

Partial FCC/IC RF Test Report

APPLICANT : Nokia Corporation
EQUIPMENT : Internet Stick
BRAND NAME : Nokia
MODEL NAME : CS-17
TYPE DESIGNATION : RD-13
MARKETING NAME : Nokia Internet Stick CS-17
FCC ID : PYARD-13
IC : 661V-RD13
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
RSS-132 Issued 2, RSS-133 Issued 5
CLASSIFICATION : PCS Licensed Transmitter (PCB)
Tx/Rx FREQUENCY RANGE : GSM850 : 824.2 ~ 848.8 MHz /
869.2 ~ 893.8 MHz
GSM1900 : 1850.2 ~ 1909.8 MHz /
1930.2 ~ 1989.8 MHz
WCDMA Band II : 1852.4 ~ 1907.6 MHz /
1932.4 ~ 1987.6 MHz
EMISSION DESIGNATOR : GMSK : 244KGXW
8PSK : 248KG7W
QPSK : 4M16F9W

This is a partial report which only contains conducted test and radiated emission test results. The product was received on Mar. 09, 2010 and completely tested on Mar. 18, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:


Roy Wu / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG030921B	Rev. 01	Initial issue of report	Apr. 21, 2010

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	N/A	Conducted Output Power	N/A	PASS	
3.2	§2.1049 §22.917(a) §24.238(a)	N/A	Occupied Bandwidth	N/A	PASS	-
3.3	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Band Edge Measurement	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Conducted Emission	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	-
3.5	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Field Strength of Spurious Radiation	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	Under limit 24.52 dB at 13361 MHz
3.6	§2.1055 §22.355 §24.235	RSS-132(4.3) RSS-133(6.3)	Frequency Stability for Temperature & Voltage	$< 2.5 \text{ ppm}$	PASS	-



1 General Description

1.1 Applicant

Nokia Corporation
Keilalahdentie 2-4
02150 ESPOO
FINLAND

1.2 Manufacturer

Nokia Corporation
Keilalahdentie 2-4
02150 ESPOO
FINLAND

1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Internet Stick
Brand Name	Nokia
Model Name	CS-17
Type Designation	RD-13
Marketing Name	Nokia Internet Stick CS-17
FCC ID	PYARD-13
IC	661V-RD13
IMEI Code	004402130210952
Tx Frequency	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz WCDMA Band II : 1850 MHz ~ 1910 MHz
Rx Frequency	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz WCDMA Band II : 1930 MHz ~ 1990 MHz
Maximum Output Power to Antenna	GSM850 : 29.48 dBm GSM1900 : 26.02 dBm WCDMA Band II : 21.10 dBm
Antenna Type	Fixed Internal Antenna
HW Version	1.2
SW Version	2.11.1
ME Version	3.1
Type of Modulation	GSM / GPRS : GMSK EDGE : 8PSK WCDMA : QPSK HSDPA : QPSK / 16QAM HSUPA : BPSK
Type of Emission	GMSK : 244KGXW 8PSK : 248KG7W QPSK : 4M16F9W
EUT Stage	Production Unit

Remark:

1. This test report recorded only product characteristics and test results of PCS Licensed Transmitter (PCB).

List of Accessory:

Specification of Accessory		
USB Cable	Brand Name	Nokia
	Model Name	CA-175D
	Signal Line Type	0.22 meter shielded cable without ferrite core
	HW Version	1.0
	Mechanical Version	1.0

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. For accessories equipped with this EUT, please refer to the appendix of the external photo.

1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st 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.	Sporton Site No.		FCC/IC Registration No.
	TH02-HY	03CH07-HY	TW1022/4086B-1

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- ♦ FCC 47 CFR Part 2, 22(H), 24(E)
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ IC RSS-132 Issue 2
- ♦ IC RSS-133 Issue 5

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.

1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 9000 MHz for GSM850.
2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	■ GPRS 8 Link with USB Cable ■ EDGE 8 Link with USB Cable ■ EDGE 8 Link without USB Cable	■ GPRS 8 Link ■ EDGE 8 Link
GSM 1900	■ GPRS 8 Link with USB Cable ■ EDGE 8 Link with USB Cable ■ EDGE 8 Link without USB Cable	■ GPRS 8 Link ■ EDGE 8 Link
WCDMA Band II	■ RMC 12.2Kbps Link with USB Cable	■ RMC 12.2Kbps Link

Note: The maximum power levels are GPRS multi-slot class 8 mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

The conducted power tables are as follows:

Conducted Power						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GPRS 8	29.48	29.42	29.42	25.97	26.02	26.01
GPRS 10	26.43	26.38	26.46	23.50	23.54	23.54
GPRS 12	23.81	23.76	23.84	20.53	20.59	20.60
EGPRS 8	26.56	26.49	26.40	25.47	25.48	25.54
EGPRS 10	24.67	24.60	24.60	22.97	23.05	22.90
EGPRS 12	21.38	21.50	21.21	19.62	19.75	19.67

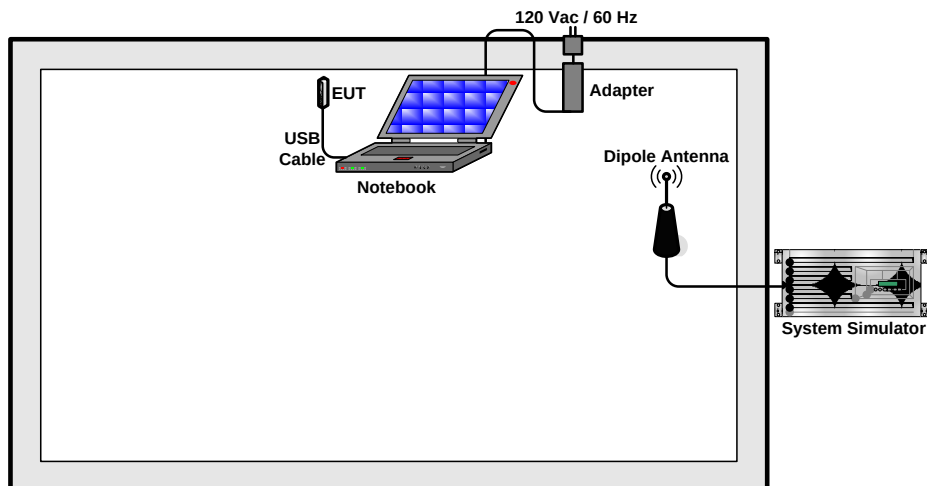
(*Unit: dBm)

Conducted Power			
Band	WCDMA Band II		
Channel	9262	9400	9538
Frequency	1852.4	1880.0	1907.6
RMC 12.2K	21.10	20.99	20.93
HSDPA Subtest-1	21.04	20.91	20.87
HSDPA Subtest-2	21.09	20.99	20.94
HSDPA Subtest-3	20.54	20.58	20.39
HSDPA Subtest-4	20.40	20.16	20.20
HSUPA Subtest-1	18.78	18.69	18.62
HSUPA Subtest-2	18.70	18.62	18.77
HSUPA Subtest-3	19.56	19.61	19.64
HSUPA Subtest-4	18.73	18.45	18.67
HSUPA Subtest-5	19.31	19.44	19.35

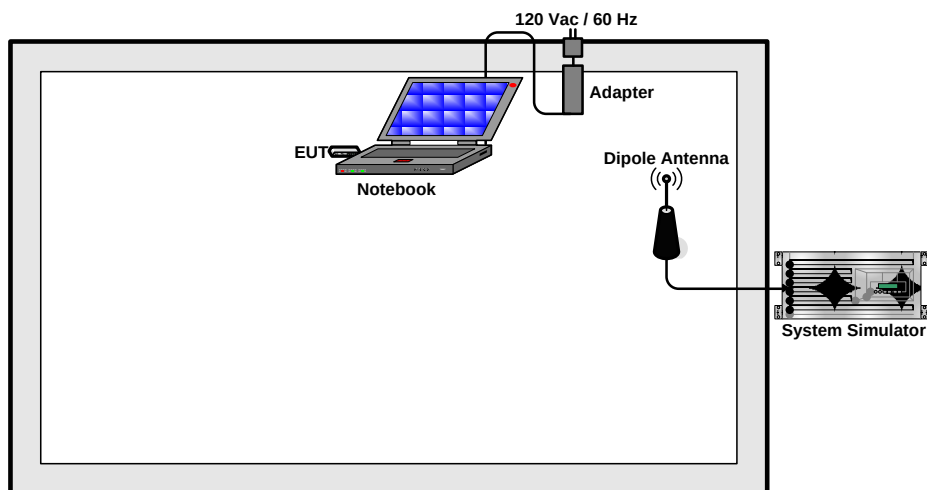
(*Unit: dBm)

2.2 Connection Diagram of Test System

<EUT Link with USB Cable>



<EUT Link without USB Cable>



3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

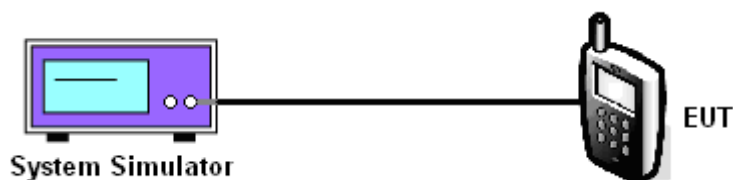
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Cellular Band				
Modes	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
GSM850 (GPRS 8)	128 (Low)	824.2	29.48	0.89
	189 (Mid)	836.4	29.42	0.87
	251 (High)	848.8	29.42	0.87
GSM850 (EDGE 8)	128 (Low)	824.2	26.56	0.45
	189 (Mid)	836.4	26.49	0.45
	251 (High)	848.8	26.40	0.44

PCS Band				
Modes	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
GSM1900 (GPRS 8)	512 (Low)	1850.2	25.97	0.40
	661 (Mid)	1880.0	26.02	0.40
	810 (High)	1909.8	26.01	0.40
GSM1900 (EDGE 8)	512 (Low)	1850.2	25.47	0.35
	661 (Mid)	1880.0	25.48	0.35
	810 (High)	1909.8	25.54	0.36
WCDMA Band II (RMC 12.2Kbps)	9262 (Low)	1852.4	21.10	0.13
	9400 (Mid)	1880.0	20.99	0.13
	9538 (High)	1907.6	20.93	0.12

3.2 Occupied Bandwidth Measurement

3.2.1 Description of Occupied Bandwidth Measurement

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

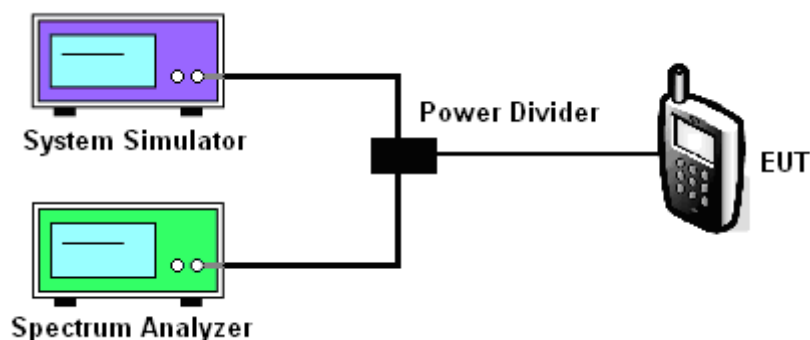
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers were measured.
3. The RBW was replaced by 10 kHz, due to the spectrum analyzer IF-Filter including an excess of the limit. A worst case correction factor of $10 \log (1\% \text{ BW/measurement RBW})$ was implemented.

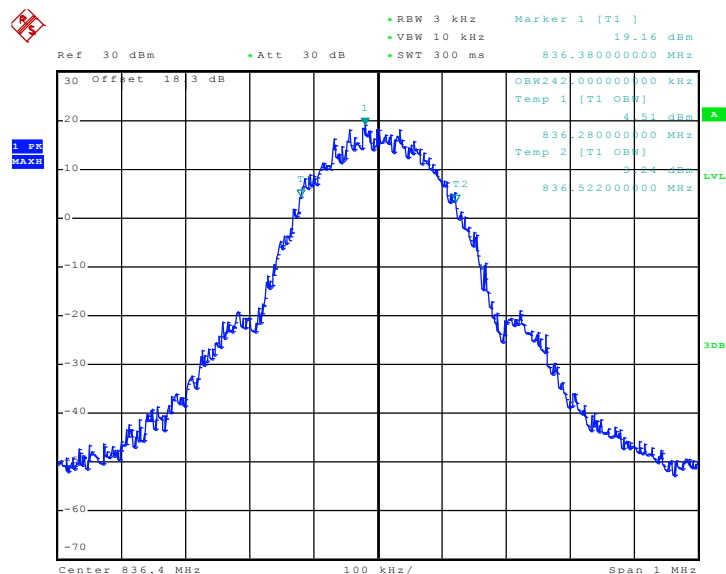
3.2.4 Test Setup



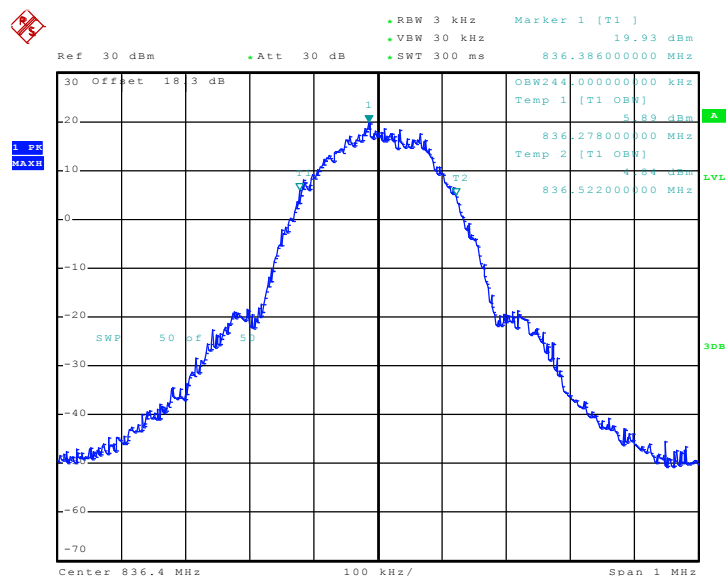
3.2.5 Test Result (Plots) of Occupied Bandwidth

Band :	GSM 850	Power Stage :	High
Test Mode :	GPRS 8 Link	Channel :	CH 189

99% Occupied Bandwidth Plot on Channel 189



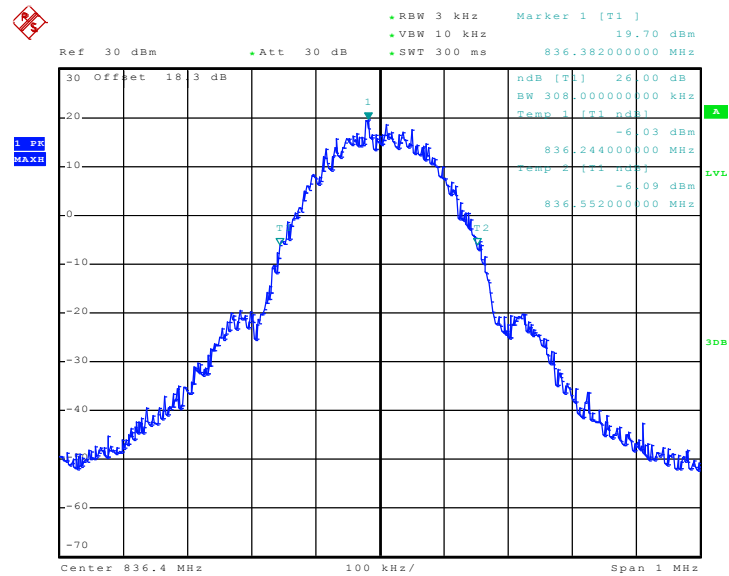
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Date: 18.MAR.2010 17:15:21



26dB Bandwidth Plot

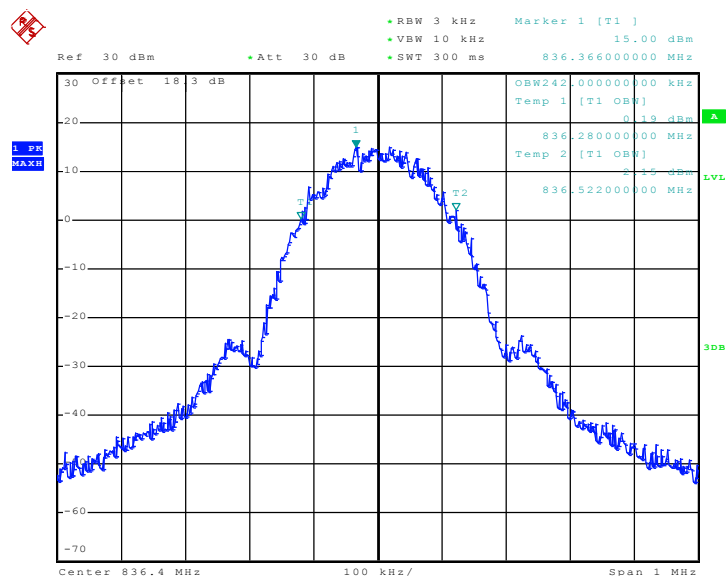


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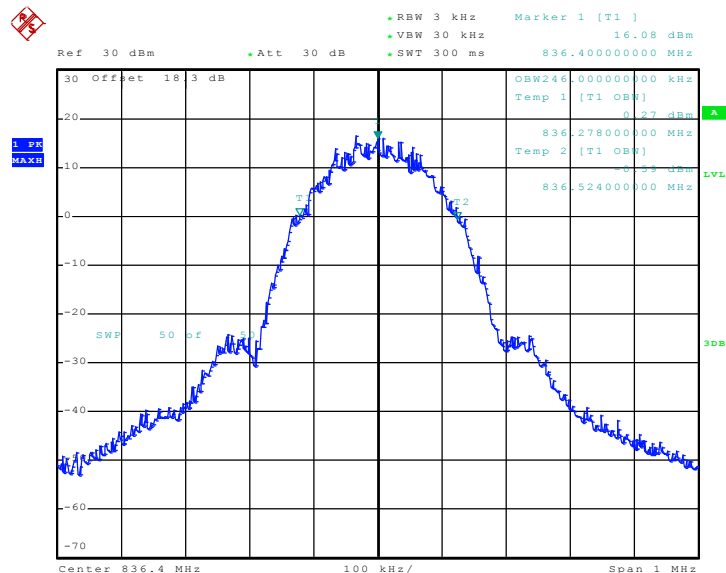


Band :	GSM 850	Power Stage :	High
Test Mode :	EDGE 8 Link	Channel :	CH 189

99% Occupied Bandwidth Plot on



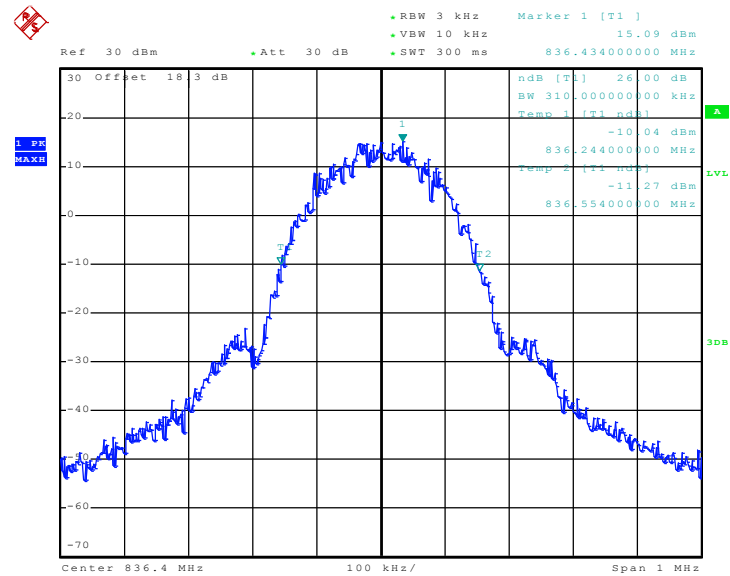
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Date: 18.MAR.2010 17:18:10



26dB Bandwidth Plot

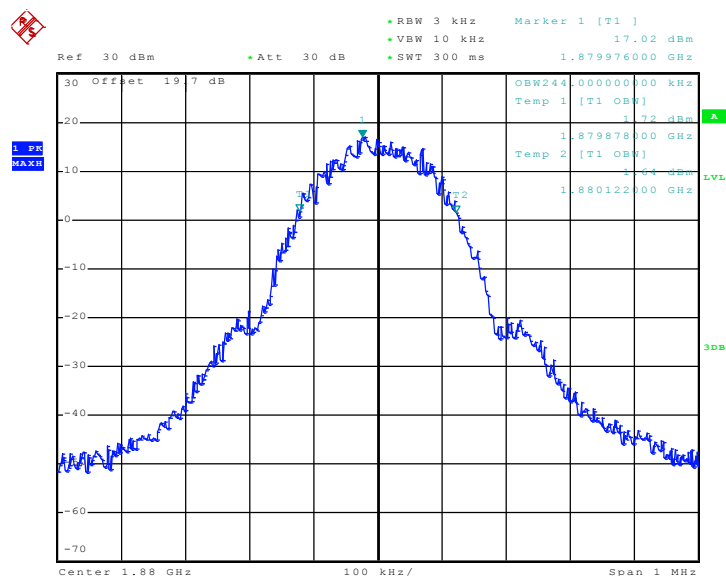


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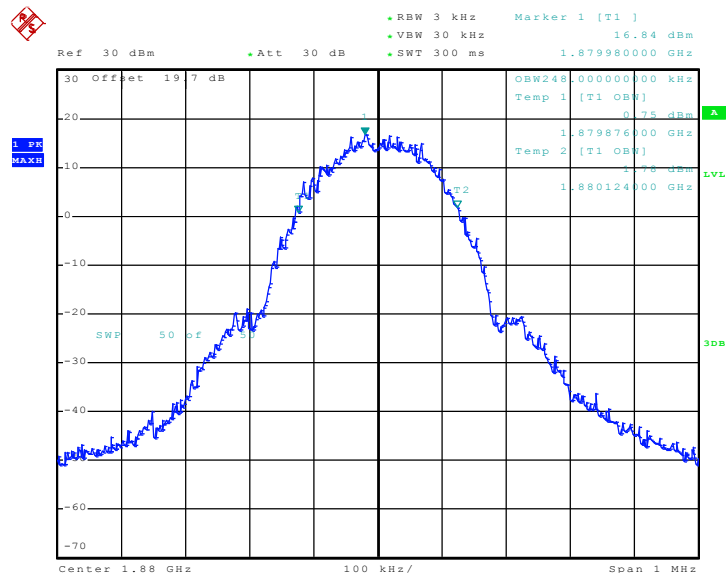


Band :	GSM 1900	Power Stage :	High
Test Mode :	GPRS 8 Link	Channel :	CH 661

99% Occupied Bandwidth Plot



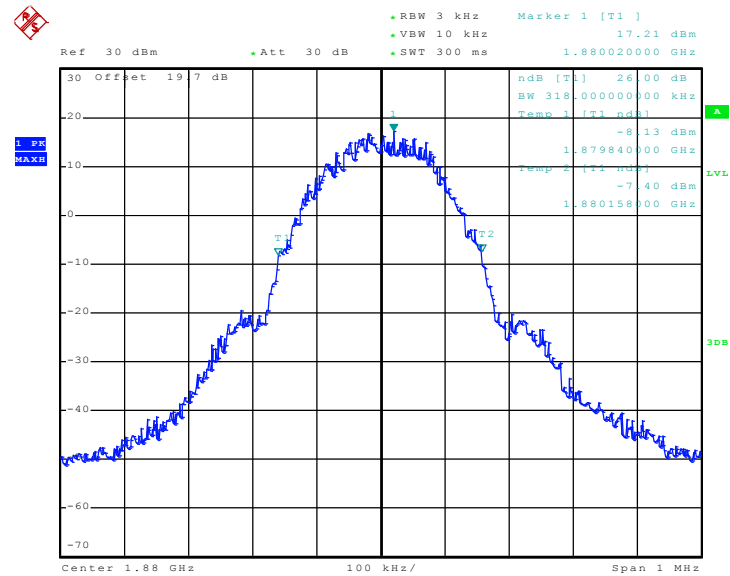
Date: 18.MAR.2010 11:10:33



Date: 18.MAR.2010 17:25:48



26dB Bandwidth Plot

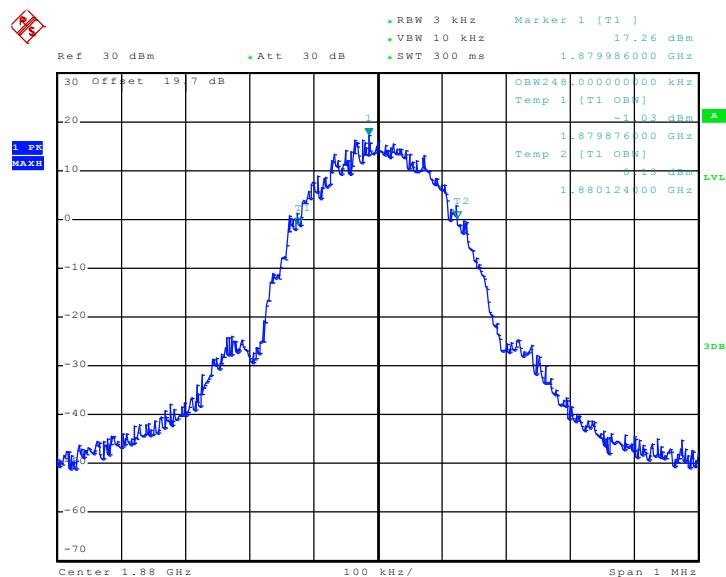


Date: 18.MAR.2010 11:09:15

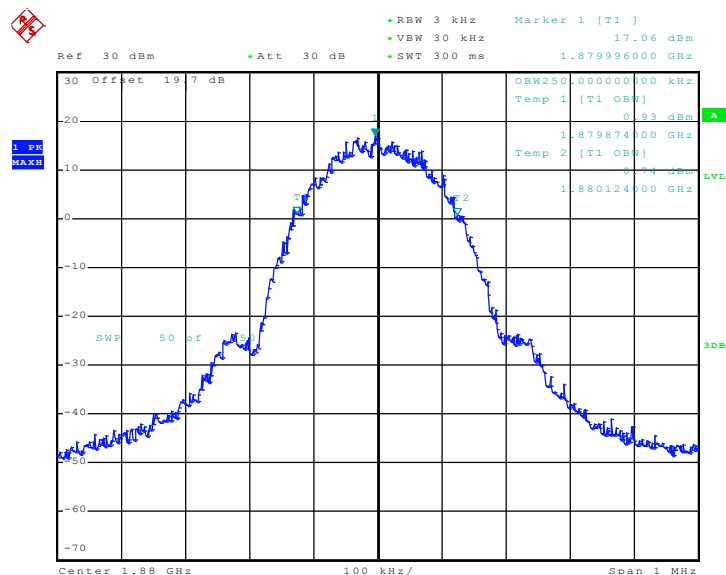


Band :	GSM 1900	Power Stage :	High
Test Mode :	EDGE 8 Link	Channel :	CH 661

99% Occupied Bandwidth Plot



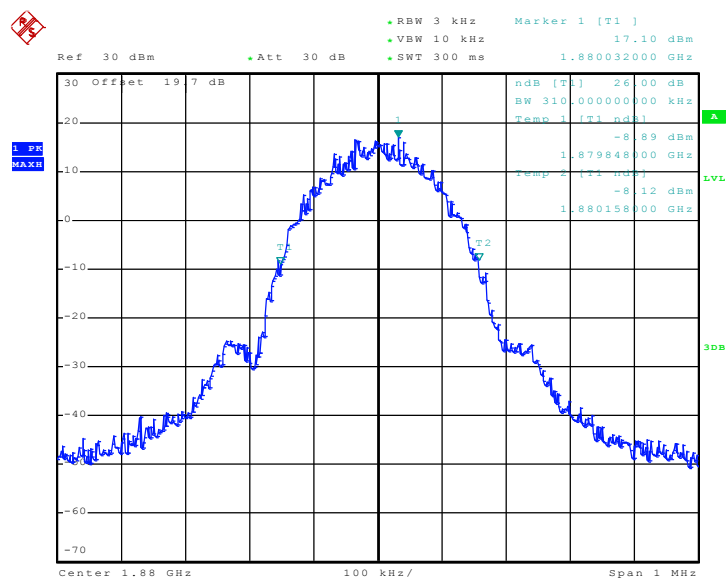
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Date: 18.MAR.2010 17:24:30

