



FCC TEST REPORT

for

47 CFR Part 24E

Equipment	: Broad Band Repeater
Trade Name	: Coiler
Model No.	: TX-1900
FCC ID	: UG8C-2024-19
Uplink Frequency Range	: PCS : 1850.2~1909.8MHz
Downlink Frequency Range	: PCS : 1930.2~1989.8MHz
Max. EIRP Power	: PCS : 0.00785W
Emission Designator	: 300 KGXW
Applicant	: Coiler Corporation 8F-4, No. 75, Sec. 1, Hsin Tai Wu Road, Hsi-Chih City (221), Taipei Hsien, Taiwan

- The test result refers exclusively to the test presented test model / sample.
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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 Aug. 24, 2006 at **Sporton International Inc. LAB.**
- Report No.: FG680421, Report Version: Rev. 01

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Report Version: Rev. 01



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History of this test report

Report Issue Date: Aug. 25, 2006

Report No.	Description



1. General Information

1.1. Applicant

Coiler Corporation

8F-4, No. 75, Sec. 1, Hsin Tai Wu Road, Hsi-Chih City (221), Taipei Hsien, Taiwan

1.2. Manufacturer

Coiler Corporation

8F-4, No. 75, Sec. 1, Hsin Tai Wu Road, Hsi-Chih City (221), Taipei Hsien, Taiwan

1.3. Basic Description of Equipment under Test

Equipment	: Broad Band Repeater
Trade Name	: Coiler
Model No.	: TX-1900
AC Power Cord	: AC 120V, 1.8 meter, 3 pin

**1.2 Feature of Equipment under Test**

DUT Type :	Broad Band Repeater
Trade Name :	Coiler
Model Name :	TX-1900
FCC ID :	UG8C-2024-19
Support Band :	GSM 1900
Uplink Frequency :	1850.2-1909.8 MHz.
Downlink Frequency :	1930.2-1989.8 MHz
Antenna Type :	Internal Panel Antenna (Gain: 2 dBi) External Panel Antenna (Gain: 9 dBi)
Maximum Output Power to Antenna :	6.95 dBm
Maximum EIRP :	0.00785 W (8.95 dBm)
Power Rating (DC/AC Voltage) :	9V / 900mA
Digital Modulation Emission :	GMSK
Type of Emission :	300 KGXW
DUT Stage :	Production Unit

1.3 Report Date

EUT Received : Aug. 04, 2006

Report Date : Aug. 25, 2006

2. Test Configuration of Equipment under Test

2.1 Test Manner

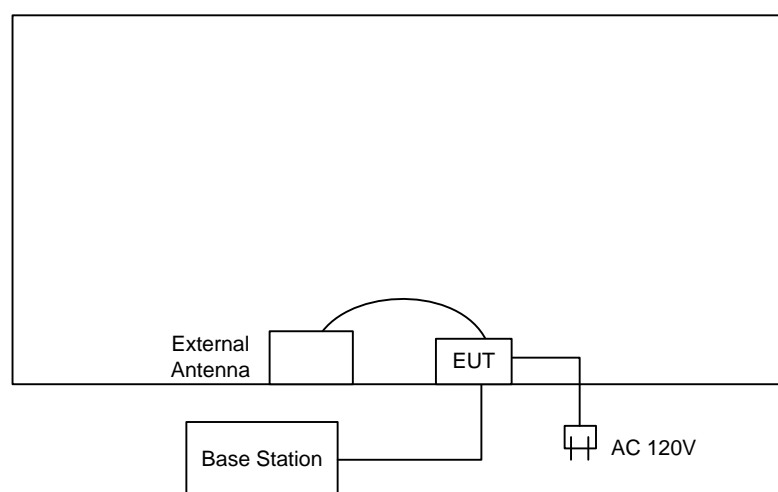
- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode at maximum power level.
- Frequency range investigated: radiated emission 30MHz to 18000 MHz for PCS.

2.2 Test Mode

Application	PCS
Radiated Emission	<input checked="" type="checkbox"/> Mode 1: PCS 1850.2MHz Uplink Mode <input checked="" type="checkbox"/> Mode 2: PCS 1880MHz Uplink Mode <input checked="" type="checkbox"/> Mode 3: PCS 1909.8MHz Uplink Mode <input checked="" type="checkbox"/> Mode 4: PCS 1930.2MHz Downlink Mode <input checked="" type="checkbox"/> Mode 5: PCS 1960MHz Downlink Mode <input checked="" type="checkbox"/> Mode 6: PCS 1989.8MHz Downlink Mode
Conducted Measurement	<input checked="" type="checkbox"/> Mode 1: PCS 1850.2MHz Uplink Mode <input checked="" type="checkbox"/> Mode 2: PCS 1880MHz Uplink Mode <input checked="" type="checkbox"/> Mode 3: PCS 1930.2MHz Uplink Mode <input checked="" type="checkbox"/> Mode 4: PCS 1930.2MHz Downlink Mode <input checked="" type="checkbox"/> Mode 5: PCS 1960MHz Downlink Mode <input checked="" type="checkbox"/> Mode 6: PCS 1989.8MHz Downlink Mode

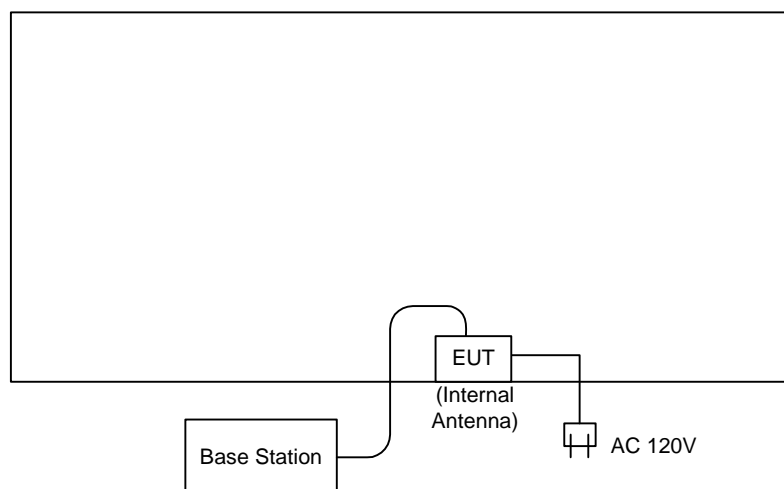
2.3 Connection Diagram of Test System

<Mode 1~3>





<Mode 4~6>



2.4 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	Power Cord
1.	Base Station	R & S	CMU200	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

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 24E

3.3 Frequency Range Investigated

a. Radiation: from 30 MHz to 18000 MHz for PCS.

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
§2.1049, § 24.238(b)	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§2.1051	Conducted Emission & Out of Band Rejection:Filter Frequency response & Intermodulation	Passed	4.5
§2.1053	Field Strength of Spurious Radiation	Passed	4.6

4.2 RF Output Power

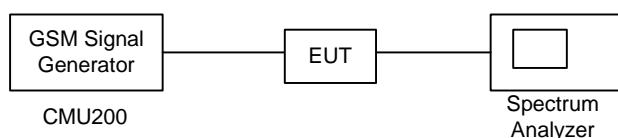
4.2.1 Measurement Instruments :

As described in chapter 5 of this test report.

4.2.2 Test Procedure :

1. The EUT was respectively connected to the spectrum analyzer and the GSM signal generator.
2. Set the EUT maximum gain condition.
3. Varied the input power from the GSM signal generator, and the maximum output power was recorded.
4. Repeatedly tested the low,middle,high channels for uplink and downlink modes .

4.2.3 Test Setup Layout :



4.2.4 Test Result :

Bands	Frequency (MHz)	Input Power (dBm)	Conducted Power (dBm)	Conducted Power (Watts)
PCS 1900	1850.2 (Low)	-34.2	6.95	0.0050
	1880.0 (Mid)	-35.8	6.91	0.0049
	1909.8 (High)	-29.6	6.91	0.0049
	1930.2(Low)	-34.0	6.95	0.0050
	1960.0(Mid)	-38.9	6.96	0.0050
	1989.8(High)	-39.0	6.83	0.0048

4.3 Occupied Bandwidth and Band Edge Measurement

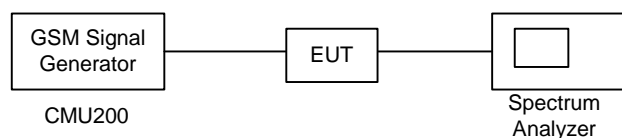
4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

1. The EUT was respectively connected to the specturm analyzer and the GSM signal genetator.
2. Set the EUT maximum gain condition.
3. Varied the input power from the GSM signal genetator, and the maximum output power reached.
4. The occupied bandwidth of middle channel was measured.
5. 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.

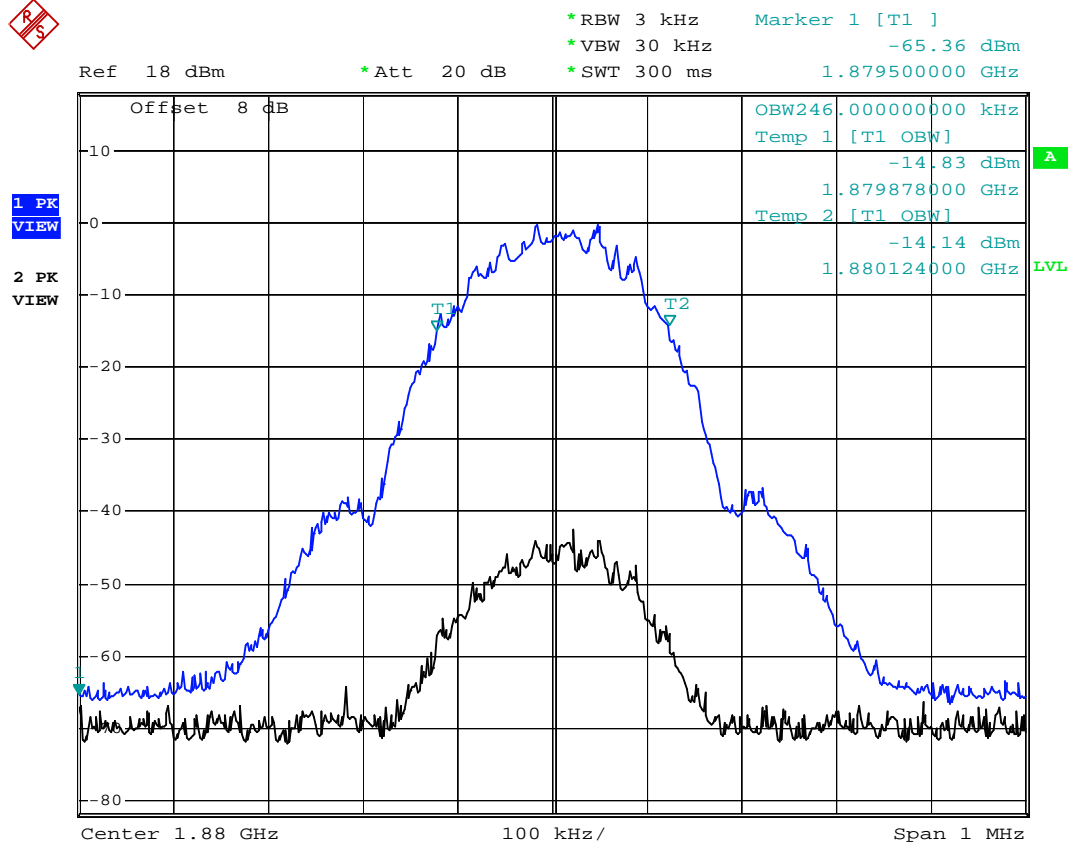
4.3.3 Test Setup Layout





4.3.4 99% Occupied Bandwidth Test Result

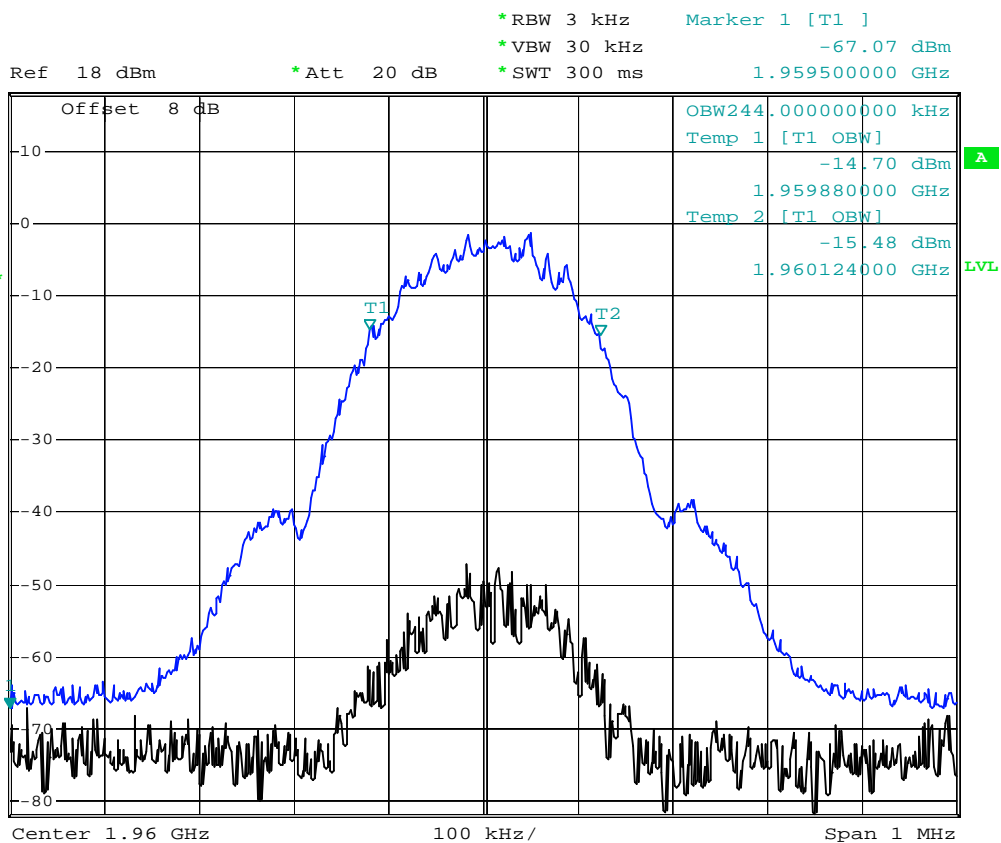
- Test Mode : PCS 1880 MHz uplink mode



Date: 25.AUG.2006 19:38:24



- Test Mode : PCS 1960 MHz downlink mode

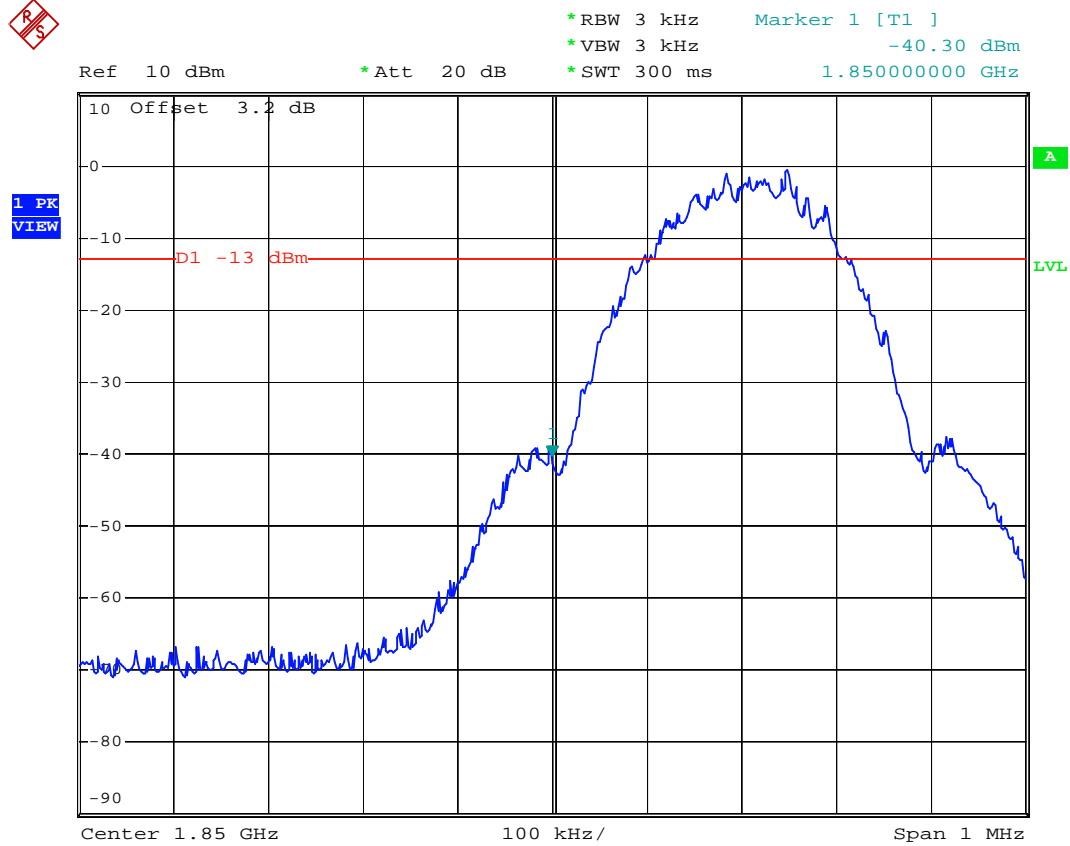


Date: 25.AUG.2006 19:41:00



4.3.5 Band Edge Test Result

- Test Mode : PCS 1850.2MHz uplink mode Lower Band Edge



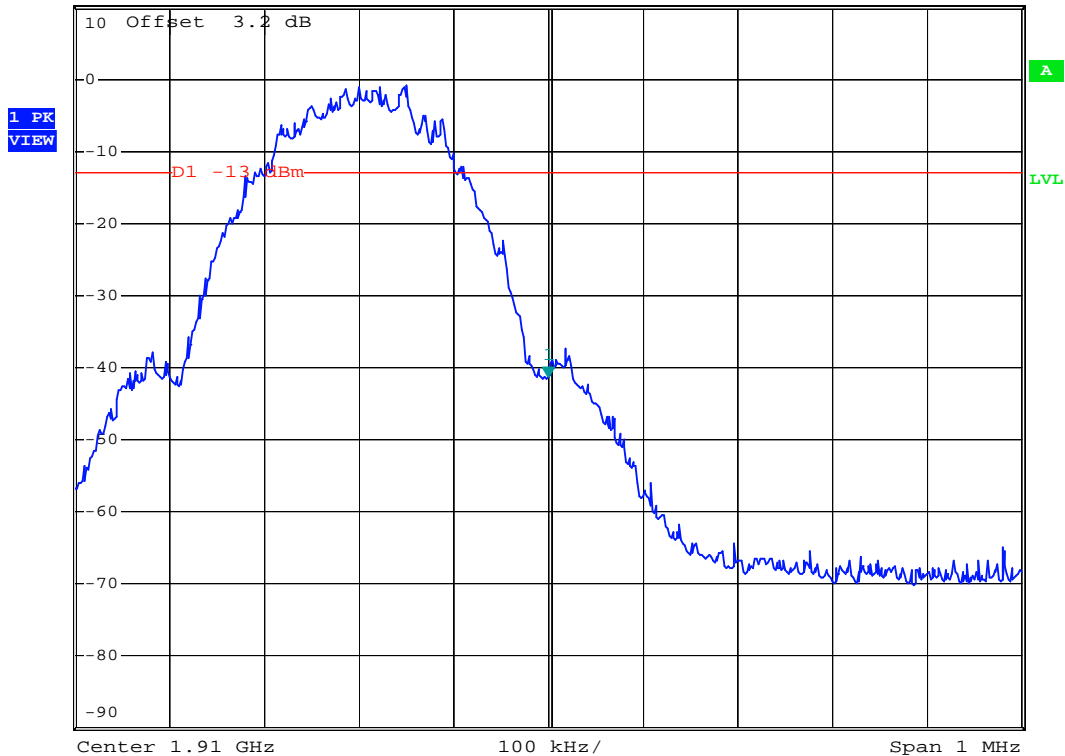
Date: 10.AUG.2006 19:36:53



- Test Mode : PCS 1909.8MHz uplink mode Higher Band Edge



Ref 10 dBm * Att 20 dB * RBW 3 kHz Marker 1 [T1]
* VBW 3 kHz -41.31 dBm
* SWT 300 ms 1.910000000 GHz



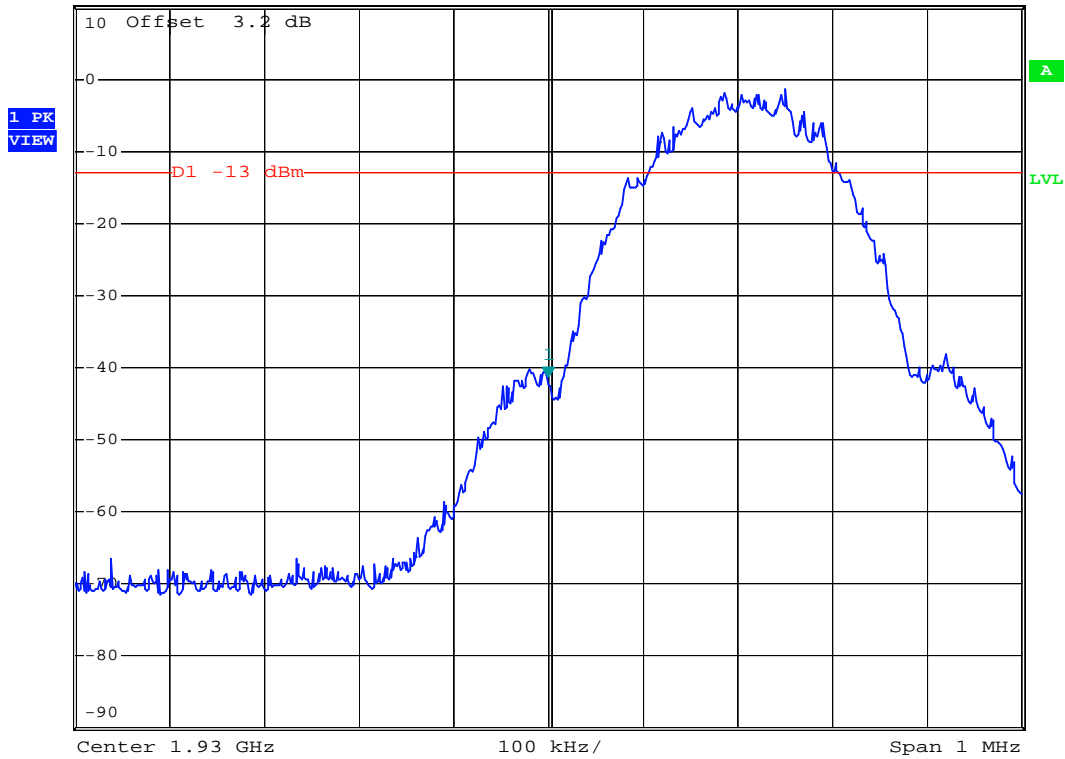
Date: 10.AUG.2006 19:37:49



- Test Mode : PCS 1930.2MHz downlink mode Lower Band Edge



Ref 10 dBm * Att 20 dB * RBW 3 kHz Marker 1 [T1]
* VBW 3 kHz -41.28 dBm
* SWT 300 ms 1.930000000 GHz



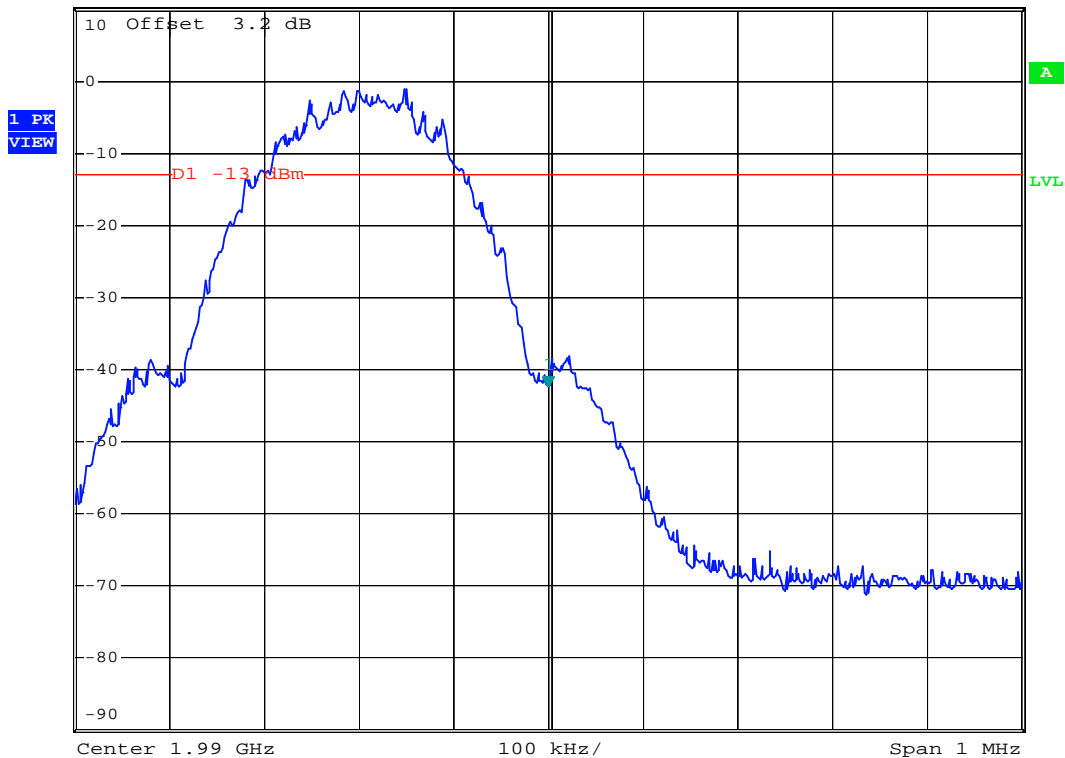
Date: 10.AUG.2006 18:15:17



- Test Mode : PCS1989.8MHz downlink mode Higher Band Edge



Ref 10 dBm * Att 20 dB * RBW 3 kHz Marker 1 [T1]
* VBW 3 kHz -42.48 dBm
* SWT 300 ms 1.990000000 GHz



Date: 10.AUG.2006 18:17:15

4.4 Conducted Emission & Out of Band Rejection: Filter Frequency response & Intermodulation

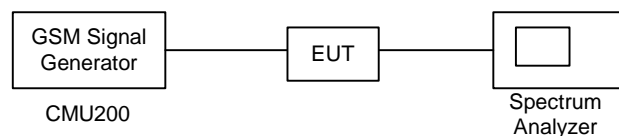
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure (For Conducted Emission)

1. The EUT was respectively connected to the specturm analyzer and the GSM signal genetator.
2. Set the EUT maximum gain condition.
3. Varied the input power from the GSM signal genetator, and the maximum output power reached.
- 4.The middle channel for the highest RF power within the transmitting frequency was measured.
- 5.The conducted spurious emission for the whole frequency range was taken.

