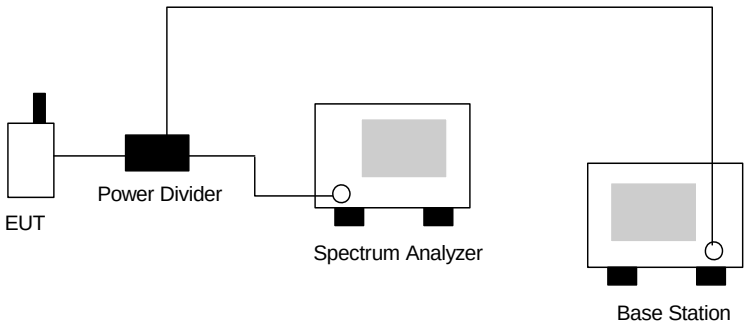
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

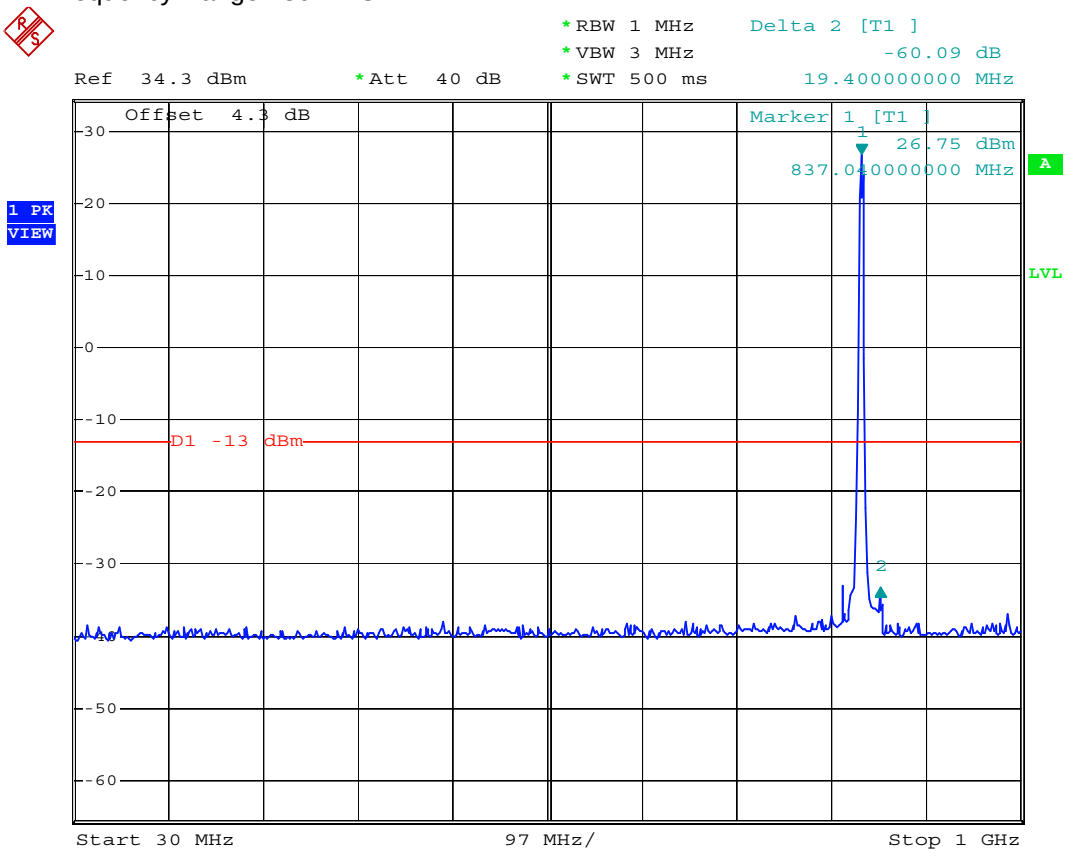
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

4.5.3 Test Setup Layout



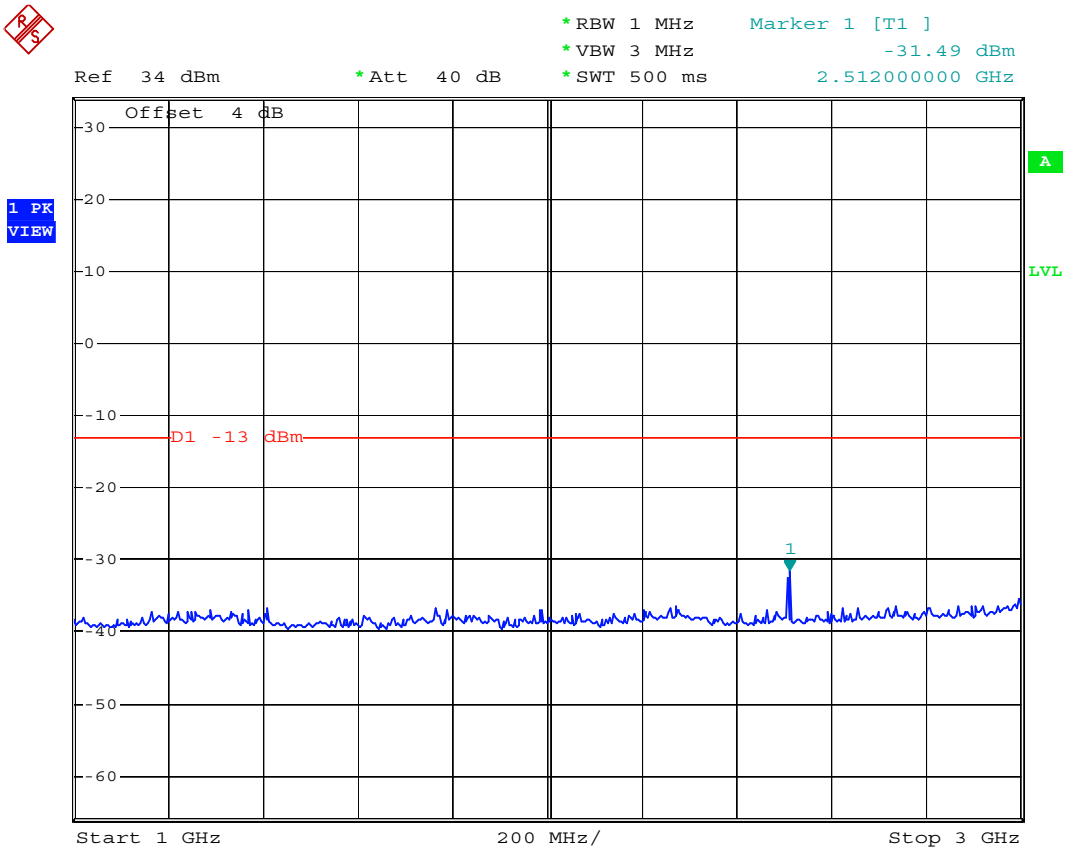
4.5.4 Test Result

- Mode 1
- Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT
- Frequency Range : 30M-1G



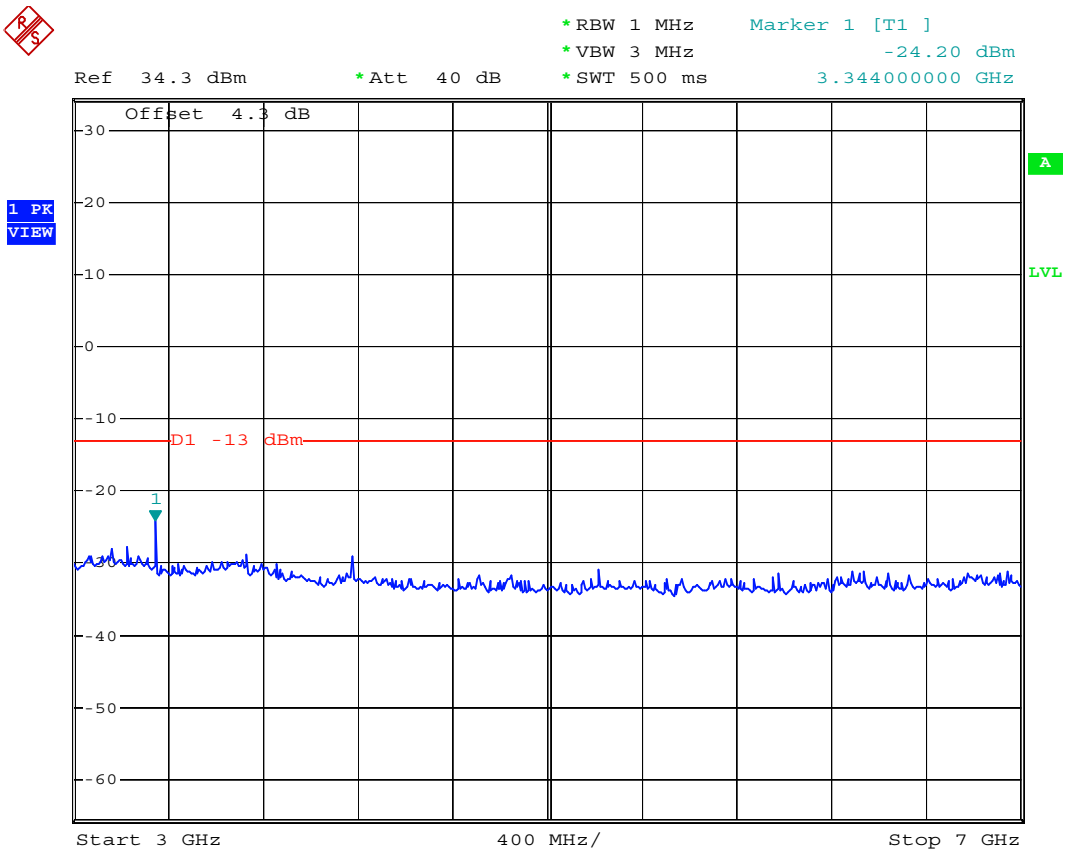
Date: 8.NOV.2007 14:25:12

- Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT
- Frequency Range : 1G-3G