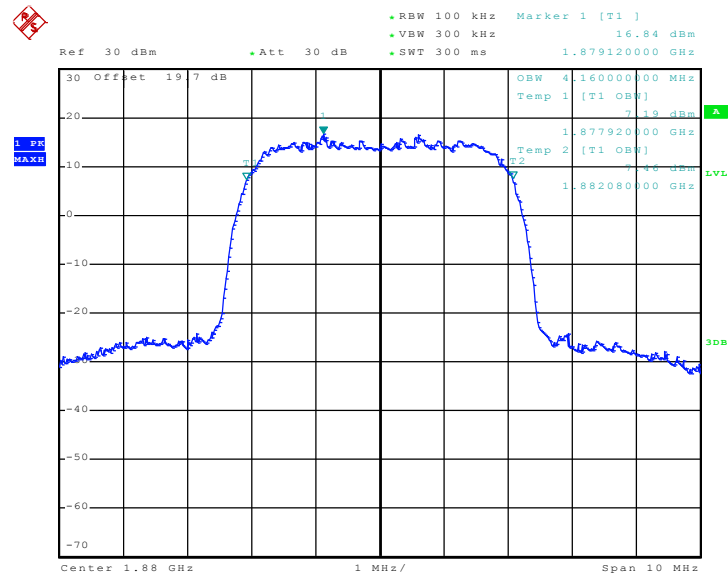


26dB Bandwidth Plot

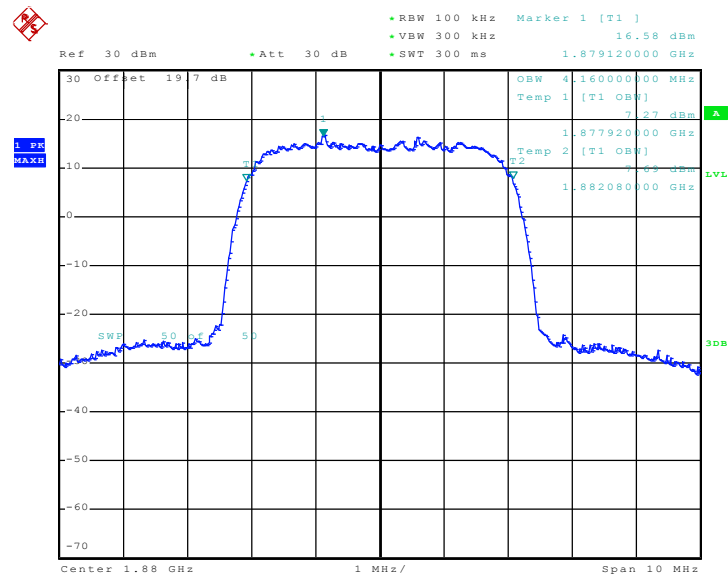


Date: 18.MAR.2010 10:57:22

Band :	WCDMA Band II	Power Stage :	High
Test Mode :	RMC 12.2Kbps Link	Channel :	CH 9400

99% Occupied Bandwidth Plot


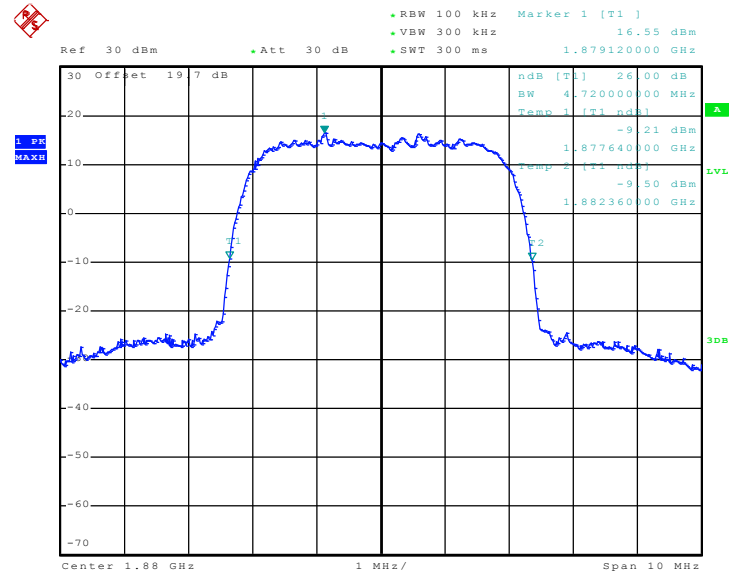
Date: 18.MAR.2010 19:58:12



Date: 18.MAR.2010 20:01:04



26dB Bandwidth Plot



Date: 18.MAR.2010 19:56:30

3.3 Band Edge Measurement

3.3.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

3.3.2 Measuring Instruments

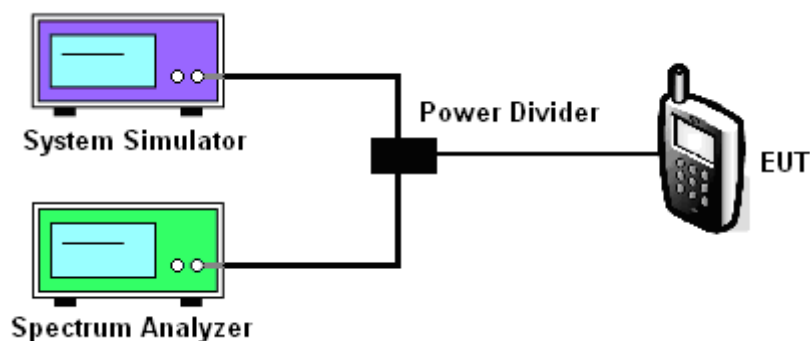
See list of measuring instruments of this test report.

3.3.3 Test Procedures

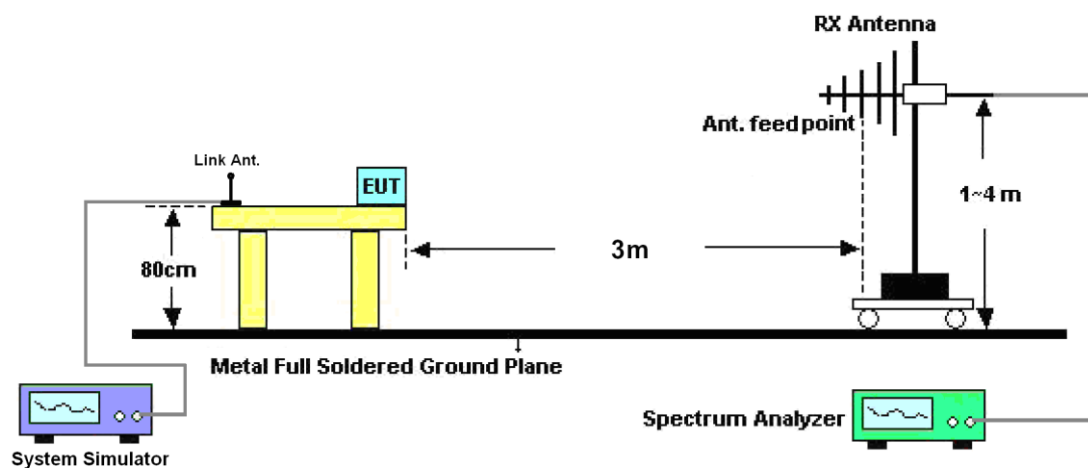
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

3.3.4 Test Setup

<Conducted Band Edge >



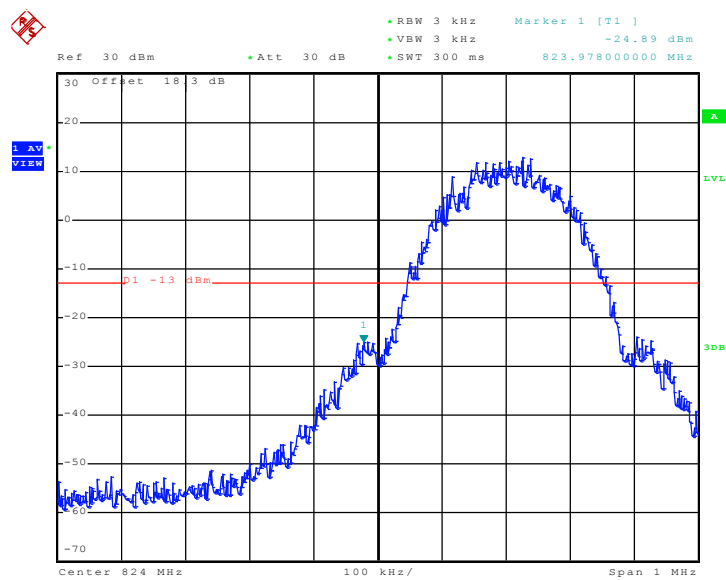
<Radiated Band Edge>



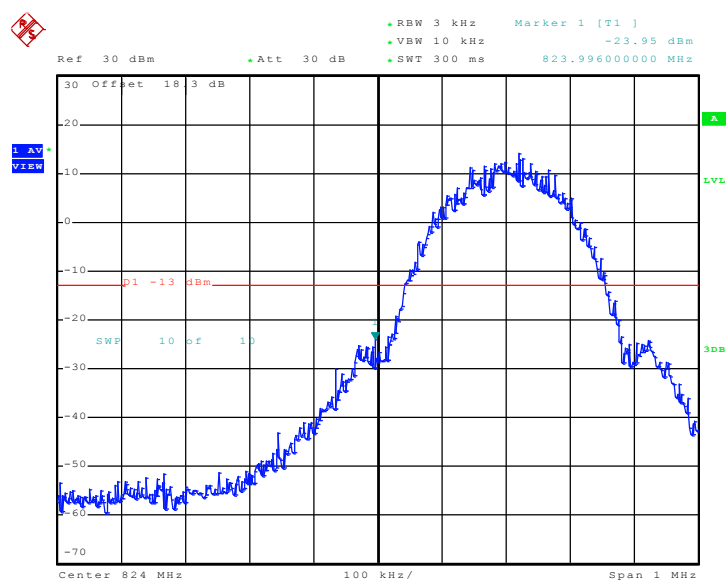
3.3.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Power Stage :	High
Test Mode :	GPRS 8 Link		

Lower Band Edge Plot on Channel 128



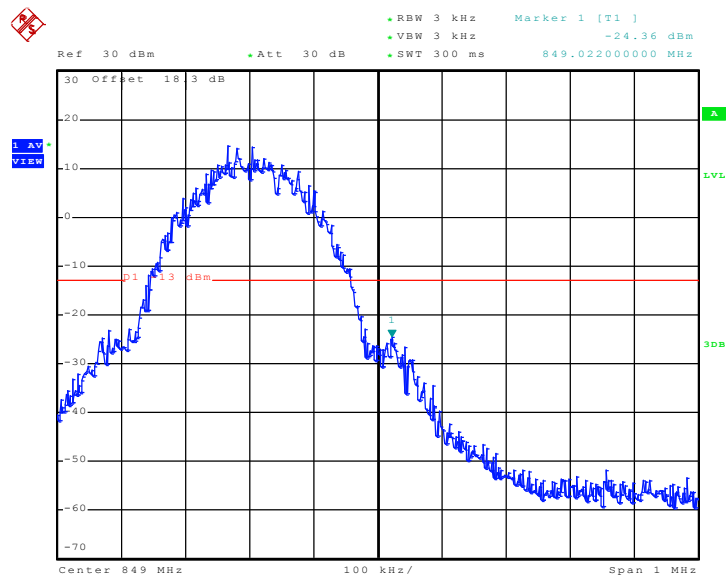
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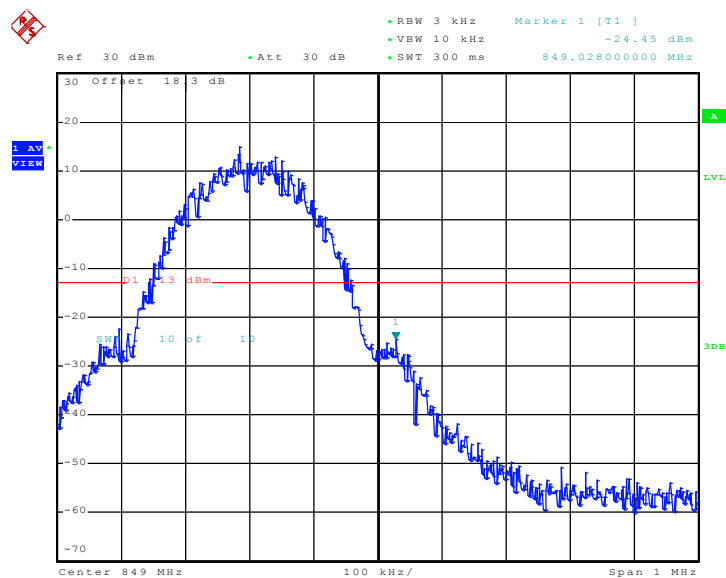
Date: 18.MAR.2010 10:39:19



Higher Band Edge Plot on Channel 251



Date: 18.MAR.2010 10:37:03



Date: 18.MAR.2010 10:39:45



The screenshot shows a Spectrum Analyzer interface with the following details:

- Top Bar:**
 - Left: A red square icon with a white cross.
 - Center: "Ref 30 dBm" and "Att 30 dB".
 - Right: "RBW 3 kHz", "VBW 3 kHz", "SWT 300 ms", "Marker 1 [T1]", and "-28.20 dBm".
- Plot Area:**
 - Y-axis: Power level in dBm, ranging from -70 to 30.
 - X-axis: Frequency in MHz, ranging from 800 to 900.
 - Grid: A 10x10 grid is visible.
 - Trace: A blue, noisy signal trace showing a broad peak centered around 824 MHz.
 - Marker: A green marker labeled "1" is positioned at the center of the peak.
 - Reference Line: A horizontal red line is drawn at -13 dBm, labeled "P1 -13 dBm".
- Bottom Bar:**
 - Left: "Center 824 MHz".
 - Center: "100 kHz/" (indicating the span).
 - Right: "Span 1 MHz".
- Side Bar:**
 - Top: A blue button labeled "1. AV VIEW".
 - Right: Labels "A" (green), "LVL" (green), and "3dB" (green).

Ref 30 dBm Att 30 dB RBW 3 kHz VBW 10 kHz SWT 300 ms Marker 1 [T1] -28.82 dBm 823.976000000 MHz

30 Offset 18.3 dB

AV
VdBm

P1 -13 dBm

SWP 10 SF 10

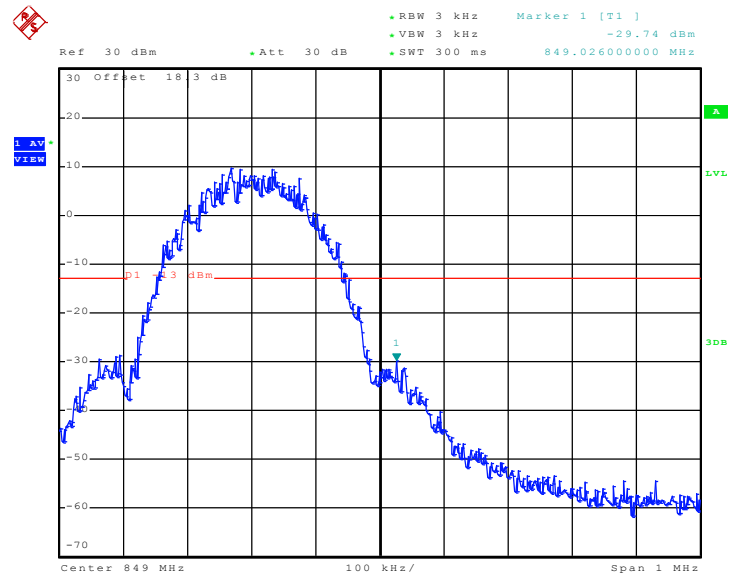
1

Center 824 MHz 100 kHz/ Span 1 MHz

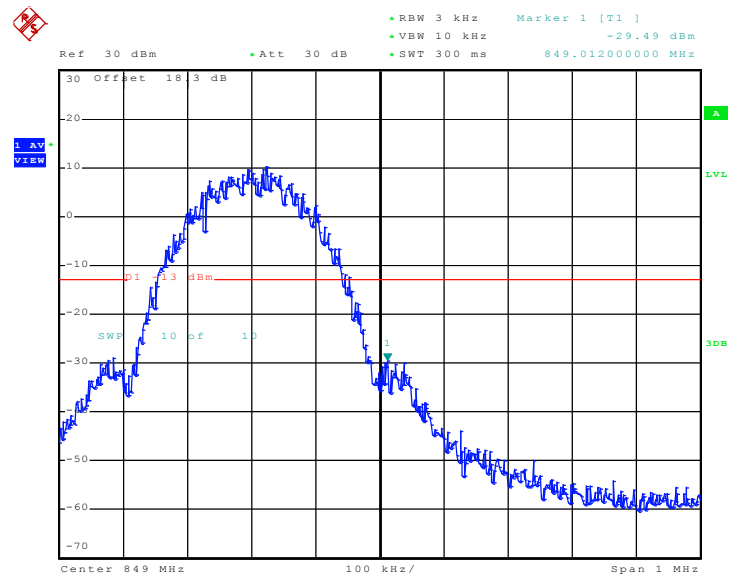
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Higher Band Edge Plot on Channel 251



Date: 18.MAR.2010 10:52:14

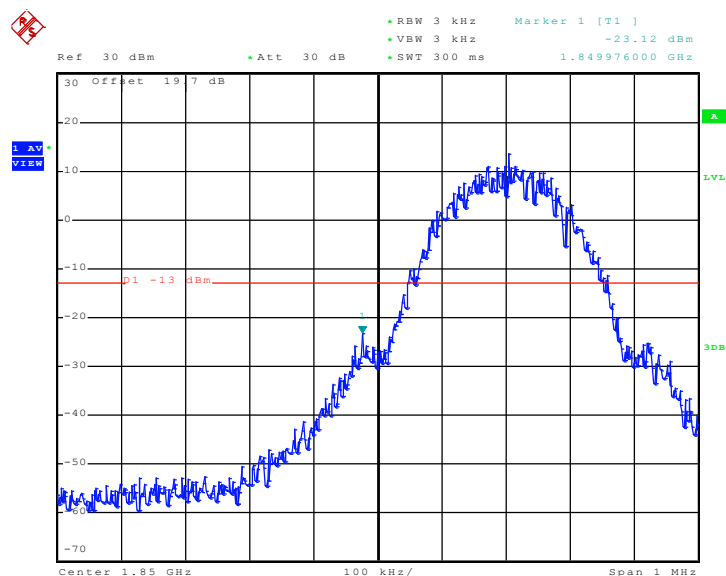


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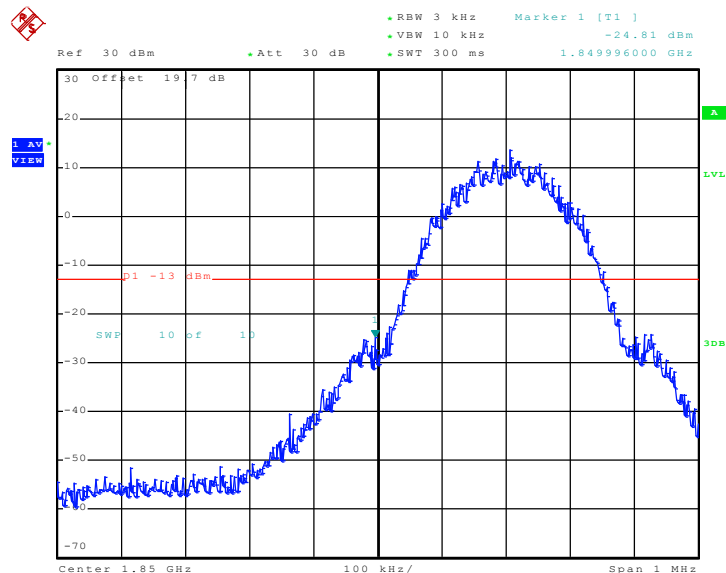