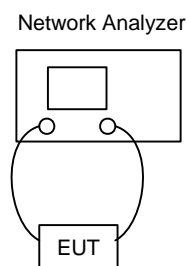
4.4.3 Test Setup Layout



4.4.4 Test Procedure (For Out of Band Rejection)

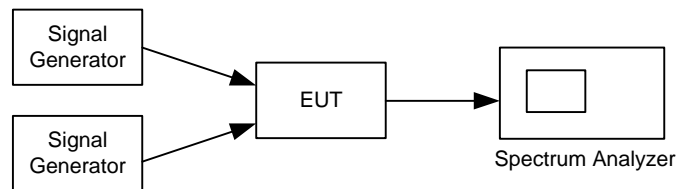
- 1.The EUT was respectively connected to Network Analyzer's port 1 and prot2.
- 2.Set the EUT maximum gain condition.
- 3.The Out of Band Rejection for the whole authorized frequency band was measured.

4.4.5 Test Setup Layout



4.4.6 Test Procedure (For Intermodulation)

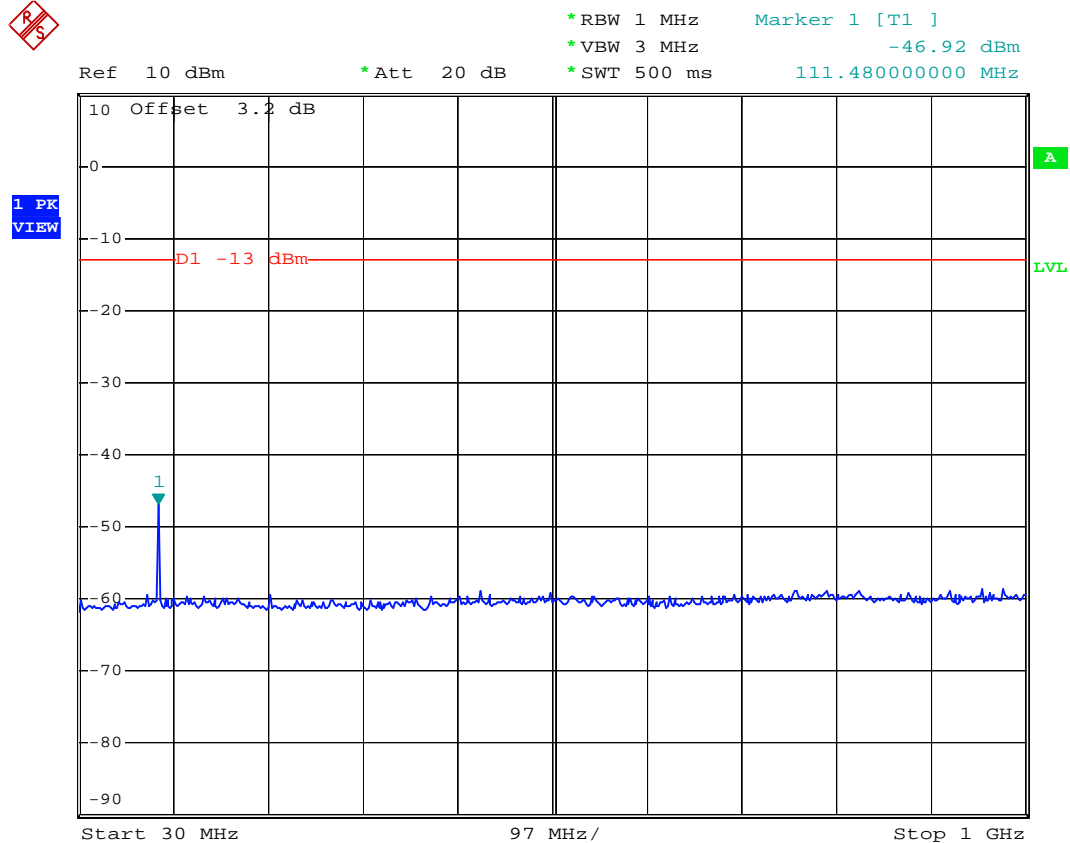
1. The EUT was connected respectively to the spectrum analyzer and the signal generator (CMU200) which generated a CW and CDMA signal.
2. Set the EUT maximum gain and output power.
3. Inputted a GSM frequency at 1850.2MHz from CMU200 and a CW frequency at 1850.8MHz (Offsets 600KHz from the 1850.2MHz) from another one.
4. Measured and recorded for the lower band edge at 1850MHz and spurious up to the 10th harmonics.
5. Measured and recorded for the upper band edge at 1910MHz and spurious up to the 10th harmonics.
6. Repeatedly measured above steps for GSM and CDMA.

4.4.7 Test Setup Layout

4.4.8 Test Result

4.4.8.1 Conducted Emission

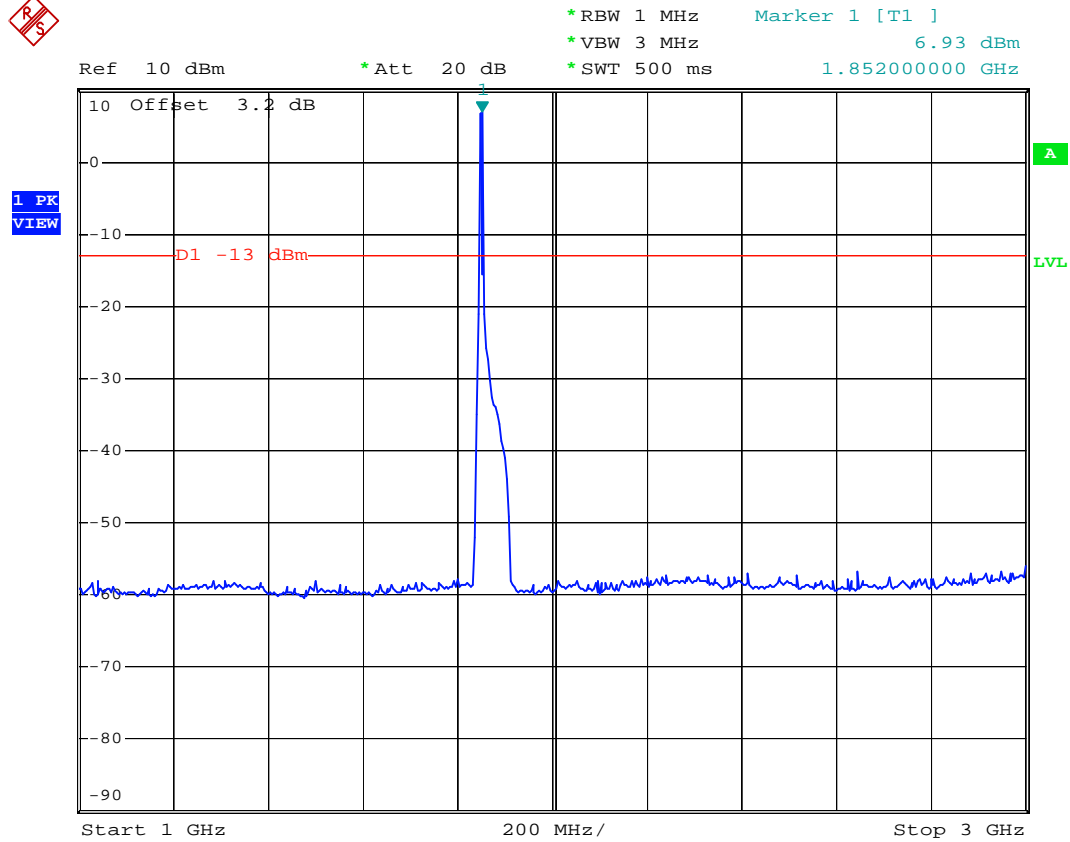
- Test Mode : PCS 1850.2 MHz uplink mode
- Frequency Range : 0.3G-1G



Date: 24.AUG.2006 16:25:49



Frequency Range : 1G-3G



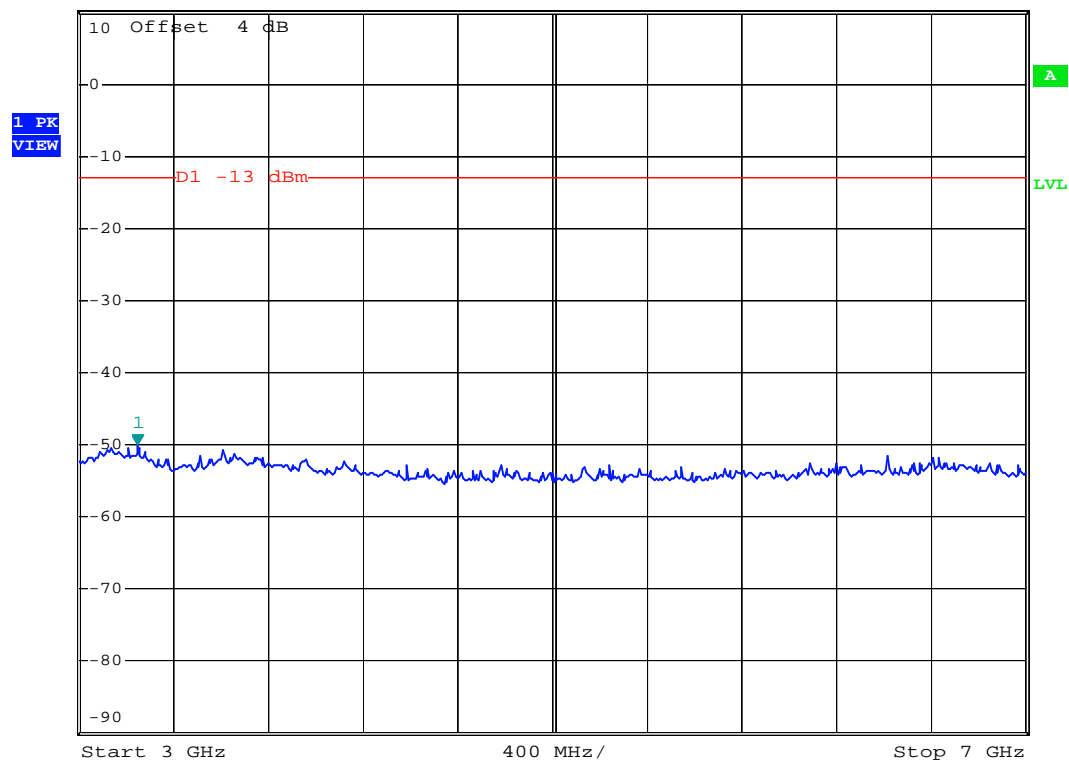
Date: 24.AUG.2006 16:25:10



▪ Frequency Range : 3G-7G



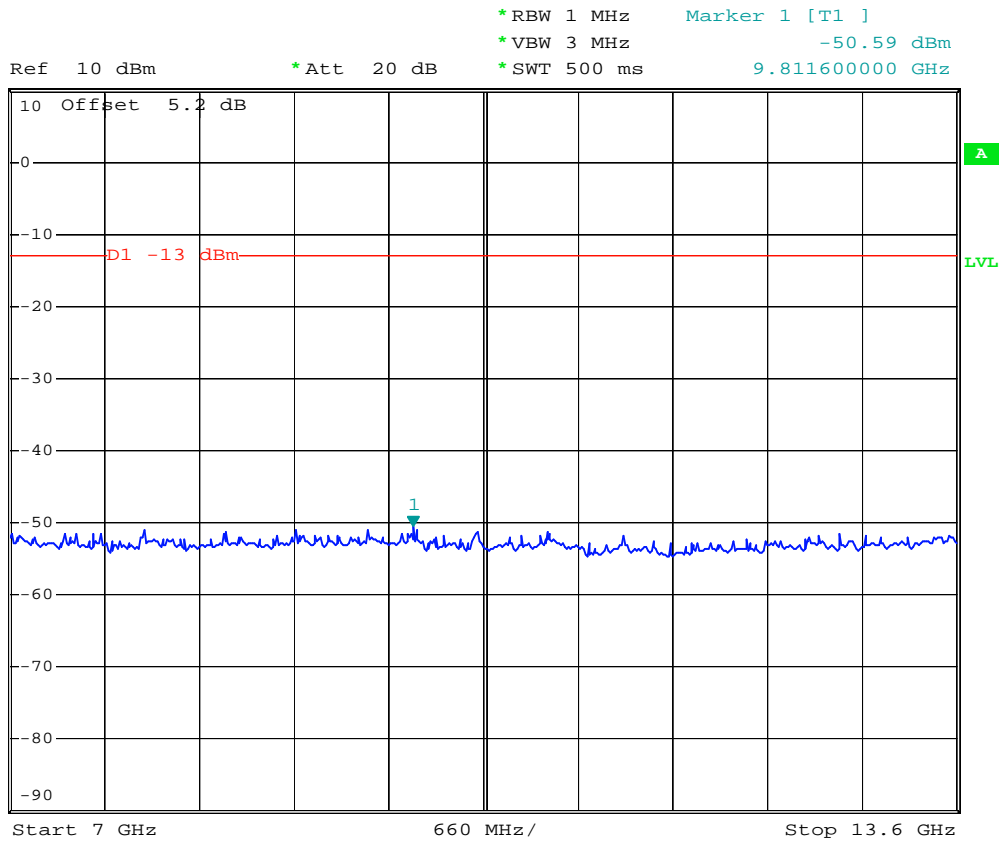
Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -50.09 dBm
* SWT 500 ms 3.248000000 GHz



Date: 24.AUG.2006 16:27:32



▪ Frequency Range : 7G-13.6G



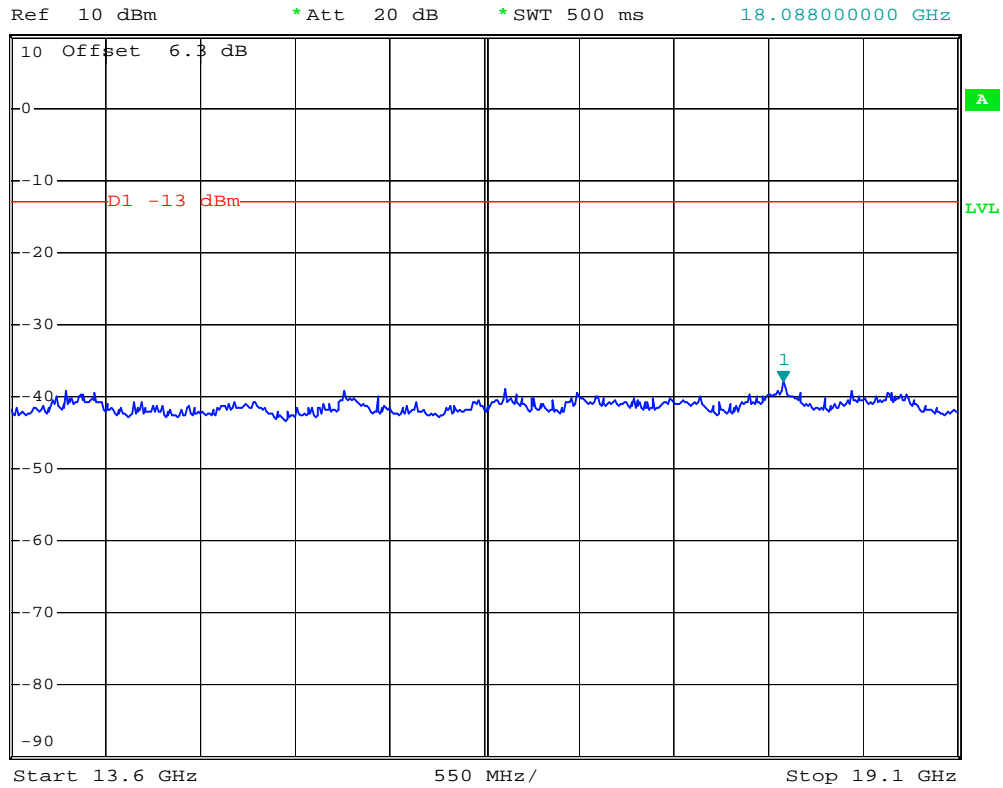
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- Frequency Range : 13.6G-19.1G



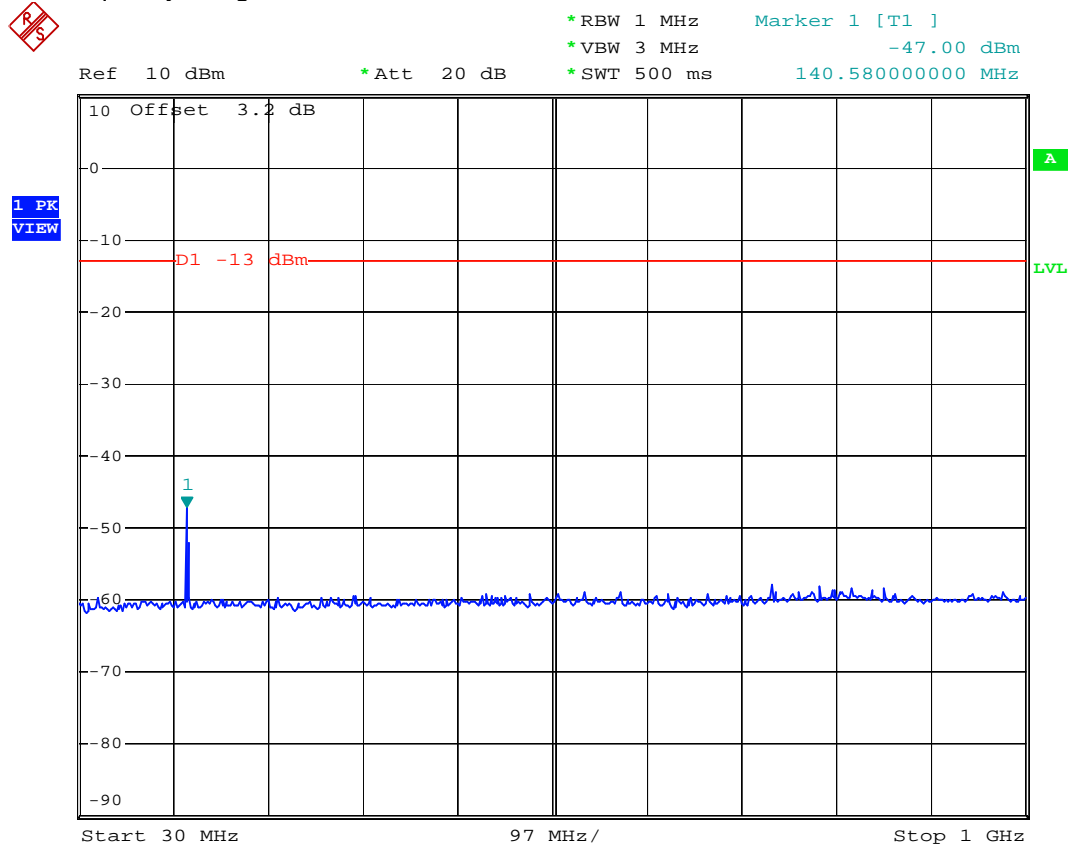
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -37.84 dBm
*SWT 500 ms 18.088000000 GHz