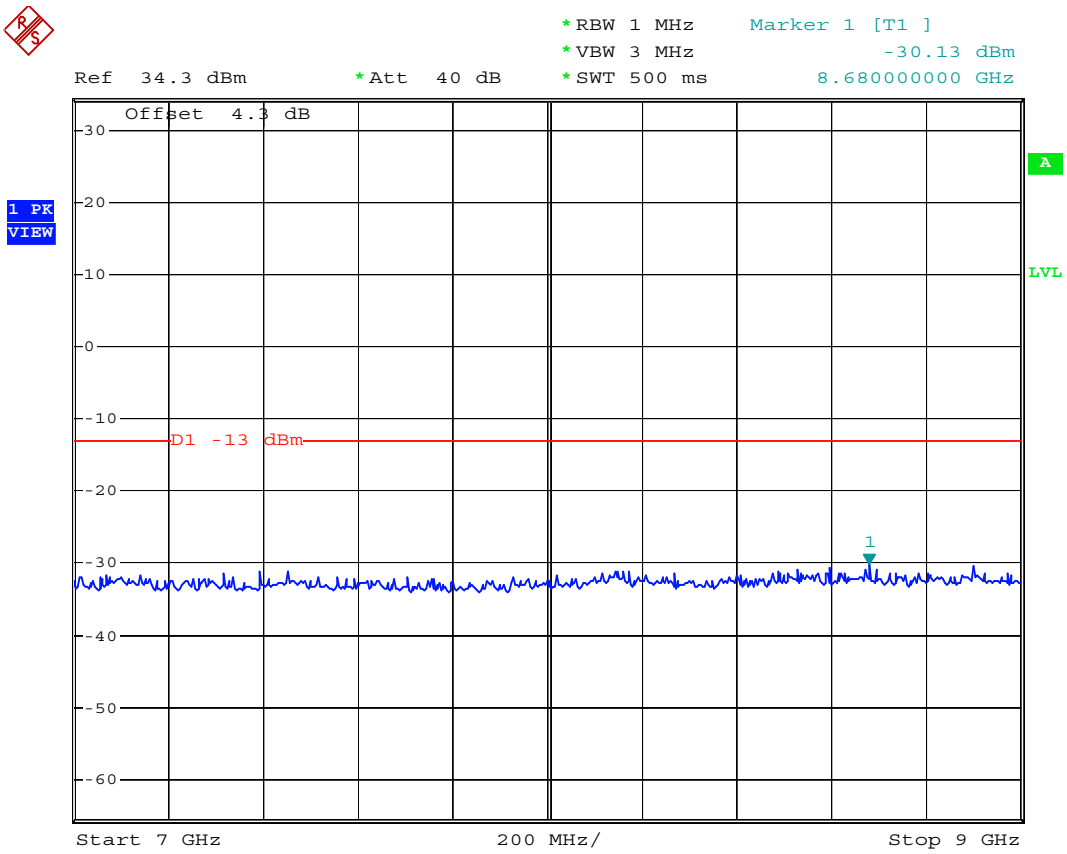
Date: 9.NOV.2007 09:45:51

- Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT
- Frequency Range : 3G-7G