Band :	GSM1900	Power Stage :	High
Test Mode :	GPRS 8 Link		

Lower Band Edge Plot on Channel 512



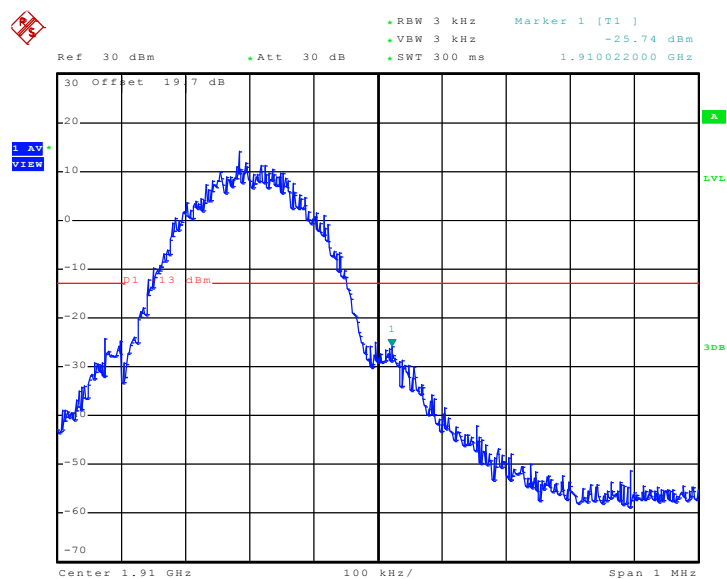
Date: 18.MAR.2010 11:12:41



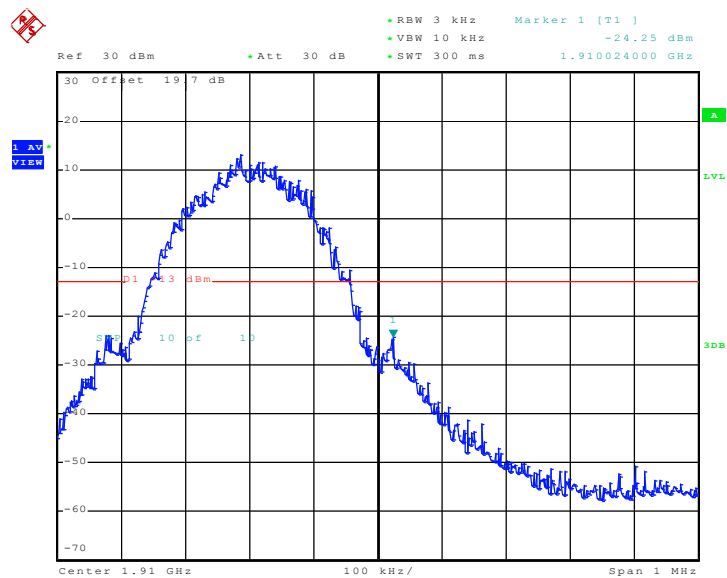
Date: 18.MAR.2010 11:13:33



Higher Band Edge Plot on Channel 810

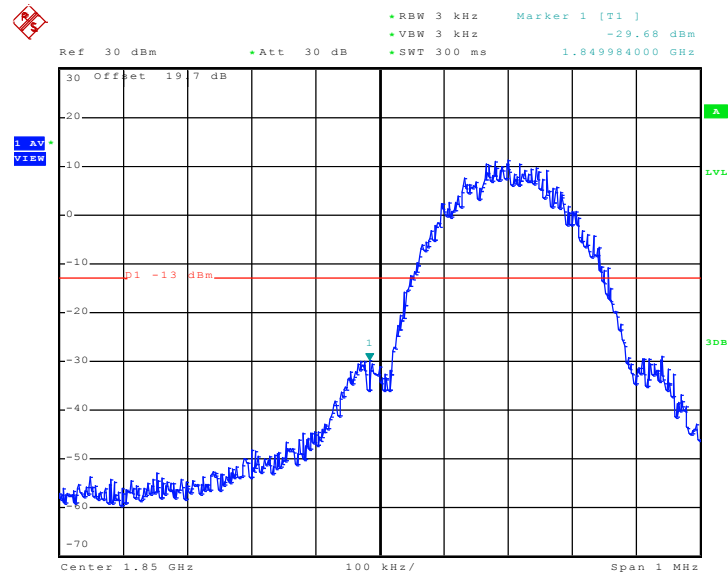


Date: 18.MAR.2010 11:13:07

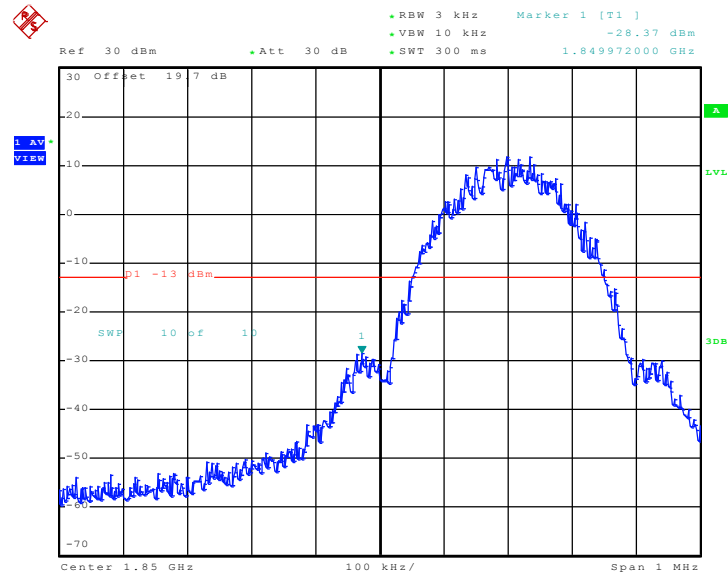


Date: 18.MAR.2010 11:13:59

Band :	GSM1900	Power Stage :	High
Test Mode :	EDGE 8 Link		

Lower Band Edge Plot on Channel 512


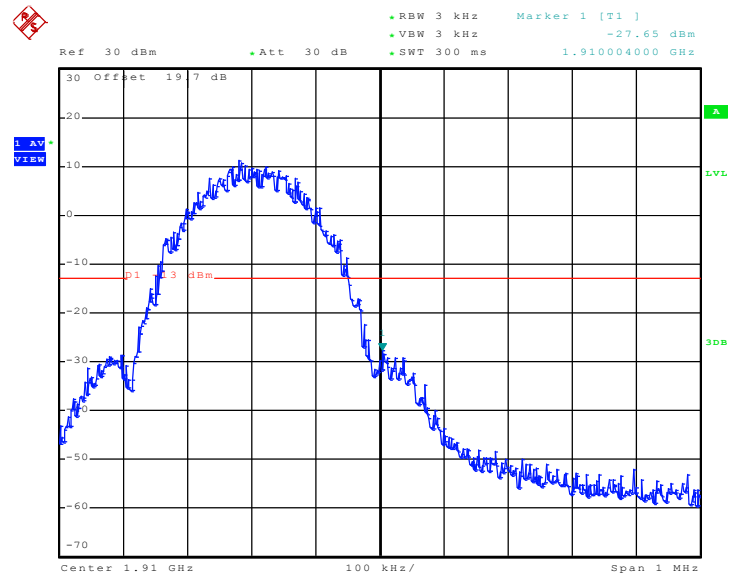
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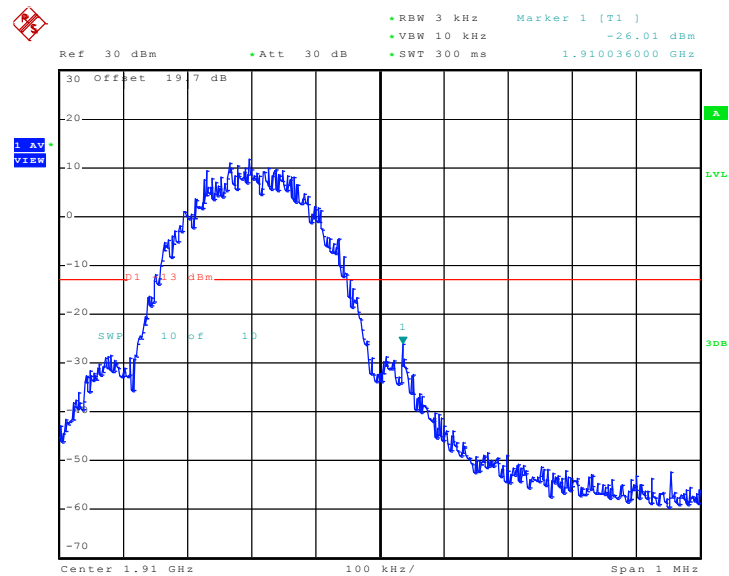
Date: 18.MAR.2010 11:01:47



Higher Band Edge Plot on Channel 810



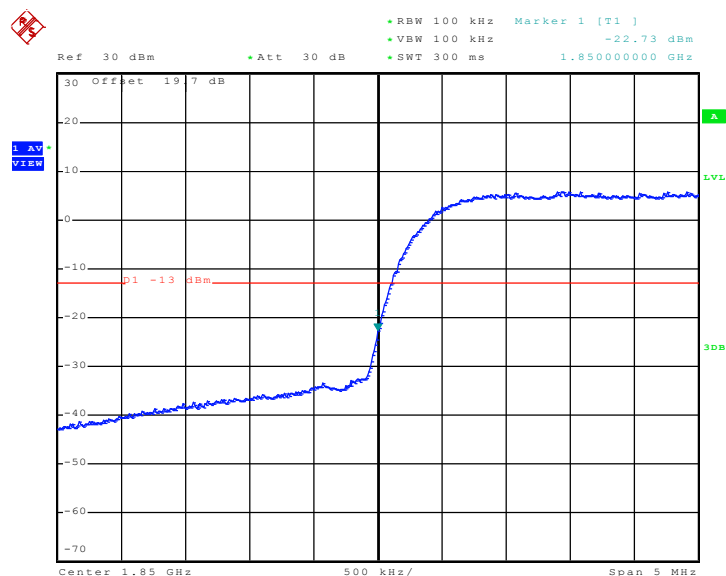
Date: 18.MAR.2010 11:30:06



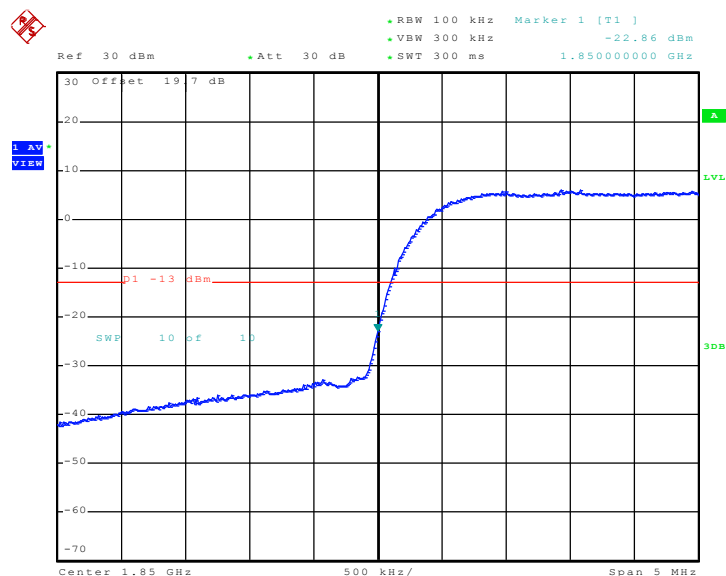
Date: 18.MAR.2010 11:02:13

Band :	WCDMA Band II	Power Stage :	High
Test Mode :	RMC 12.2Kbps Link		

Lower Band Edge Plot on Channel 9262



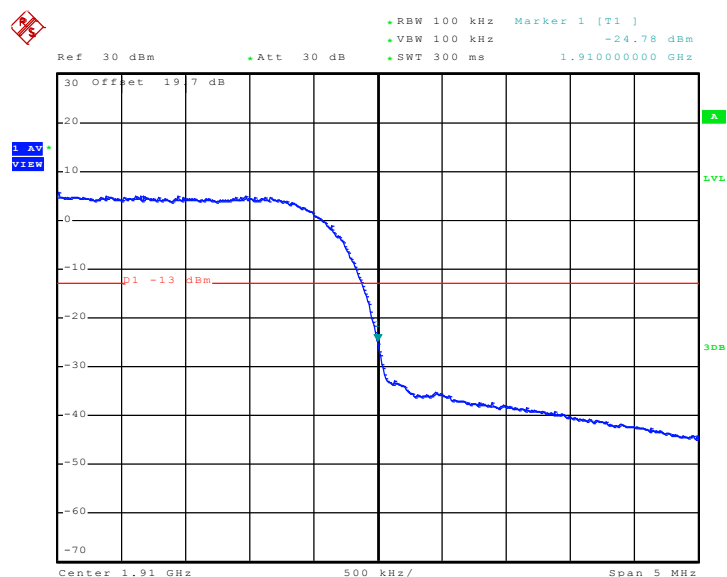
Date: 18.MAR.2010 20:06:25



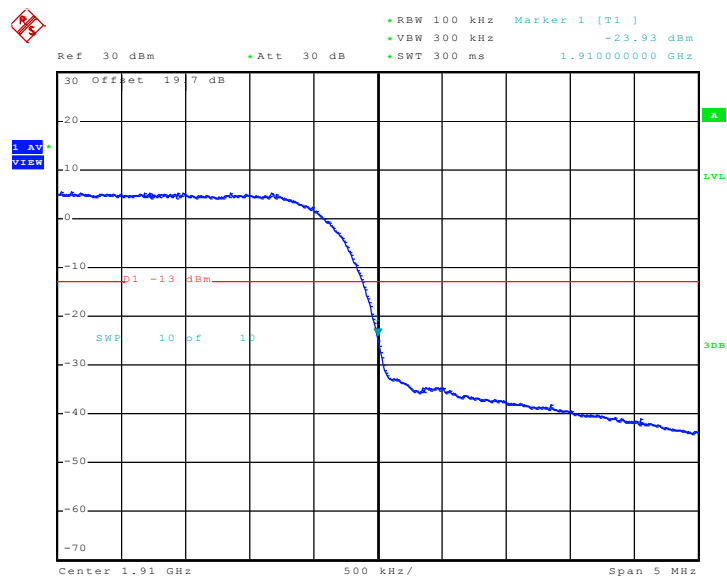
Date: 18.MAR.2010 20:08:58



Higher Band Edge Plot on Channel 9538

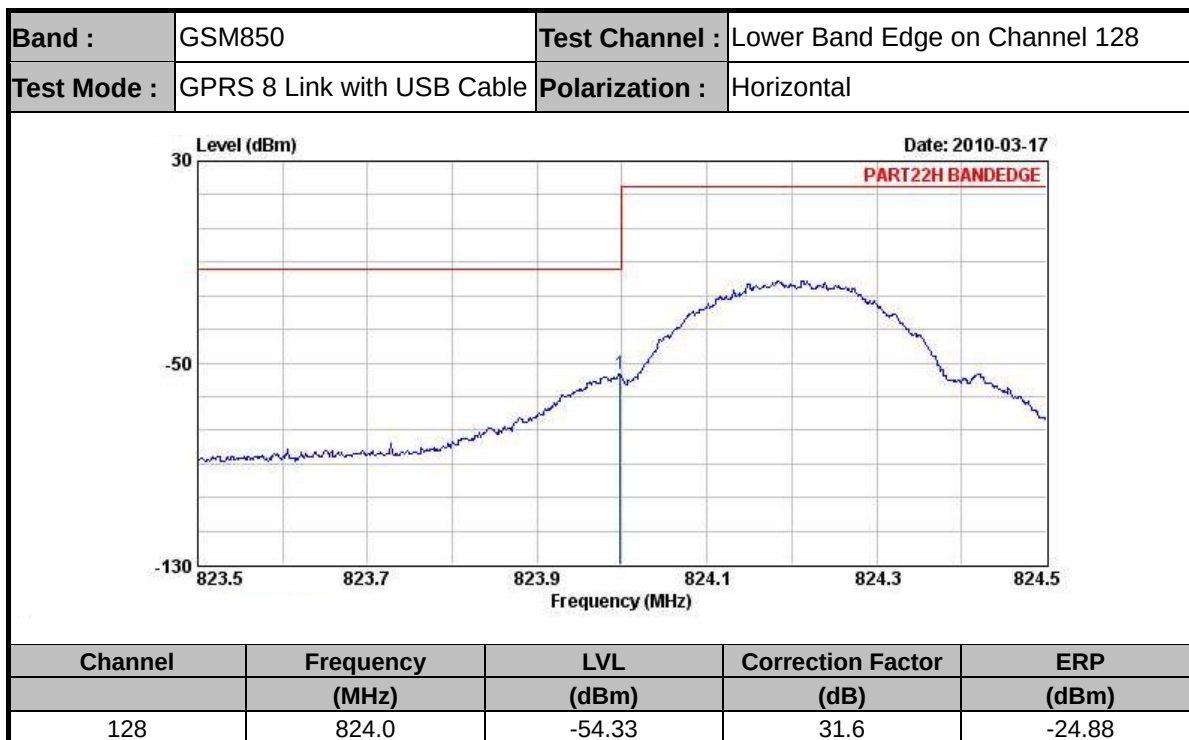


Date: 18.MAR.2010 20:07:11

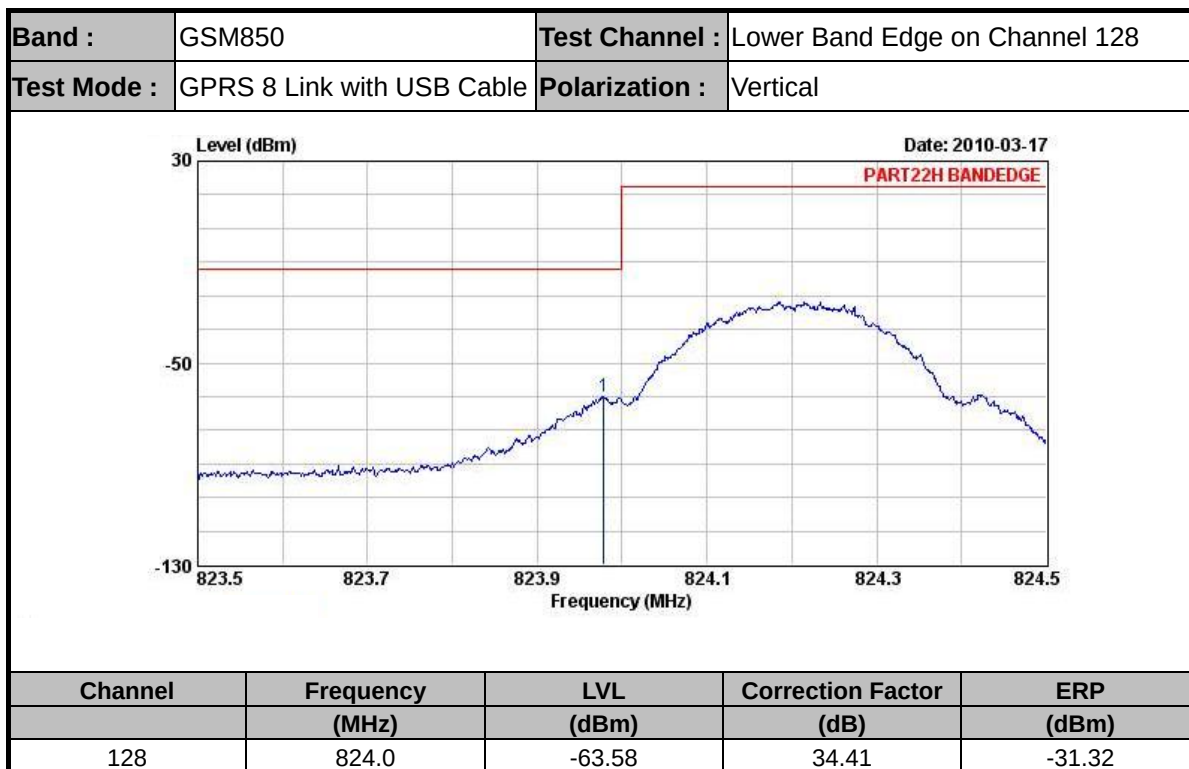


Date: 18.MAR.2010 20:08:17

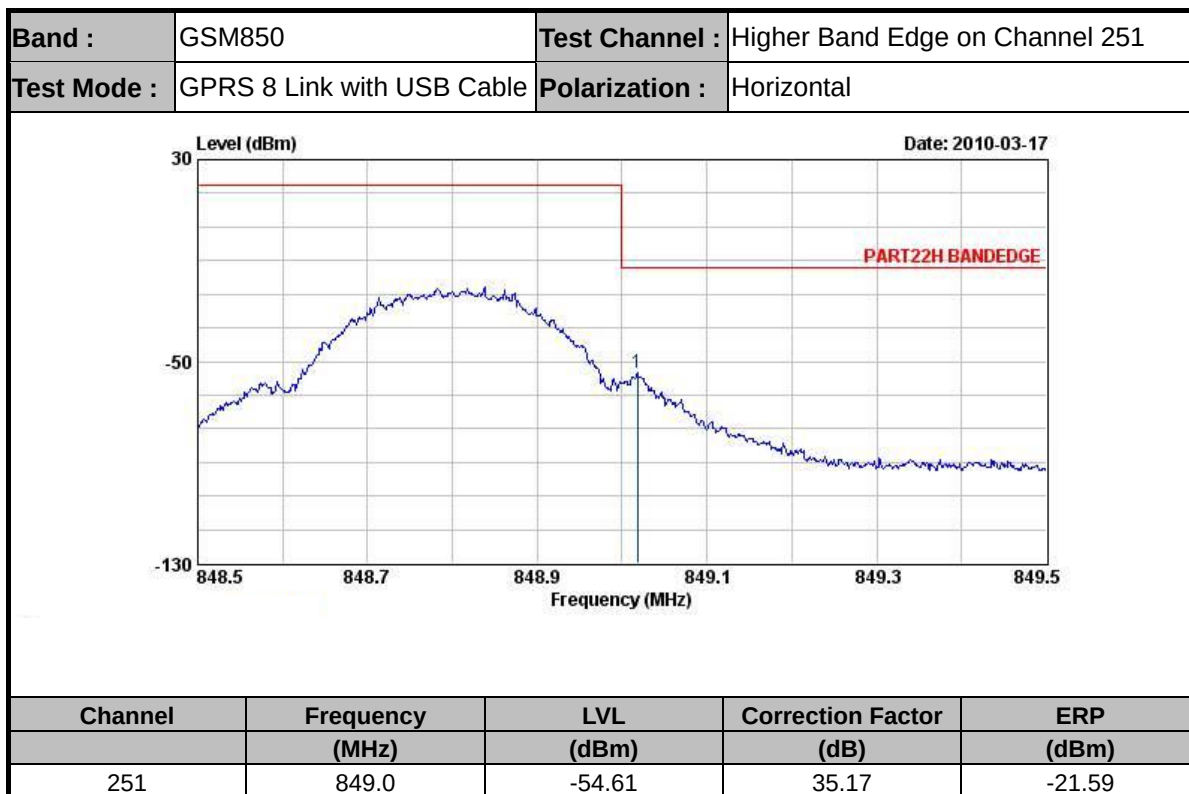
3.3.6 Test Result of Radiated Band Edge



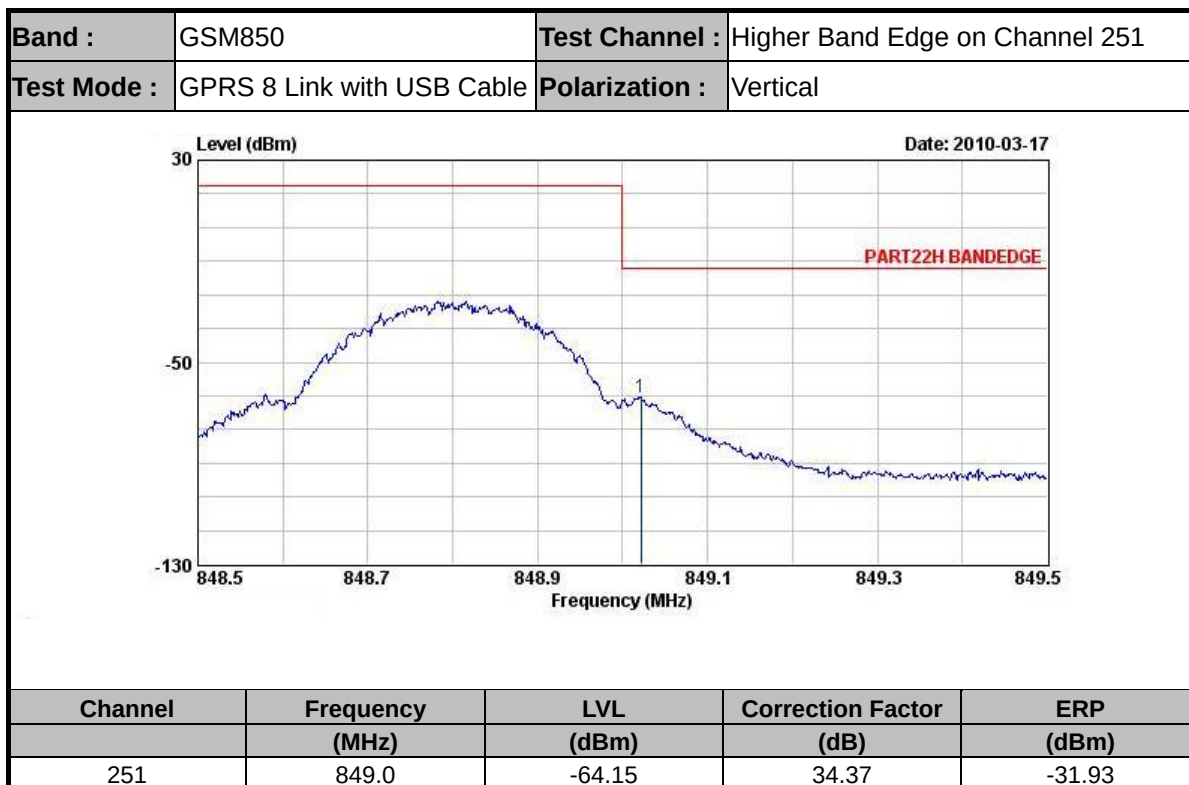
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



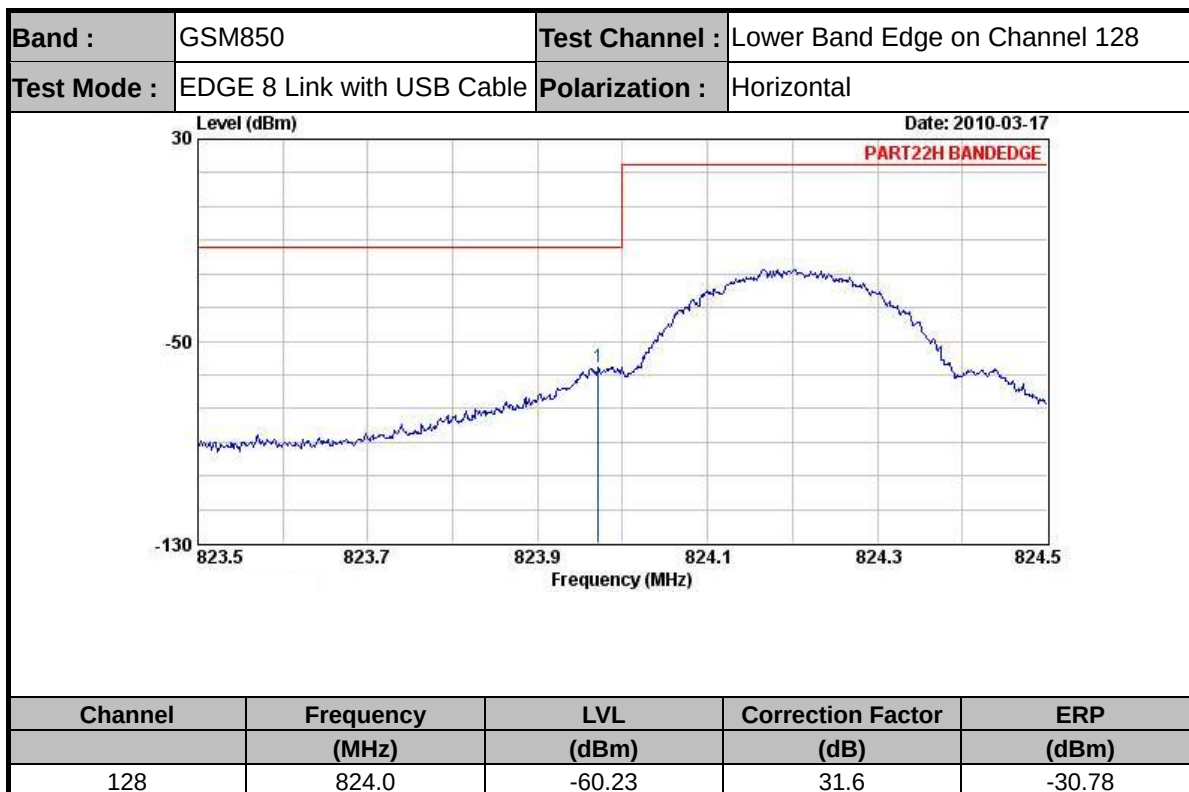
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