Date: 24.AUG.2006 16:29:13



- Test Mode : PCS 1880 MHz uplink mode
- Frequency Range : 0.3G-1G



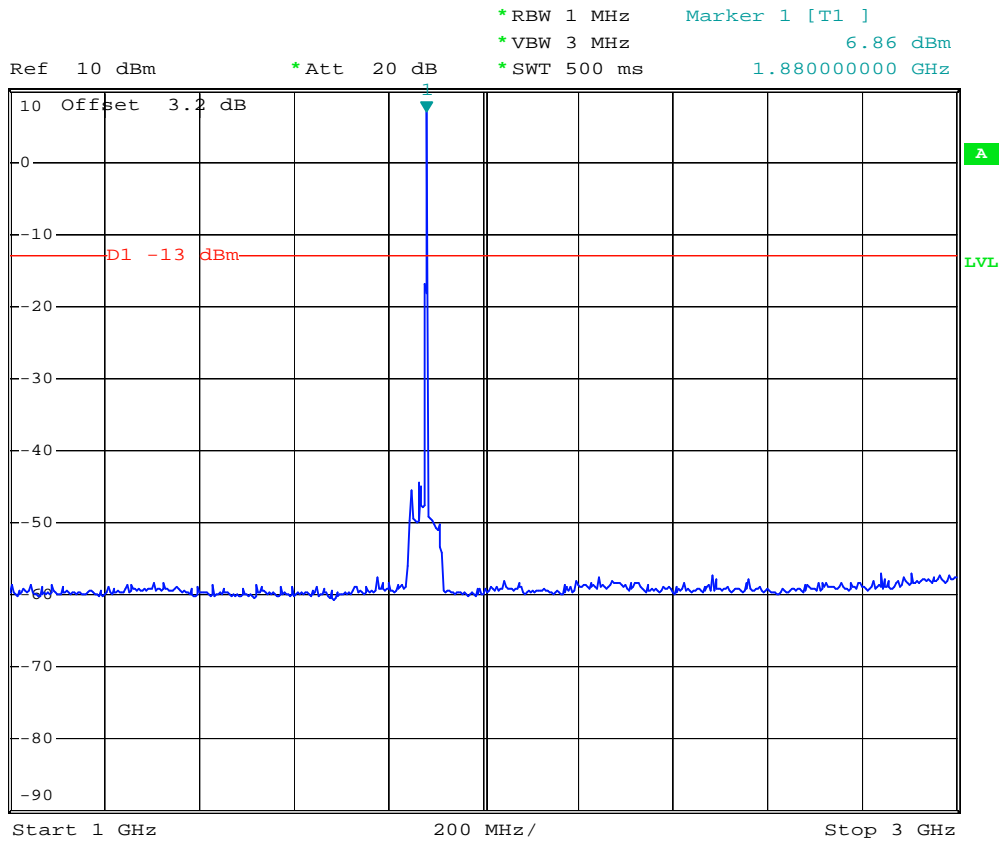
Date: 10.AUG.2006 19:41:25



▪ Frequency Range : 1G-3G



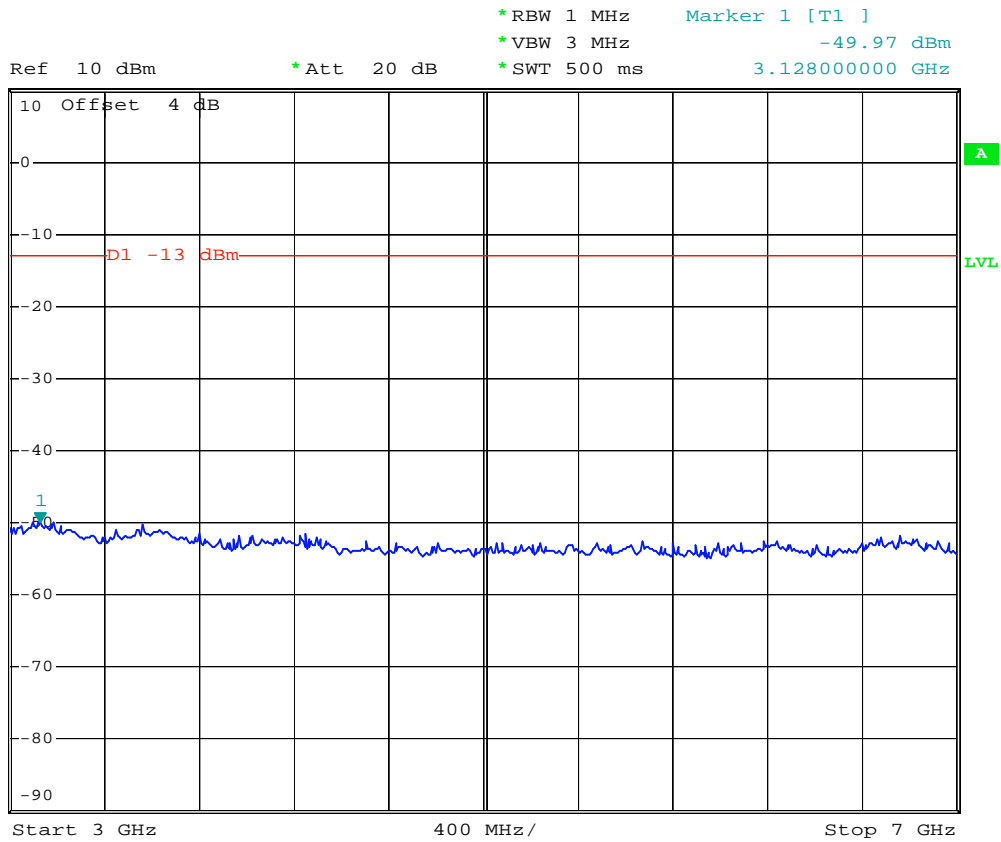
1 PK
VIEW



Date: 10.AUG.2006 19:42:17



▪ Frequency Range : 3G-7G



Date: 10.AUG.2006 19:43:19

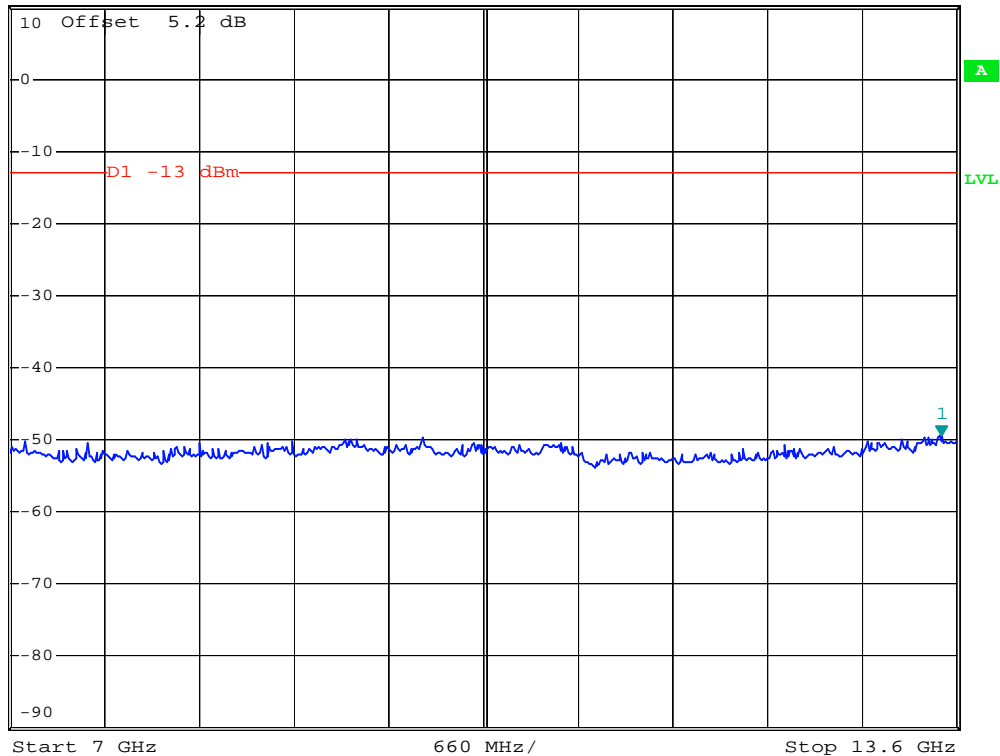


Frequency Range : 7G-13.6G



Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -49.47 dBm
* SWT 500 ms 13.494400000 GHz

1 PK
VIEW



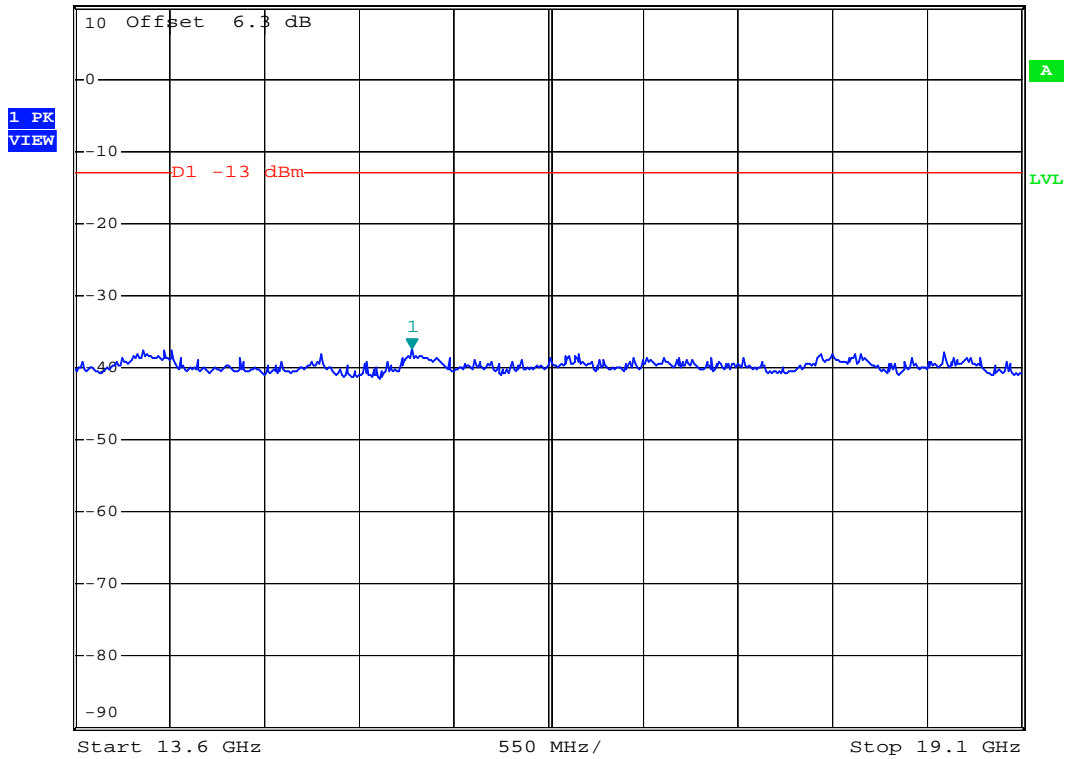
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▪ Frequency Range : 13.6G-19.1G



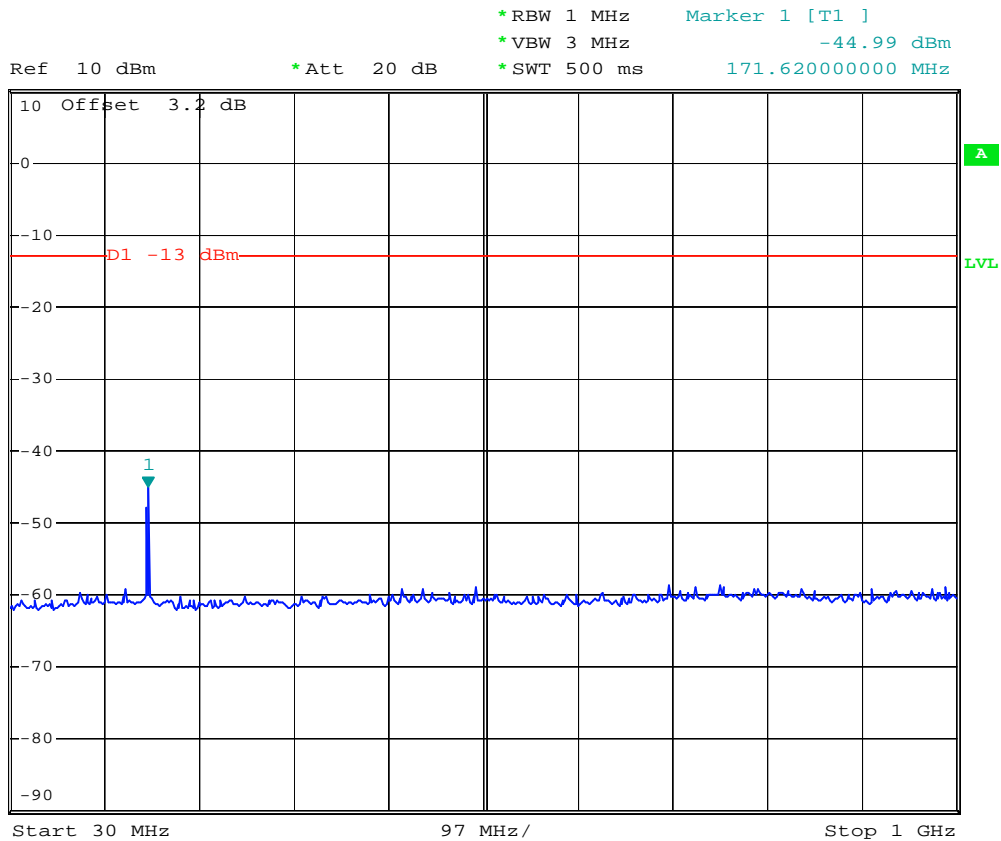
Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -37.47 dBm
* SWT 500 ms 15.558000000 GHz



Date: 10.AUG.2006 19:45:13



- Test Mode : PCS 1909.8 MHz uplink mode
- Frequency Range : 0.3G-1G



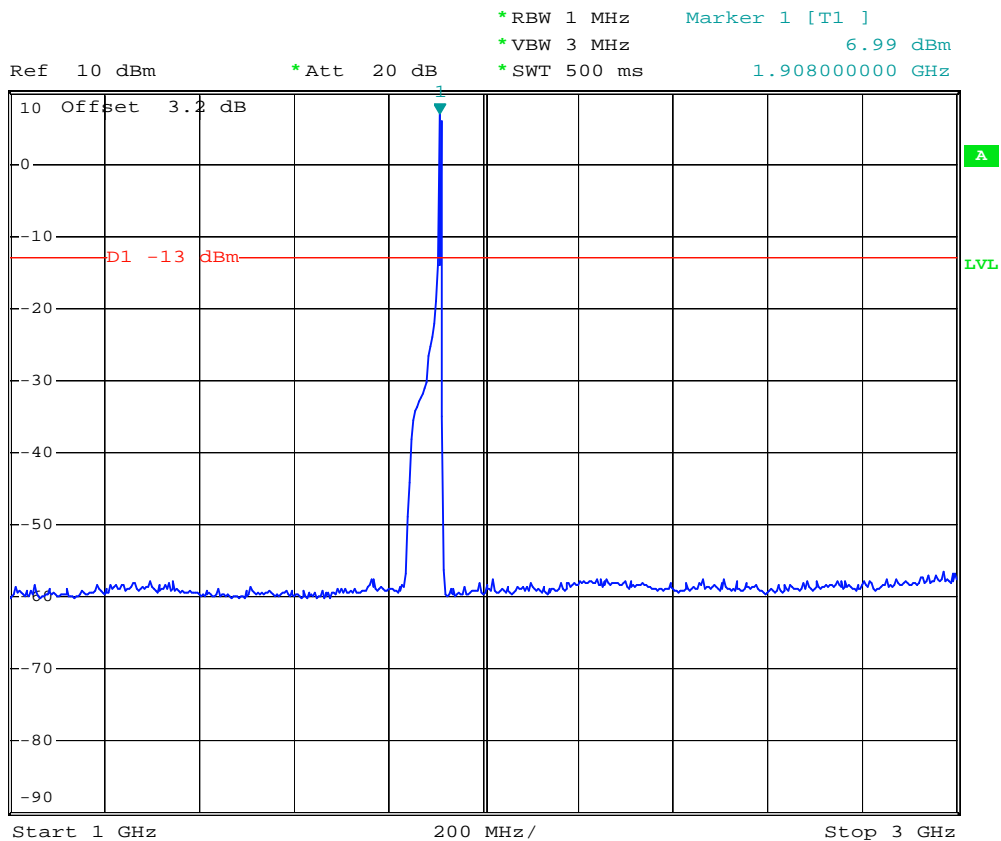
Date: 24.AUG.2006 16:38:03



▪ Frequency Range : 1G-3G



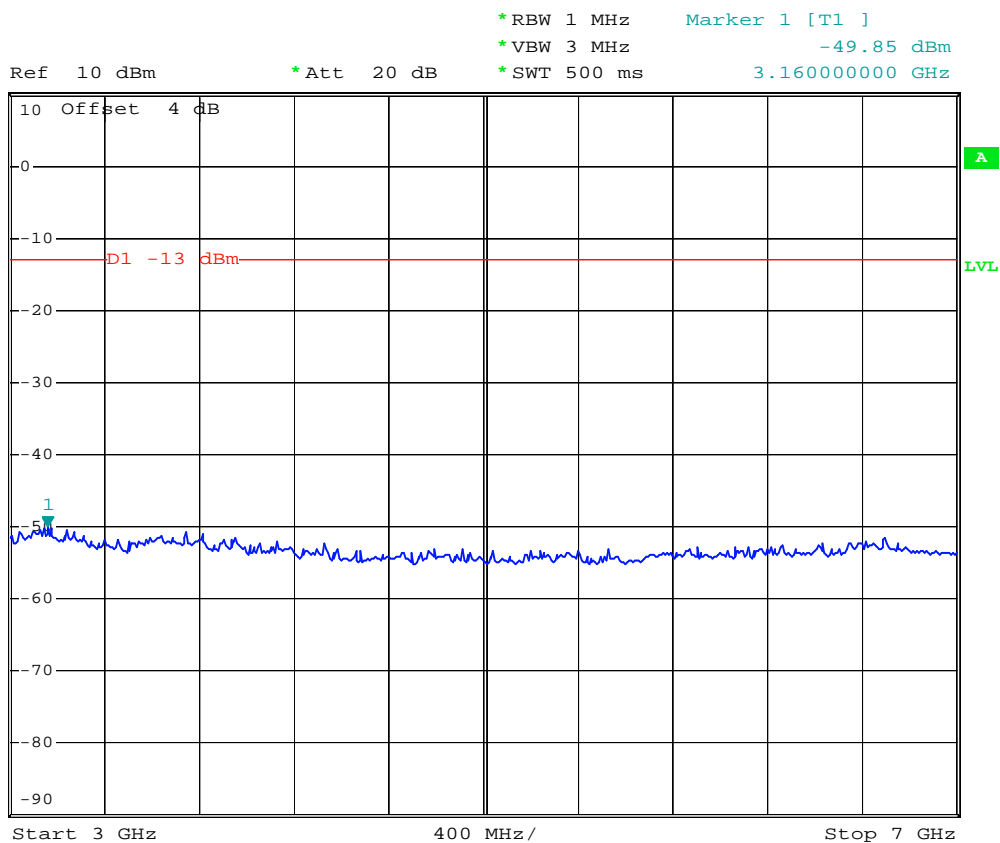
1 PK
VIEW



Date: 24.AUG.2006 16:37:41



▪ Frequency Range : 3G-7G



Date: 24.AUG.2006 16:39:01

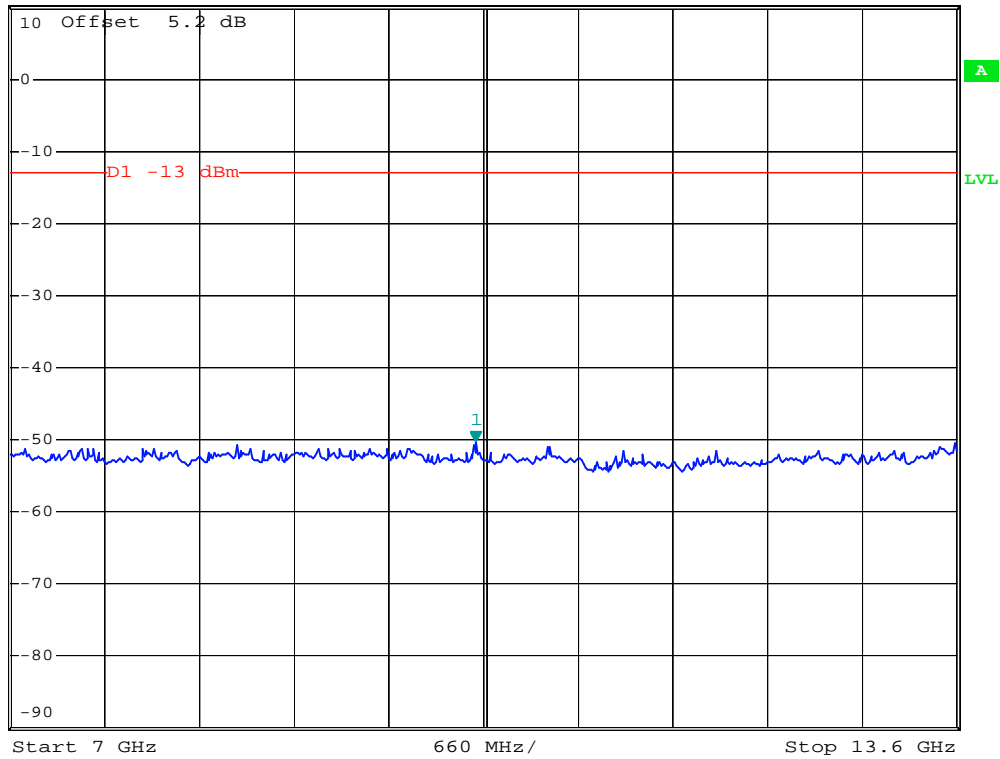


Frequency Range : 7G-13.6G



Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -50.24 dBm
* SWT 500 ms 10.247200000 GHz

1 PK
VIEW



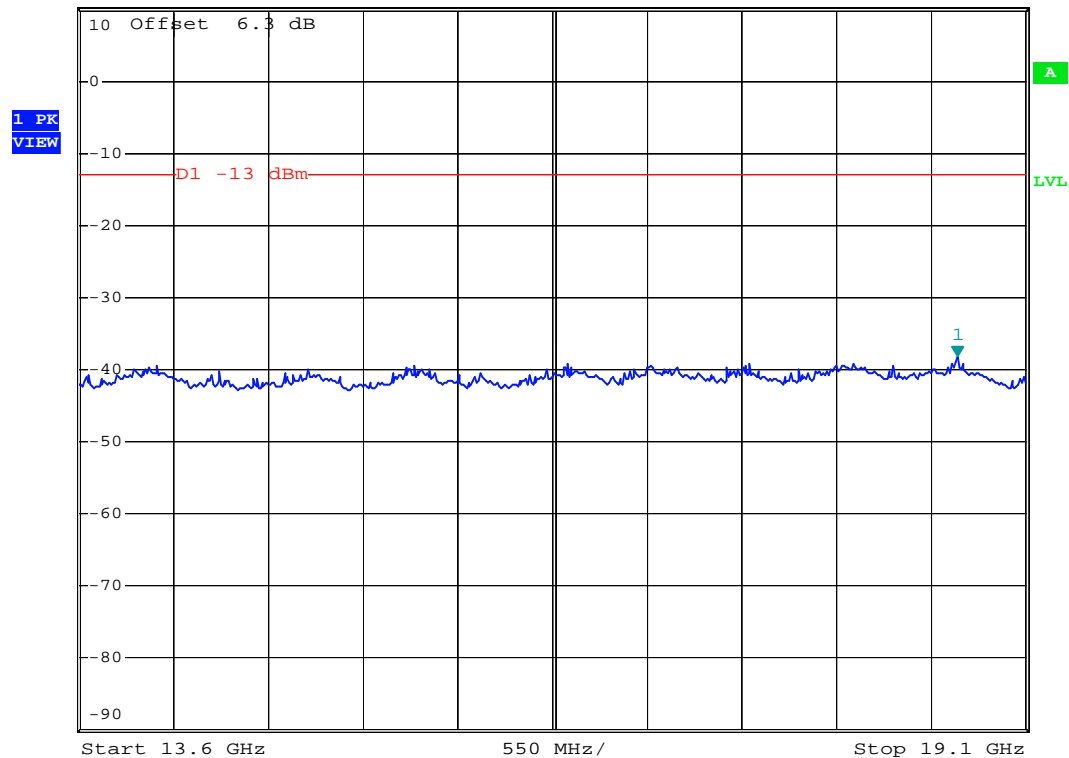
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Frequency Range : 13.6G-19.1G



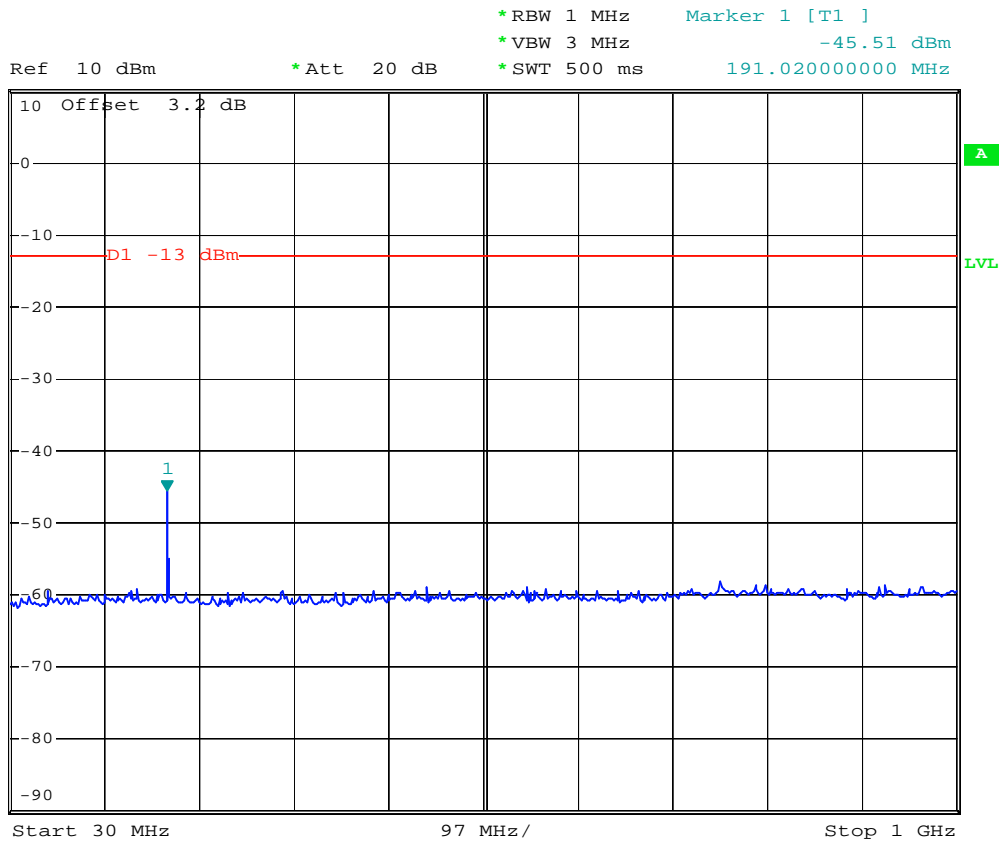
Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -38.22 dBm
* SWT 500 ms 18.70400000 GHz



Date: 24.AUG.2006 16:40:50



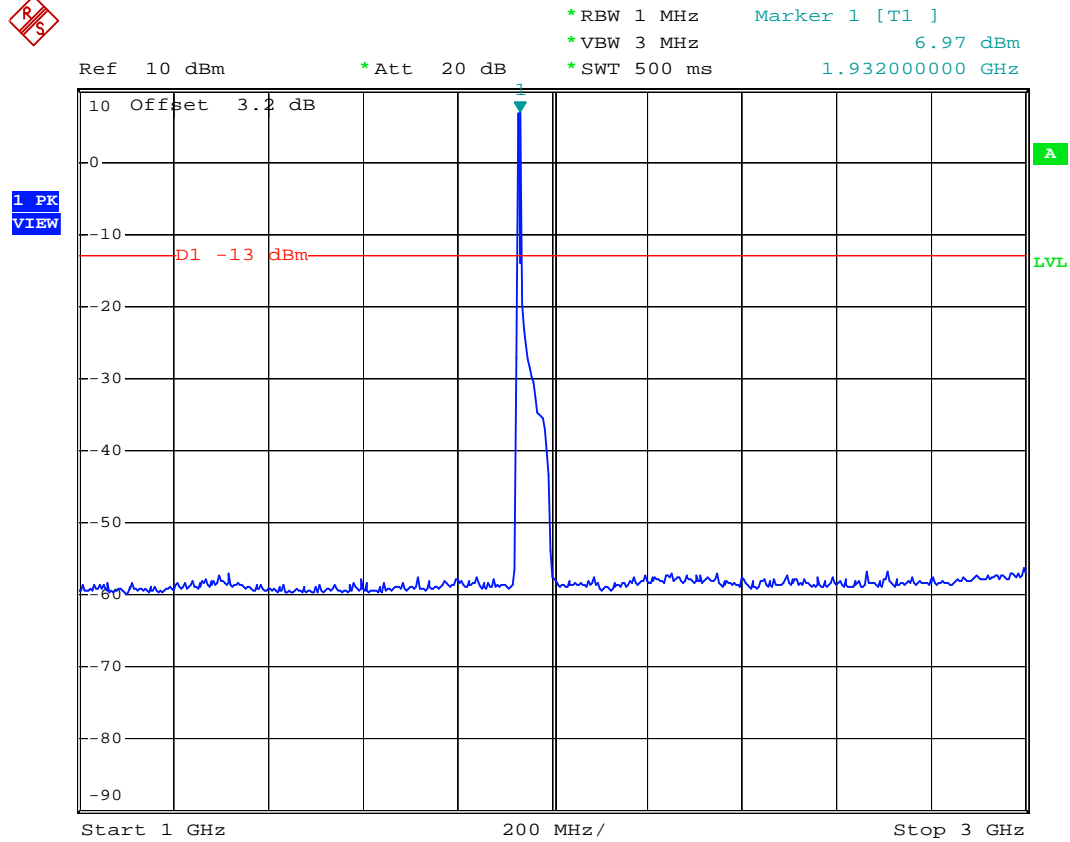
- Test Mode : PCS 1930.2 MHz downlink mode
- Frequency Range : 0.3G-1G