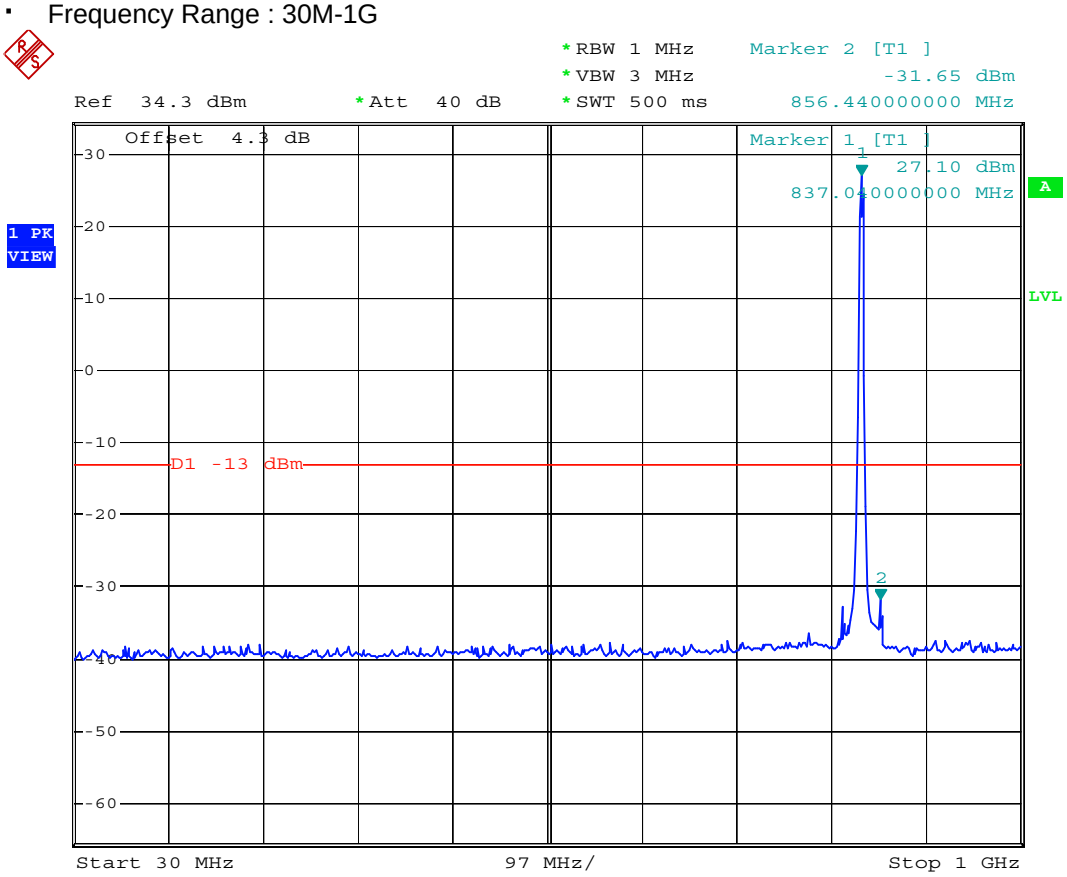
Date: 8.NOV.2007 14:28:49

- Test Mode : CDMA2000 Cellular 850 CH384 for 1xRTT
- Frequency Range : 7G-9G



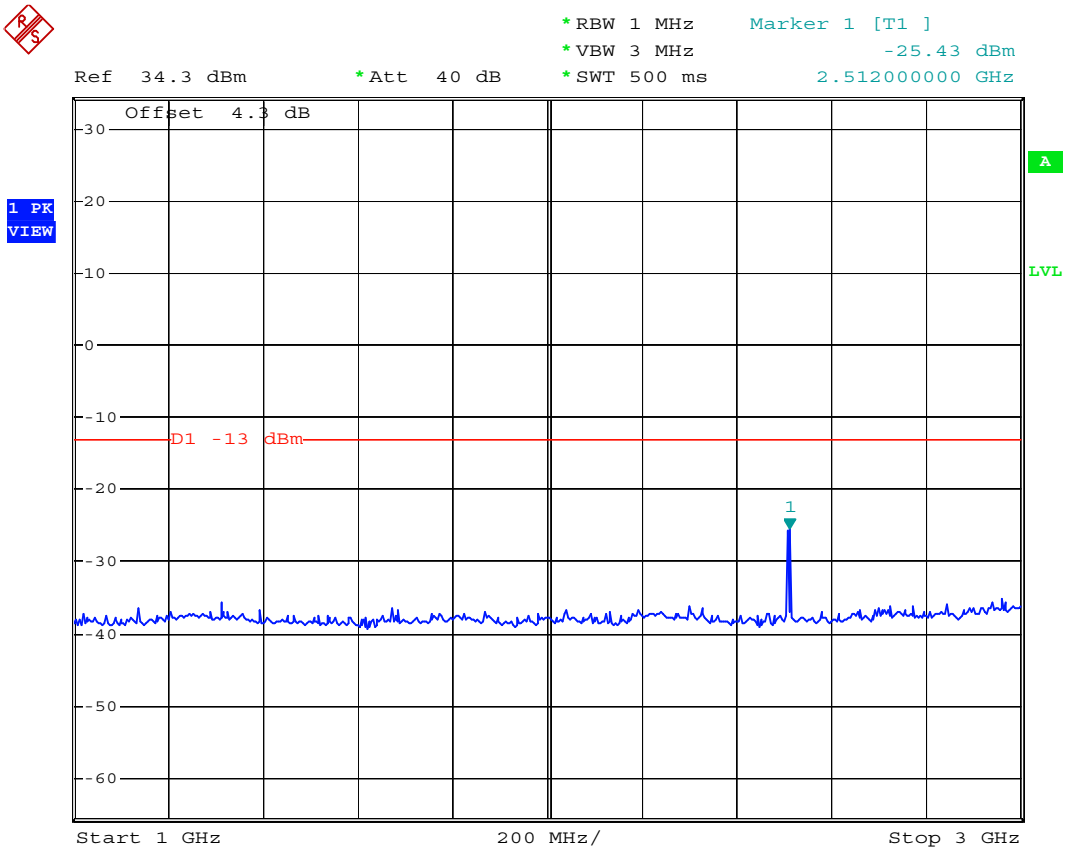
Date: 8.NOV.2007 14:30:19

- Mode 2
- Test Mode : CDMA2000 Cellular 850 CH384 for 1xEVDO
- Frequency Range : 30M-1G