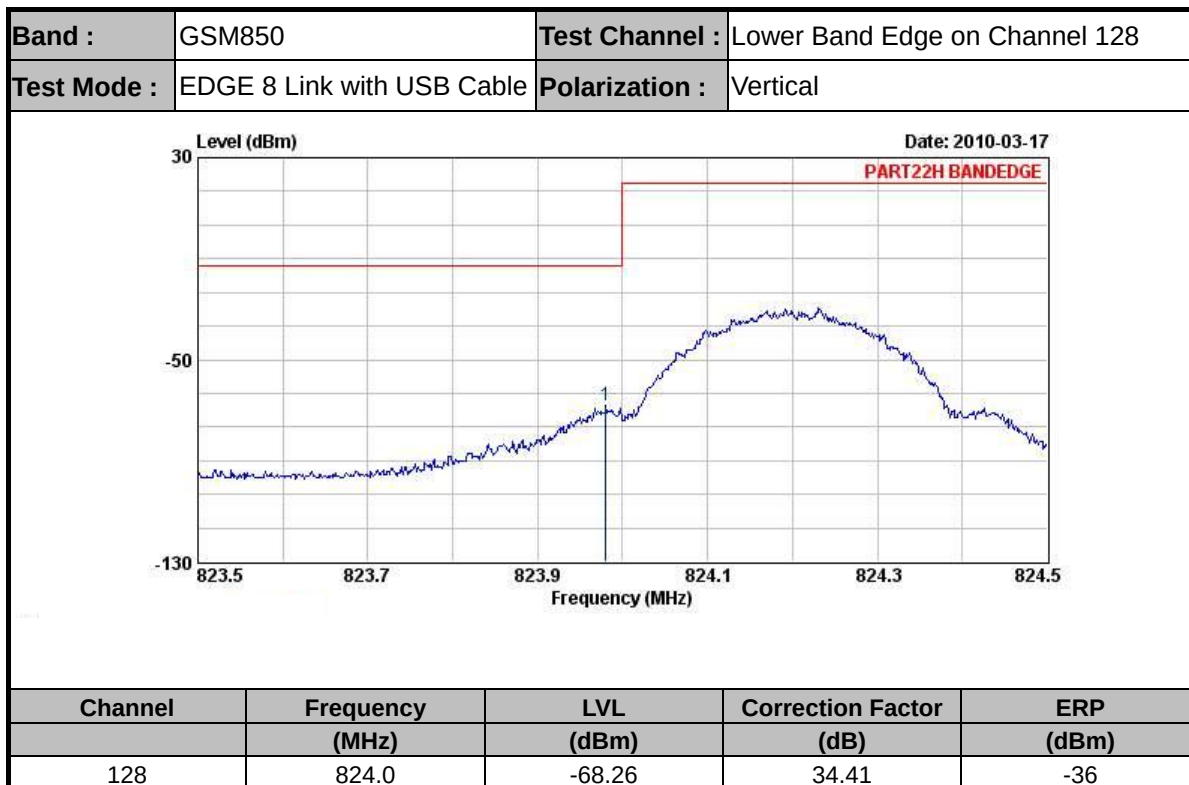
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



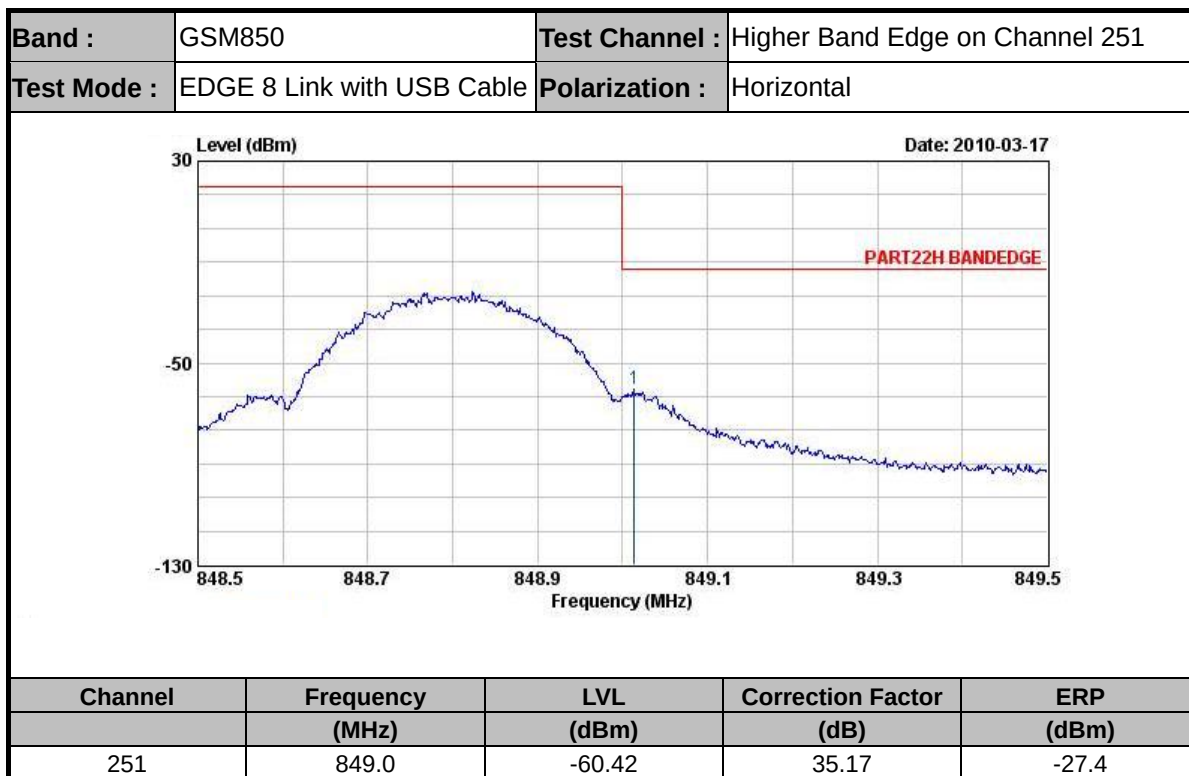
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



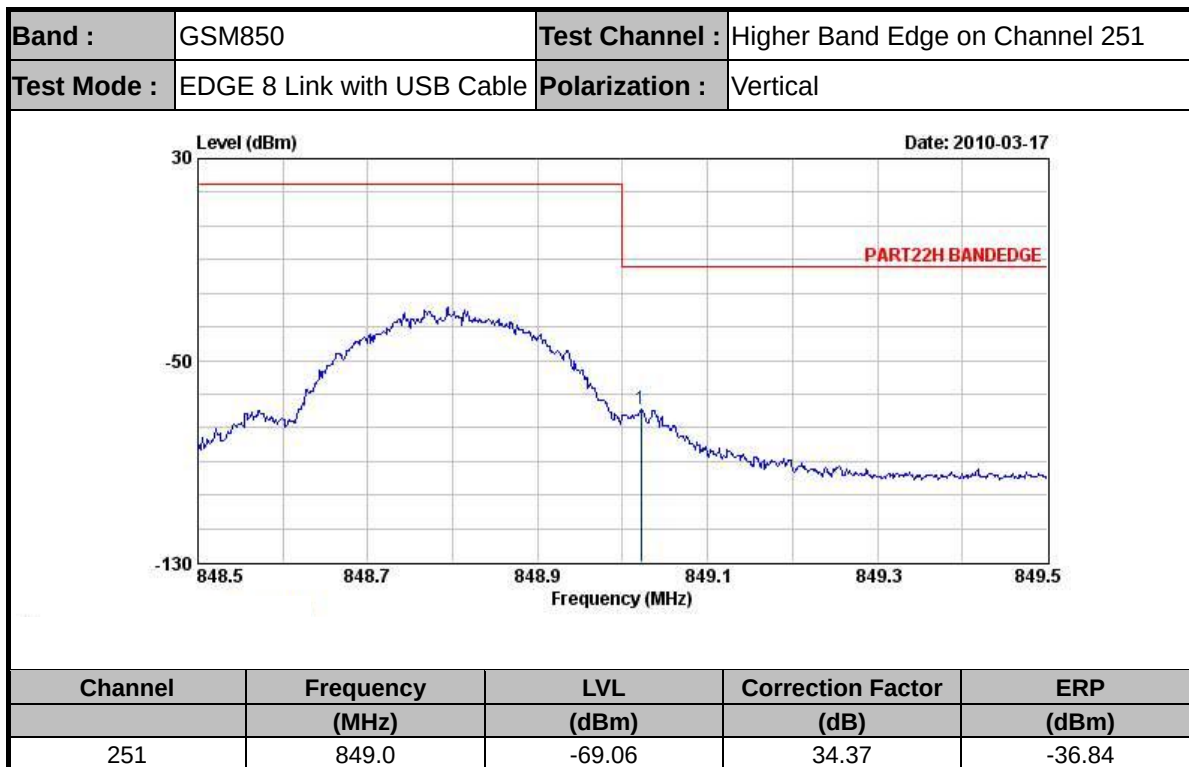
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



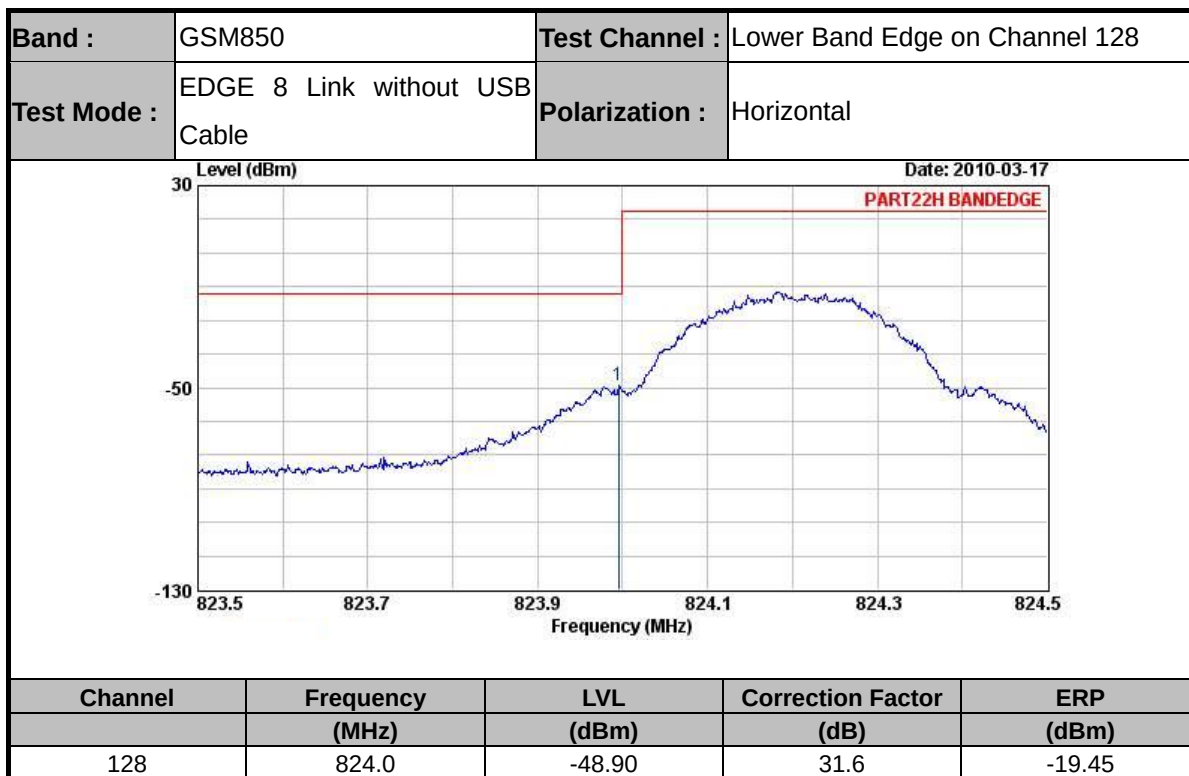
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



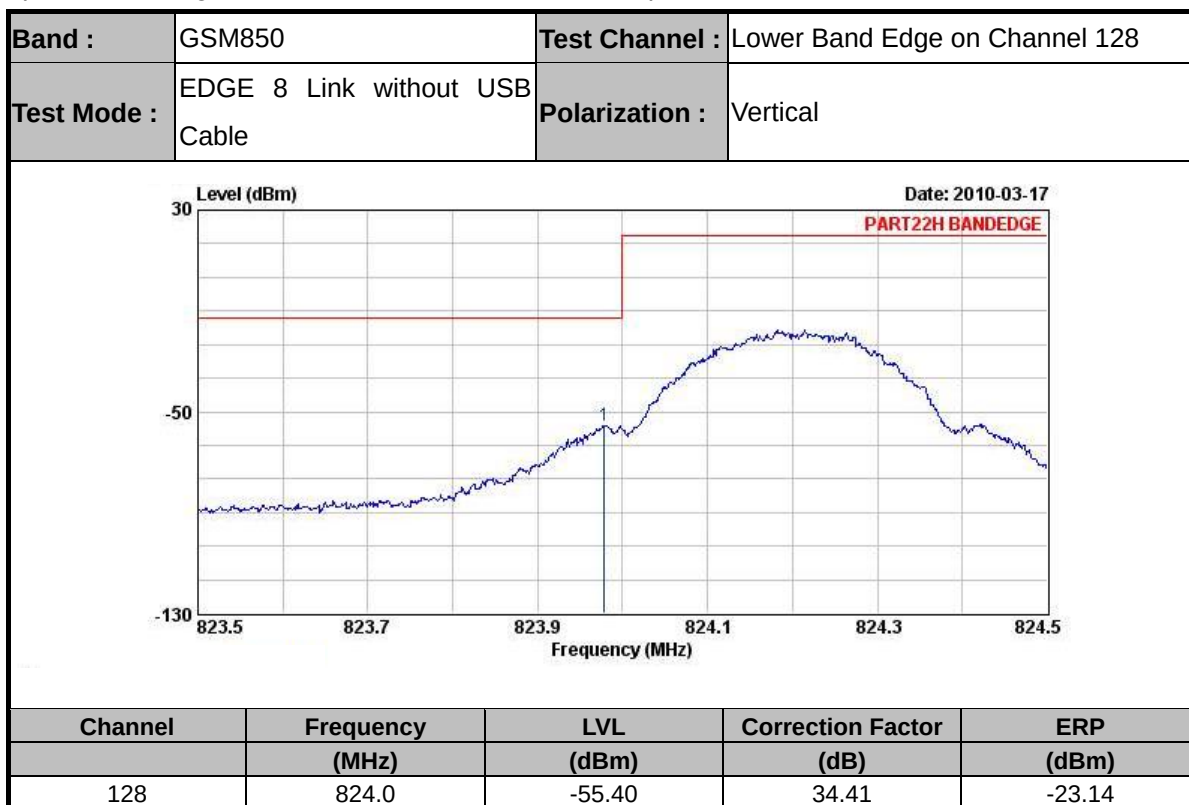
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



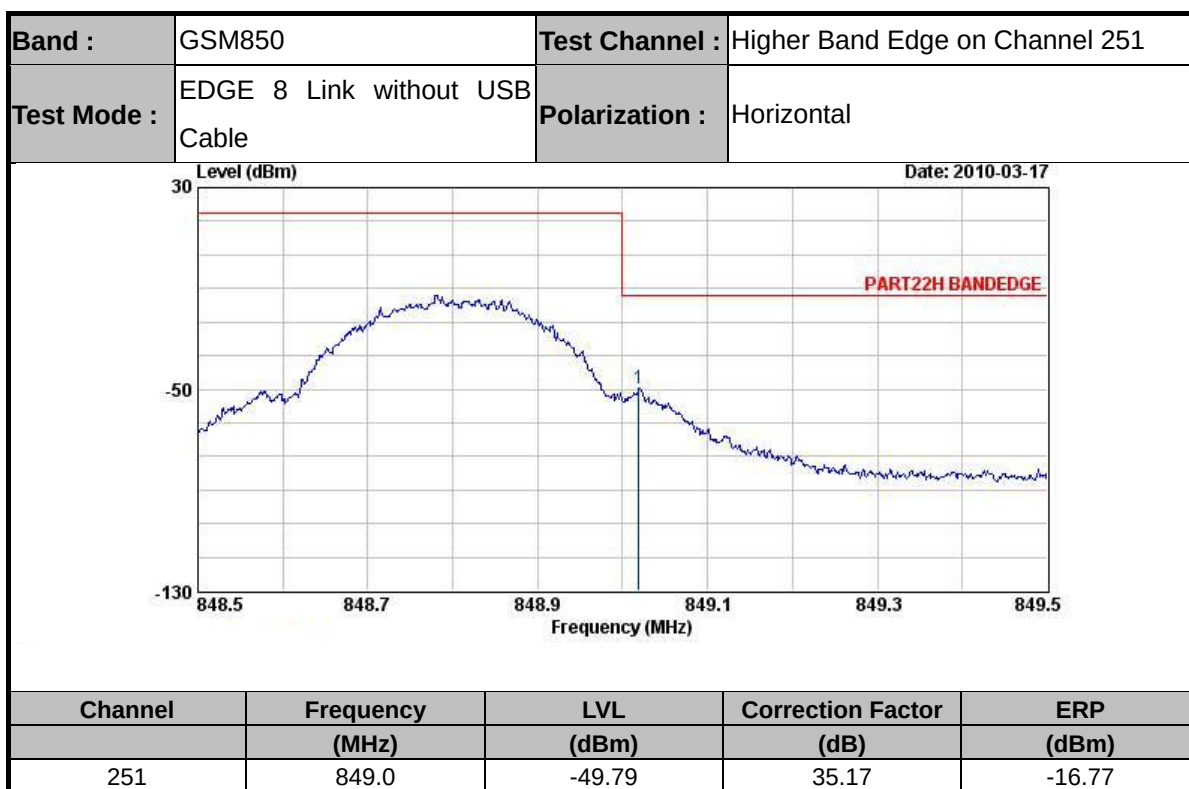
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



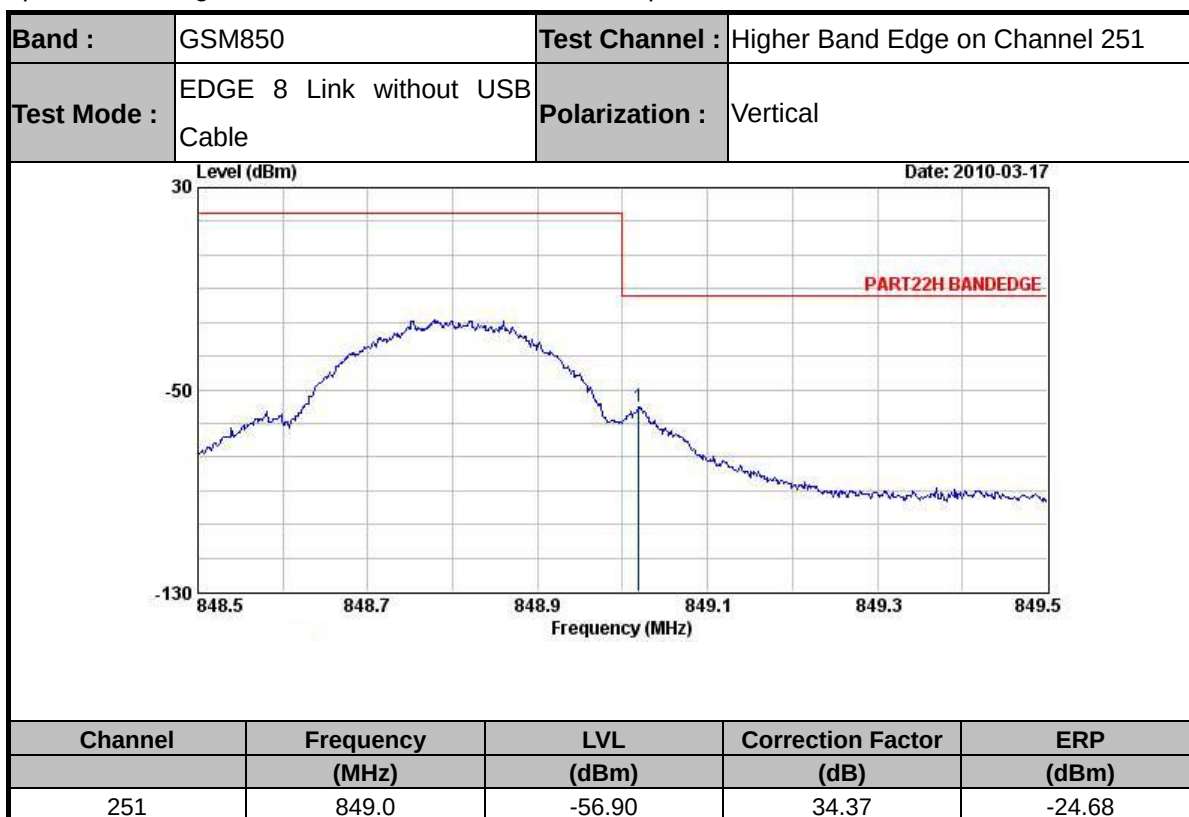
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



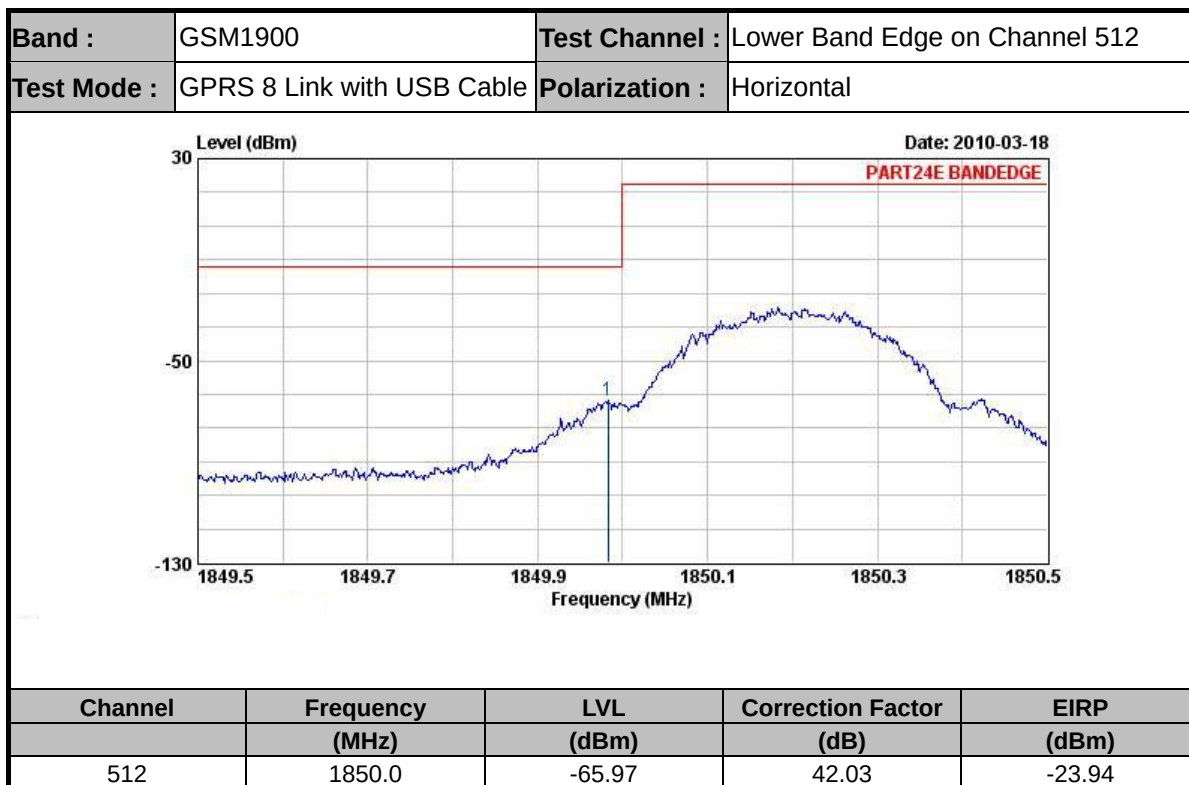
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



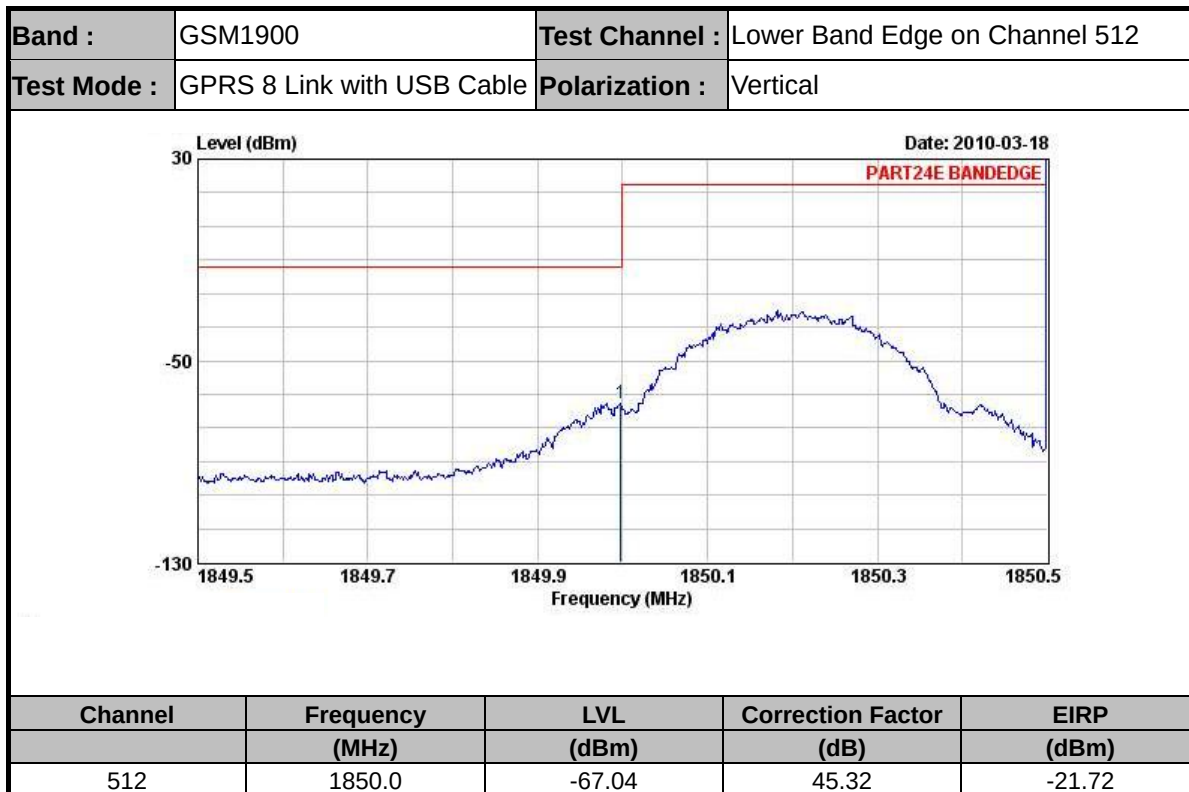
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