Date: 24.AUG.2006 16:48:20



Frequency Range : 1G-3G



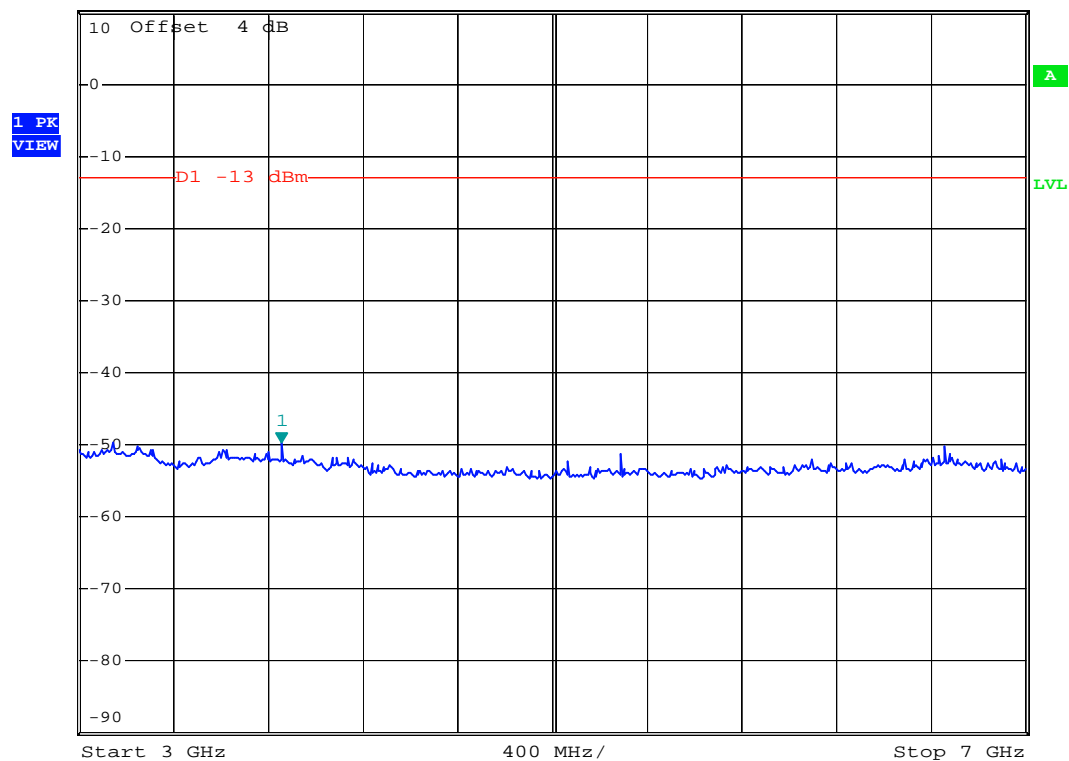
Date: 24.AUG.2006 16:47:47



▪ Frequency Range : 3G-7G



Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -49.59 dBm
* SWT 500 ms 3.856000000 GHz



Date: 24.AUG.2006 16:49:43

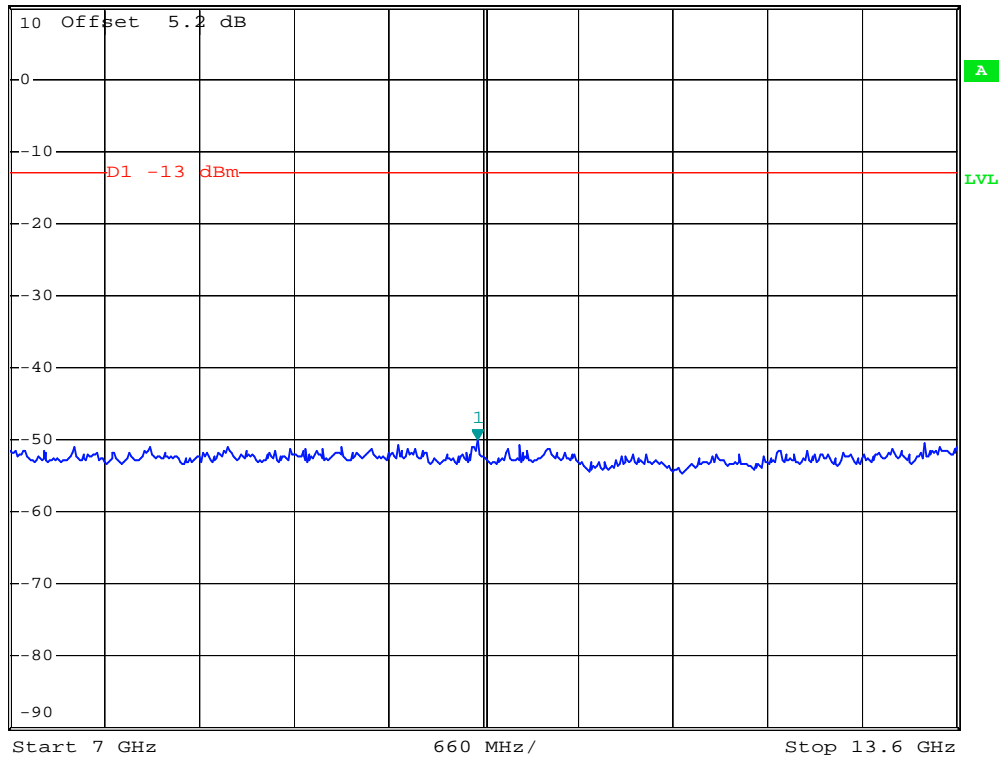


Frequency Range : 7G-13.6G



Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -50.10 dBm
* SWT 500 ms 10.260400000 GHz

1 PK
VIEW



Date: 24.AUG.2006 16:50:36

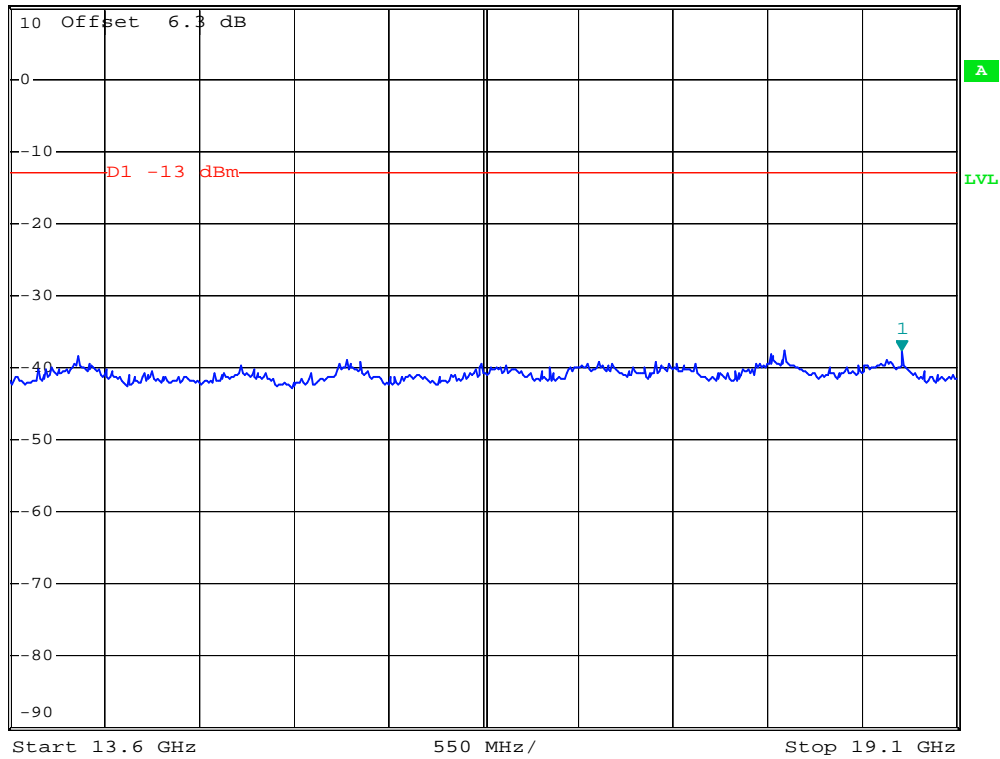


▪ Frequency Range : 13.6G-19.1G



Ref 10 dBm * Att 20 dB * RBW 1 MHz * VBW 3 MHz * SWT 500 ms Marker 1 [T1] -37.72 dBm 18.781000000 GHz

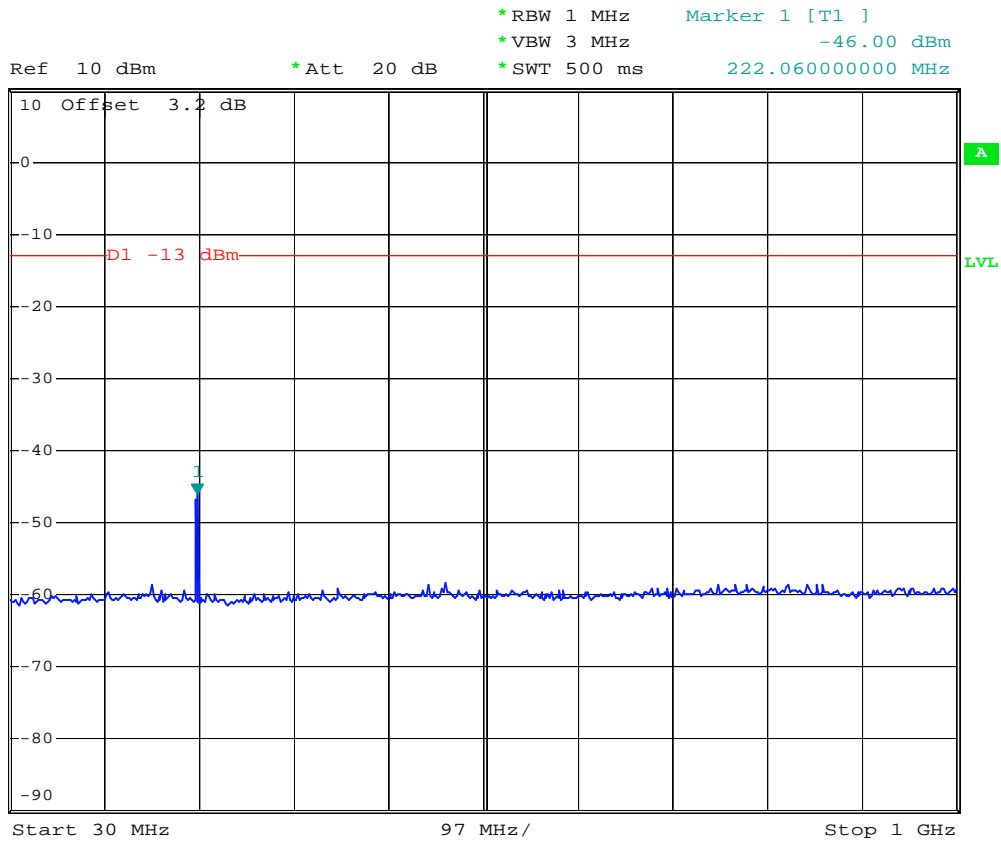
1 PK
VIEW



Date: 24.AUG.2006 16:51:25



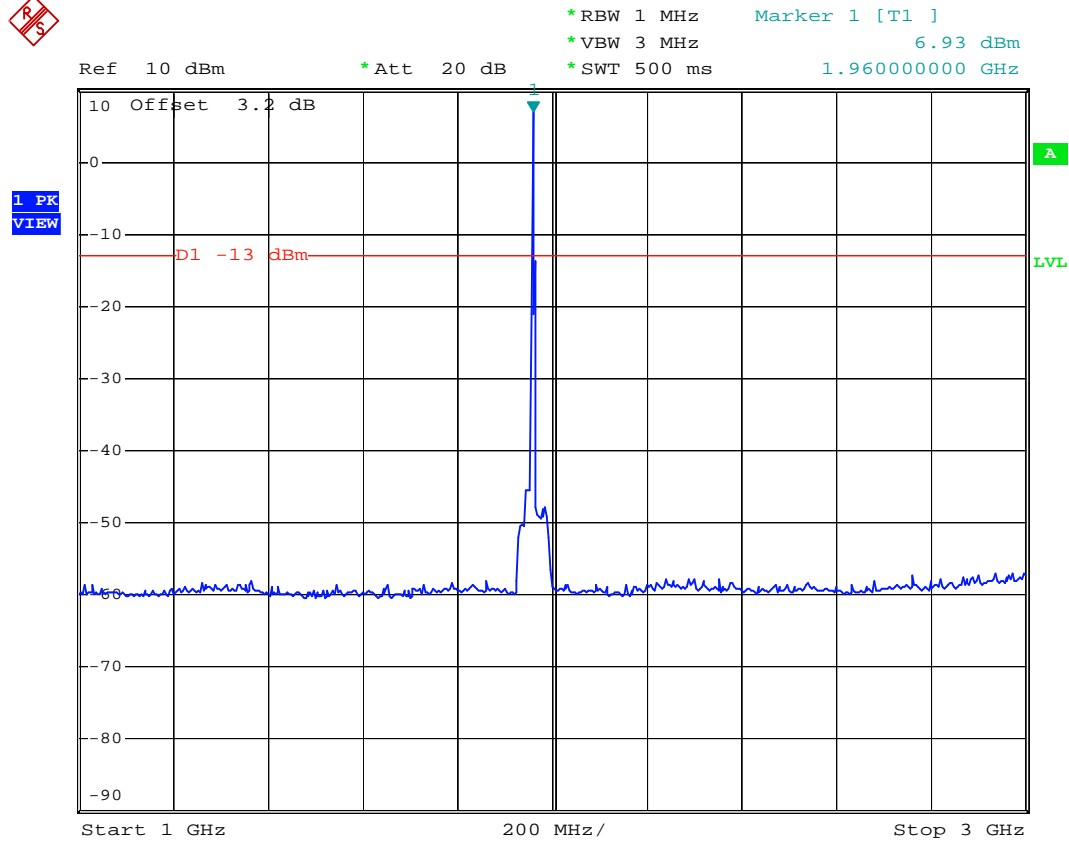
- Test Mode : PCS 1960 MHz downlink mode
- Frequency Range : 0.3G-1G



Date: 10.AUG.2006 18:36:16



Frequency Range : 1G-3G



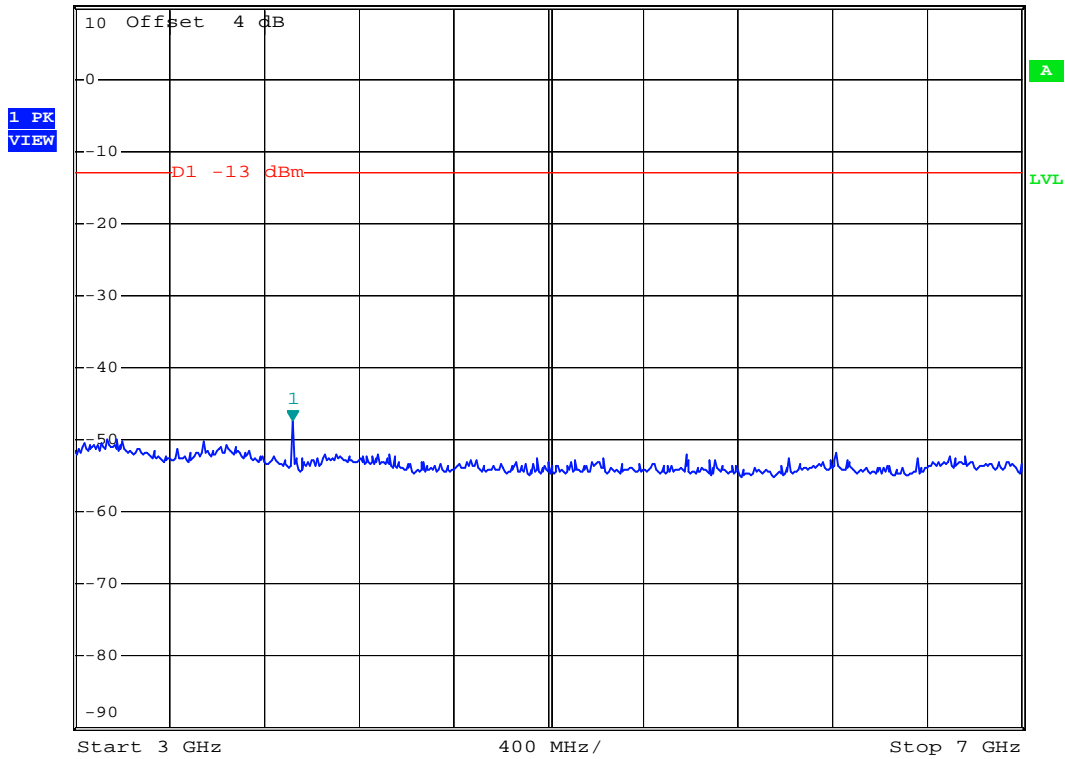
Date: 10.AUG.2006 18:37:08



Frequency Range : 3G-7G



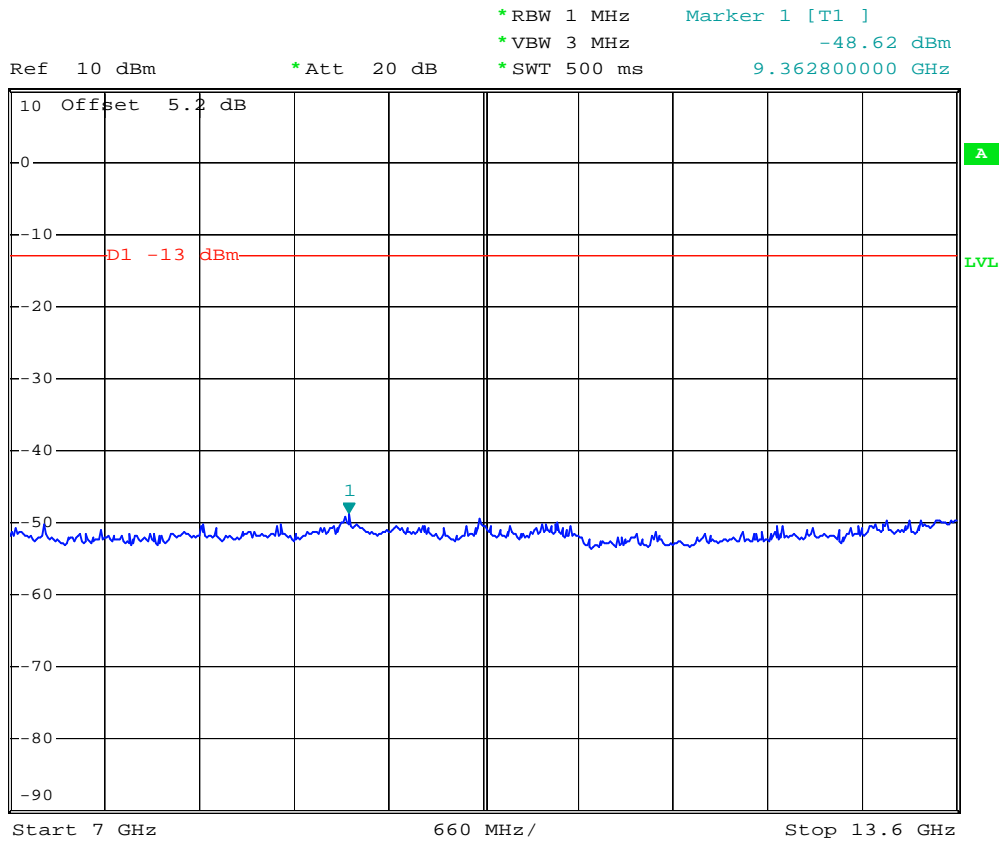
Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -47.26 dBm
* SWT 500 ms 3.920000000 GHz



Date: 10.AUG.2006 18:37:52



Frequency Range : 7G-13.6G



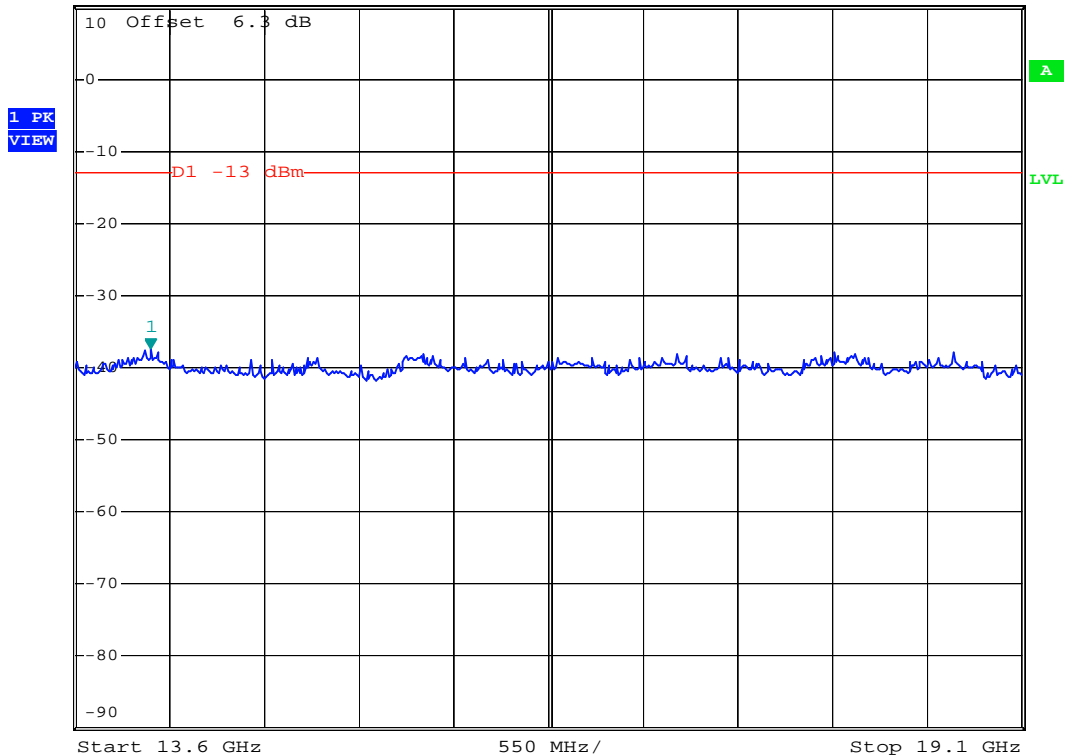
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▪ Frequency Range : 13.6G-19.1G



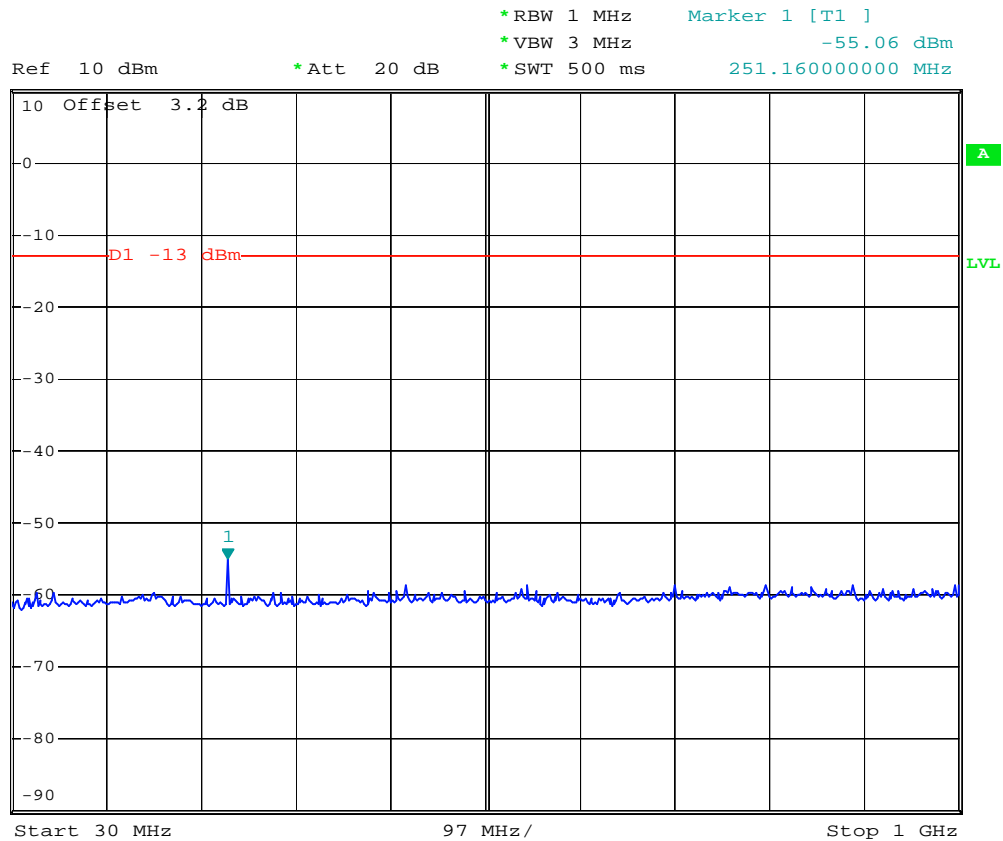
Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -37.33 dBm
* SWT 500 ms 14.04000000 GHz