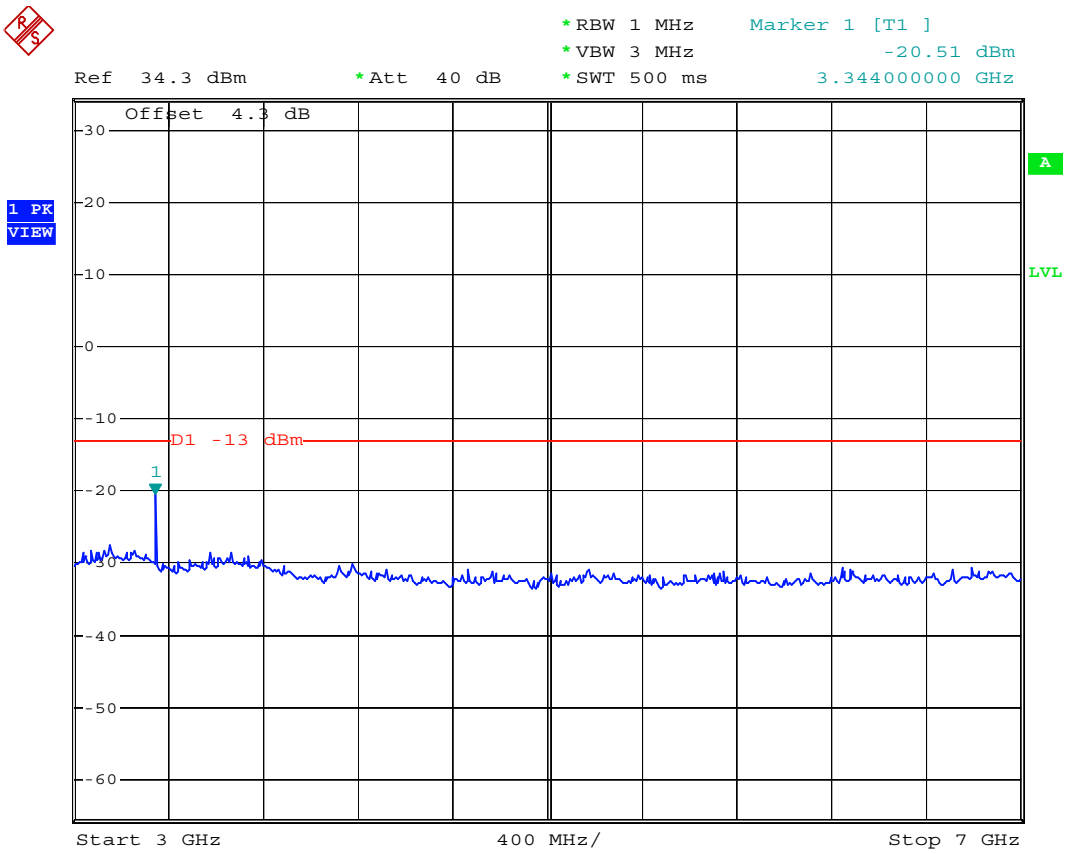
Date: 8.NOV.2007 09:45:07

- Test Mode : CDMA2000 Cellular 850 CH384 for 1xEVDO
- Frequency Range : 1G-3G



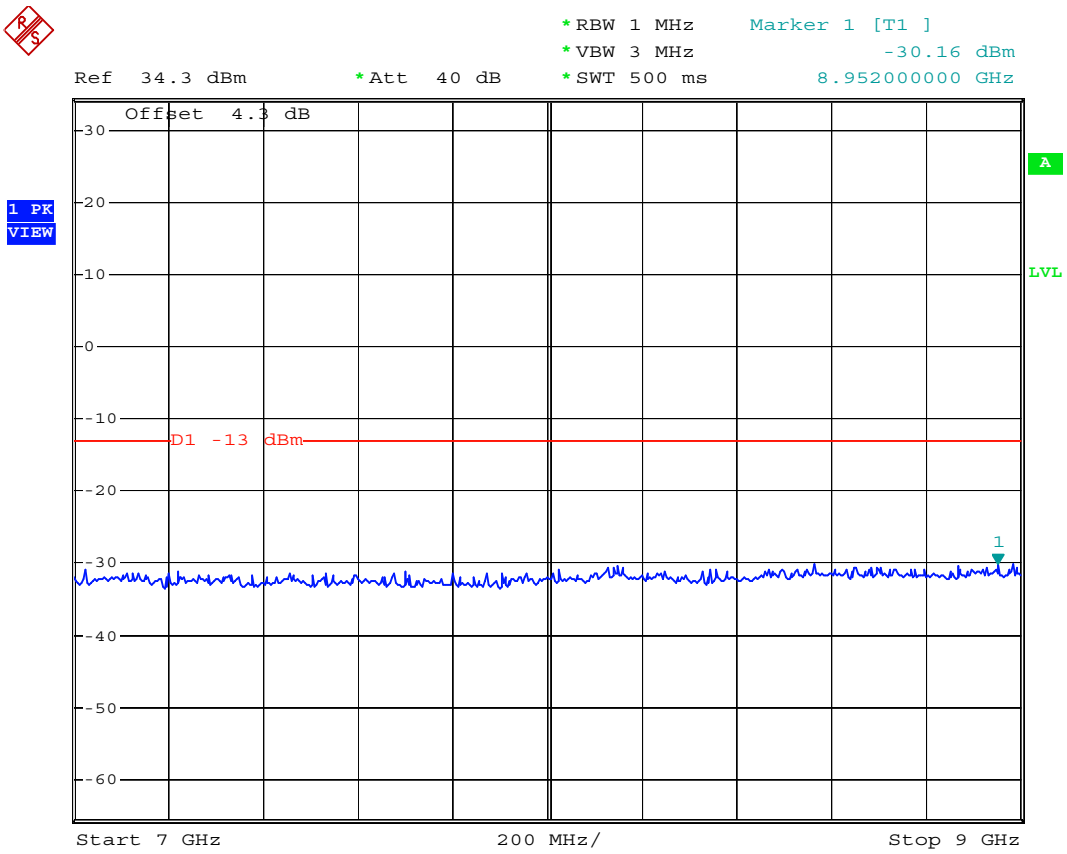
Date: 8.NOV.2007 09:42:19

- Test Mode : CDMA2000 Cellular 850 CH384 for 1xEVDO
- Frequency Range : 3G-7G



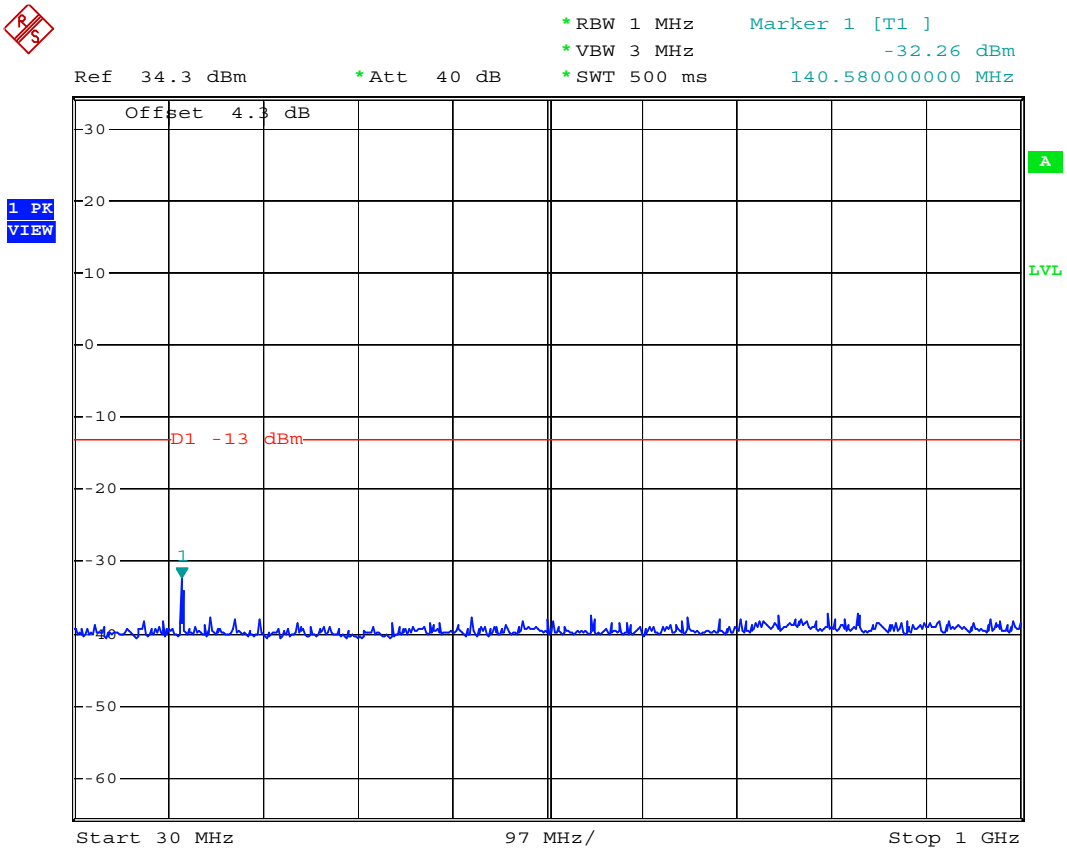
Date: 8.NOV.2007 09:46:52

- Test Mode : CDMA2000 Cellular 850 CH384 for 1xEVDO
- Frequency Range : 7G-9G



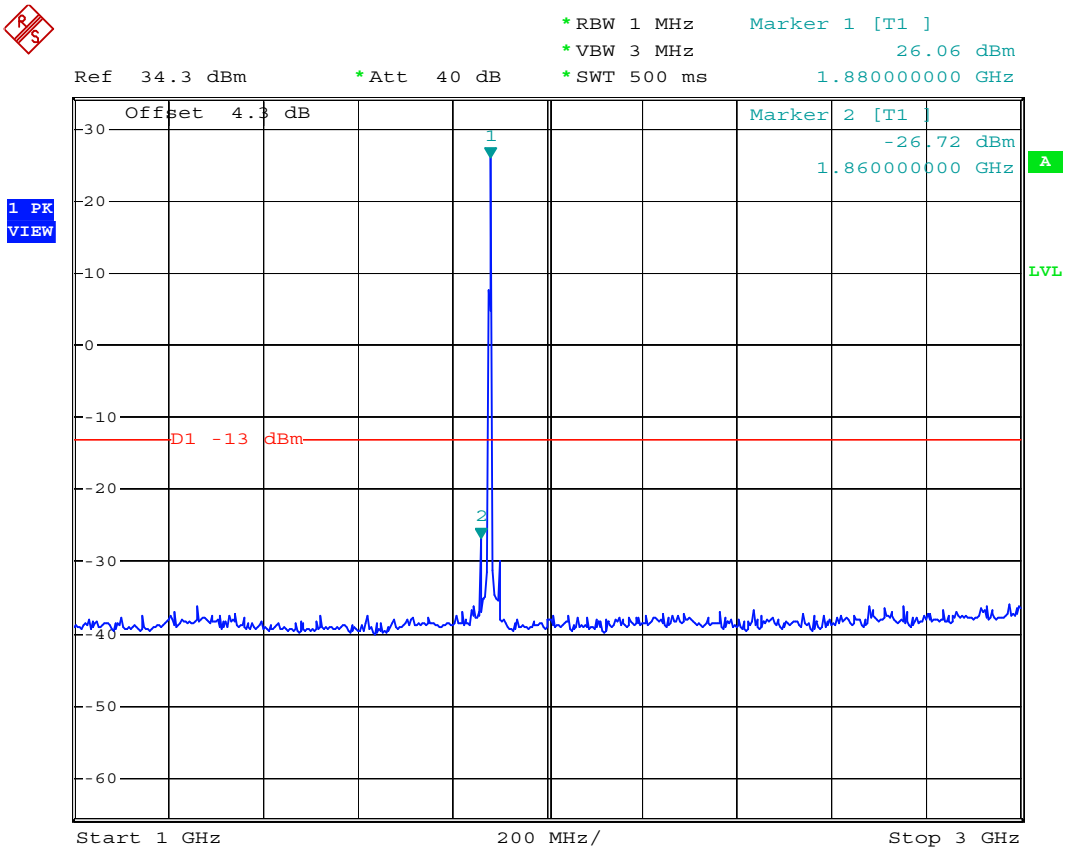
Date: 8.NOV.2007 09:38:16

- Mode 3
- Test Mode : CDMA2000 PCS 1900 CH600 for 1xRTT
- Frequency Range : 30M-1G