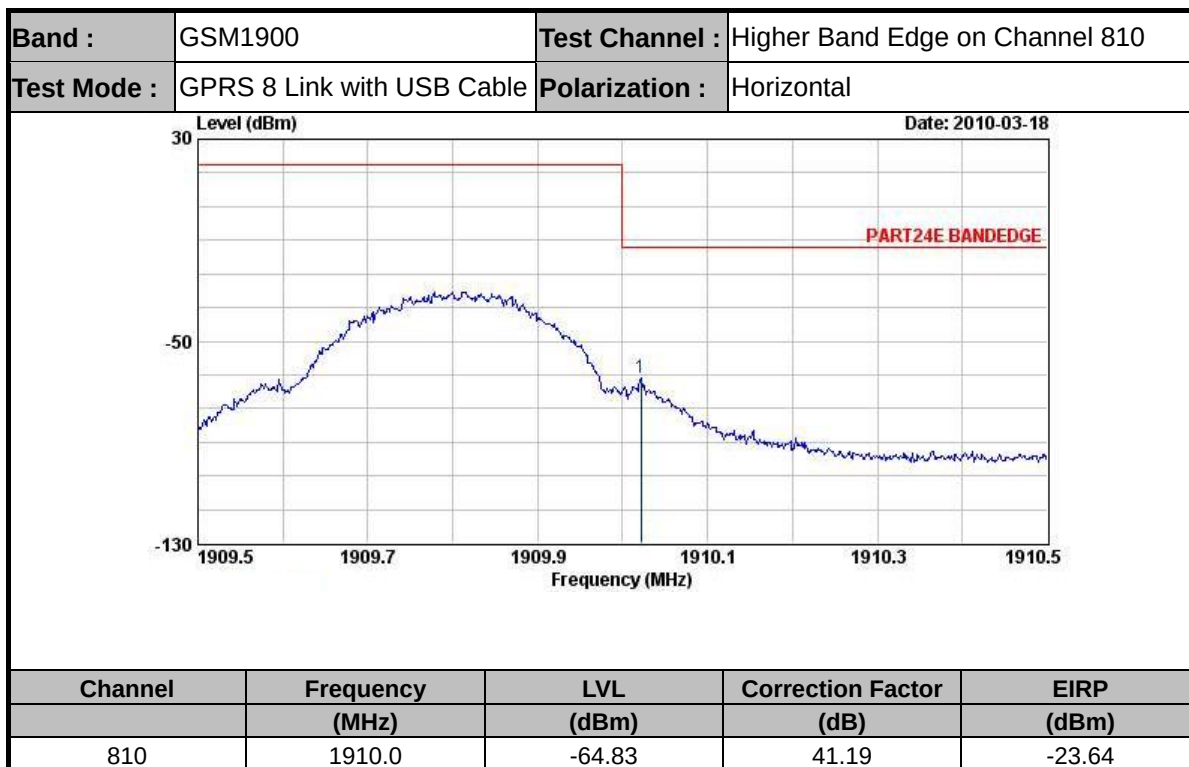
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



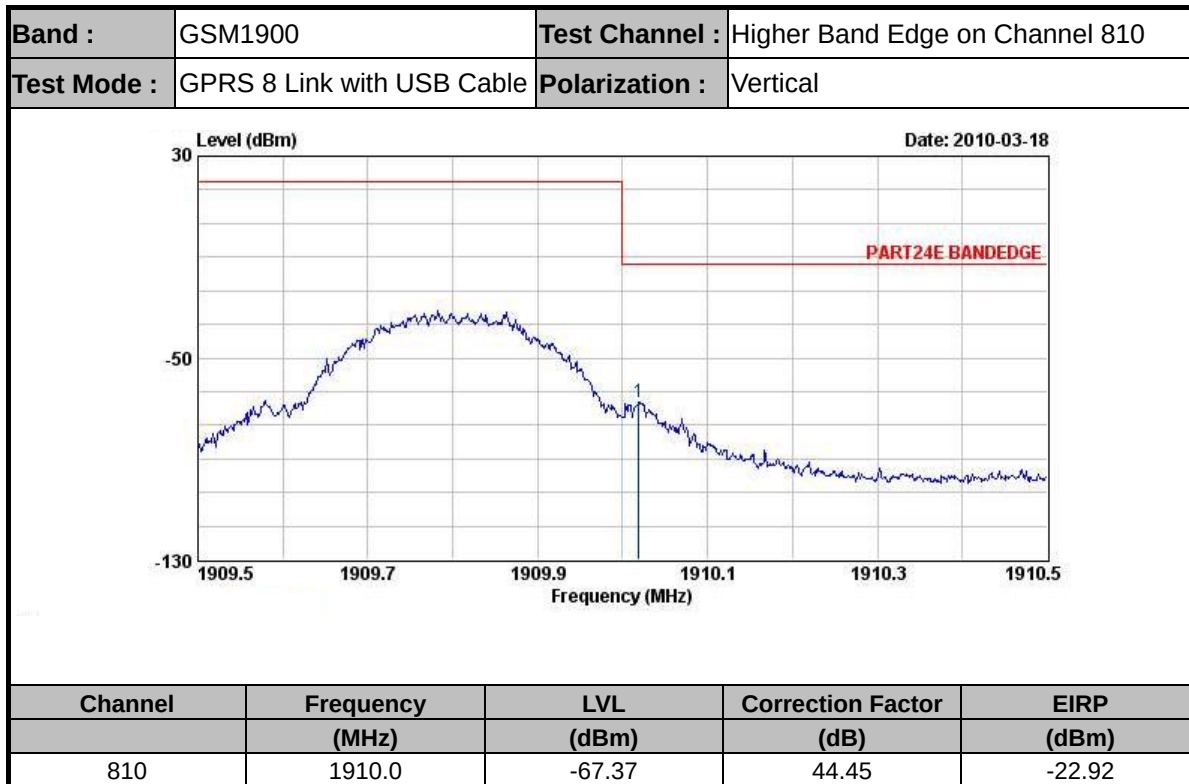
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



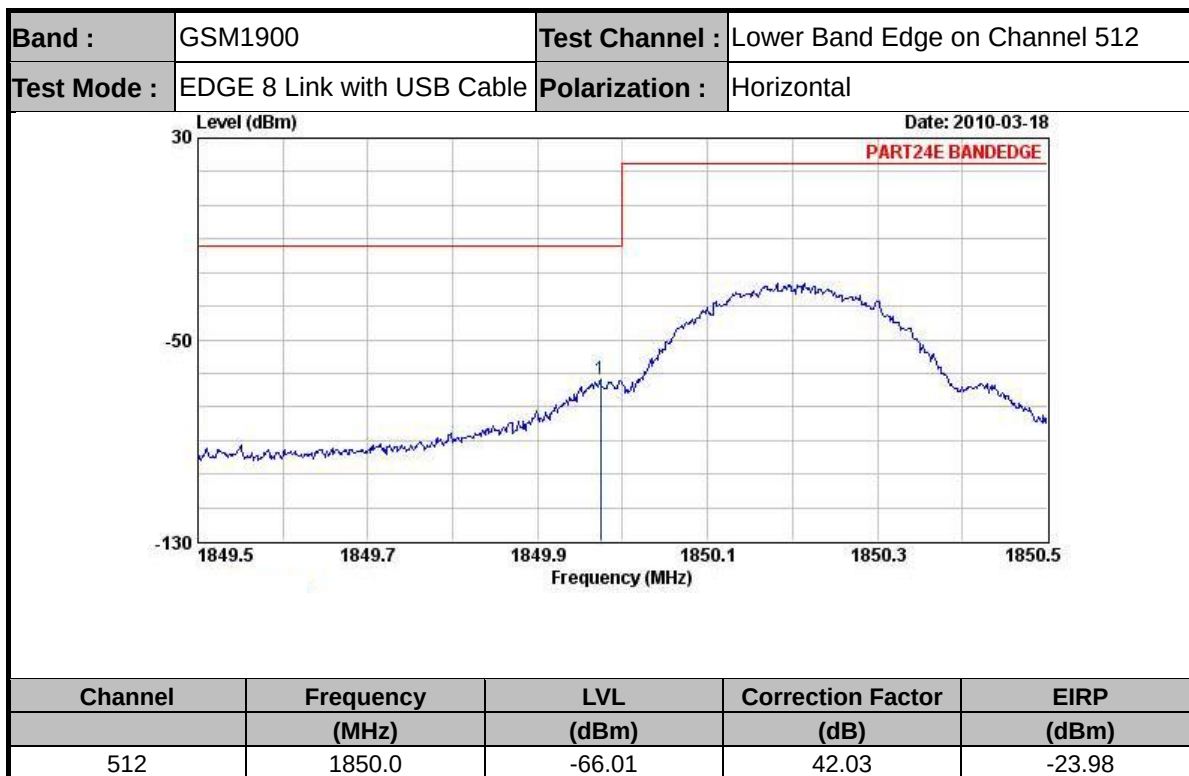
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



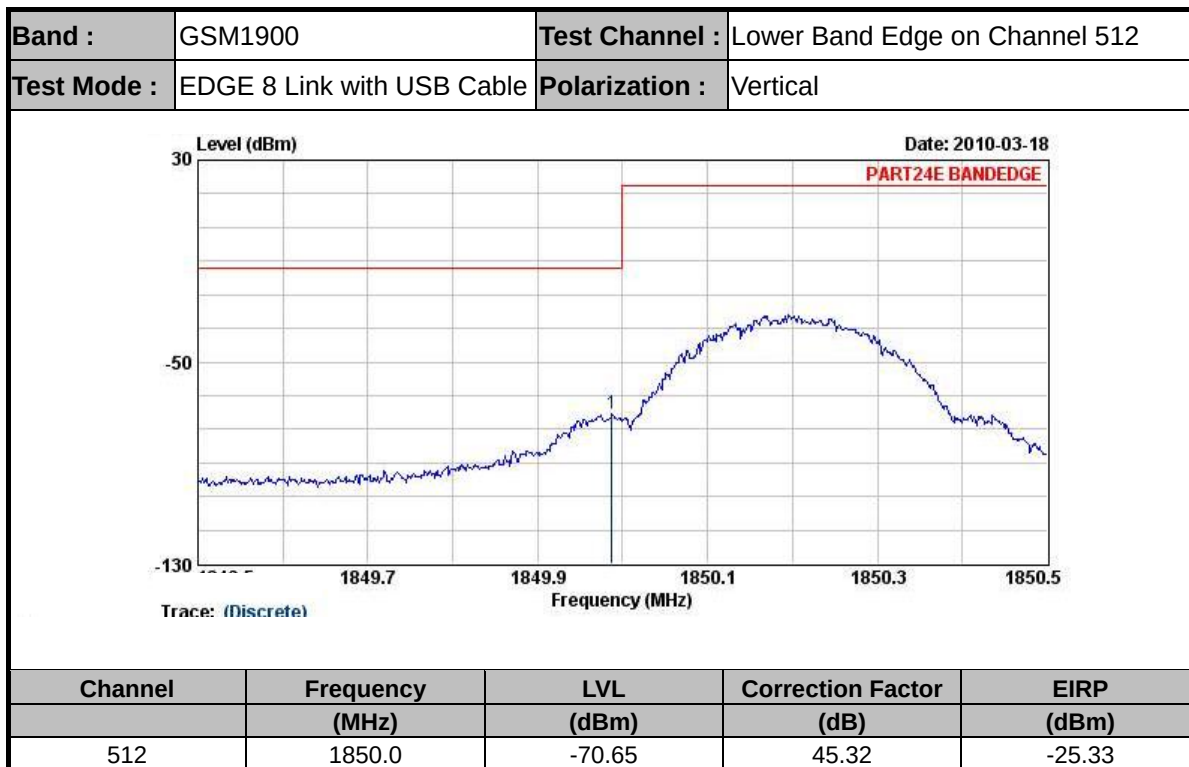
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



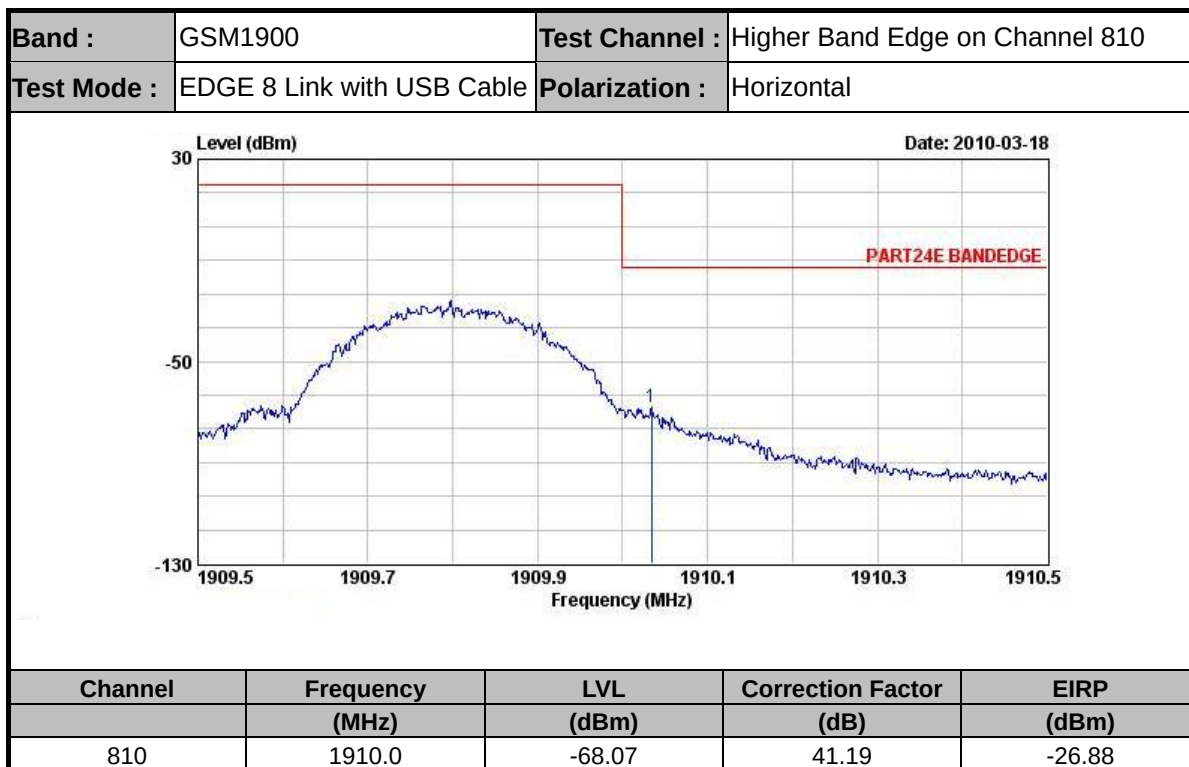
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



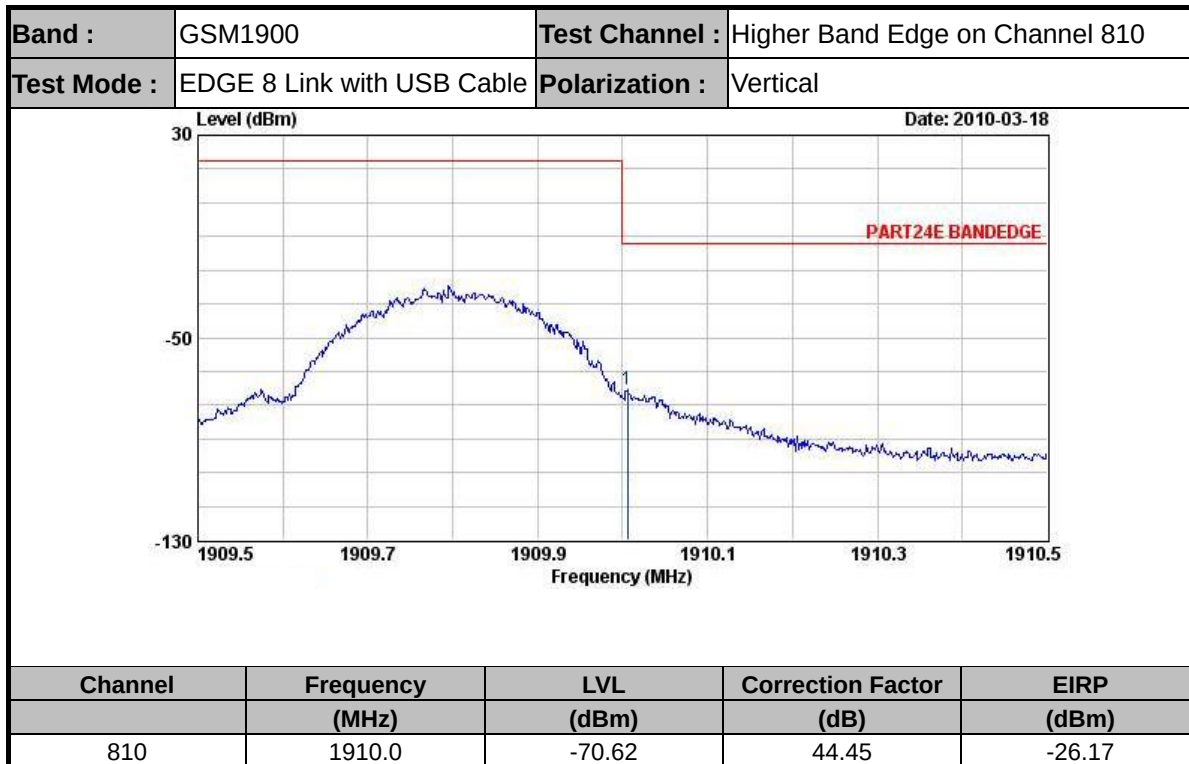
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



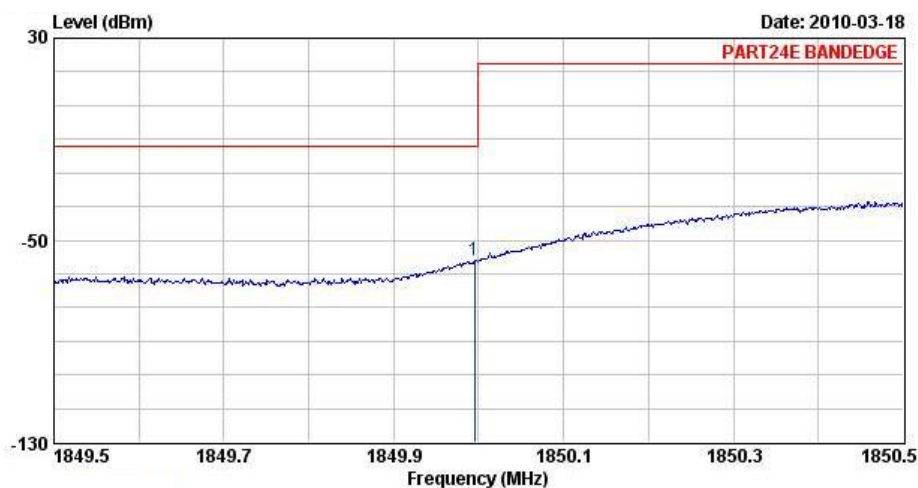
Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



Spectrum Setting : RBW = 3 kHz, VBW = 3 kHz, Sweep = 300 ms



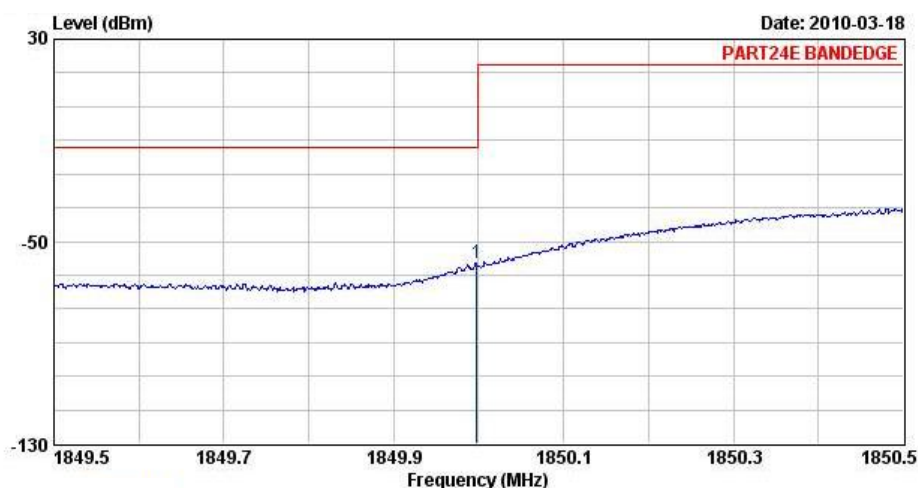
Band :	WCDMA Band II	Test Channel :	Lower Band Edge on Channel 9262
Test Mode :	RMC 12.2Kbps Link with USB Cable	Polarization :	Horizontal



Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)
9262	1850.0	-58.17	42.03	-16.14

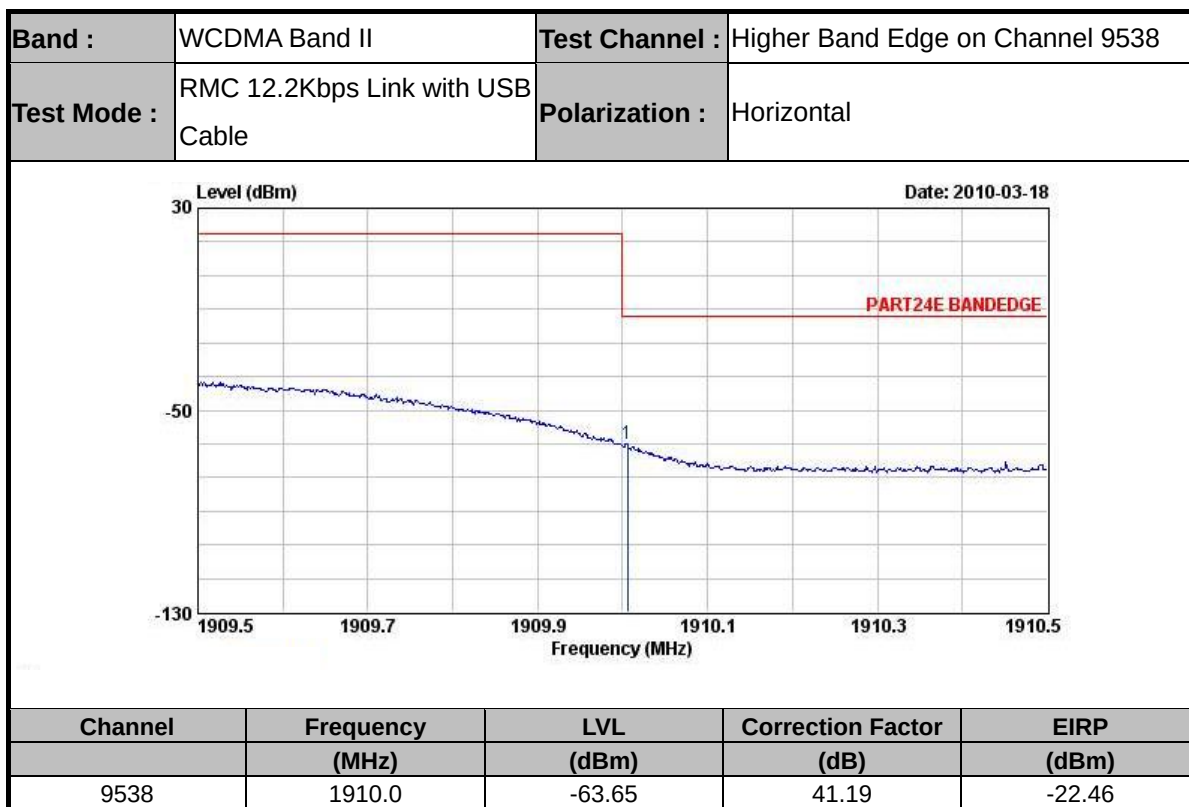
Spectrum Setting : RBW = 100 kHz, VBW = 100 kHz, Sweep = 300 ms

Band :	WCDMA Band II	Test Channel :	Lower Band Edge on Channel 9262
Test Mode :	RMC 12.2Kbps Link with USB Cable	Polarization :	Vertical

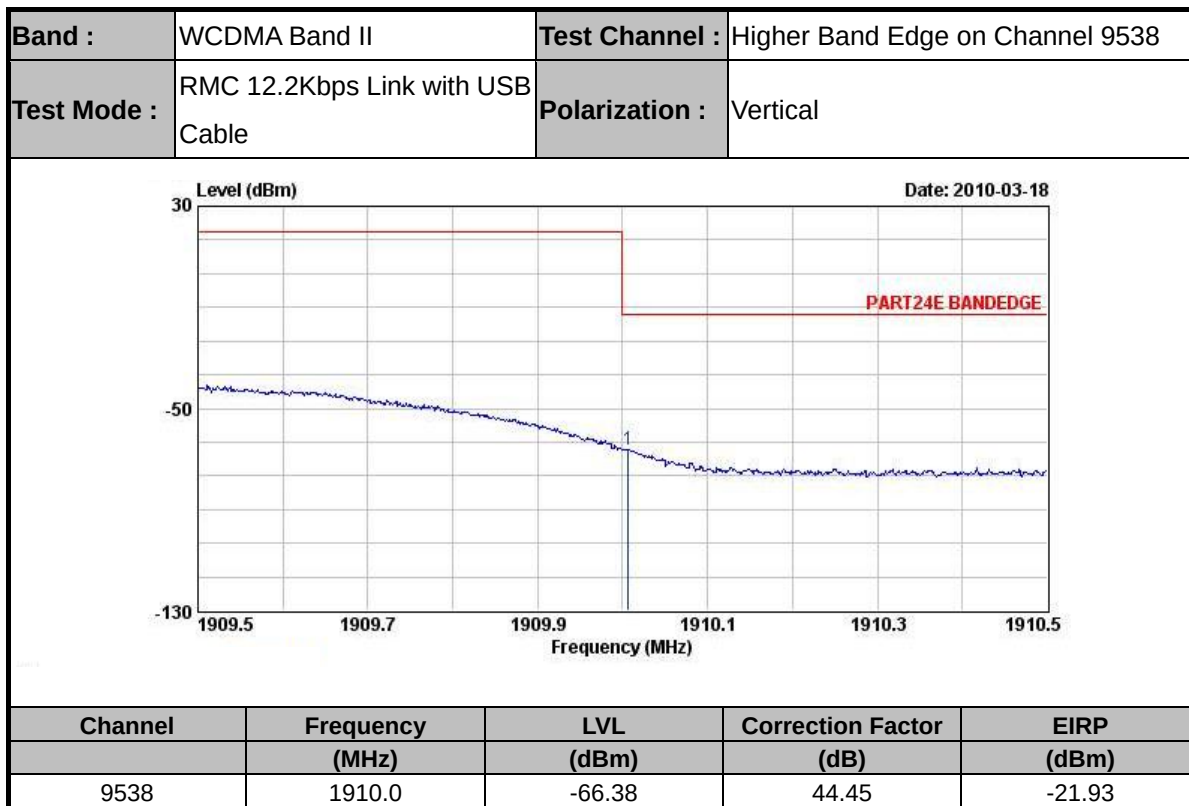


Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)
9262	1850.0	-58.61	45.32	-13.29