Date: 10.AUG.2006 18:40:13



- Test Mode : PCS 1989.8 MHz downlink mode
- Frequency Range : 0.3G-1G



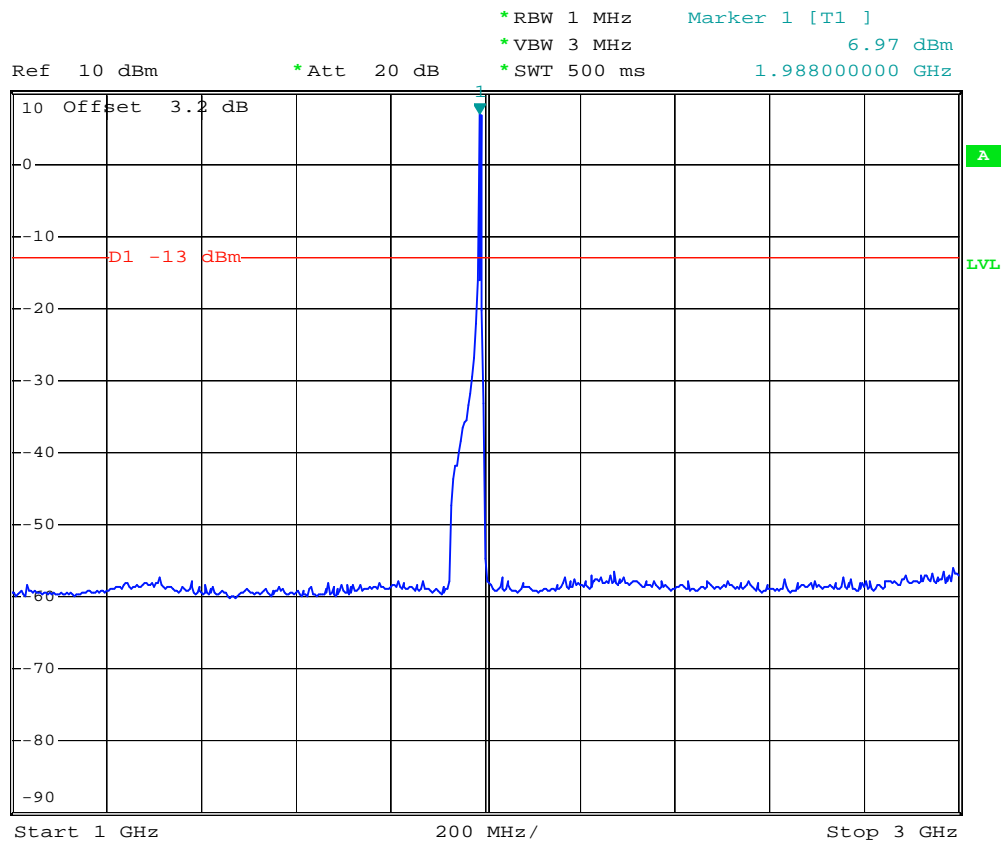
Date: 24.AUG.2006 16:54:17



Frequency Range : 1G-3G



1 PK
VIEW



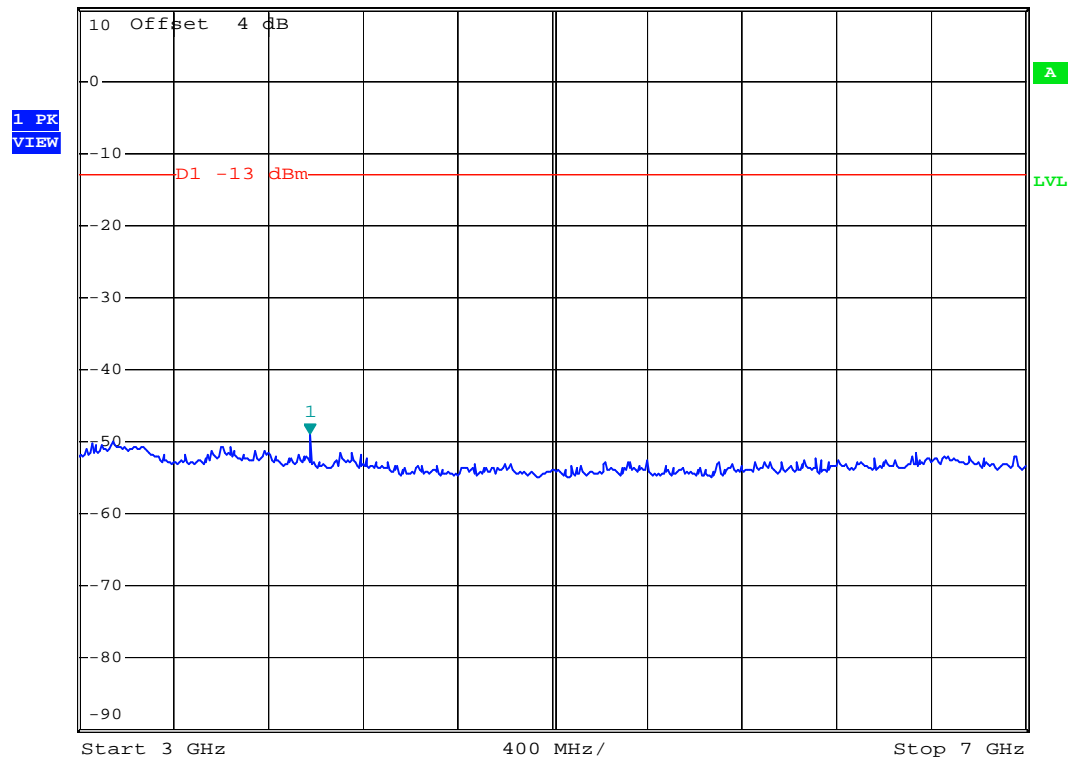
Date: 24.AUG.2006 16:53:44



Frequency Range : 3G-7G



Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -48.86 dBm
* SWT 500 ms 3.976000000 GHz



Date: 24.AUG.2006 17:03:18

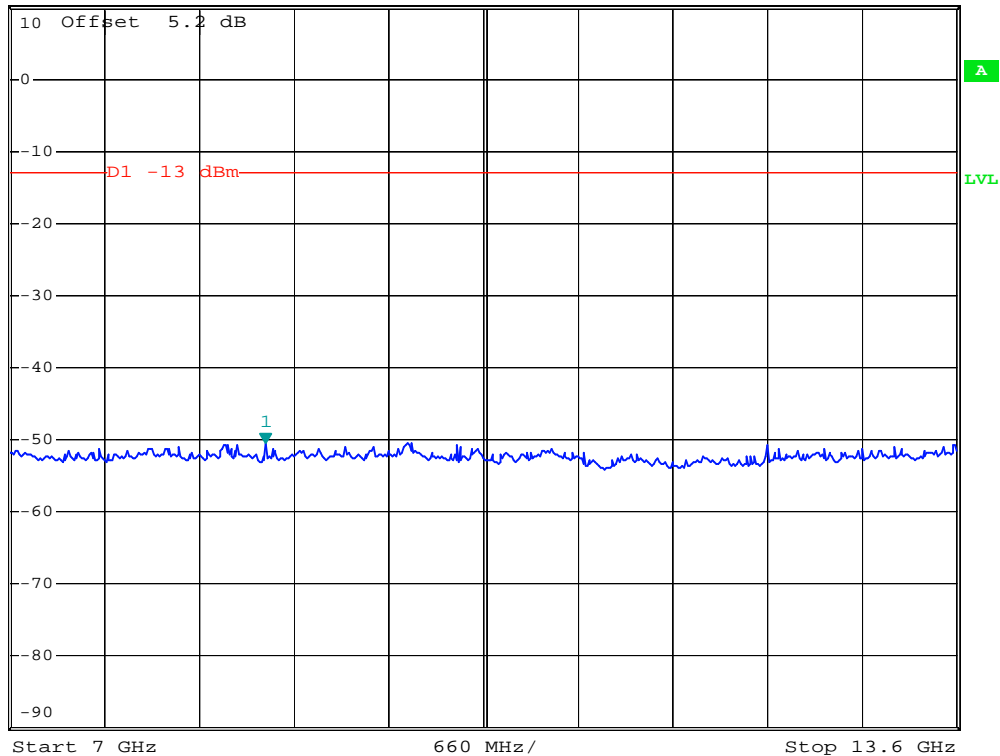


▪ Frequency Range : 7G-13.6G



Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -50.54 dBm
* SWT 500 ms 8.782000000 GHz

1 PK
VIEW



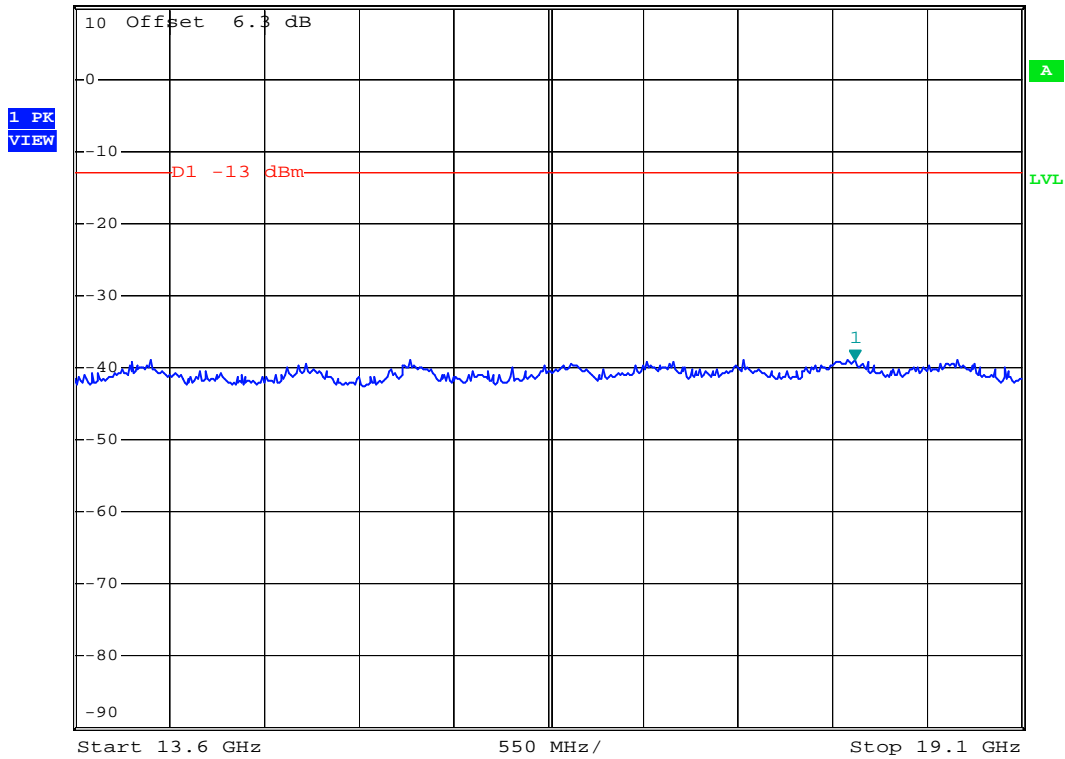
Date: 24.AUG.2006 17:04:11



- Frequency Range : 13.6G-19.1G



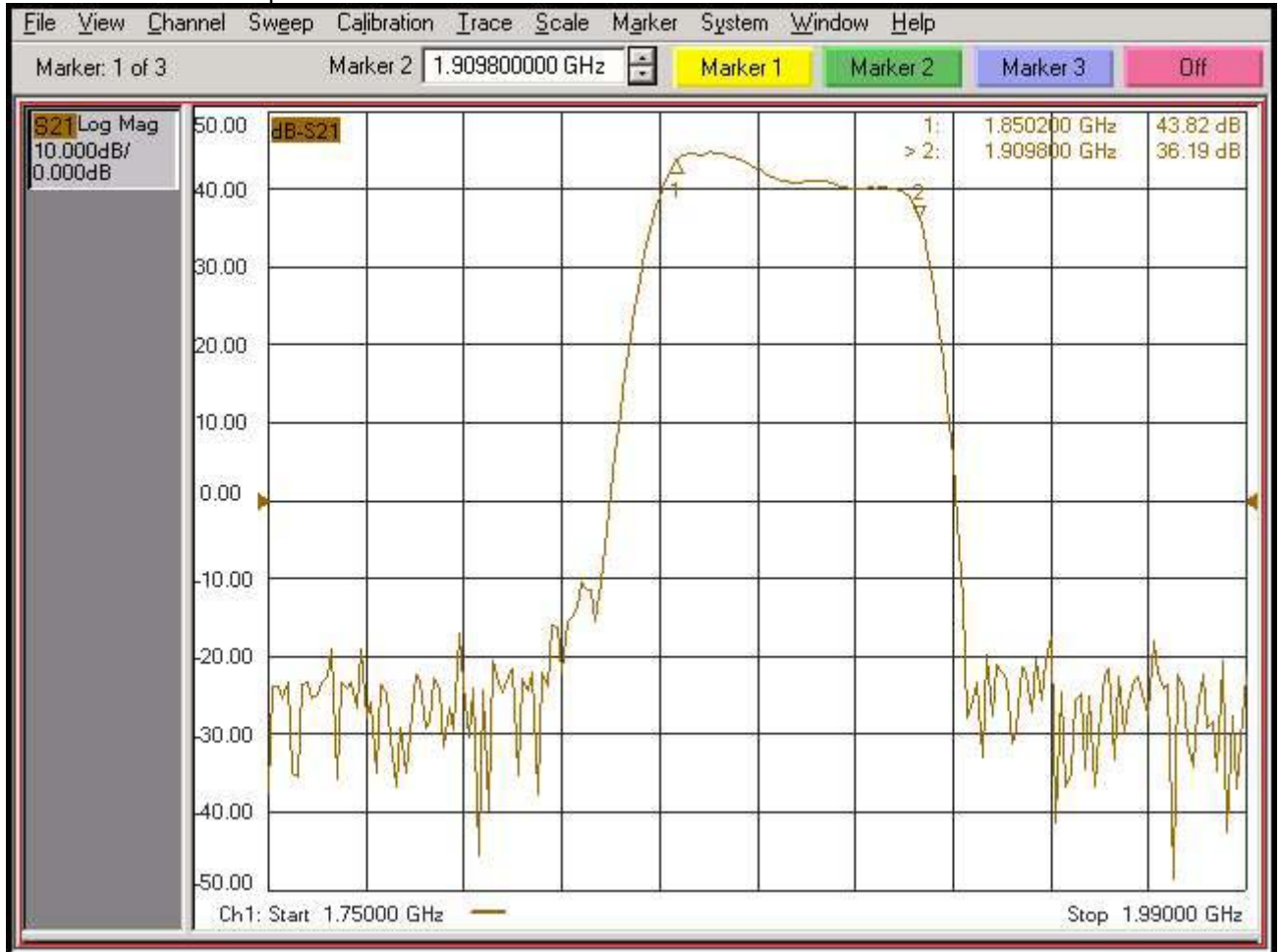
Ref 10 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -38.83 dBm
* SWT 500 ms 18.13200000 GHz



Date: 24.AUG.2006 16:56:58

4.4.8.2 Out of Band Rejection: Filter Frequency response

- Test Mode : PCS uplink mode





- Test Mode : PCS downlink mode

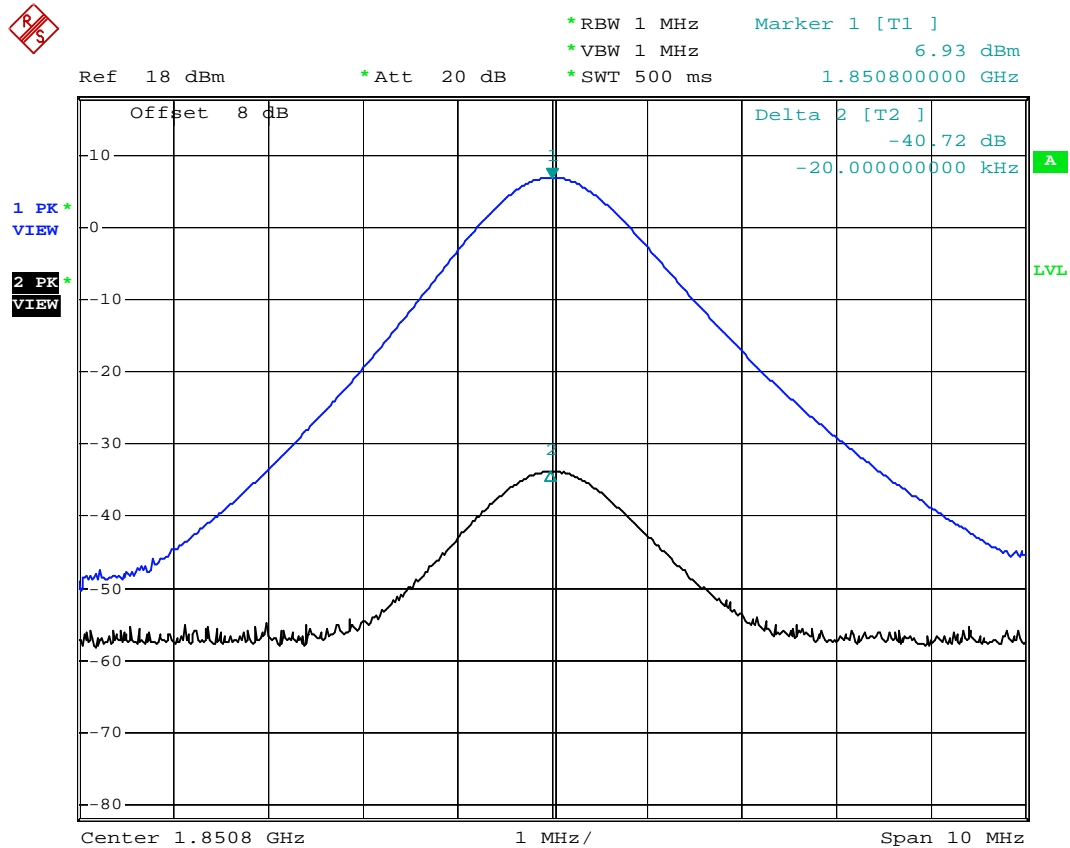




4.4.8.3 Intermodulation

➤ Maximum Output Power for CW signal from EUT.

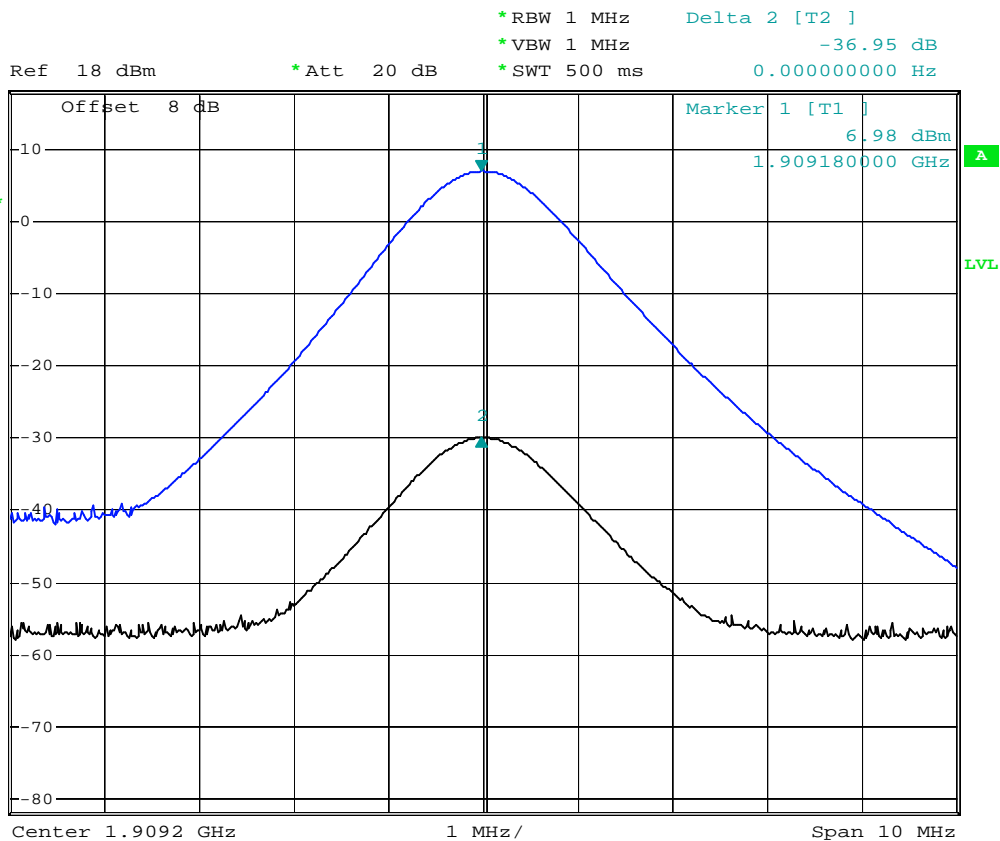
- Test Item: Peak Power
- Frequency: PCS 1850.8MHz