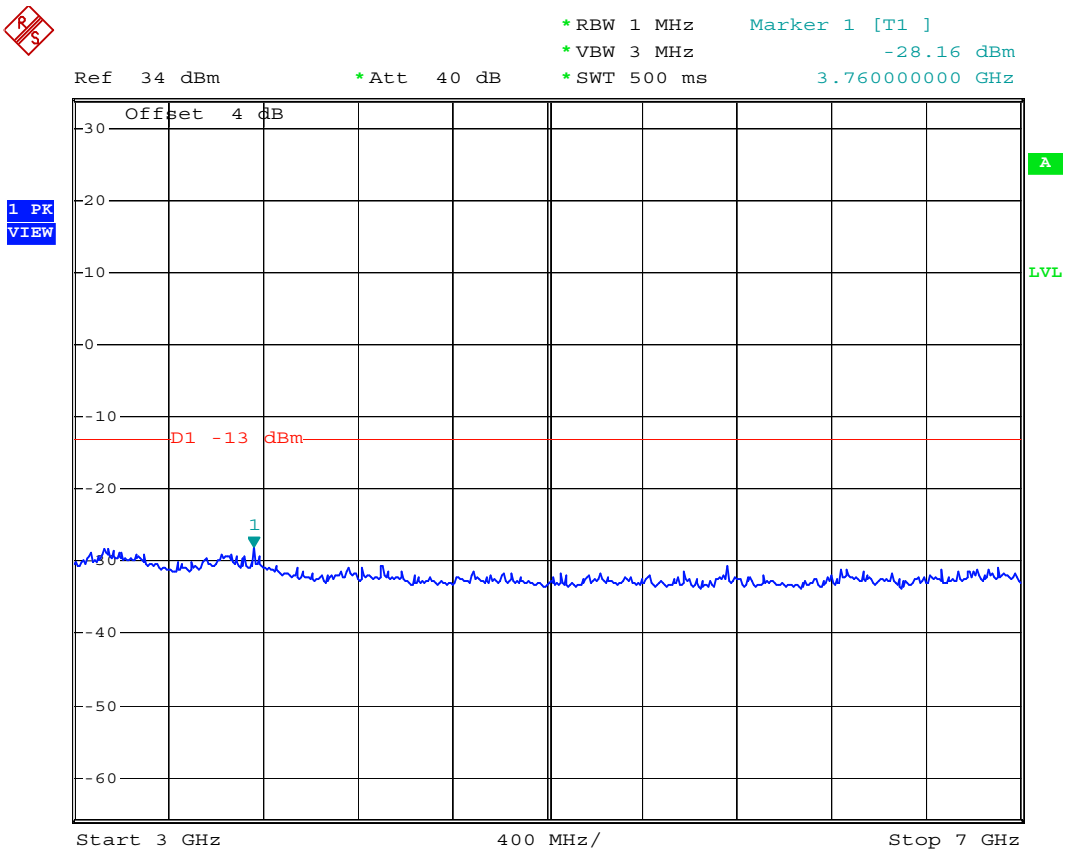
Date: 8.NOV.2007 15:42:02

- Test Mode : CDMA2000 PCS 1900 CH600 for 1xRTT
- Frequency Range : 1G-3G



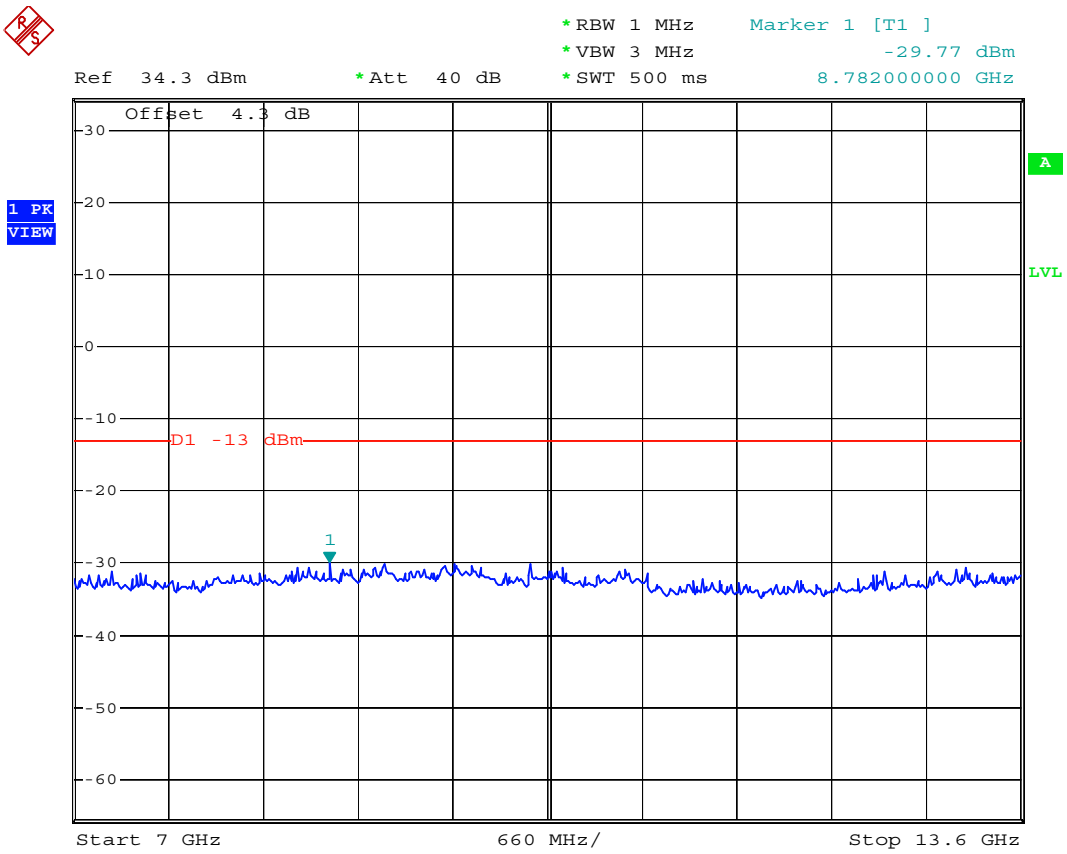
Date: 8.NOV.2007 15:45:34

- Test Mode : CDMA2000 PCS 1900 CH600 for 1xRTT
- Frequency Range : 3G-7G



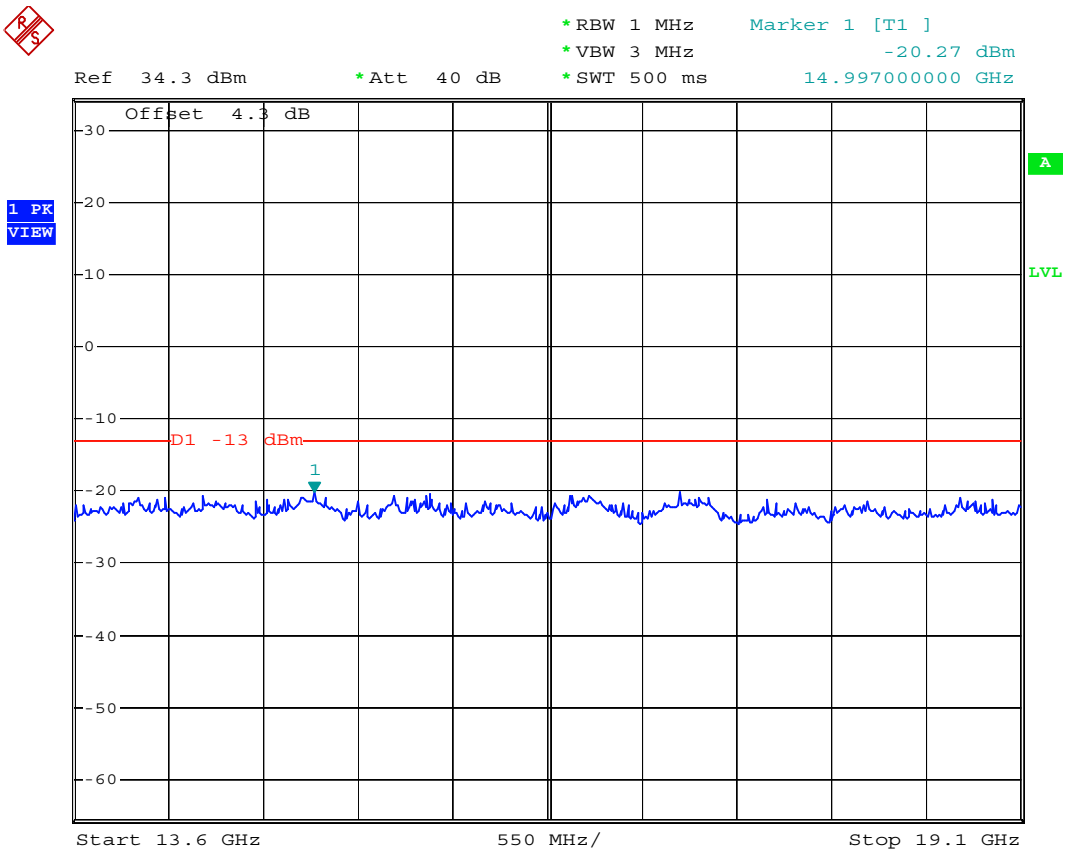
Date: 9.NOV.2007 10:04:44