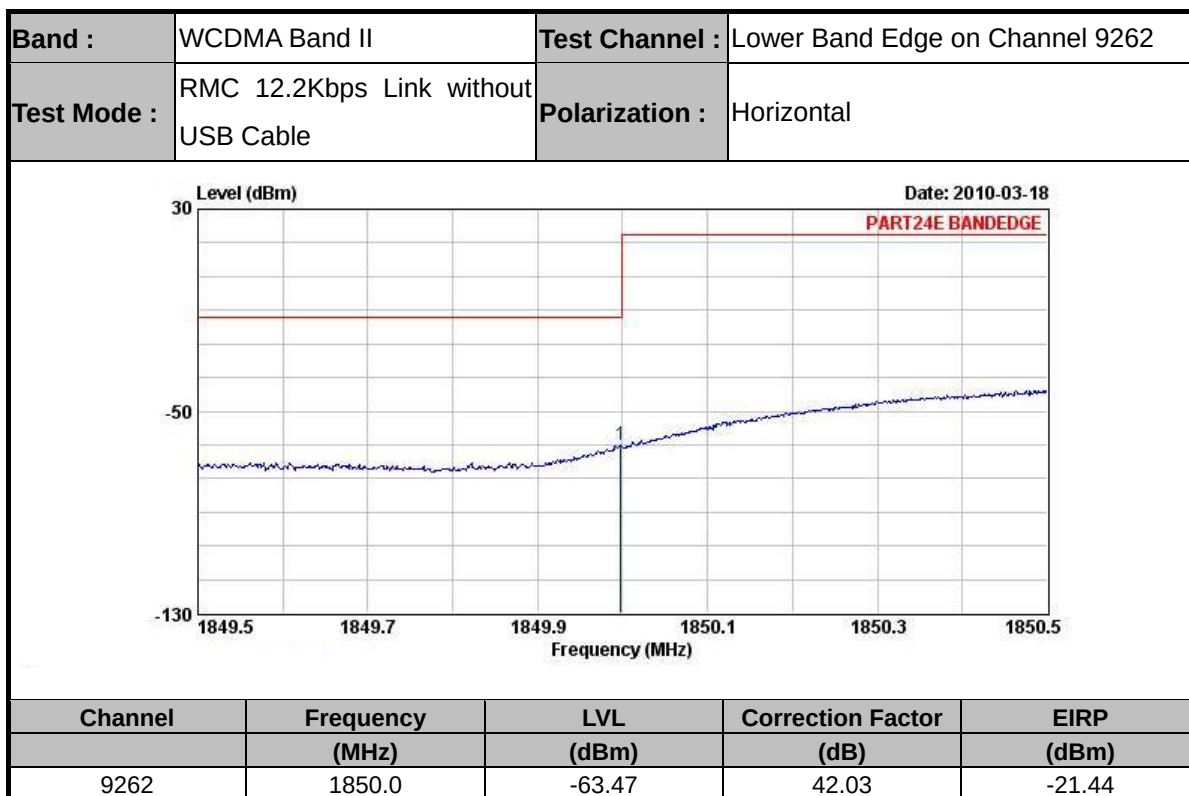
Spectrum Setting : RBW = 100 kHz, VBW = 100 kHz, Sweep = 300 ms



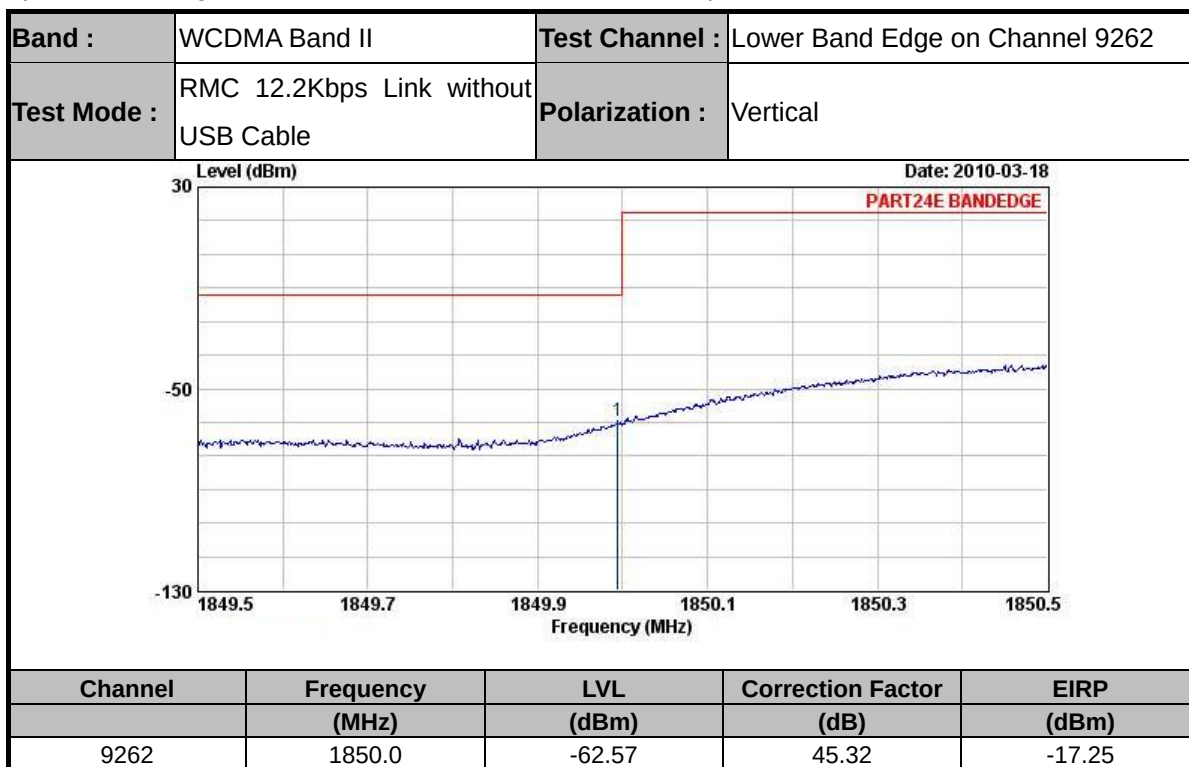
Spectrum Setting : RBW = 100 kHz, VBW = 100 kHz, Sweep = 300 ms



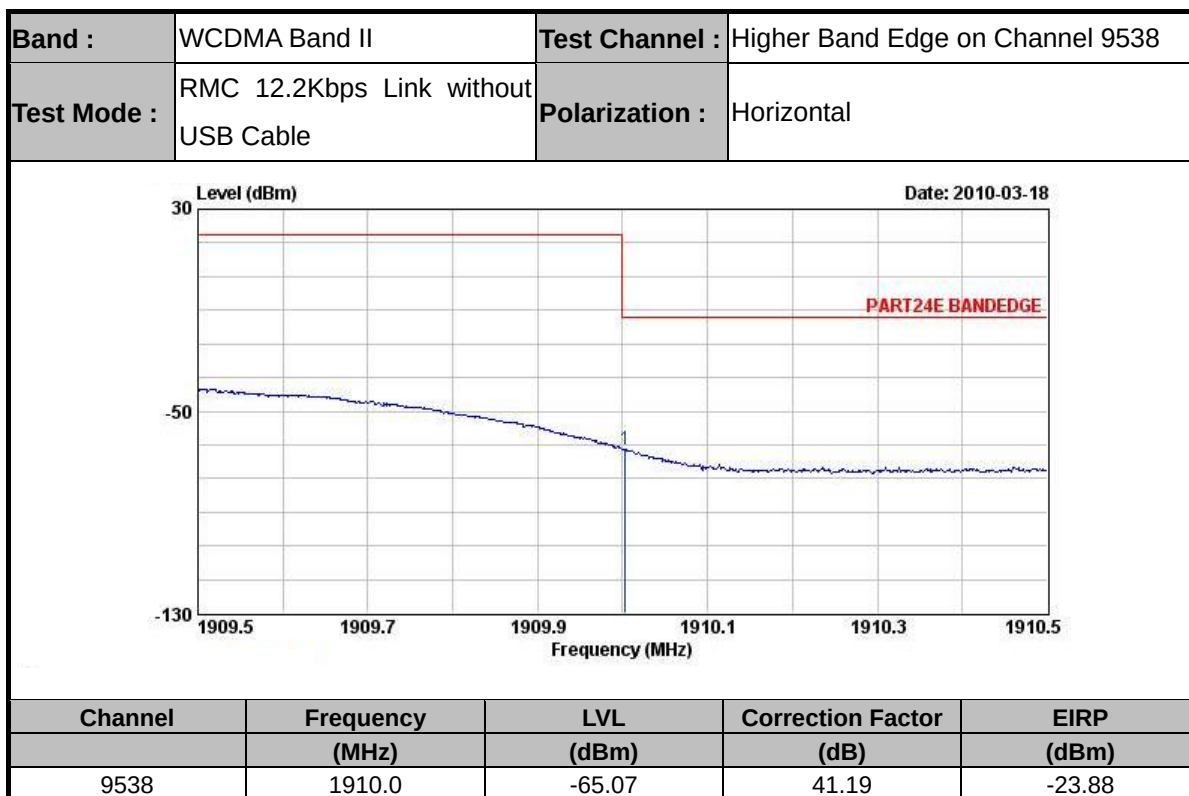
Spectrum Setting : RBW = 100 kHz, VBW = 100 kHz, Sweep = 300 ms



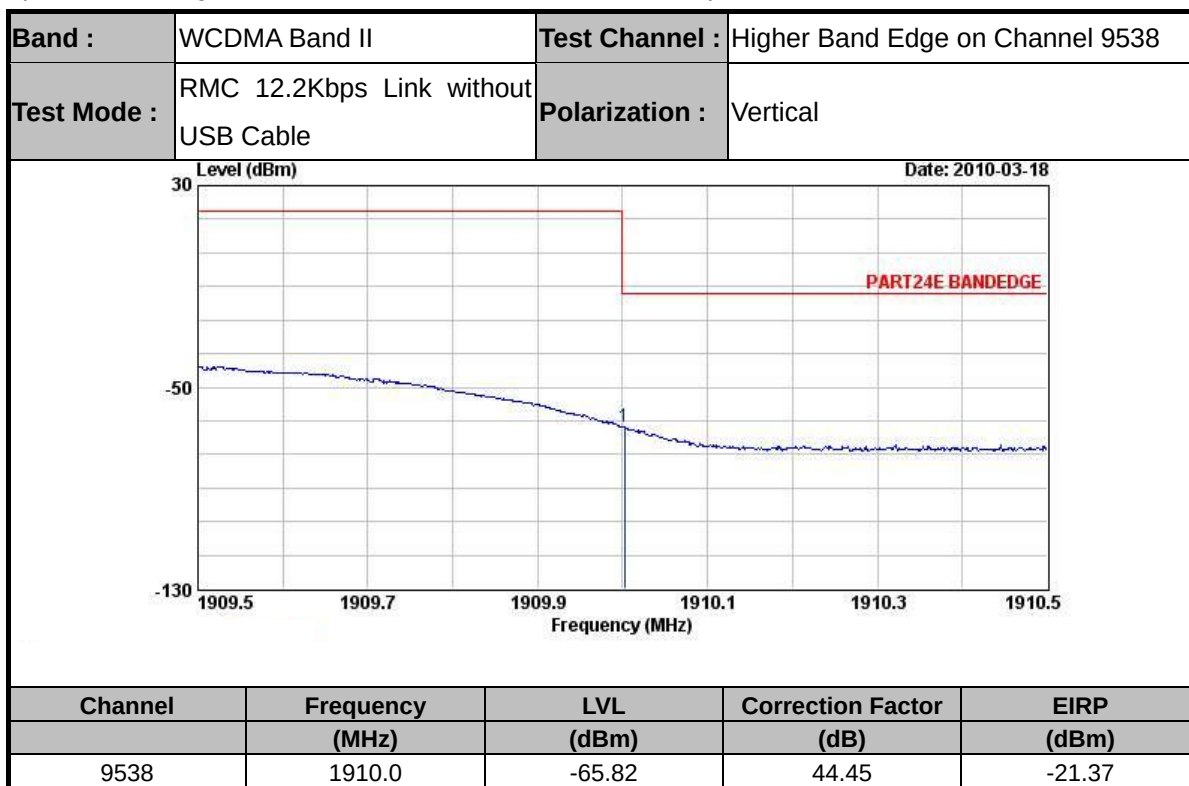
Spectrum Setting : RBW = 100 kHz, VBW = 100 kHz, Sweep = 300 ms



Spectrum Setting : RBW = 100 kHz, VBW = 100 kHz, Sweep = 300 ms



Spectrum Setting : RBW = 100 kHz, VBW = 100 kHz, Sweep = 300 ms



Spectrum Setting : RBW = 100 kHz, VBW = 100 kHz, Sweep = 300 ms

3.4 Conducted Emission Measurement

3.4.1 Description of Conducted Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

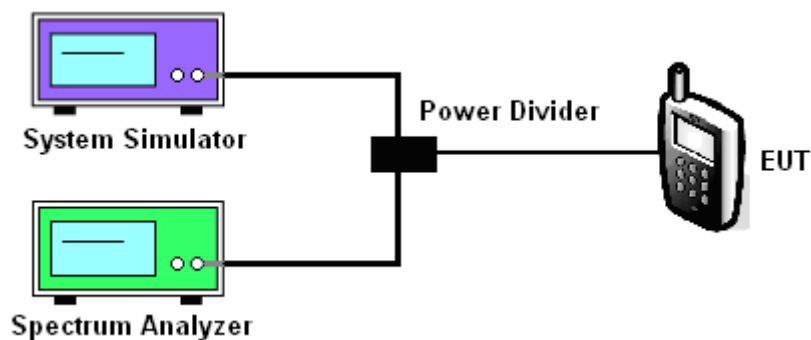
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

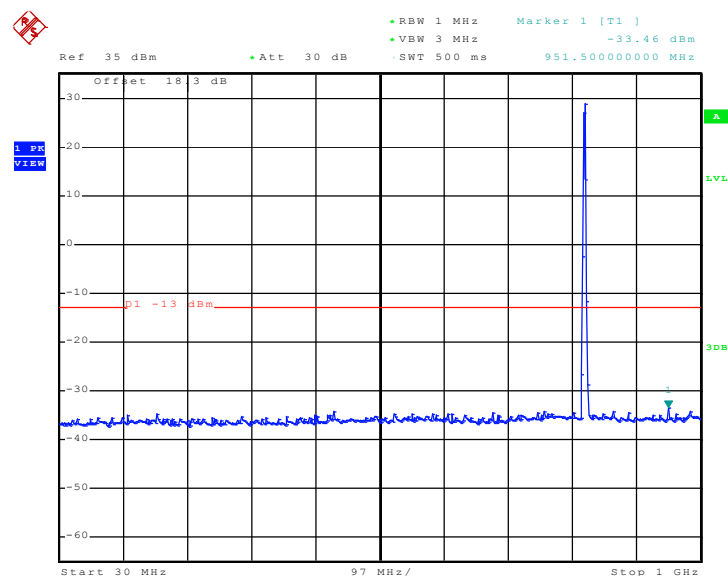
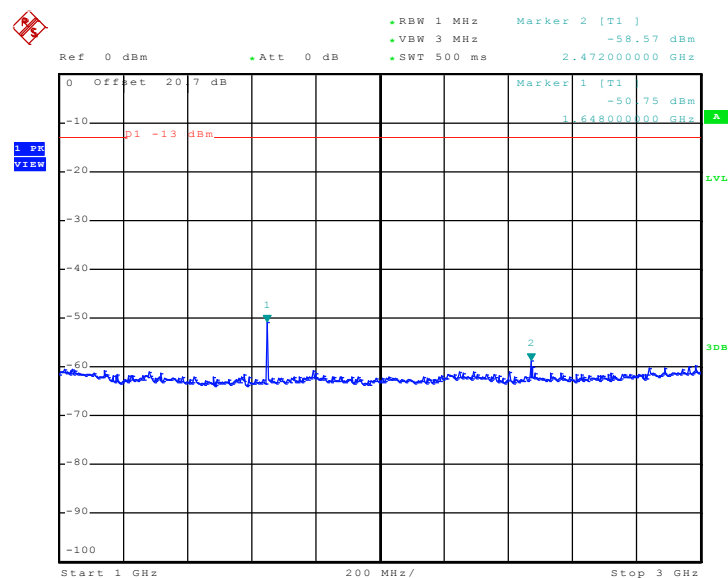
1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

3.4.4 Test Setup

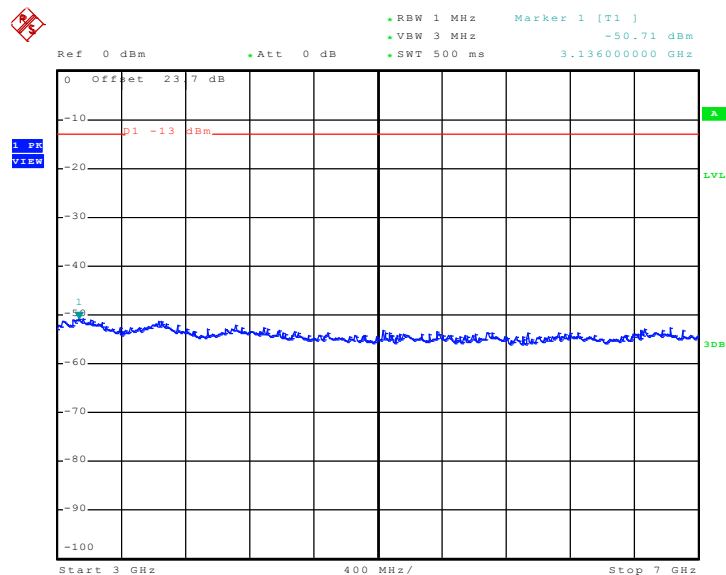


3.4.5 Test Result (Plots) of Conducted Emission

Band :	GSM850	Channel :	CH128
Test Mode :	GPRS 8 Link		

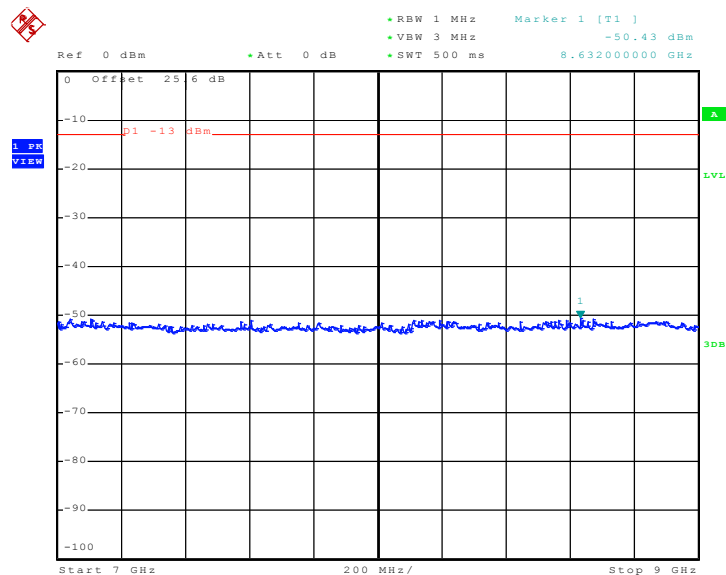
Conducted Emission Plot between 30MHz ~ 1GHz

Conducted Emission Plot between 1GHz ~ 3GHz


Conducted Emission Plot between 3GHz ~ 7GHz



Date: 18.MAR.2010 19:39:15

Conducted Emission Plot between 7GHz ~ 9GHz

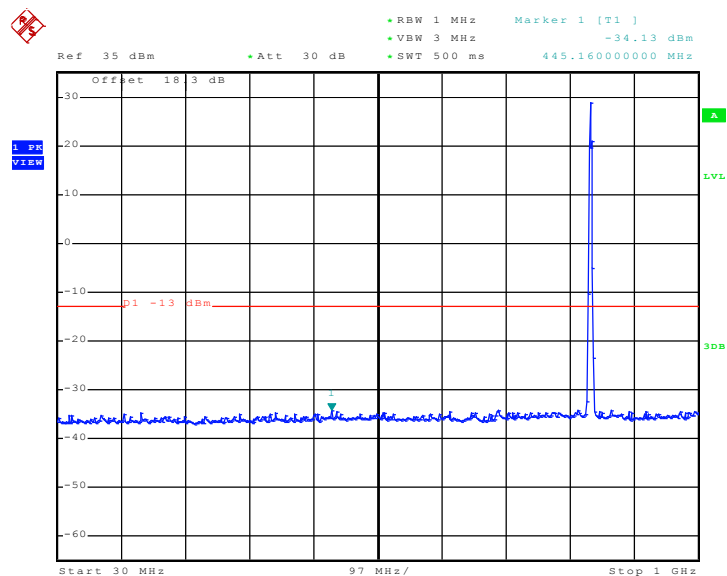


Date: 18.MAR.2010 19:42:24



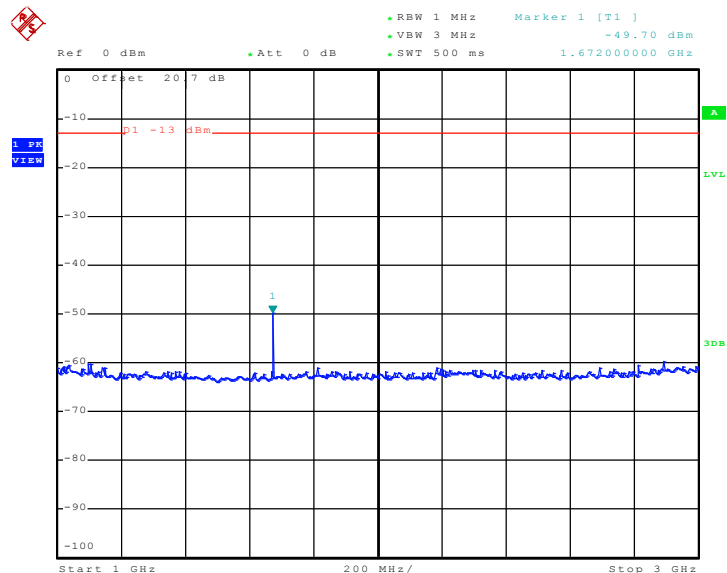
Band :	GSM850	Channel :	CH189
Test Mode :	GPRS 8 Link		

Conducted Emission Plot between 30MHz ~ 1GHz



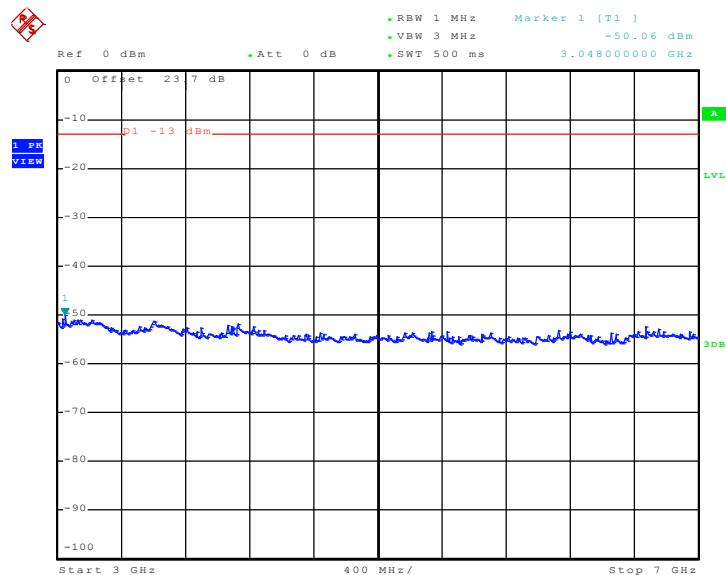
Date: 18.MAR.2010 19:33:50

Conducted Emission Plot between 1GHz ~ 3GHz



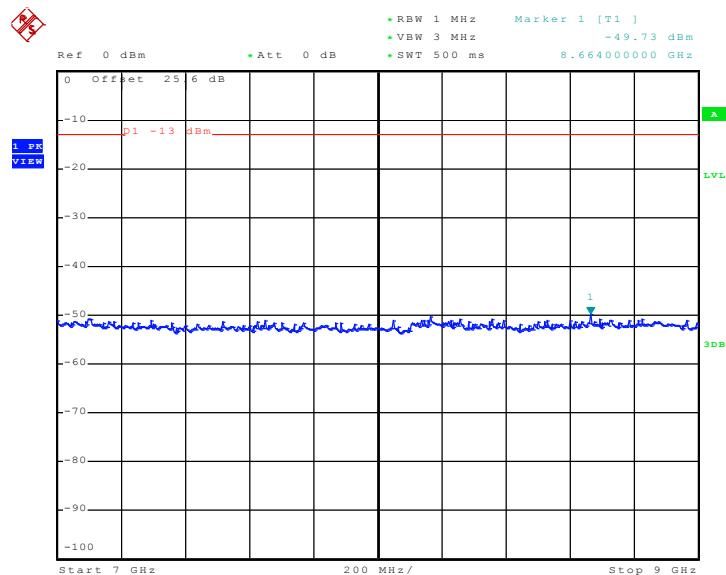
Date: 18.MAR.2010 19:37:05

Conducted Emission Plot between 3GHz ~ 7GHz



Date: 18.MAR.2010 19:39:48

Conducted Emission Plot between 7GHz ~ 9GHz

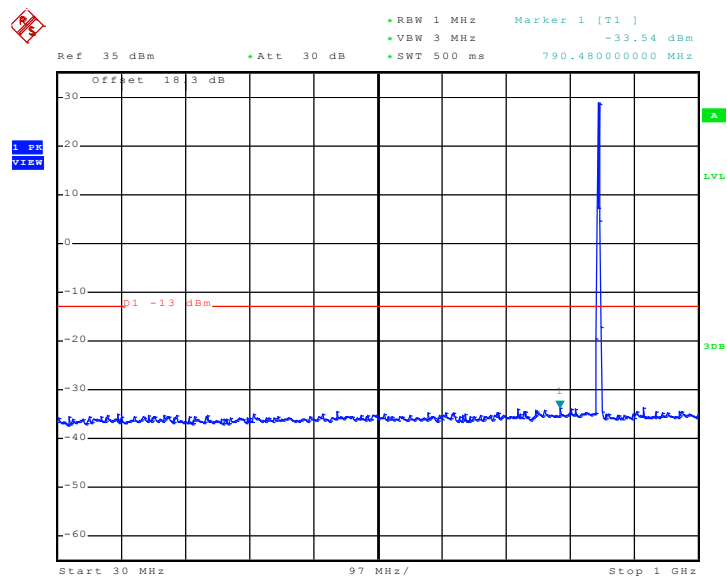


Date: 18.MAR.2010 19:41:55



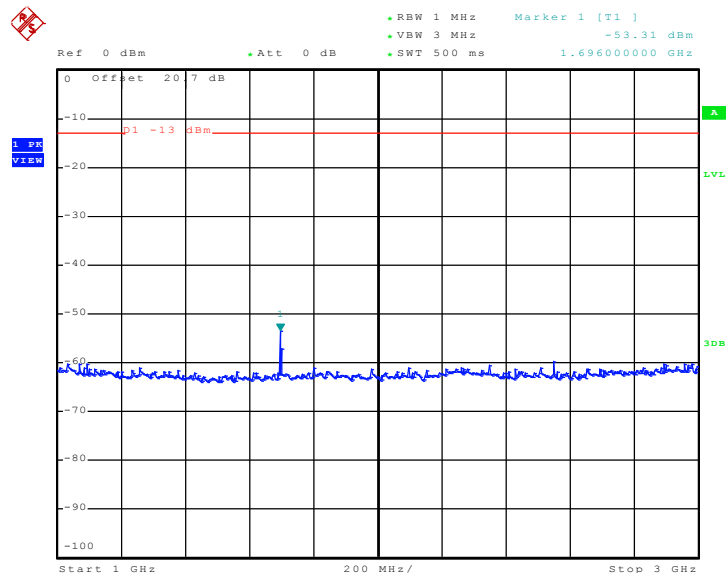
Band :	GSM850	Channel :	CH251
Test Mode :	GPRS 8 Link		