Date: 25.AUG.2006 20:00:41



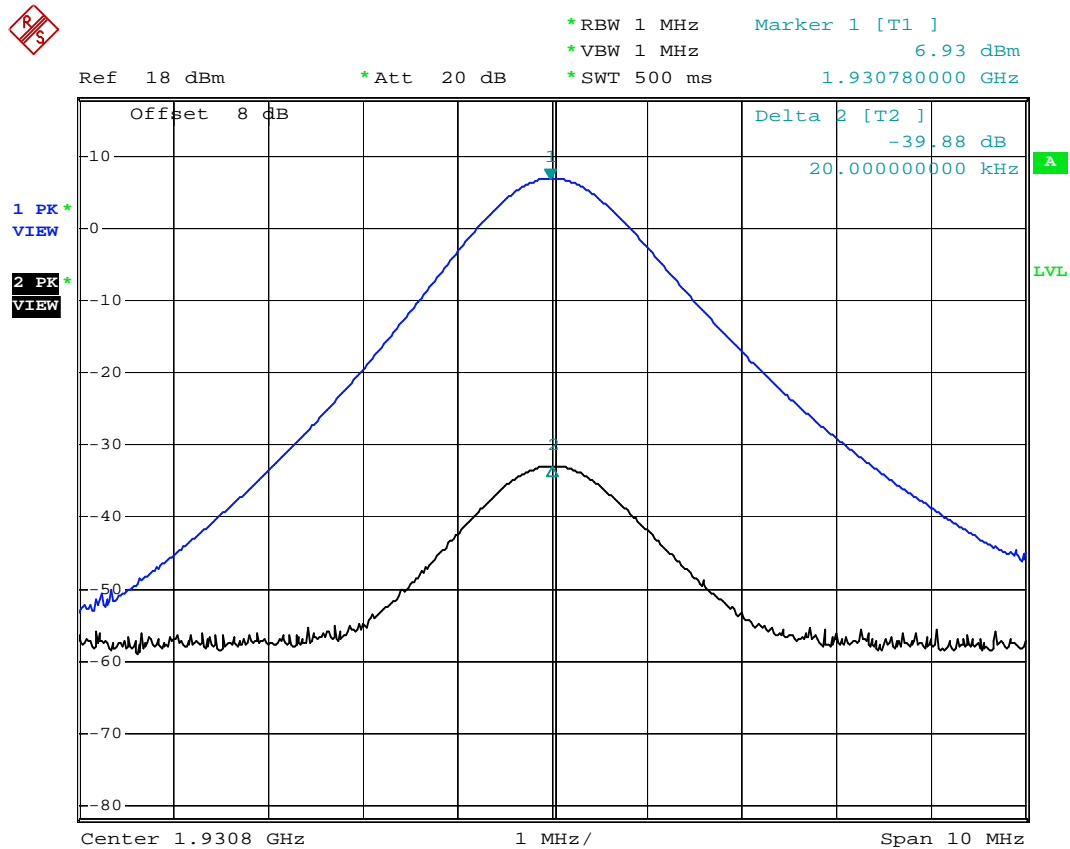
Frequency: PCS 1909.2MHz



Date: 25.AUG.2006 20:02:50



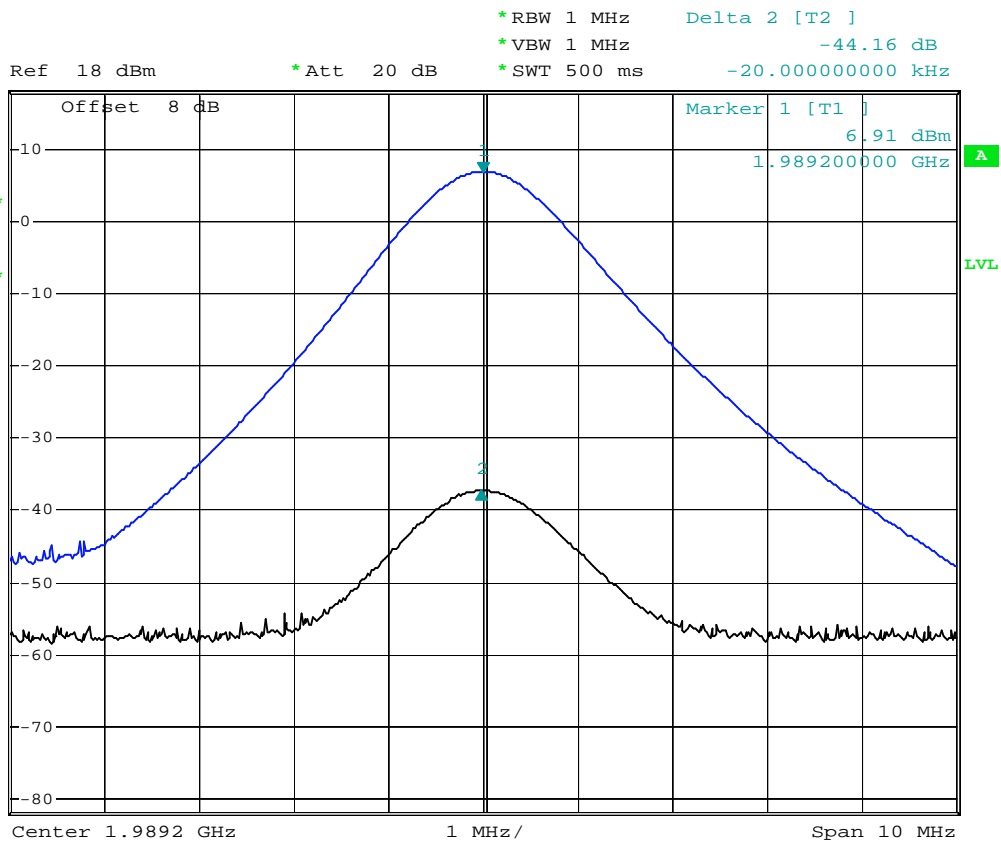
- Frequency: PCS 1930.8MHz



Date: 25.AUG.2006 20:04:43



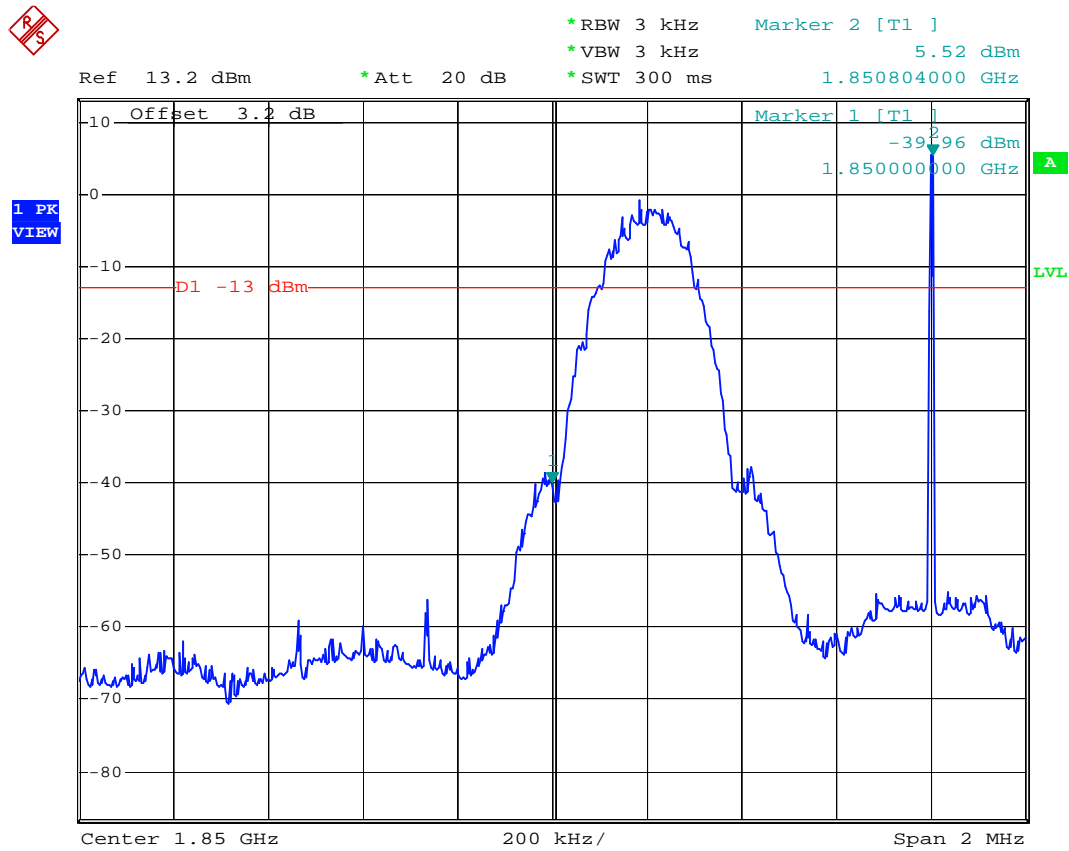
Frequency: PCS 1989.2MHz



Date: 25.AUG.2006 20:07:04



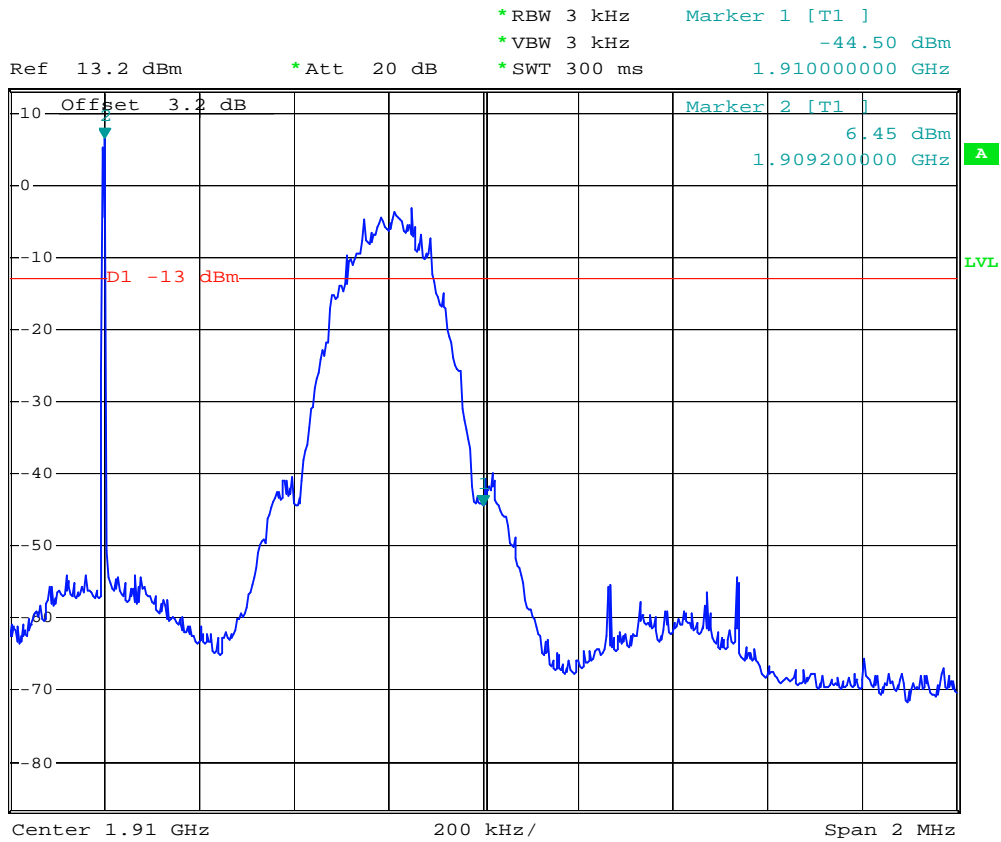
- Test Item: Band Edge
- Frequency: PCS 1850.8MHz



Date: 25.AUG.2006 20:27:03



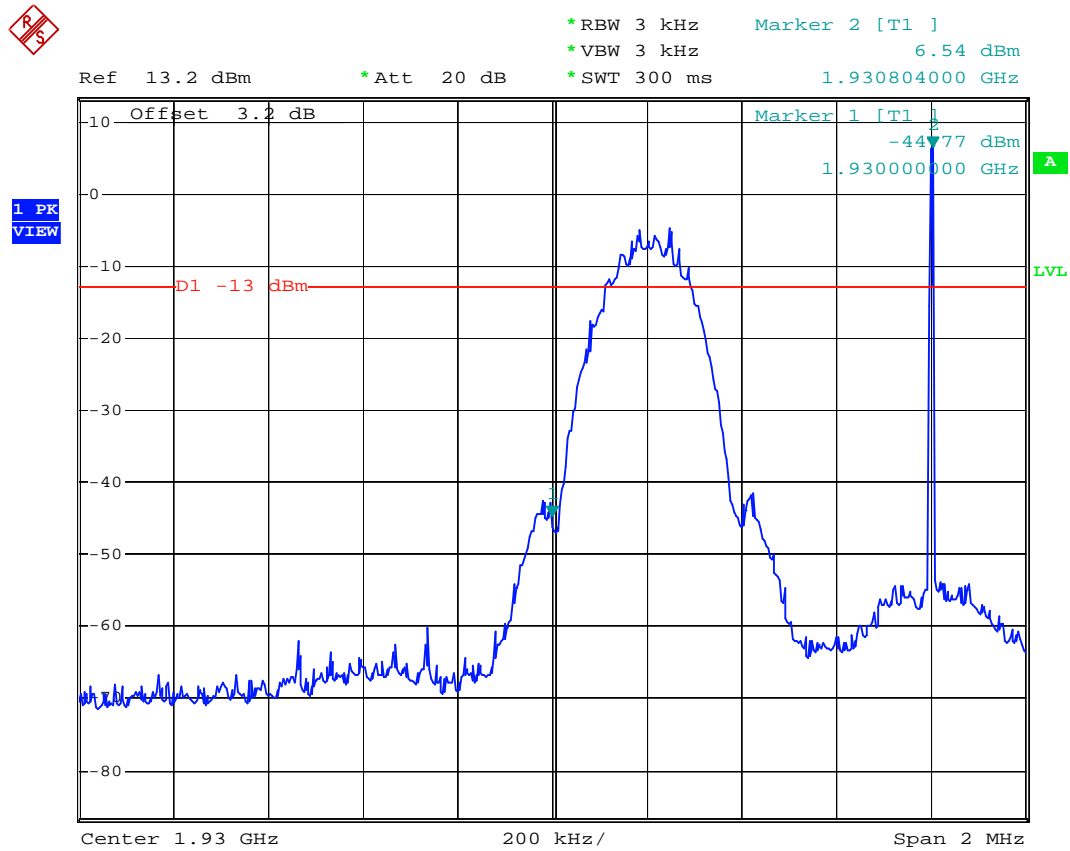
- Frequency: PCS 1909.2MHz



Date: 25.AUG.2006 20:31:26



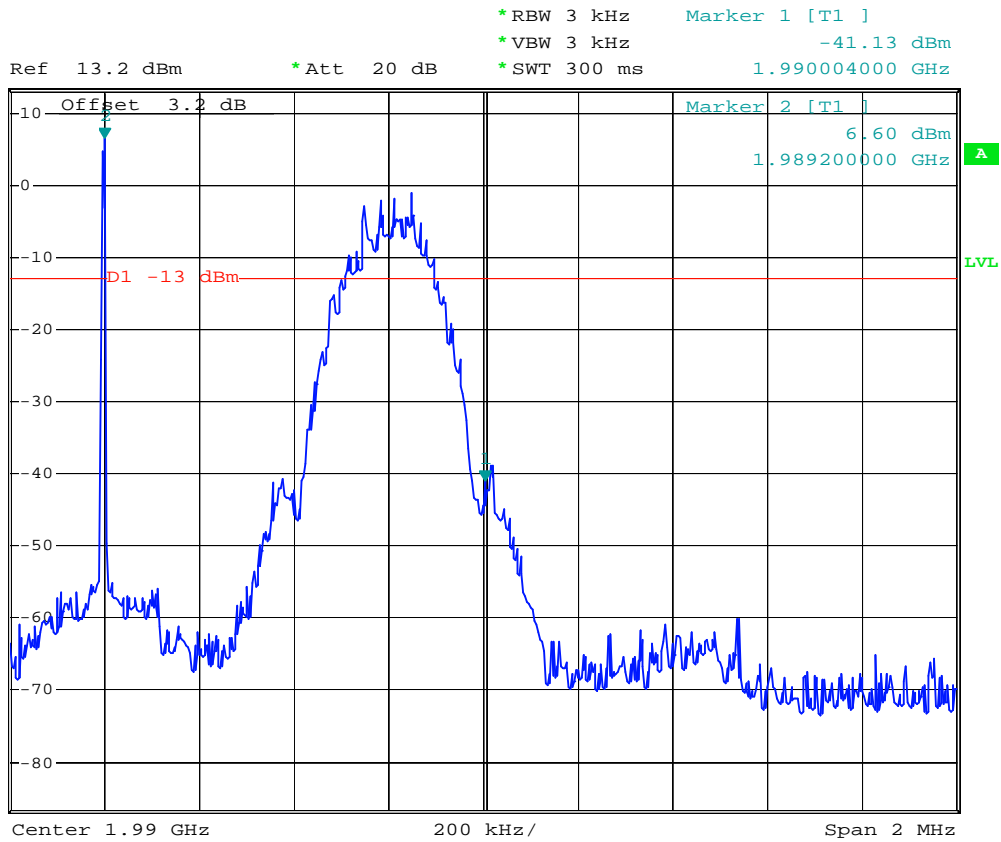
- Frequency: PCS 1930.8MHz



Date: 25.AUG.2006 20:46:47



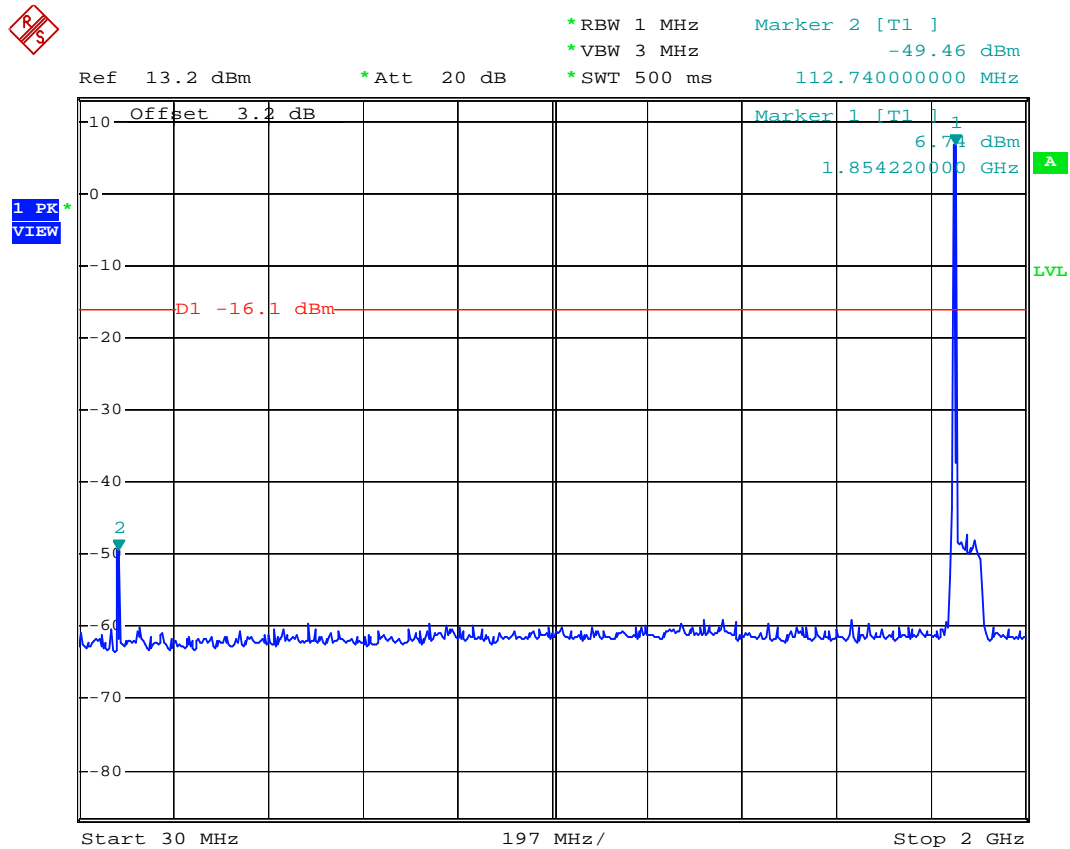
- Frequency: PCS 1989.2MHz



Date: 25.AUG.2006 20:49:41



- Test Item: Conducted Spurious
- Test Mode: PCS 1850.8MHz Uplink Mode
- Frequency Range: 0.3G-2G



Date: 25.AUG.2006 20:39:06

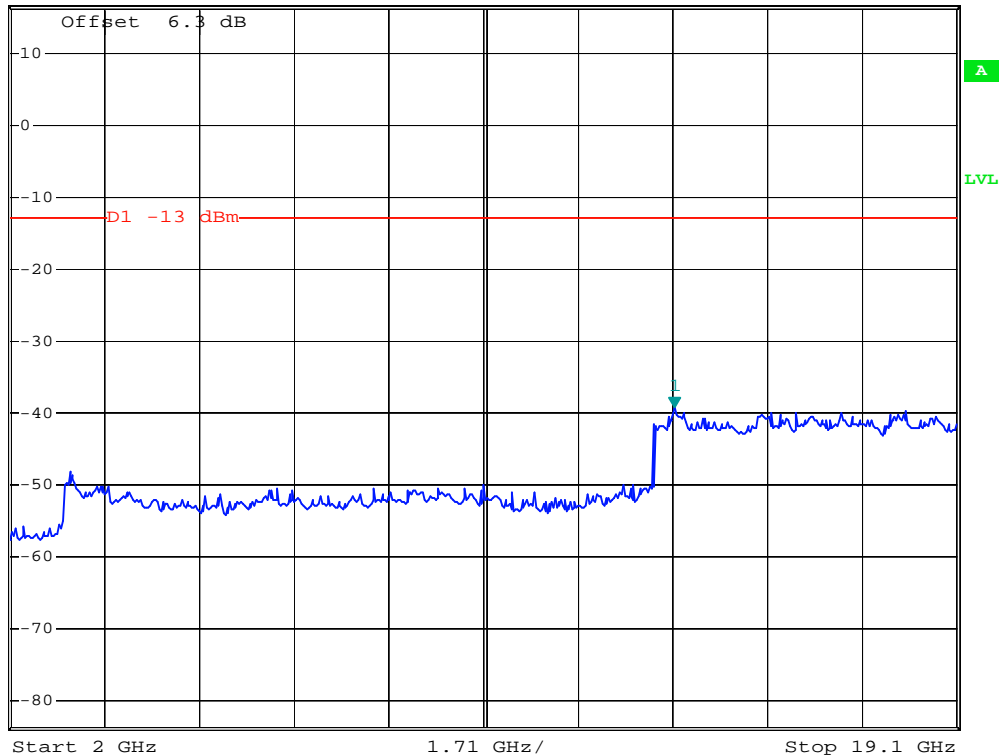


- Frequency Range: 2G-19.1G



Ref 16.3 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -39.10 dBm
* SWT 500 ms 14.004200000 GHz

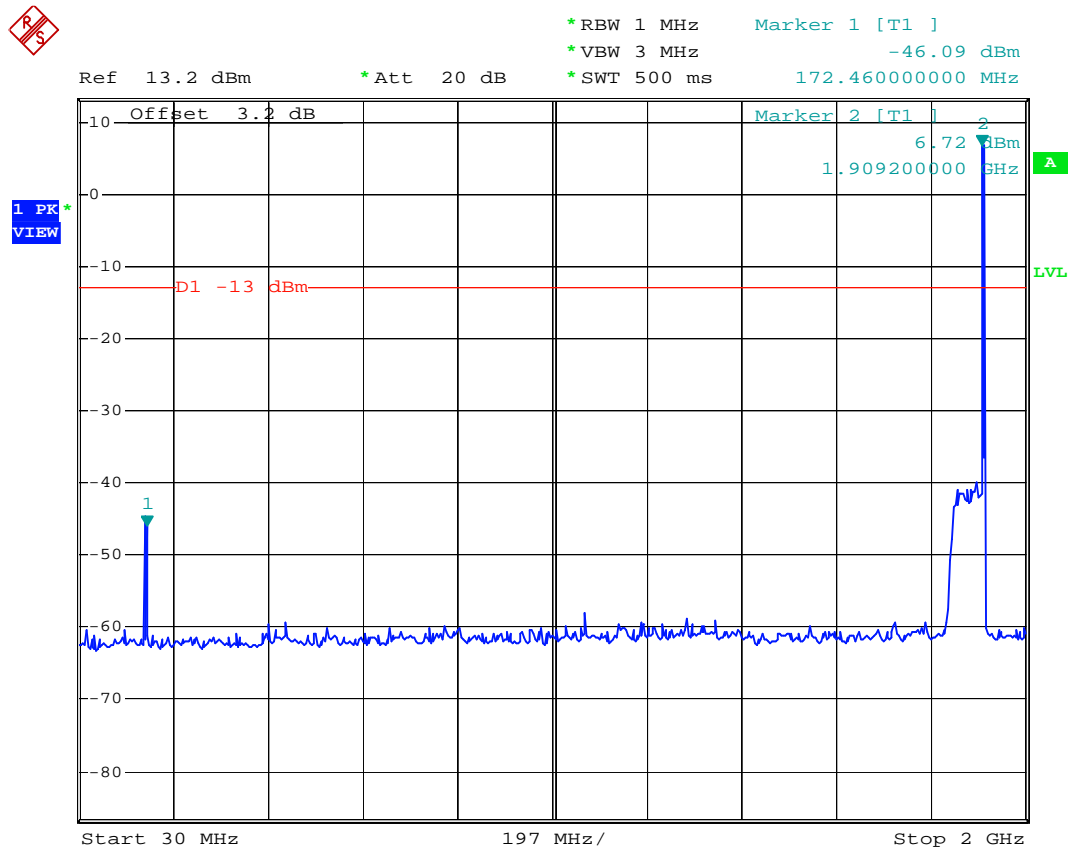
1 PK
VIEW



Date: 25.AUG.2006 20:22:05



- Test Mode: PCS 1909.2MHz Uplink Mode
- Frequency Range: 0.3G-2G



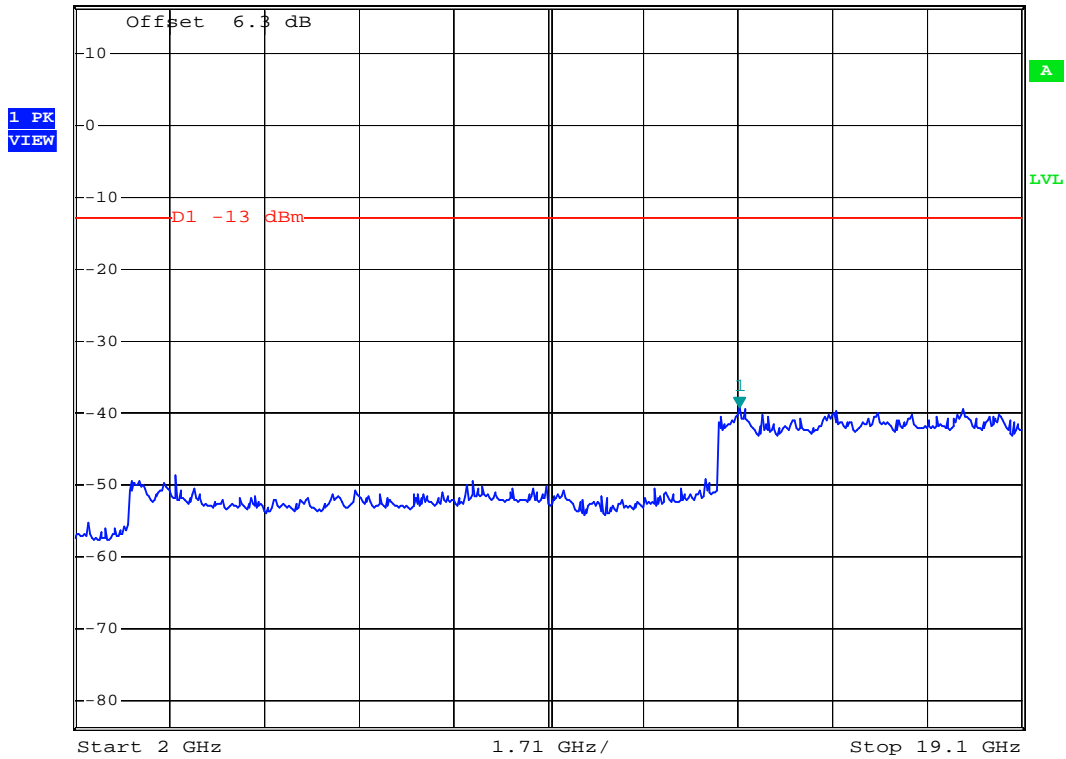
Date: 25.AUG.2006 20:33:34



Frequency Range: 2G-19.1G



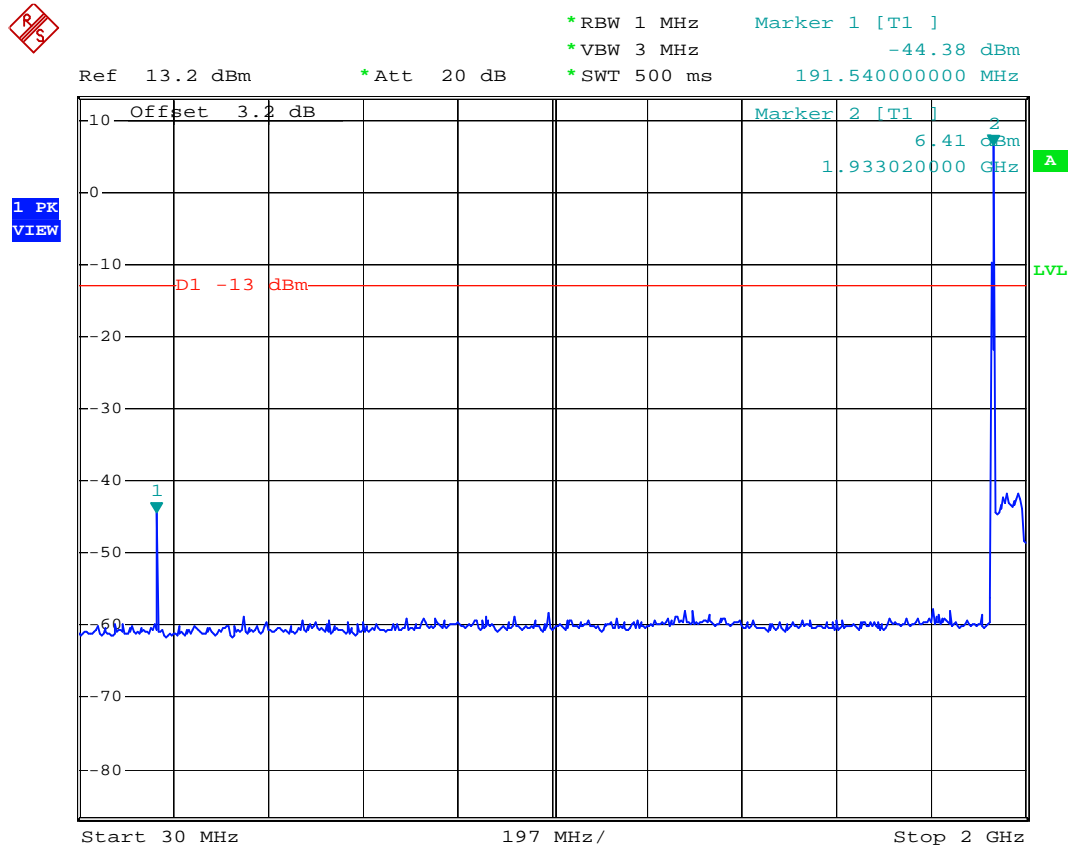
Ref 16.3 dBm * Att 20 dB * RBW 1 MHz * VBW 3 MHz * SWT 500 ms Marker 1 [T1] -39.14 dBm 14.004200000 GHz