- Test Mode : CDMA2000 PCS 1900 CH600 for 1xRTT
- Frequency Range : 7G-13.6G



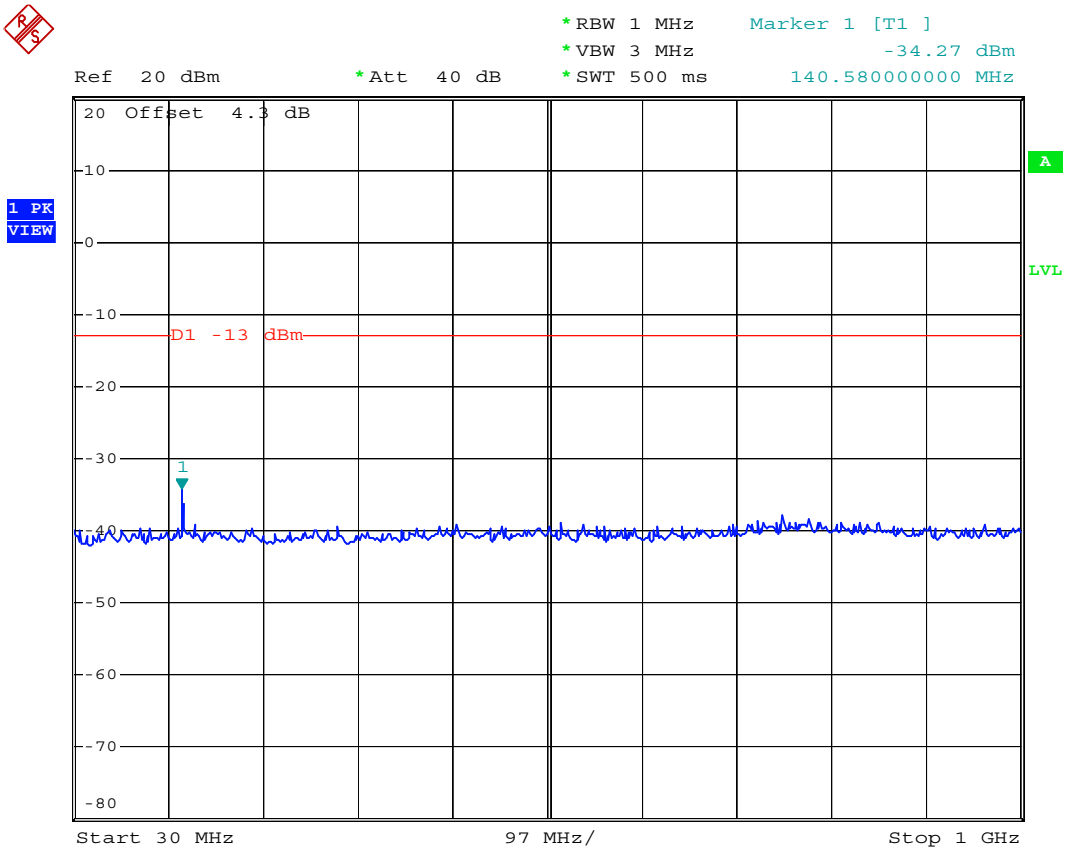
Date: 8.NOV.2007 15:47:39

- Test Mode : CDMA2000 PCS 1900 CH600 for 1xRTT
- Frequency Range : 13.6G-19.1G



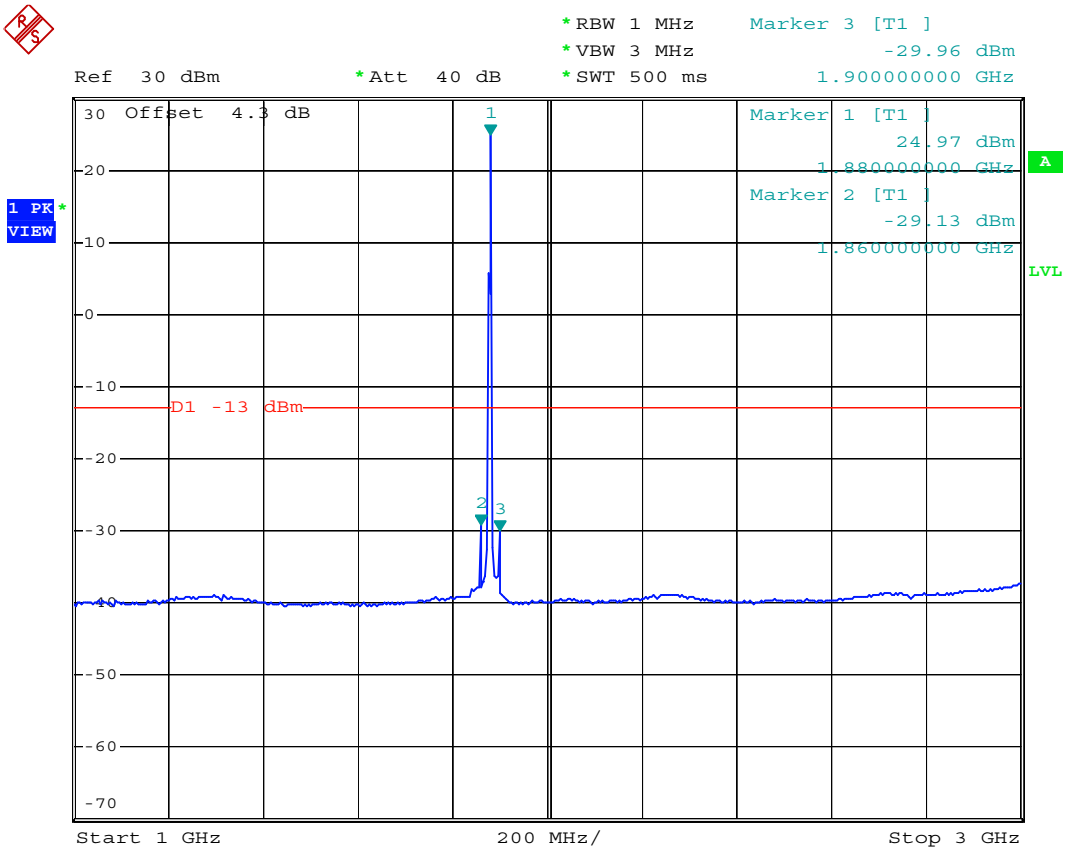
Date: 8.NOV.2007 15:49:13

- Mode 4
- Test Mode : CDMA2000 PCS 1900 CH600 for 1xEVDO
- Frequency Range : 30M-1G