Conducted Emission Plot between 30MHz ~ 1GHz



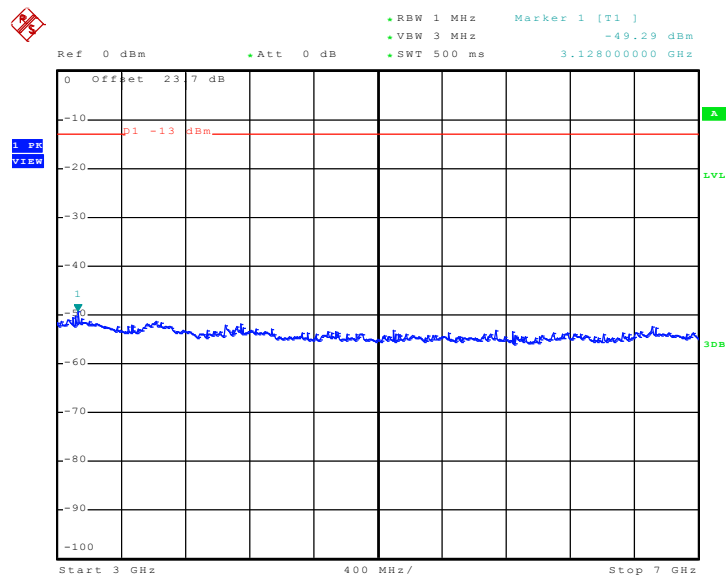
Date: 18.MAR.2010 19:34:38

Conducted Emission Plot between 1GHz ~ 3GHz



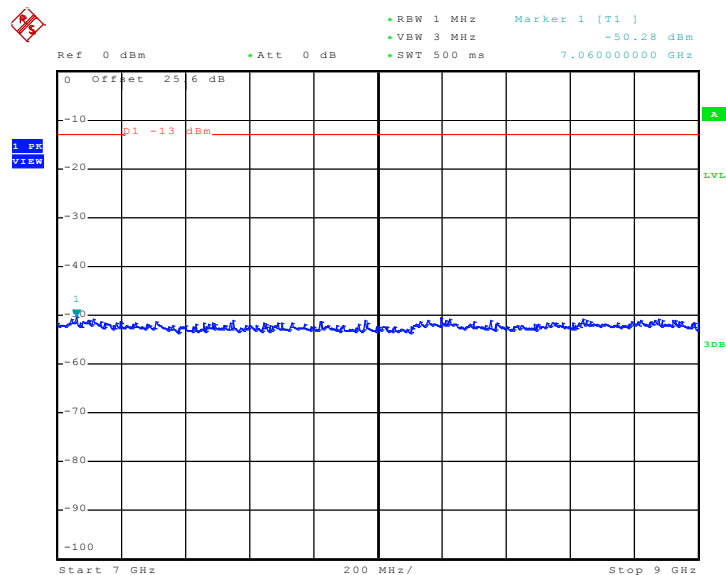
Date: 18.MAR.2010 19:36:31

Conducted Emission Plot between 3GHz ~ 7GHz



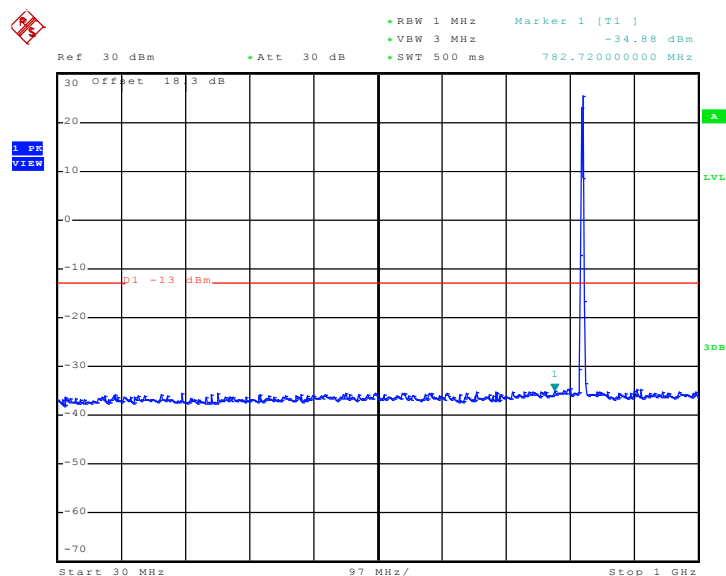
Date: 18.MAR.2010 19:40:25

Conducted Emission Plot between 7GHz ~ 9GHz

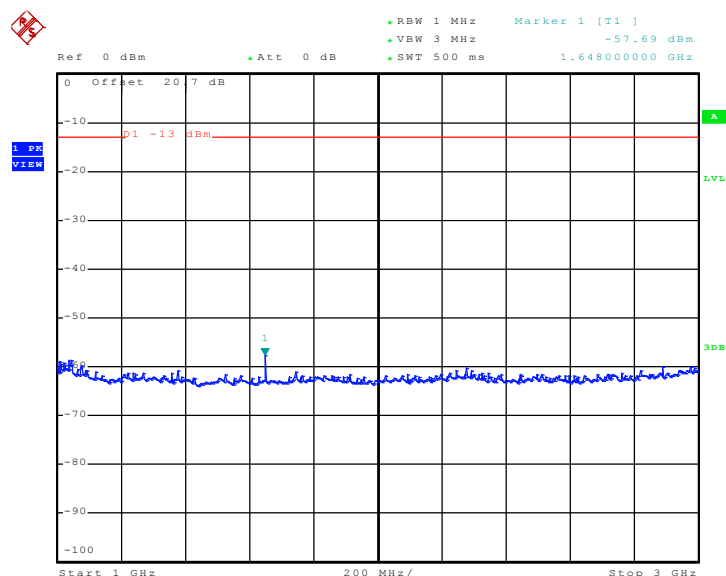


Date: 18.MAR.2010 19:41:22

Band :	GSM850	Channel :	CH128
Test Mode :	EDGE 8 Link		

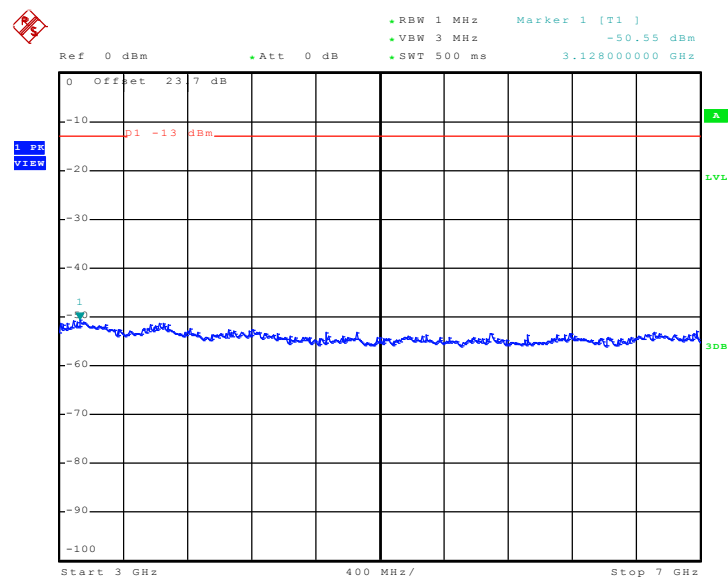
Conducted Emission Plot between 30MHz ~ 1GHz


Date: 18.MAR.2010 19:48:58

Conducted Emission Plot between 1GHz ~ 3GHz


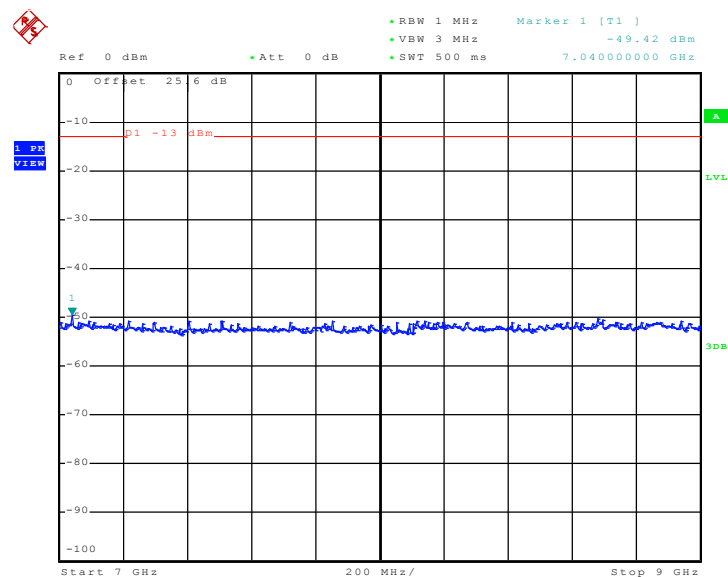
Date: 18.MAR.2010 19:10:31

Conducted Emission Plot between 3GHz ~ 7GHz



Date: 18.MAR.2010 19:11:29

Conducted Emission Plot between 7GHz ~ 9GHz

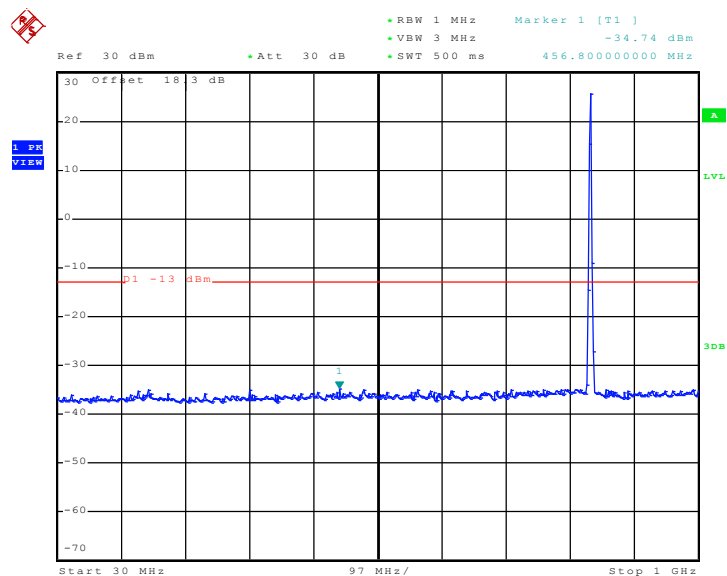


Date: 18.MAR.2010 19:24:11



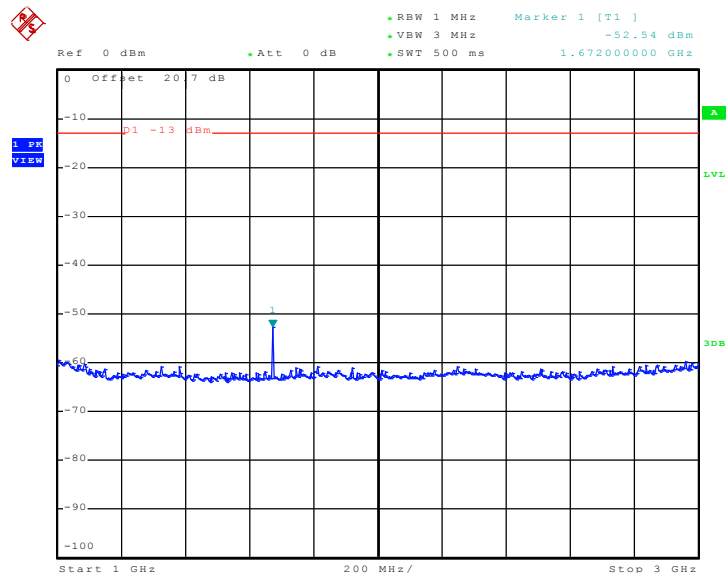
Band :	GSM850	Channel :	CH189
Test Mode :	EDGE 8 Link		

Conducted Emission Plot between 30MHz ~ 1GHz



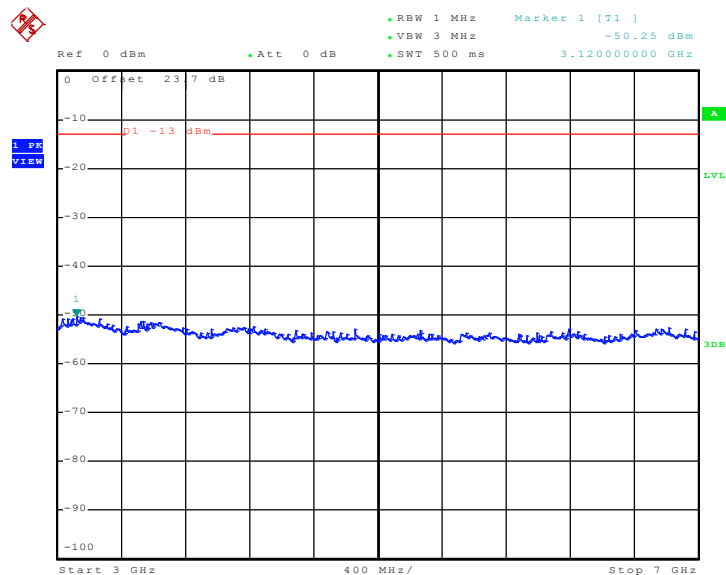
Date: 18.MAR.2010 19:04:51

Conducted Emission Plot between 1GHz ~ 3GHz



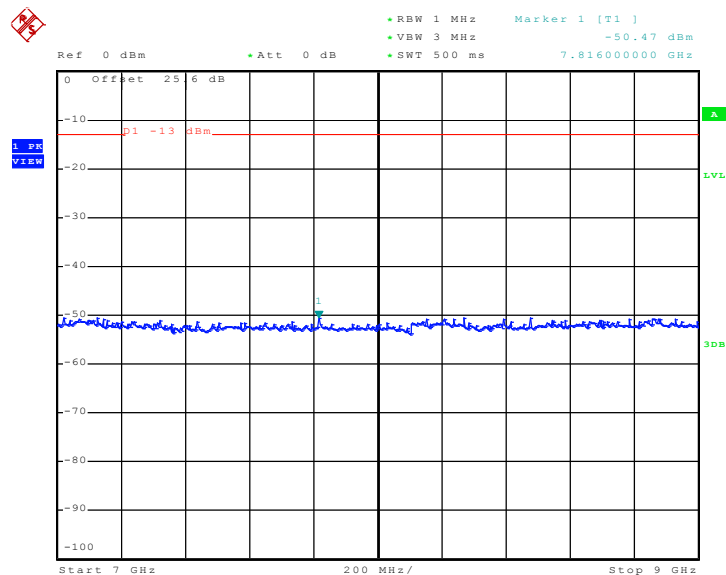
Date: 18.MAR.2010 19:09:54

Conducted Emission Plot between 3GHz ~ 7GHz



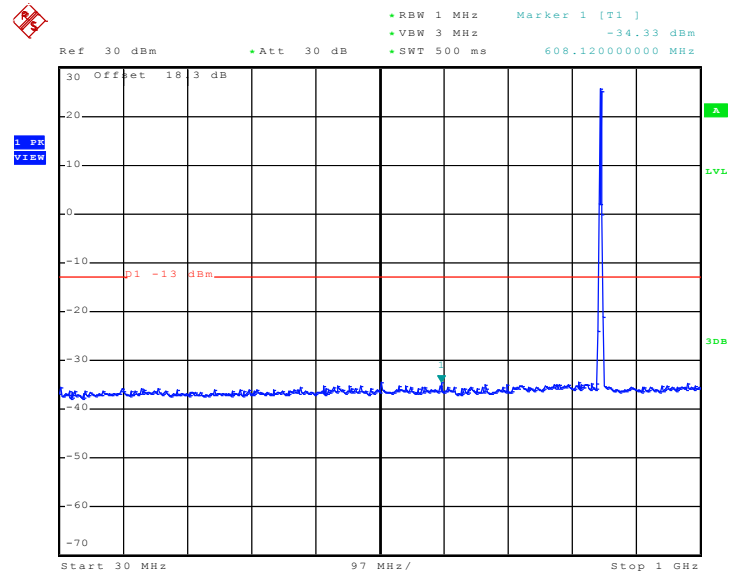
Date: 18.MAR.2010 19:12:10

Conducted Emission Plot between 7GHz ~ 9GHz

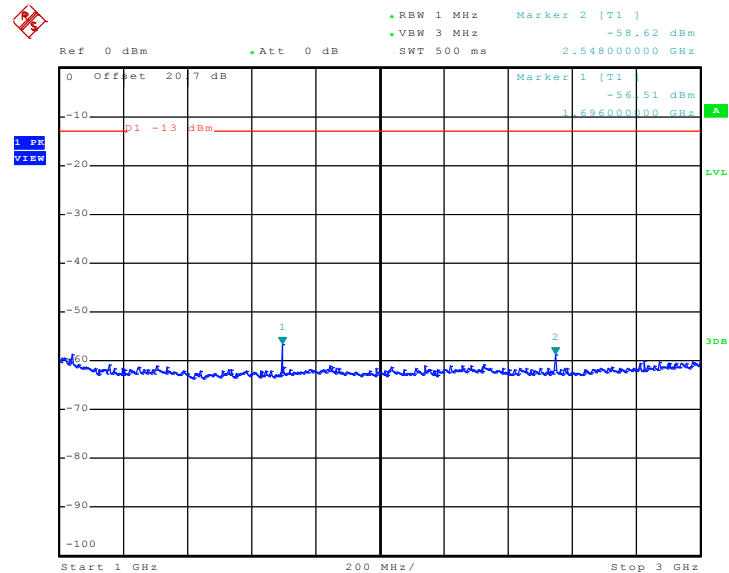


Date: 18.MAR.2010 19:24:48

Band :	GSM850	Channel :	CH251
Test Mode :	EDGE 8 Link		

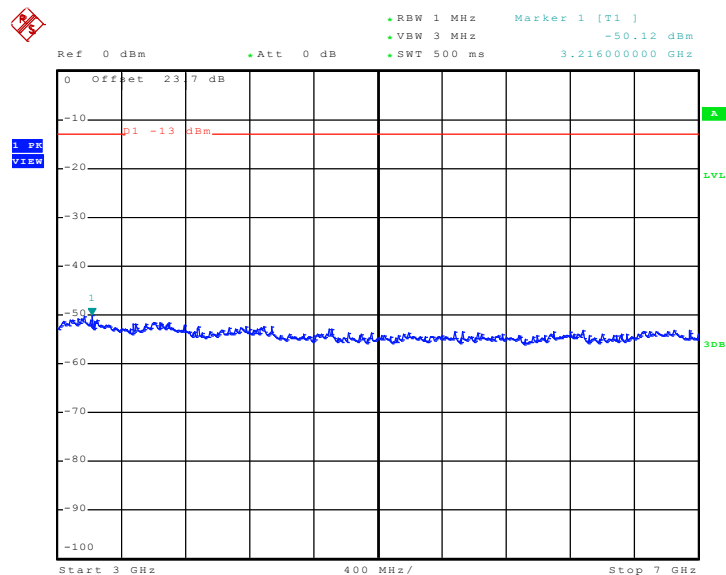
Conducted Emission Plot between 30MHz ~ 1GHz


Date: 18.MAR.2010 19:06:17

Conducted Emission Plot between 1GHz ~ 3GHz


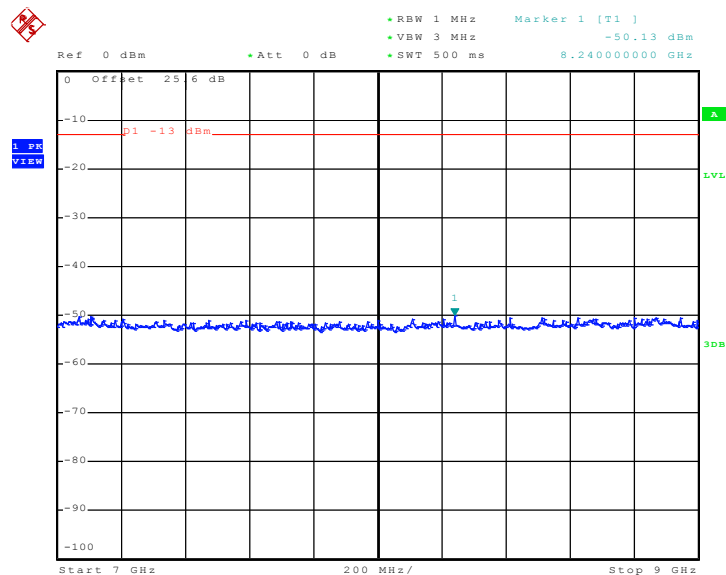
Date: 18.MAR.2010 19:09:08

Conducted Emission Plot between 3GHz ~ 7GHz



Date: 18.MAR.2010 19:45:59

Conducted Emission Plot between 7GHz ~ 9GHz

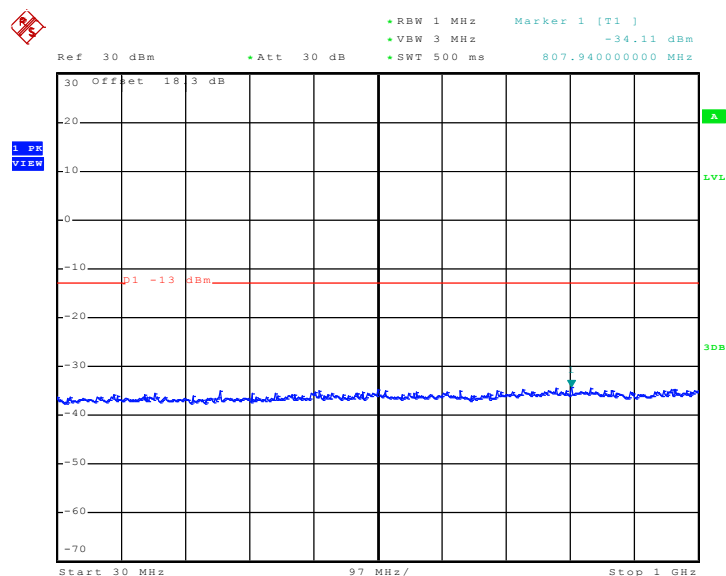


Date: 18.MAR.2010 19:25:30



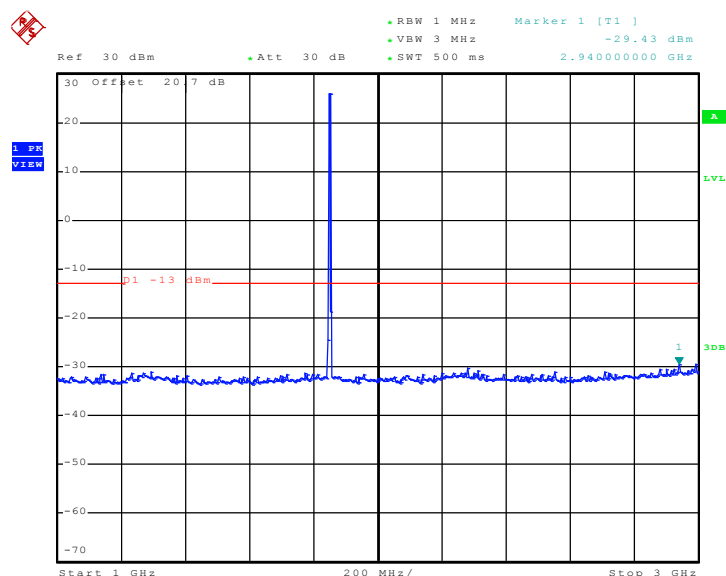
Band :	GSM1900	Channel :	CH512
Test Mode :	GPRS 8 Link		