Date: 25.AUG.2006 20:34:35



- Test Mode: PCS 1930.8MHz Downlink Mode
- Frequency Range: 0.3G-2G



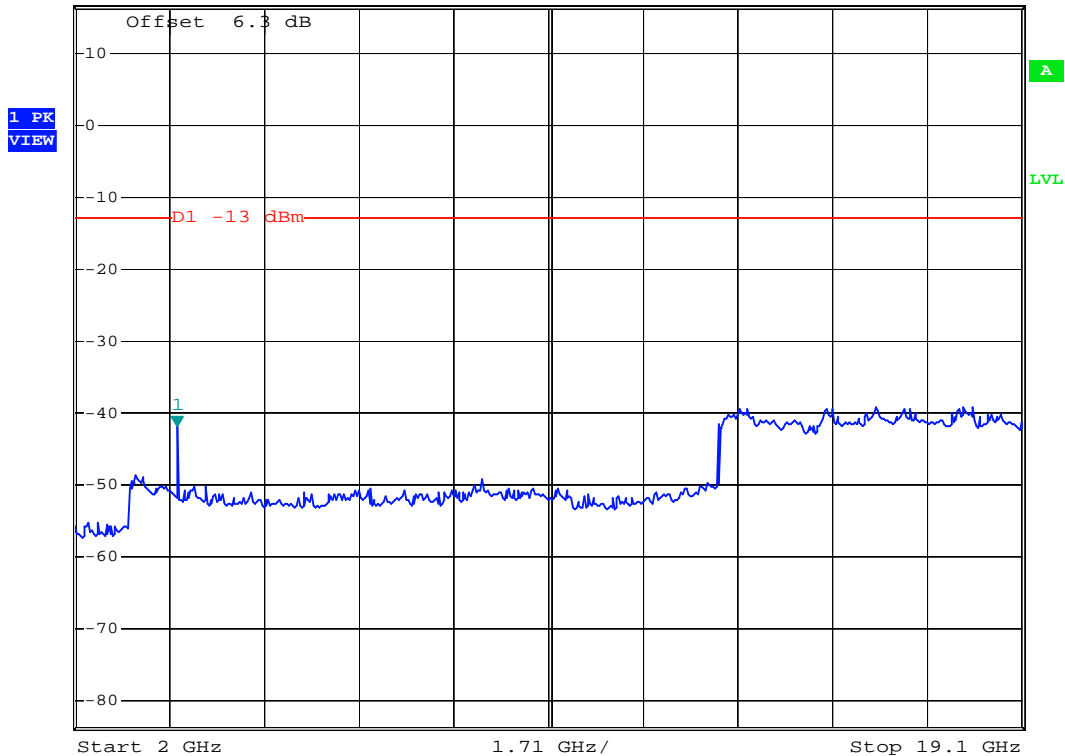
Date: 25.AUG.2006 20:41:27



▪ Frequency Range: 2G-19.1G



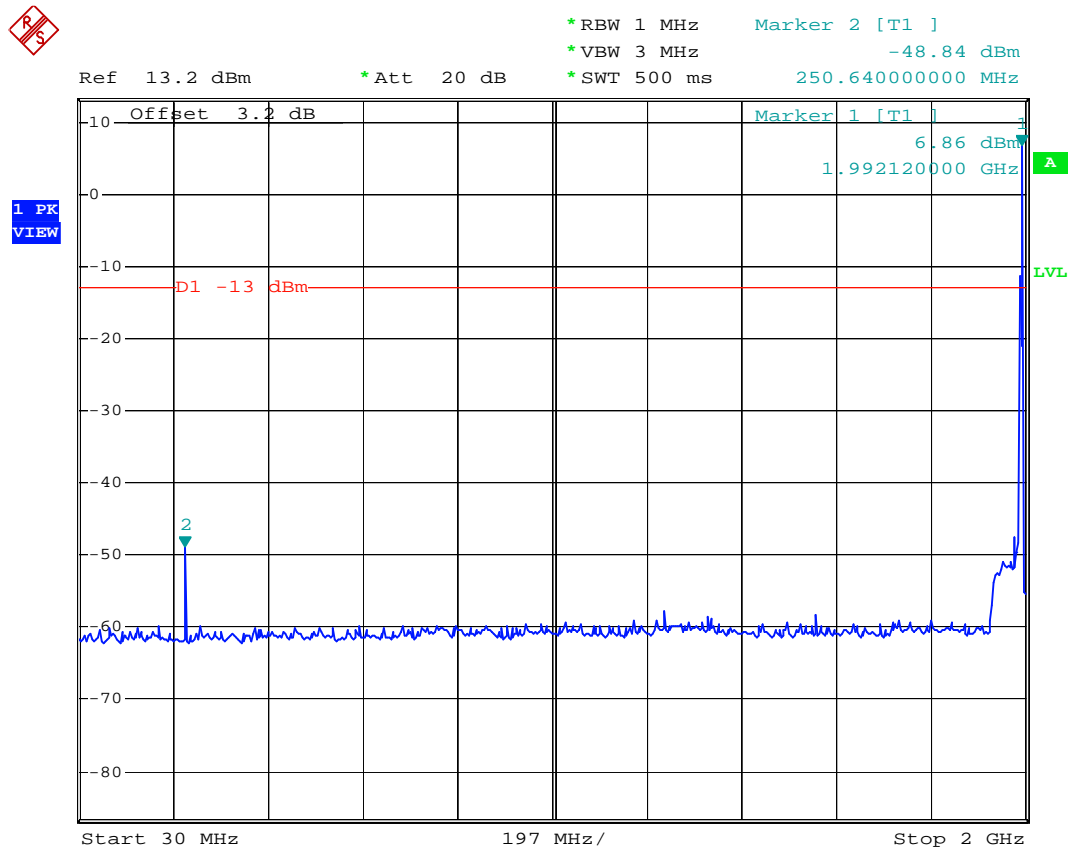
Ref 16.3 dBm * Att 20 dB * RBW 1 MHz * VBW 3 MHz * SWT 500 ms Marker 1 [T1] -41.89 dBm 3.846800000 GHz



Date: 25.AUG.2006 20:43:04



- Test Mode: PCS 1989.2MHz Downlink Mode
- Frequency Range: 0.3G-2G



Date: 25.AUG.2006 20:52:04

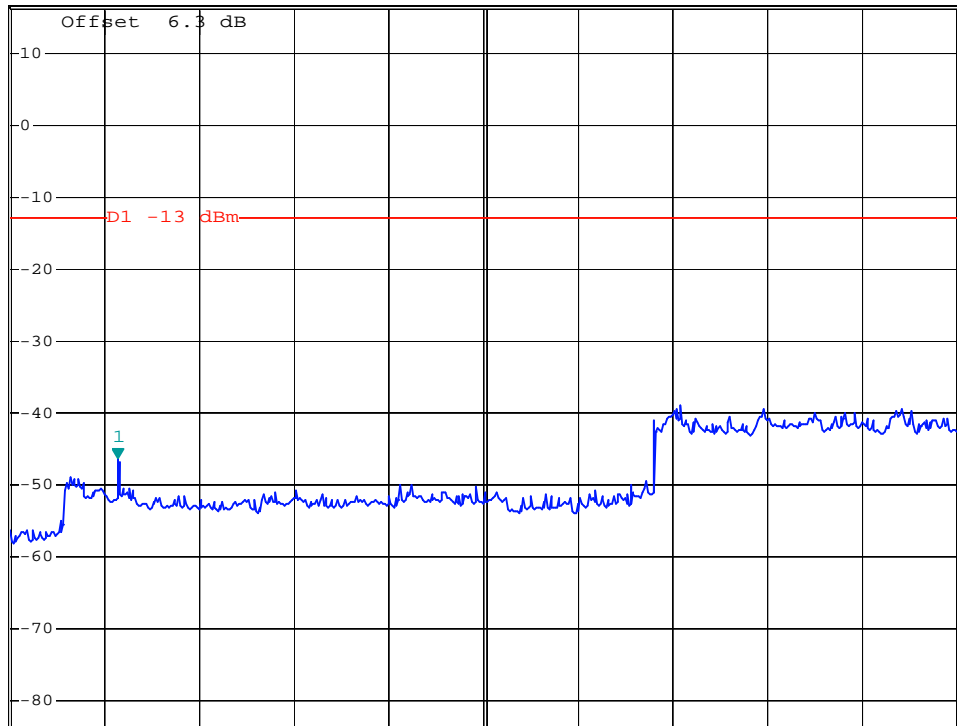


▪ Frequency Range: 2G-19.1G



Ref 16.3 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -46.24 dBm
* SWT 500 ms 3.949400000 GHz

1 PK
VIEW



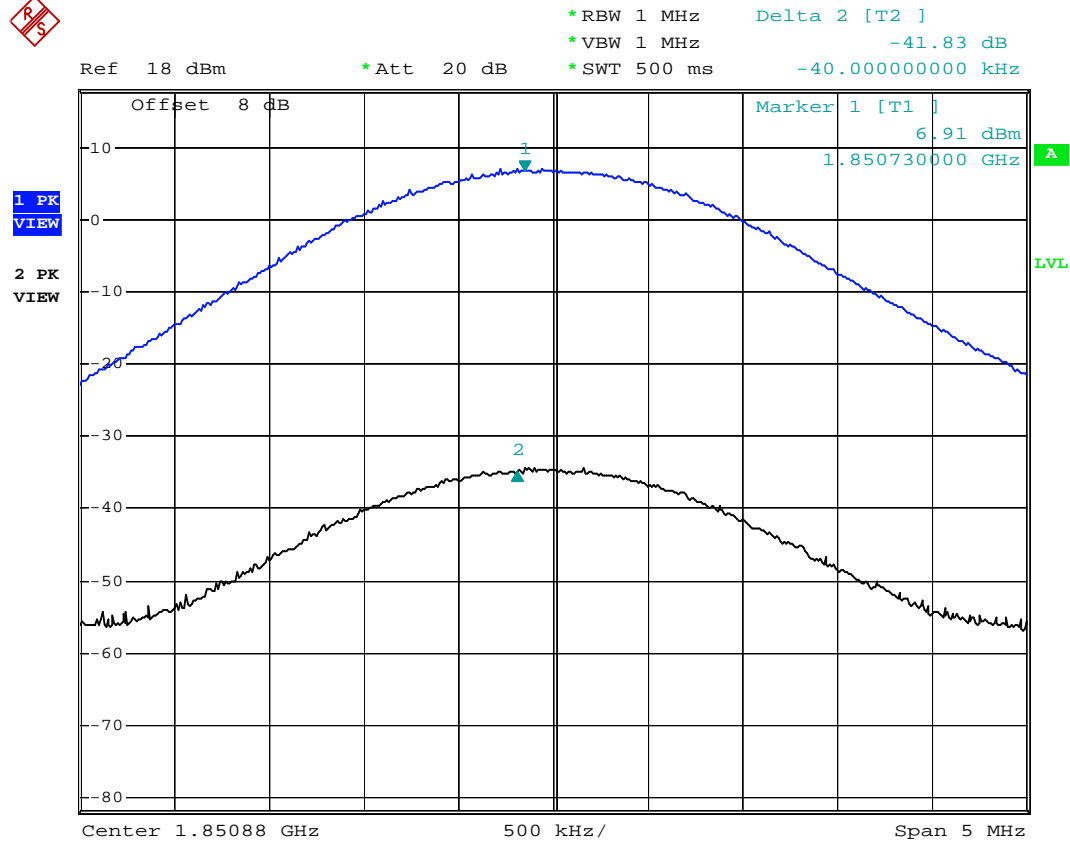
Start 2 GHz 1.71 GHz/ Stop 19.1 GHz

Date: 25.AUG.2006 20:52:53



➤ Maximum Output Power for CDMA signal from EUT.

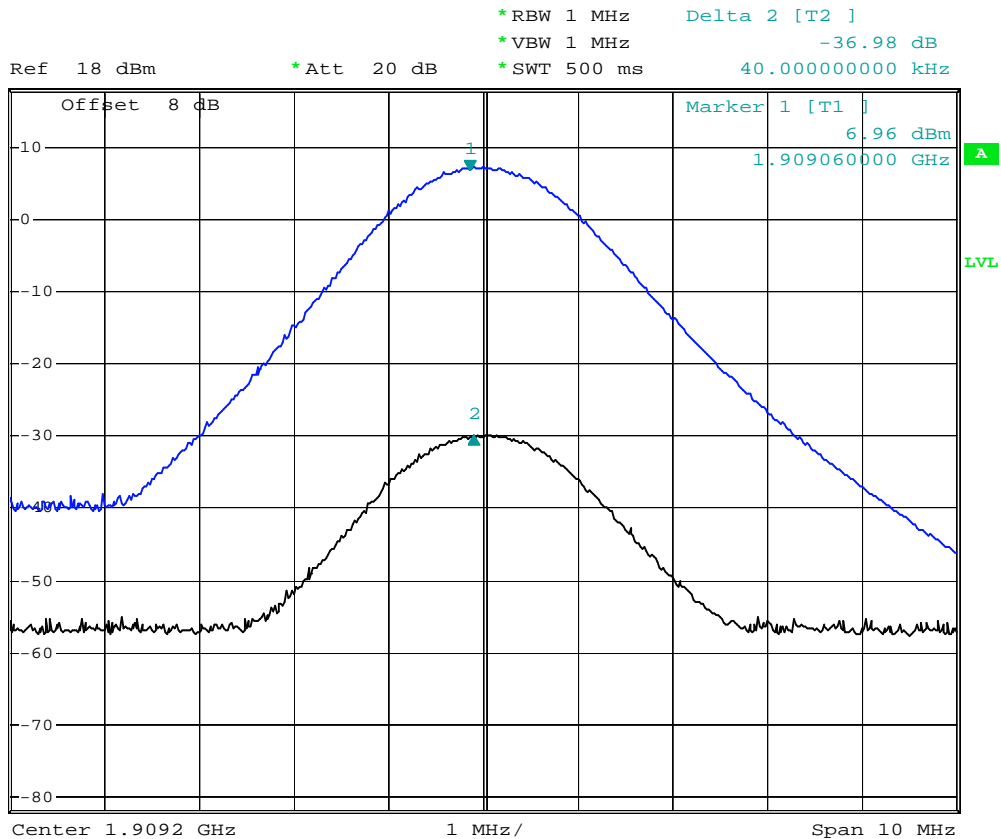
- Test Item: Peak Power
- Frequency: PCS 1850.8MHz



Date: 25.AUG.2006 18:42:27



Frequency: PCS 1909.2MHz



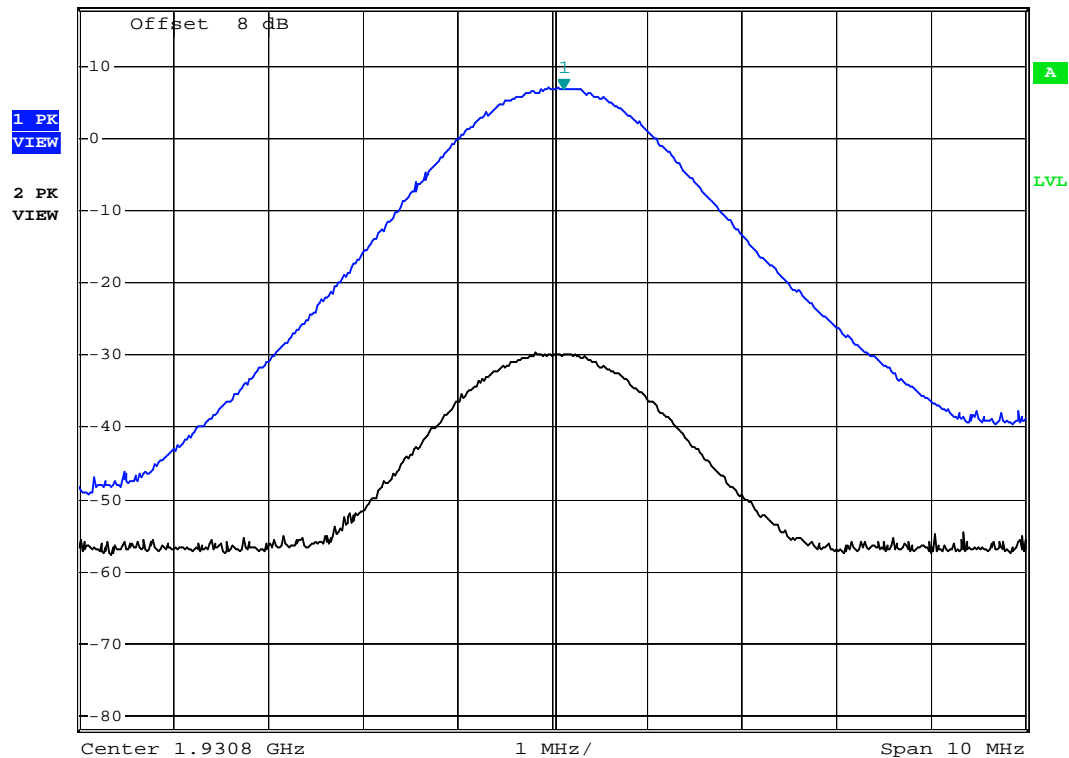
Date: 25.AUG.2006 19:48:19



- Frequency: PCS 1930.8MHz



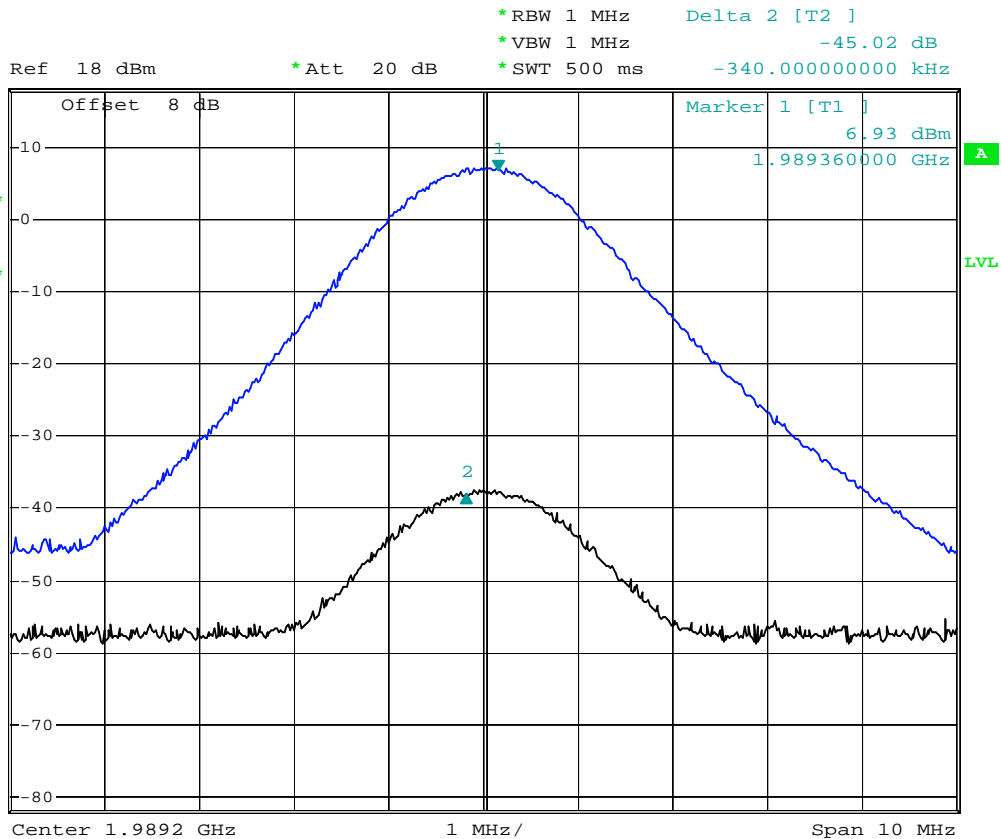
Ref 18 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 1 MHz 6.96 dBm
* SWT 500 ms 1.930920000 GHz