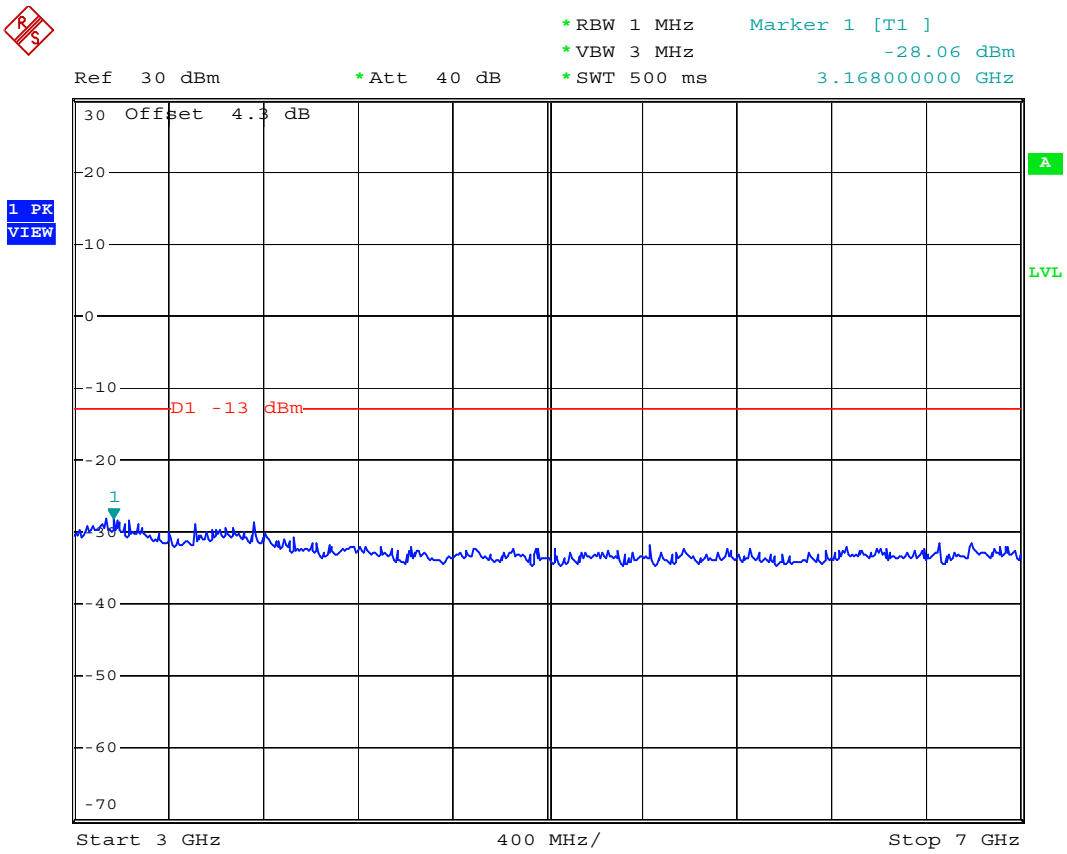
Date: 8.NOV.2007 16:46:01

- Test Mode : CDMA2000 PCS 1900 CH600 for 1xEVDO
- Frequency Range : 1G-3G



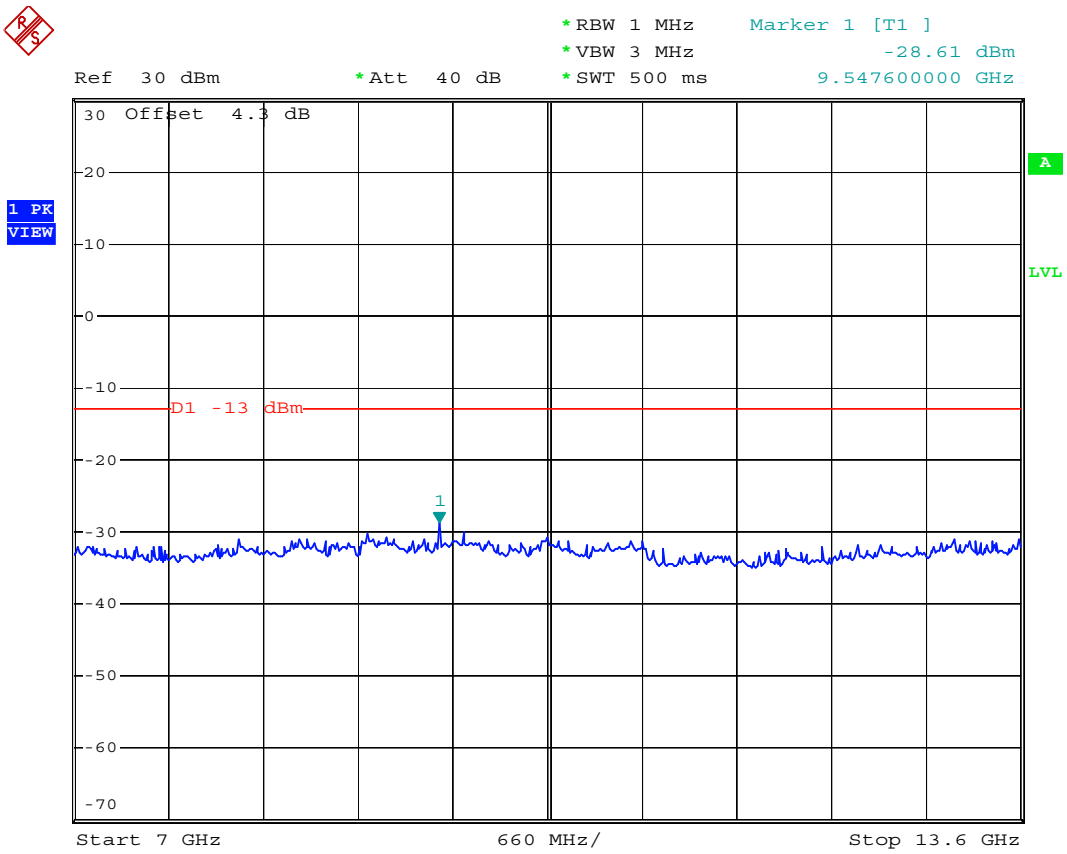
Date: 8.NOV.2007 16:48:27

- Test Mode : CDMA2000 PCS 1900 CH600 for 1xEVDO
- Frequency Range : 3G-7G



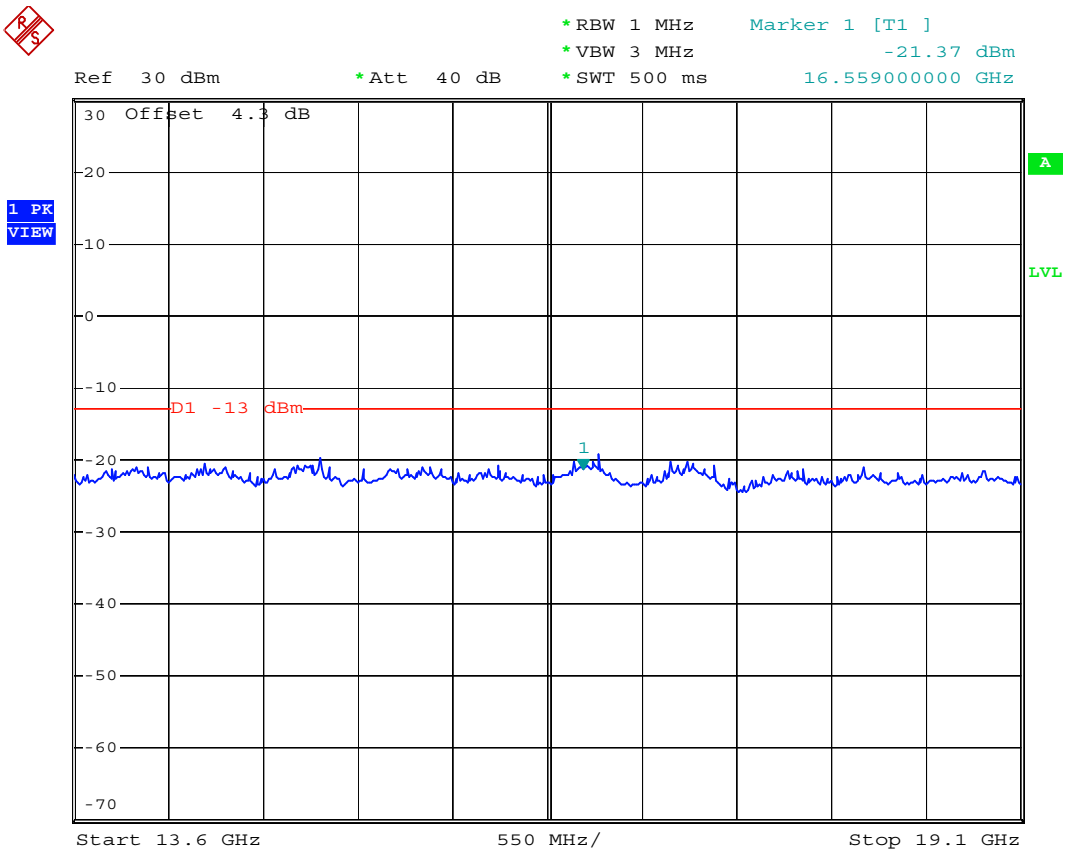
Date: 8.NOV.2007 16:50:02

- Test Mode : CDMA2000 PCS 1900 CH600 for 1xEVDO
- Frequency Range : 7G-13.6G



Date: 8.NOV.2007 16:51:28

- Test Mode : CDMA2000 PCS 1900 CH600 for 1xEVDO
- Frequency Range : 13.6G-19.1G



Date: 8.NOV.2007 16:58:06

4.6 Field Strength of Spurious Radiation

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

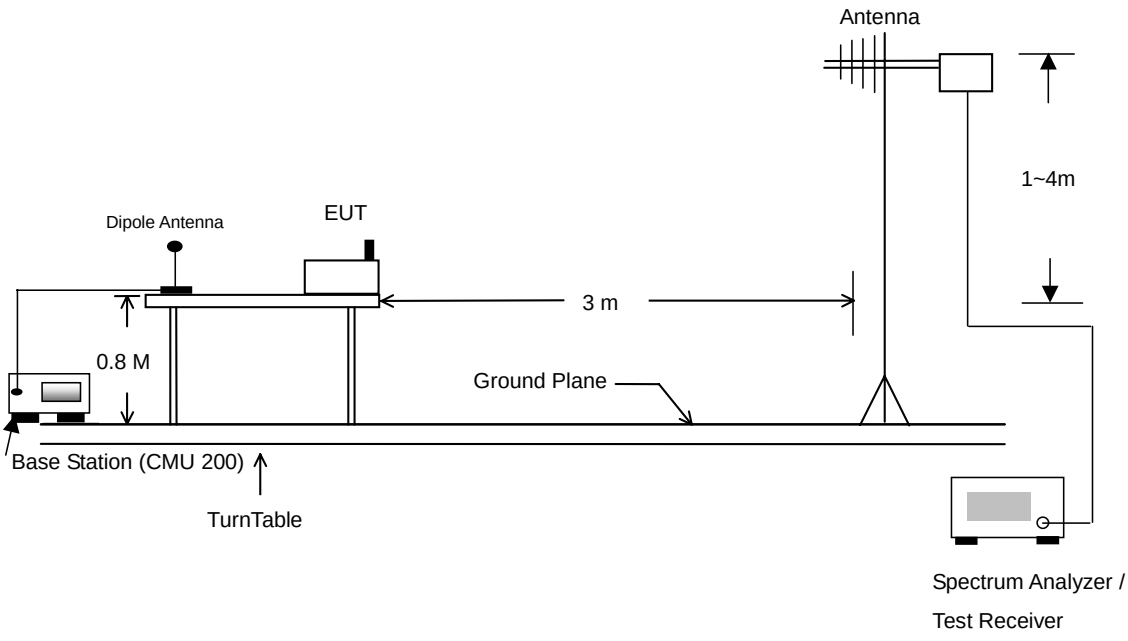
4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

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 recored 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

- Test Mode : Mode 1

CDMA2000 Cellular 850 1xRTT Radiated Spurious ERP								
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
1764	-46.90	-13	-49.30	-48.87	1.88	6.00	V	Pass
2510	-34.57	-13	-43.52	-36.09	2.19	5.86	H	Pass
3346	-31.17	-13	-40.85	-34.18	2.47	7.63	H	Pass

- Test Mode : Mode 2

CDMA2000 Cellular 850 1xEVDO Radiated Spurious ERP								
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
1674	-53.55	-13	-54.09	-55.61	1.79	6.00	V	Pass
2510	-28.92	-13	-37.87	-30.44	2.19	5.86	V	Pass
3346	-26.19	-13	-35.87	-29.20	2.47	7.63	V	Pass
4184	-42.84	-13	-56.71	-46.52	2.94	8.77	V	Pass
1672	-52.02	-13	-52.56	-54.08	1.79	6.00	H	Pass
2510	-30.08	-13	-39.03	-31.60	2.19	5.86	H	Pass
3346	-24.95	-13	-34.63	-27.96	2.47	7.63	H	Pass
4186	-43.00	-13	-56.87	-46.68	2.94	8.77	H	Pass

- Test Mode : Mode 3

CDMA2000 PCS 1900 1xRTT Radiated Spurious EIRP								
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
3702	-34.03	-13	-47.33	-39.23	2.68	7.88	V	Pass
5556	-31.50	-13	-53.88	-38.03	3.33	9.86	V	Pass

- Test Mode : Mode 4

CDMA2000 PCS 1900 1xEVDO Radiated Spurious EIRP								
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
3760	-28.70	-13	-42.40	-33.98	2.72	8.00	V	Pass

- Test Mode : Mode 5

CDMA2000 Cellular 850 with BT Co-location Radiated Spurious ERP								
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
1674	-47.50	-13	-49.82	-49.56	1.79	6.00	V	Pass
2512	-31.64	-13	-39.92	-33.16	2.19	5.86	V	Pass
3346	-24.30	-13	-32.55	-27.31	2.47	7.63	V	Pass
3984	-39.17	-13	-49.54	-42.60	2.92	8.50	V	Pass
4182	-42.17	-13	-52.59	-45.85	2.94	8.77	V	Pass
4434	-44.52	-13	-55.75	-48.62	2.96	9.21	V	Pass
4870	-39.02	-13	-50.98	-43.36	3.21	9.70	V	Pass
5854	-28.81	-13	-43.54	-33.56	3.42	10.32	V	Pass
6694	-35.18	-13	-51.11	-40.42	3.83	11.22	V	Pass
1674	-46.66	-13	-48.98	-48.72	1.79	6.00	H	Pass
2510	-35.04	-13	-43.43	-36.56	2.19	5.86	H	Pass
3346	-21.33	-13	-29.58	-24.34	2.47	7.63	H	Pass
3984	-40.74	-13	-51.11	-44.47	2.92	8.80	H	Pass
4182	-43.01	-13	-53.79	-46.69	2.94	8.77	H	Pass
4434	-43.98	-13	-55.21	-48.08	2.96	9.21	H	Pass
4868	-39.22	-13	-51.18	-43.56	3.21	9.70	H	Pass
5854	-31.29	-13	-46.02	-36.04	3.42	10.32	H	Pass
6694	-37.67	-13	-53.60	-42.91	3.83	11.22	H	Pass

4.7 Frequency Stability (Temperature Variation)

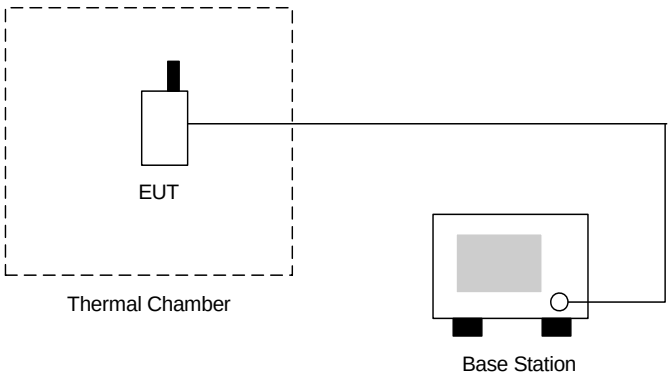
4.7.1 Measurement Instrument

As decribed 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 note 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 ws 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 : CDMA2000 Cellular 850 1xRTT FCH+SCH_RC3 CH384

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	n/a	n/a	2.5	Passed
-20	-22	-0.03		
-10	-14	-0.02		
0	-17	-0.02		
10	-8	-0.01		
20	-13	-0.02		
30	-17	-0.02		
40	4	0.00		
50	3	0.00		

Remark : The EUT can not power turn on at -30℃.

- Test Mode : CDMA2000 Cellular 850 1xEV-DO 9.6Kbps CH384

Temperature(oC)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	n/a	n/a	2.5	Passed
-20	-24	-0.03		
-10	-12	-0.01		
0	-13	-0.02		
10	-8	-0.01		
20	8	0.01		
30	-5	-0.01		
40	4	0.00		
50	3	0.00		

Remark : The EUT can not power turn on at -30℃.

- Test Mode : CDMA2000 PCS 1900 1xRTT FCH_RC1 CH600

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	n/a	n/a	2.5	Passed
-20	22	0.01		
-10	-19	-0.01		
0	-17	-0.01		
10	-7	0.00		
20	-8	0.00		
30	6	0.00		
40	-13	-0.01		
50	8	0.00		

Remark : The EUT can not power turn on at -30℃.

- Test Mode : CDMA2000 PCS 1900 1xEV-DO 9.6Kbps CH600

Temperature(°C)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
-30	n/a	n/a	2.5	Passed
-20	-18	-0.01		
-10	-5	0.00		
0	-14	-0.01		
10	-22	-0.01		
20	-7	0.00		
30	-21	-0.01		
40	14	0.01		
50	13	0.01		

Remark : The EUT can not power turn on at -30℃.

4.8 Frequency Stability (Voltage Variation)

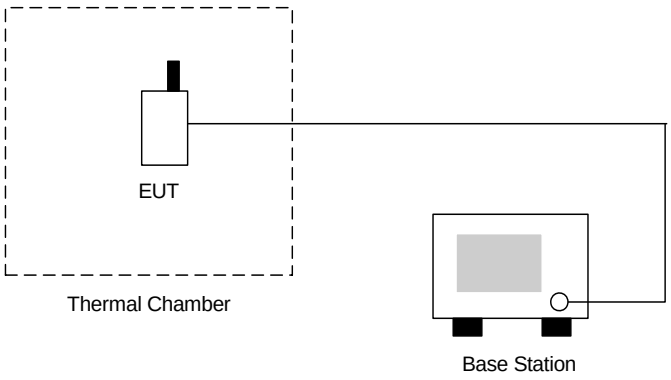
4.8.1 Measurement Instrument

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±5 °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

- Test Mode : CDMA2000 Cellular 850 1xRTT FCH+SCH_RC3 CH384

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	-9.0	-0.01	2.5	Passed
BEP	-13.0	-0.02		
4.2	-7.0	-0.01		

- Test Mode : CDMA2000 Cellular 850 1xEV-DO 9.6Kbps CH384

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	-12.0	-0.01	2.5	Passed
BEP	-9.0	-0.01		
4.2	12.0	0.01		

- Test Mode : CDMA2000 PCS 1900 1xRTT FCH_RC1 CH600

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	-12.0	-0.01	2.5	Passed
BEP	28.0	0.01		
4.2	16.0	0.01		

- Test Mode : CDMA2000 PCS 1900 1xEV-DO 9.6Kbps CH600

Voltage(Volt)	Change (Hz)	Change (ppm)	Limit (ppm)	Result
3.7	-12.0	-0.01	2.5	Passed
BEP	13.0	0.01		
4.2	-18.0	-0.01		

Remark:
1. Normal Voltage=3.7 V.
2. Battery End Point (BEP)=3.5 V.

5 List of Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9K~40GHz	Mar. 13, 2007	Mar. 12, 2008	Radiation (03CH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9KHz~2.75GHz	Mar. 15, 2007	Mar. 14, 2008	Radiation (03CH01-KS)
Bilog Antenna	Schaffner	CBL6112D	23182	25MHz~2000MHz	May 22, 2007	May 21, 2008	Radiation (03CH01-KS)
Controller	MF	MF7802	N/A	N/A	N/A	N/A	Radiation (03CH01-KS)
AC Power Source	APC	AFC-11001G	N/A	N/A	N/A	N/A	Radiation (03CH01-KS)
Preamplifier	Agilent	8449B	3008A02370	1G~26.5GHz	Jun. 04, 2007	Jun. 03, 2008	Radiation (03CH01-KS)
Preamplifier	Wireless	FPA6592G	60006	30M~2000MHz	Jul. 24, 2007	Jul. 23, 2008	Radiation (03CH01-KS)
High Pass filter (3GHz)	Microwave Circuits	H3G018G	N/A	N/A	N/A	N/A	Radiation (03CH01-KS)
High Pass filter (7GHz)	Microwave Circuits	H07G18G3	N/A	N/A	N/A	N/A	Radiation (03CH01-KS)
High Pass filter	N/A	WHKX1.5/15 G-10SS	23	N/A	N/A	N/A	Radiation (03CH01-KS)
High Pass filter	N/A	WHKX2.2-18 G-10SS	8	N/A	N/A	N/A	Radiation (03CH01-KS)
Band Reject Filter	WI	WRCG2400/ 2483-2390/2	14	N/A	N/A	N/A	Radiation (03CH01-KS)
Band Reject Filter	WI	WRCG 1850/1910-1	15	N/A	N/A	N/A	Radiation (03CH01-KS)
Band Reject Filter	WI	WRCG 824/849-814/	34	N/A	N/A	N/A	Radiation (03CH01-KS)
Low pass filter (1.2GHz)	N/A	WLKS 1200-8SS	2	N/A	N/A	N/A	Radiation (03CH01-KS)
DRG Horn(Medium)	EMCO	3117	75959	1GHz ~ 18GHz	Aug. 17, 2007	Aug. 16, 2008	Radiation (03CH01-KS)
Antenna Mast	MF	N/A	N/A	N/A	N/A	N/A	Radiation (03CH01-KS)

Turn Table	MF	N/A	N/A	N/A	N/A	N/A	Radiation (03CH01-KS)
HF Cable	N/A	Sucoflex 104	N/A	N/A	Sep. 01, 2007	Sep. 01, 2008	Radiation (03CH01-KS)
LF Cable	N/A	Sucoflex 106	N/A	N/A	Sep. 01, 2007	Sep. 01, 2008	Radiation (03CH01-KS)
Power Meter	Agilent	E4416A	MY45101555	N/A	Jun. 18, 2007	Jun. 17, 2008	TH01-KS
Power Sensor	Agilent	E9327A	MY44421198	50MHz~18GHz	Jun. 12, 2007	Jun. 11, 2008	TH01-KS
Thermal Chamber	Rten Billion	TTC-B3S	TBN-960502	-40~150C	Jun. 27, 2007	Jun. 26, 2008	TH01-KS
Power Divider	ARRA	A3200-2	N/A	DC~18GHz	Sep. 01, 2007	Aug. 31, 2008	TH01-KS
DC Power Supply	Topward	3306D	N/A	30V6A	N/A	N/A	TH01-KS

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		$u(x_i)$	Ci	$Ci*u(x_i)$
	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 Γ1= 0.197 Antenna VSWR Γ2= 0.194 Uncertainty=20log(1-Γ1*Γ2*Γ3)	+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