Date: 25.AUG.2006 19:51:22



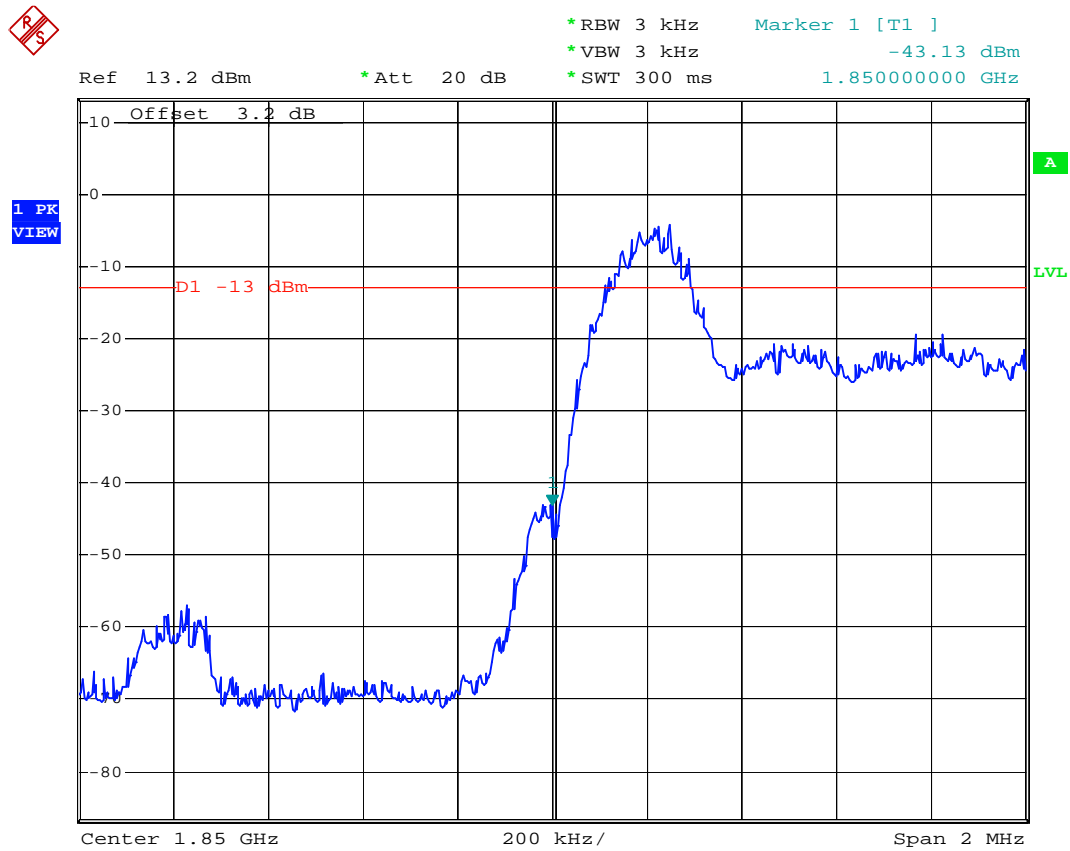
Frequency: PCS 1989.2MHz



Date: 25.AUG.2006 19:54:40



- Test Item: Band Edge
- Frequency: PCS 1850.8MHz



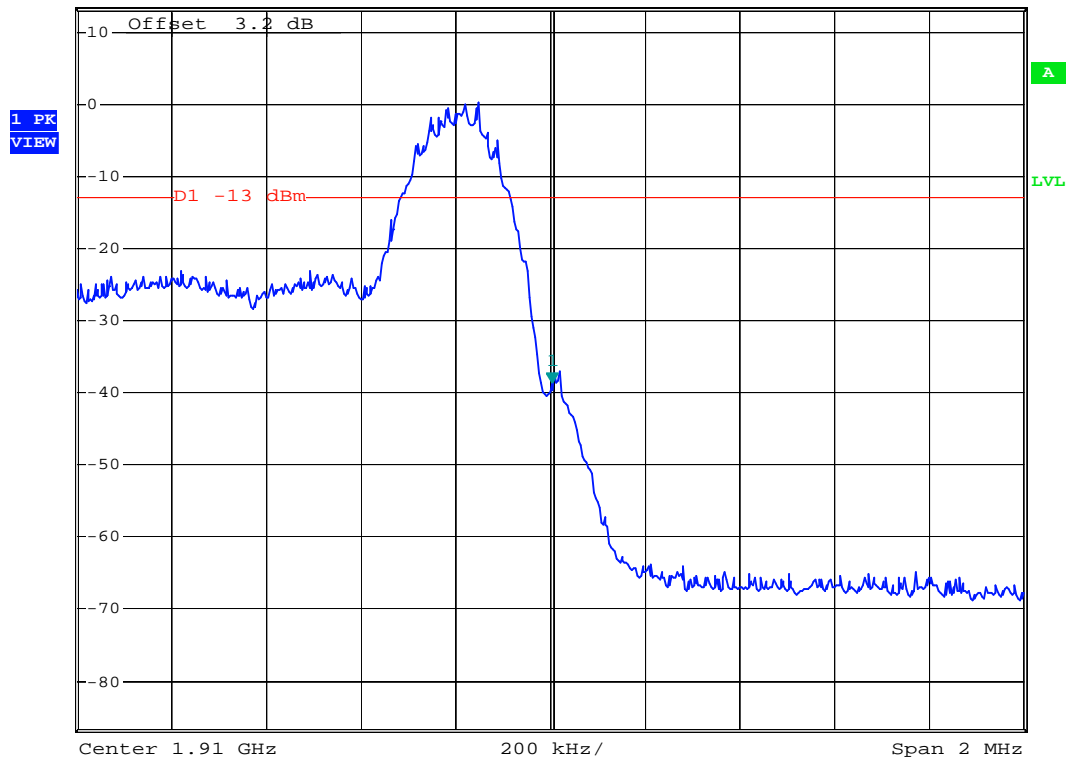
Date: 25.AUG.2006 21:12:24



Frequency: PCS 1909.2MHz



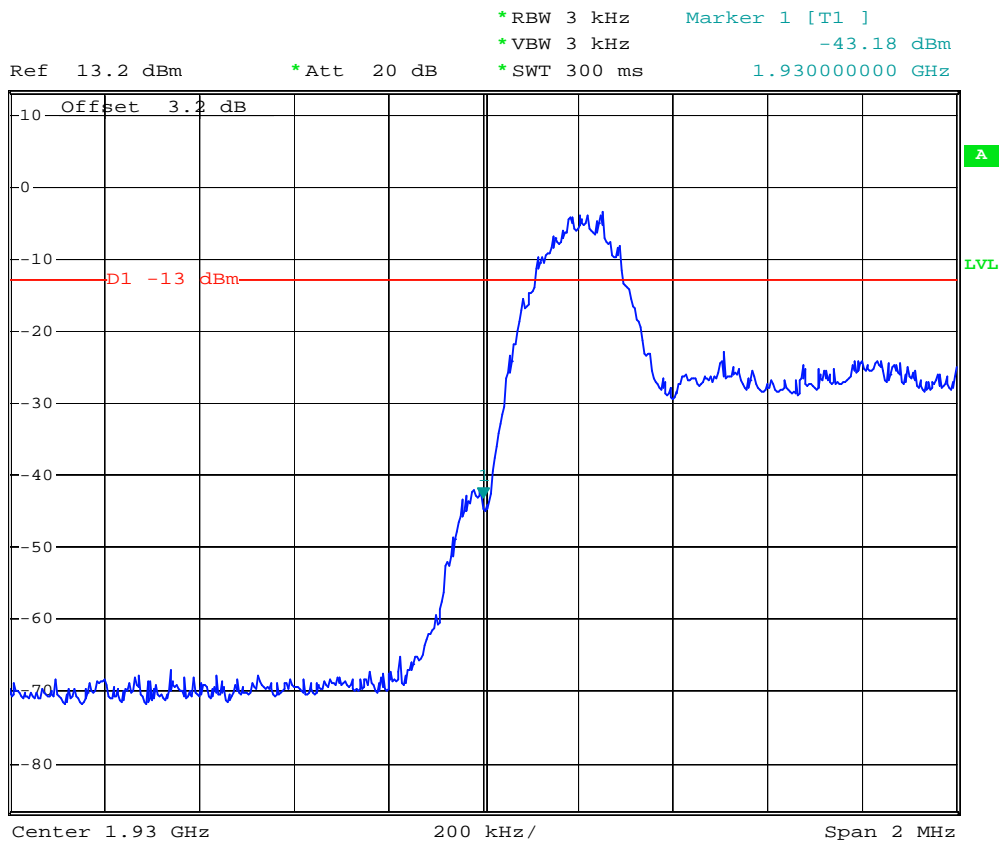
Ref 13.2 dBm * Att 20 dB * RBW 3 kHz * VBW 3 kHz * SWT 300 ms Marker 1 [T1] -38.63 dBm 1.910004000 GHz



Date: 25.AUG.2006 21:14:35



- Frequency: PCS 1930.8MHz



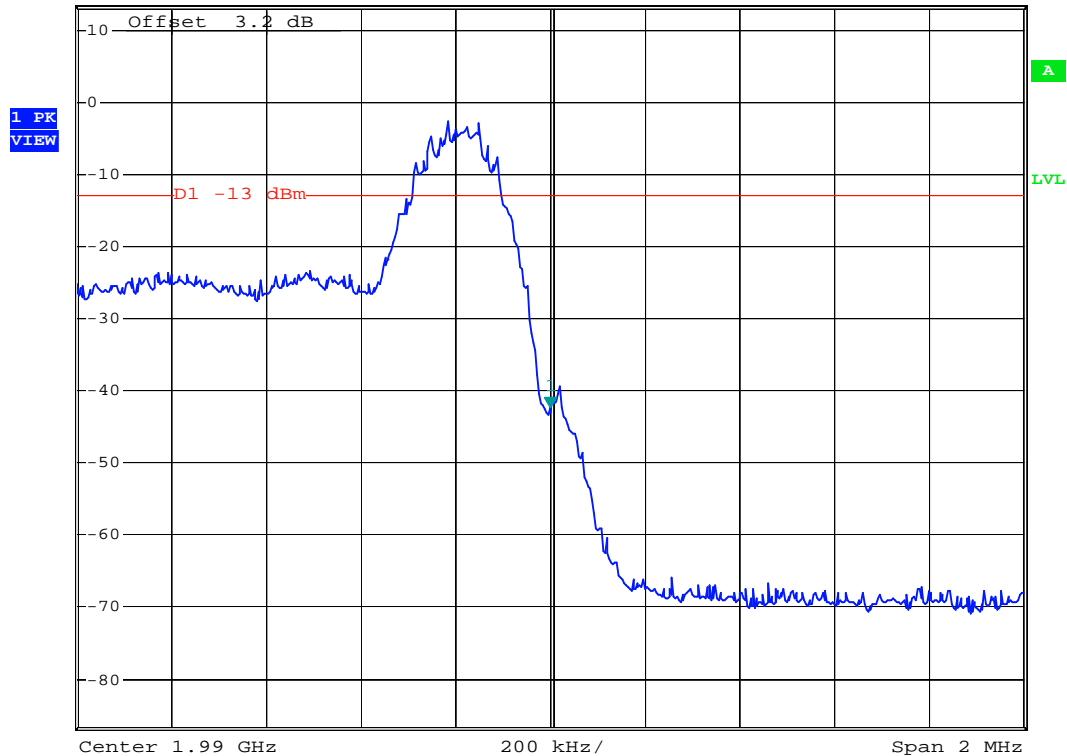
Date: 25.AUG.2006 21:20:52



Frequency: PCS 1989.2MHz



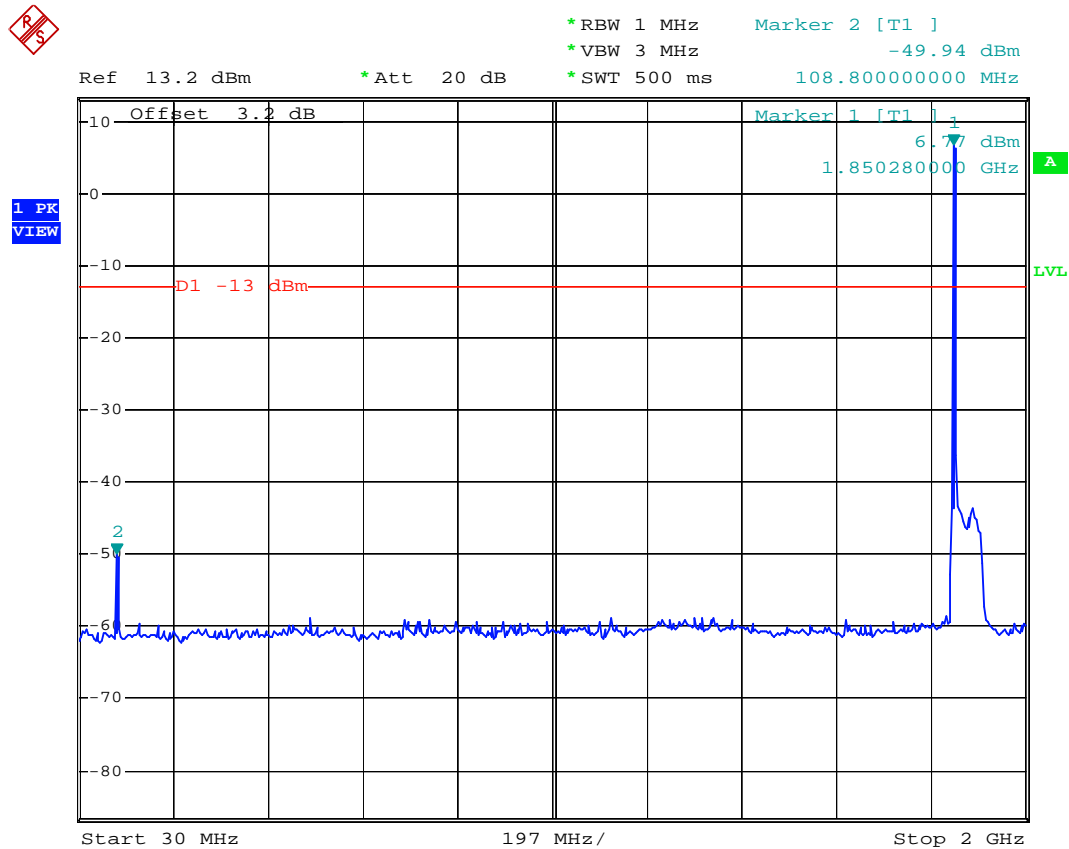
Ref 13.2 dBm * Att 20 dB * RBW 3 kHz * VBW 3 kHz * SWT 300 ms Marker 1 [T1] -42.26 dBm 1.990000000 GHz



Date: 25.AUG.2006 21:32:02



- Test Item: Conducted Spurious
- Test Mode: PCS 1850.8MHz Uplink Mode
- Frequency Range: 0.3G-2G



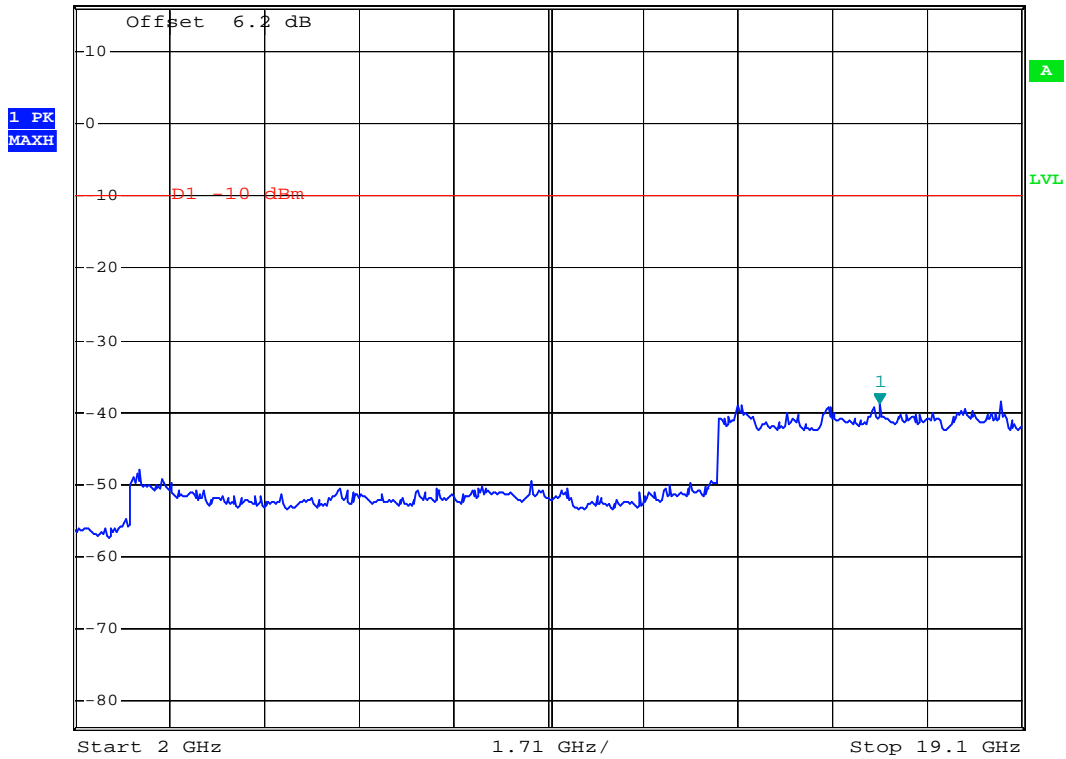
Date: 25.AUG.2006 21:09:56



▪ Frequency Range: 2G-19.1G



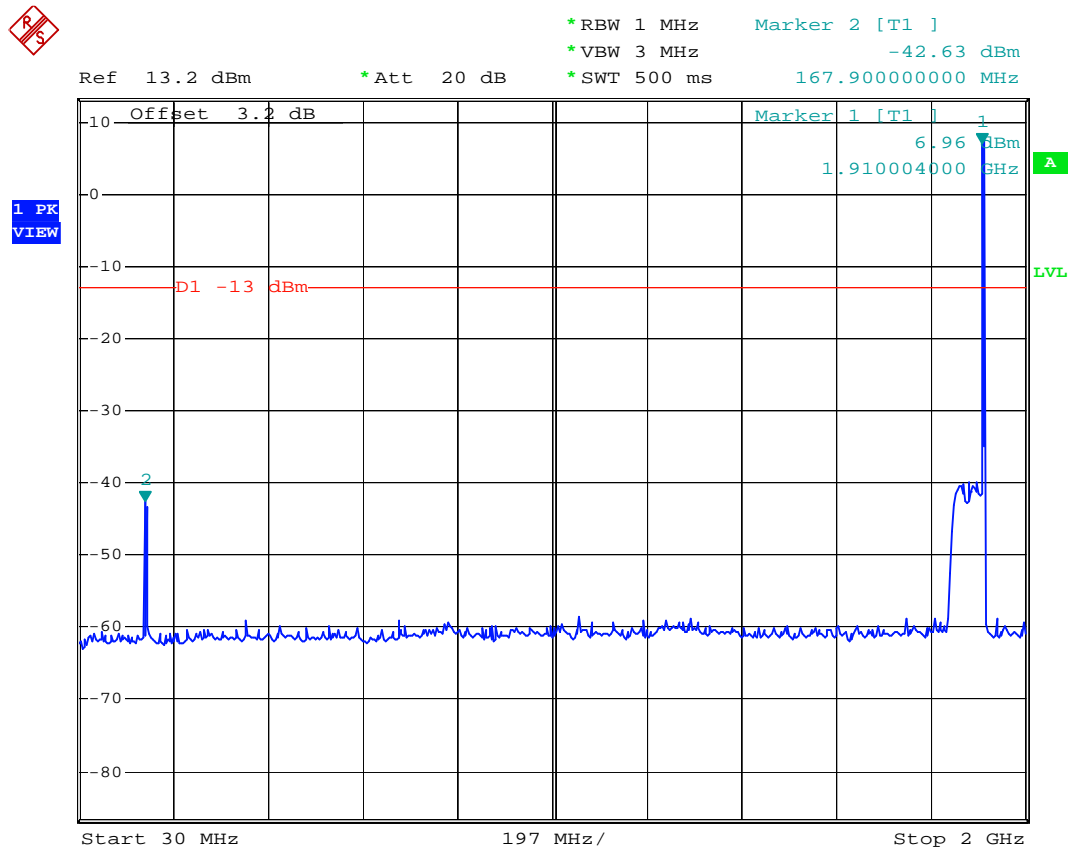
Ref 16.2 dBm * Att 20 dB * RBW 1 MHz Marker 1 [T1]
* VBW 3 MHz -38.79 dBm
* SWT 500 ms 16.535000000 GHz



Date: 25.AUG.2006 21:10:37



- Test Mode: PCS 1909.2MHz Uplink Mode
- Frequency Range: 0.3G-2G



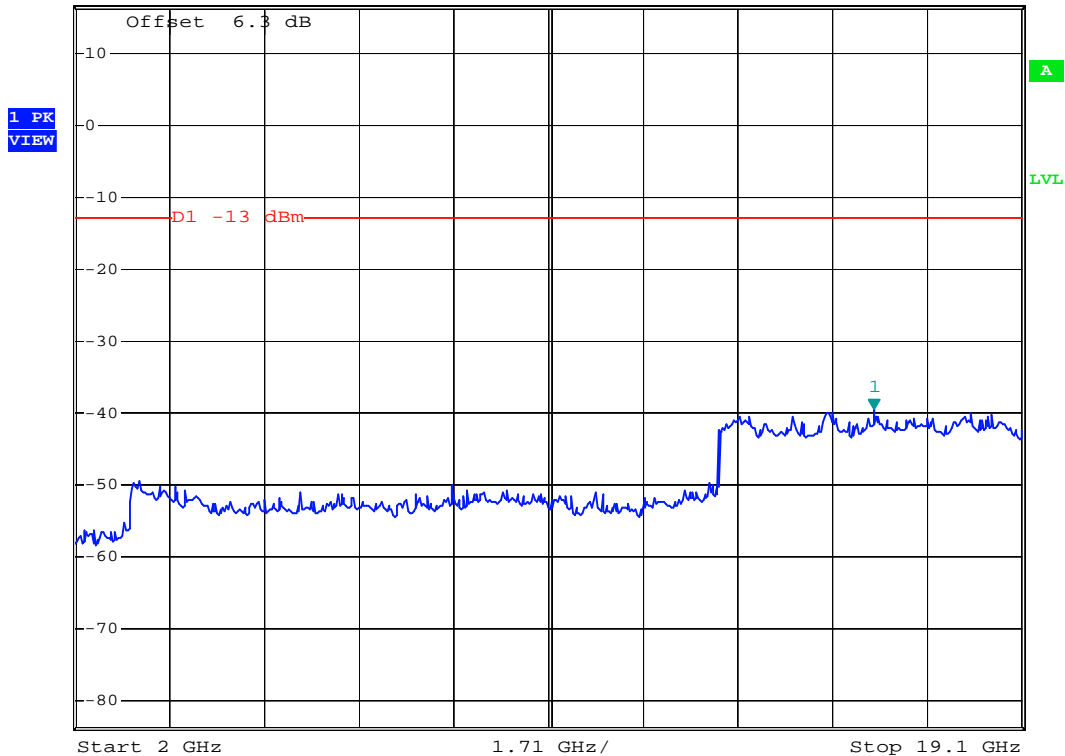
Date: 25.AUG.2006 21:15:54



▪ Frequency Range: 2G-19.1G



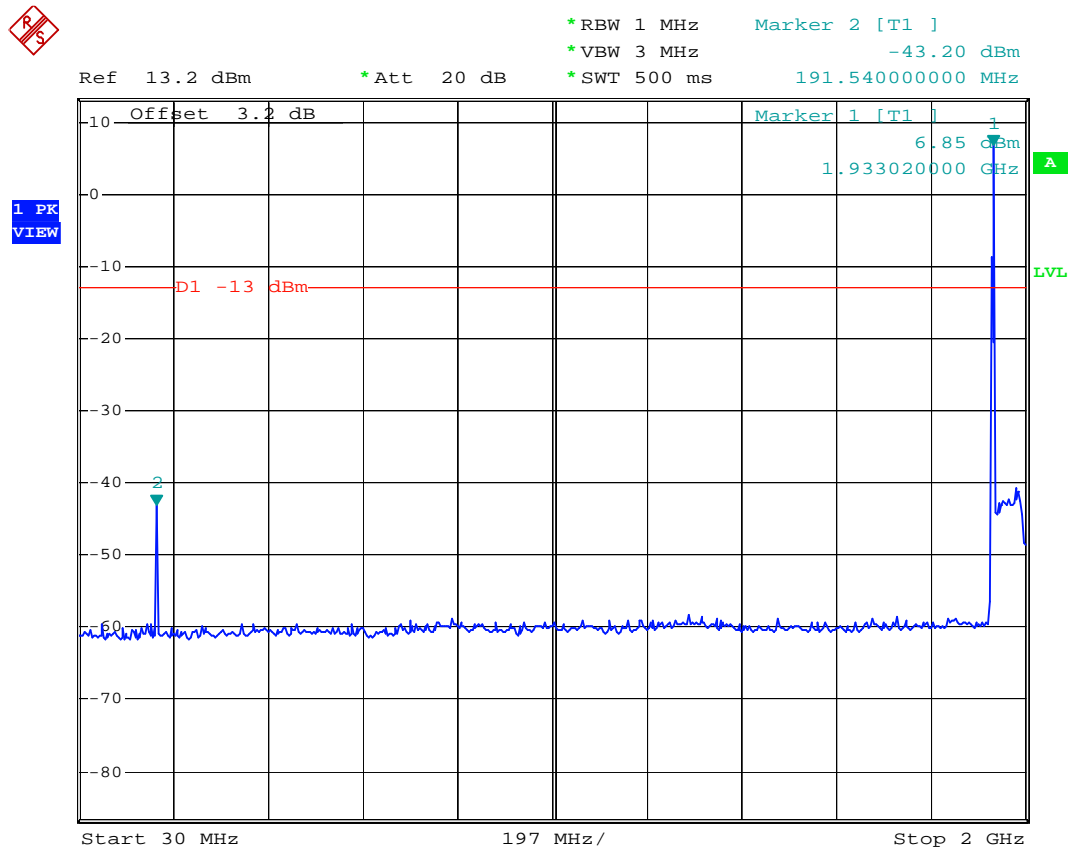
Ref 16.3 dBm * Att 20 dB * RBW 1 MHz * VBW 3 MHz * SWT 500 ms Marker 1 [T1] -39.49 dBm 16.432400000 GHz



Date: 25.AUG.2006 21:17:09



- Test Mode: PCS 1930.8MHz Downlink Mode
- Frequency Range: 0.3G-2G



Date: 25.AUG.2006 21:19:52