Conducted Emission Plot between 30MHz ~ 1GHz



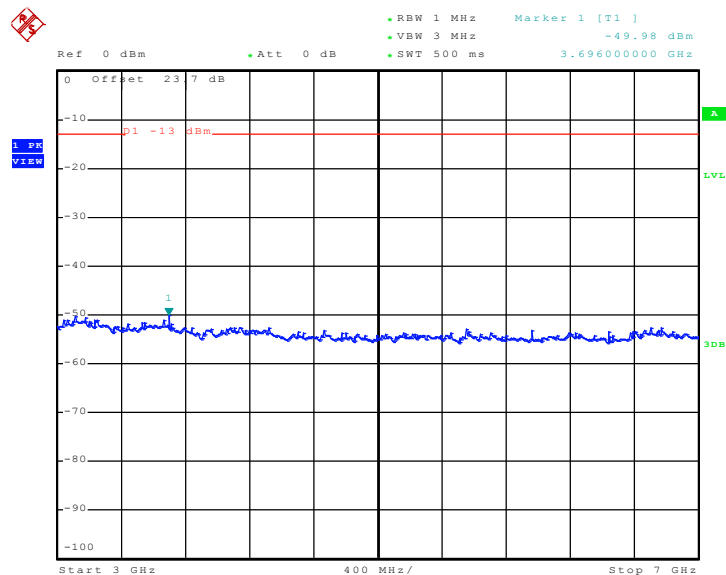
Date: 18.MAR.2010 17:46:14

Conducted Emission Plot between 1GHz ~ 3GHz



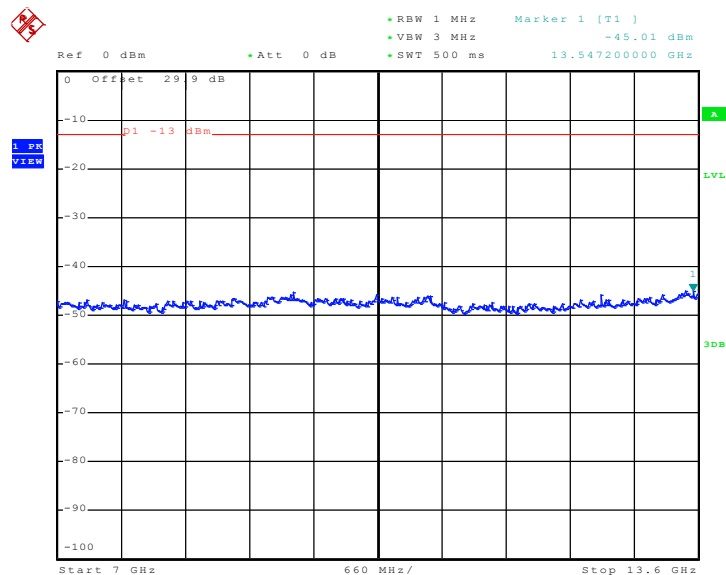
Date: 18.MAR.2010 17:41:19

Conducted Emission Plot between 3GHz ~ 7GHz



Date: 18.MAR.2010 17:48:18

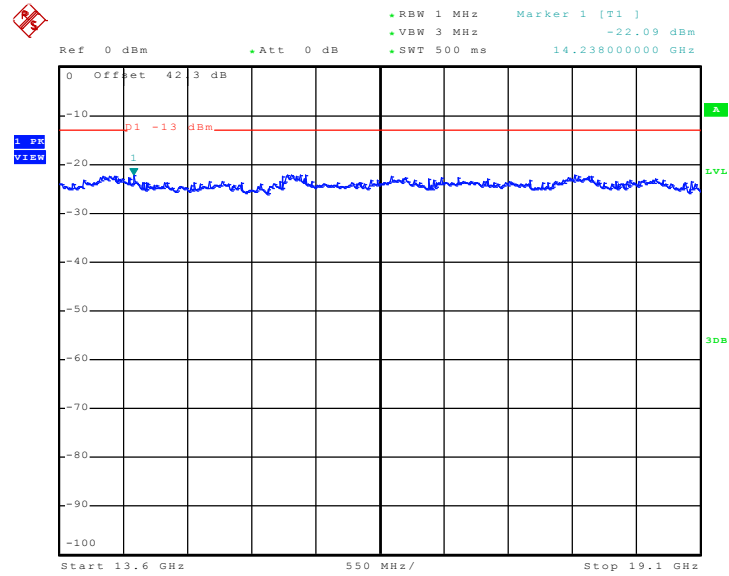
Conducted Emission Plot between 7GHz ~ 13.6GHz



Date: 18.MAR.2010 17:52:10

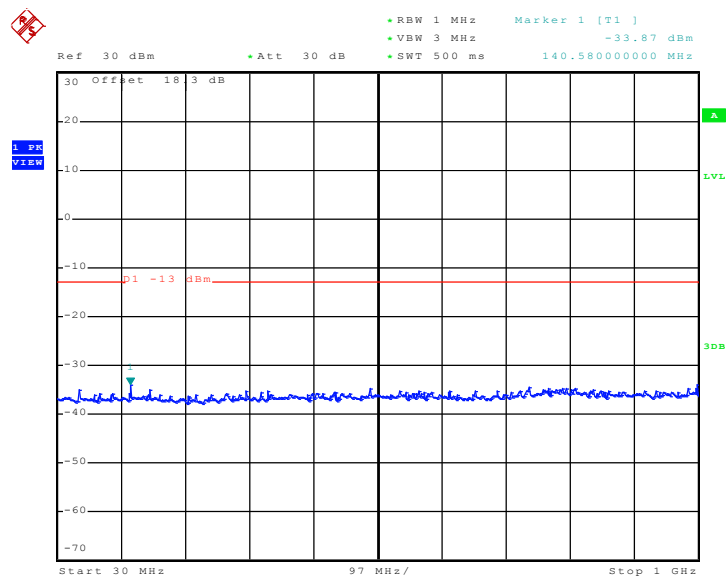


Conducted Emission Plot between 13.6GHz ~ 19.1GHz

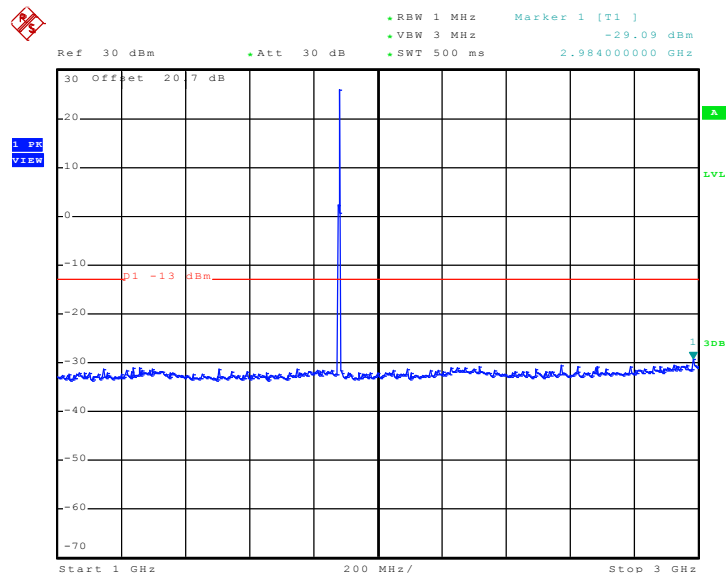


Date: 18.MAR.2010 17:56:47

Band :	GSM1900	Channel :	CH661
Test Mode :	GPRS 8 Link		

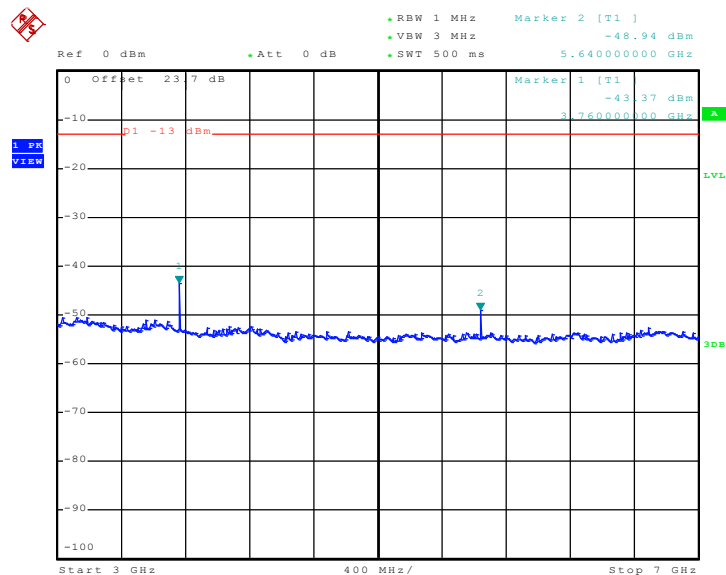
Conducted Emission Plot between 30MHz ~ 1GHz


Date: 18.MAR.2010 17:45:29

Conducted Emission Plot between 1GHz ~ 3GHz


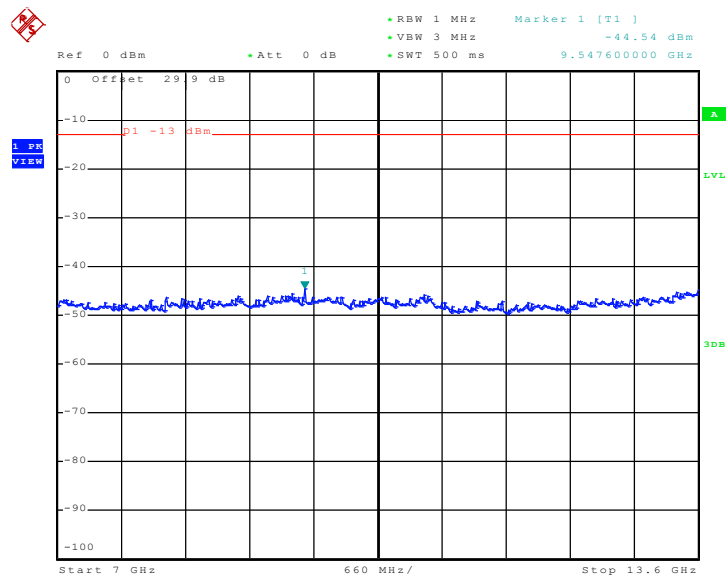
Date: 18.MAR.2010 17:42:22

Conducted Emission Plot between 3GHz ~ 7GHz



Date: 18.MAR.2010 17:49:07

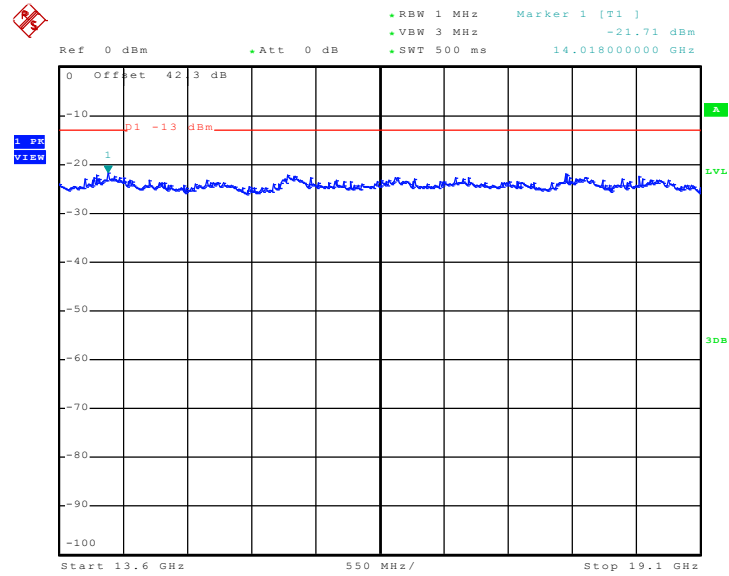
Conducted Emission Plot between 7GHz ~ 13.6GHz



Date: 18.MAR.2010 17:52:52



Conducted Emission Plot between 13.6GHz ~ 19.1GHz

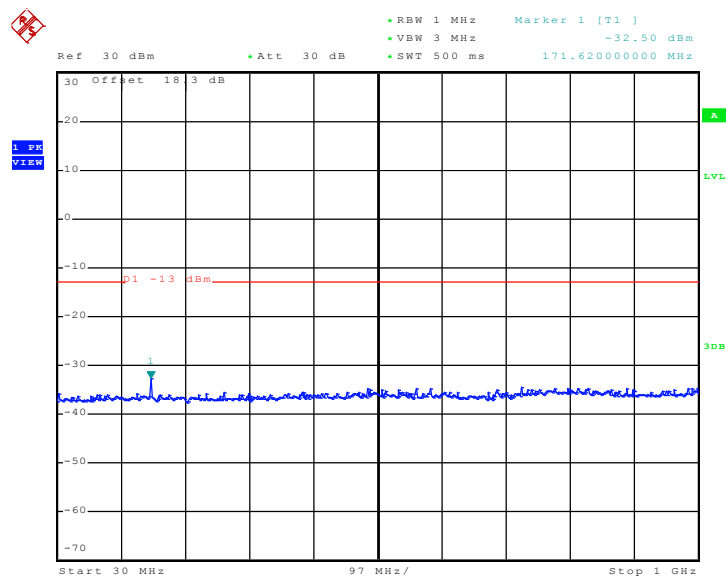


Date: 18.MAR.2010 17:56:08



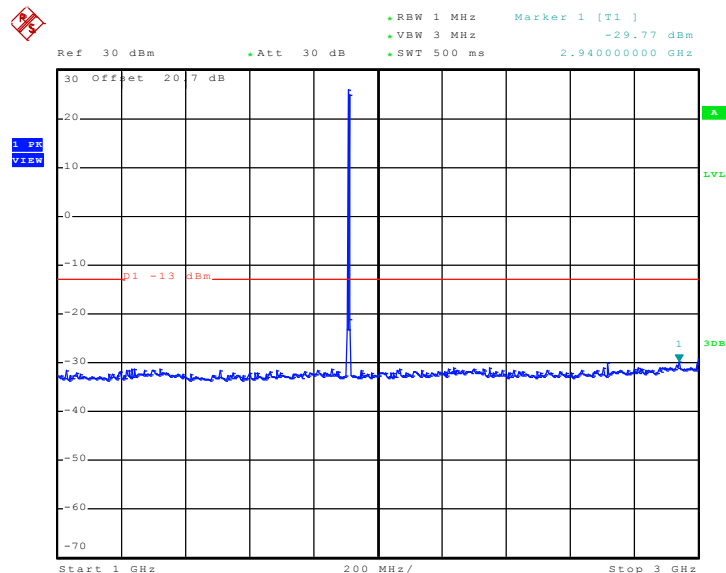
Band :	GSM1900	Channel :	CH810
Test Mode :	GPRS 8 Link		

Conducted Emission Plot between 30MHz ~ 1GHz



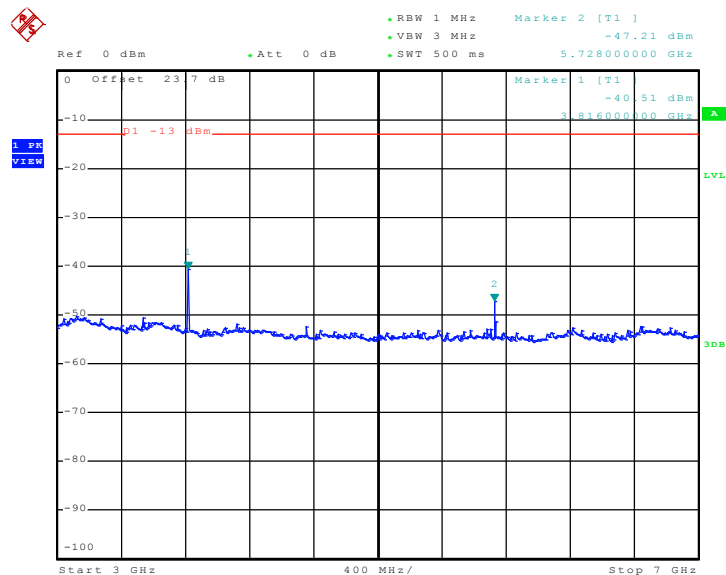
Date: 18.MAR.2010 17:44:43

Conducted Emission Plot between 1GHz ~ 3GHz



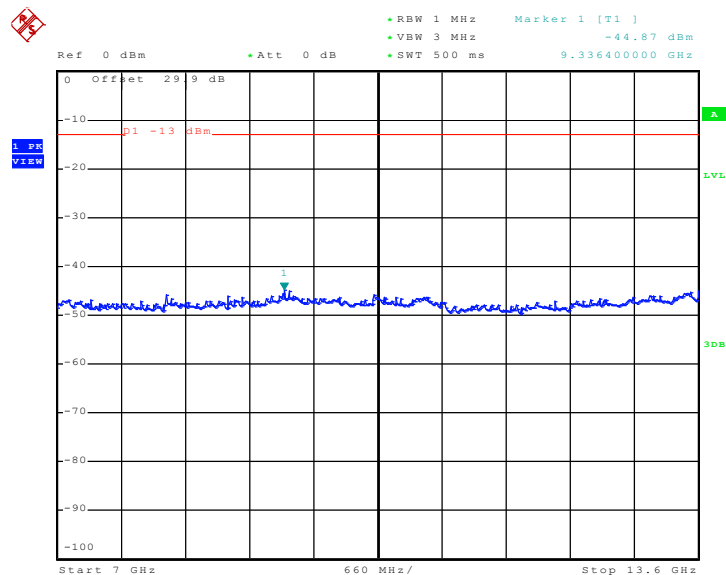
Date: 18.MAR.2010 17:43:16

Conducted Emission Plot between 3GHz ~ 7GHz



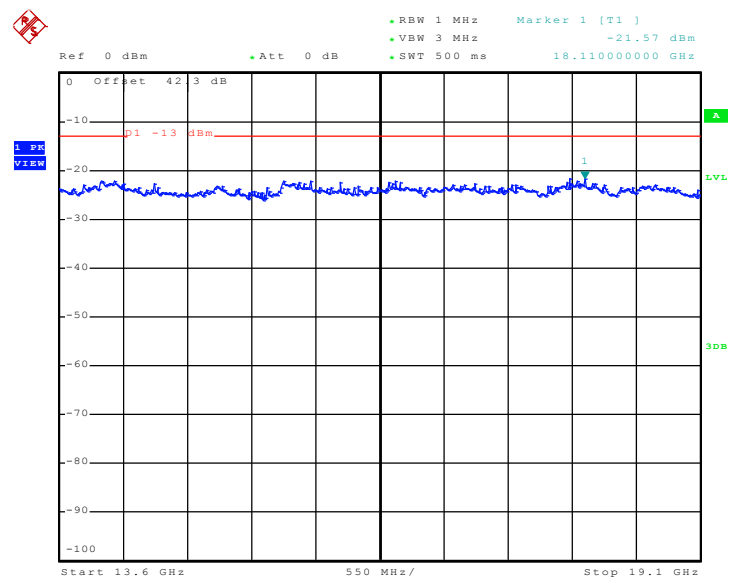
Date: 18.MAR.2010 17:50:01

Conducted Emission Plot between 7GHz ~ 13.6GHz



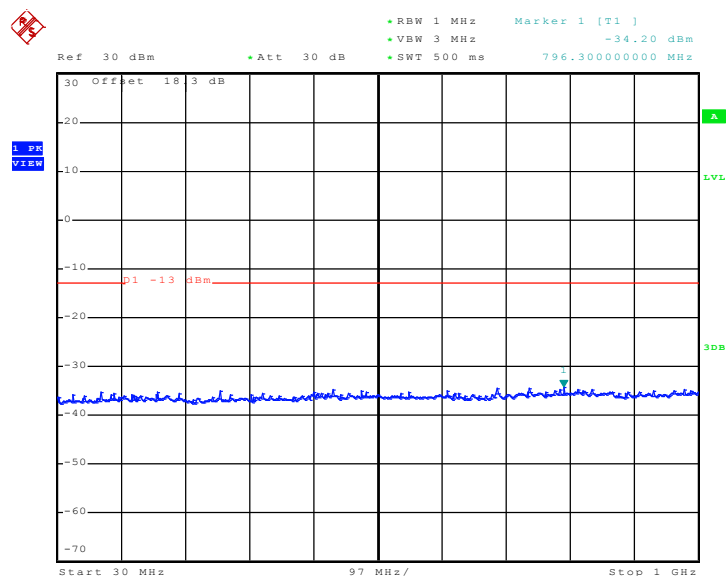
Date: 18.MAR.2010 17:53:35

Conducted Emission Plot between 13.6GHz ~ 19.1GHz

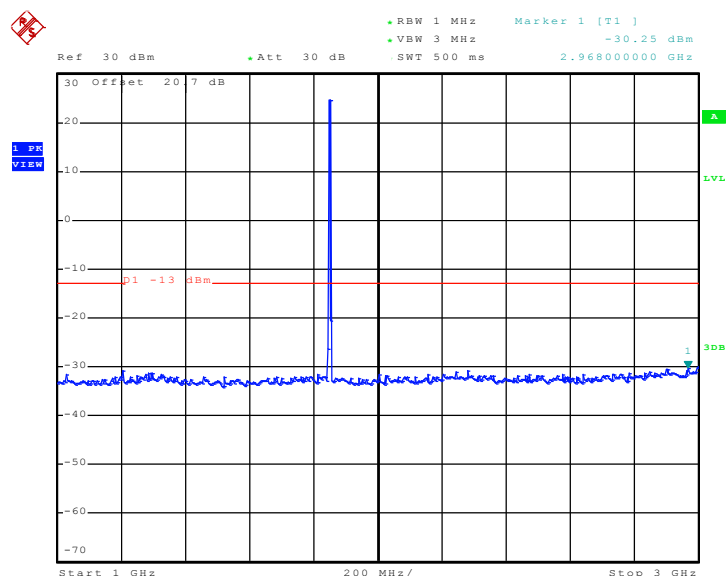


Date: 18.MAR.2010 17:55:35

Band :	GSM1900	Channel :	CH512
Test Mode :	EDGE 8 Link		

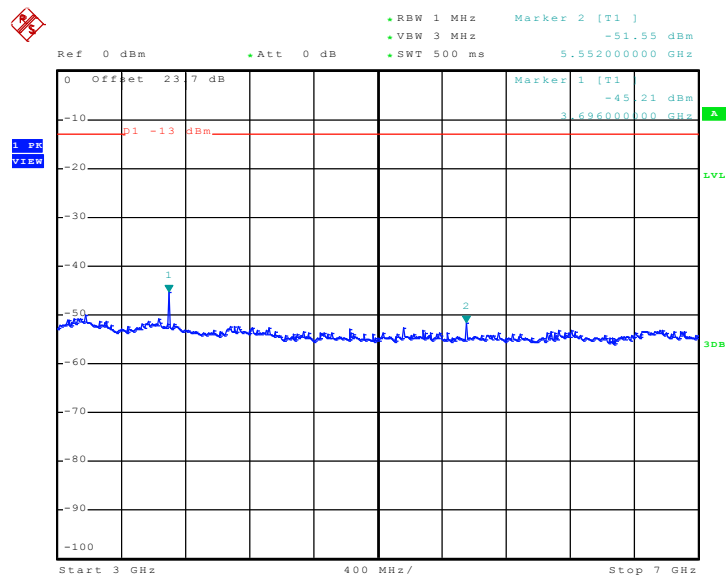
Conducted Emission Plot between 30MHz ~ 1GHz


Date: 18.MAR.2010 18:56:36

Conducted Emission Plot between 1GHz ~ 3GHz


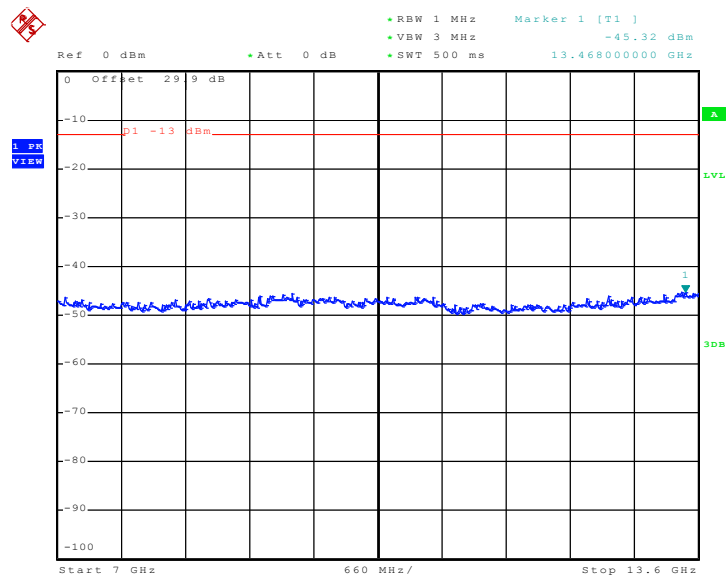
Date: 18.MAR.2010 18:50:40

Conducted Emission Plot between 3GHz ~ 7GHz



Date: 18.MAR.2010 18:25:49

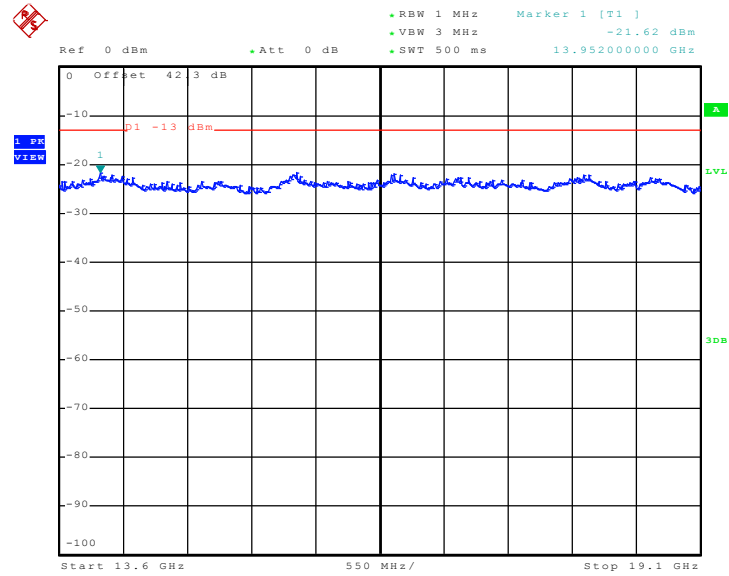
Conducted Emission Plot between 7GHz ~ 13.6GHz



Date: 18.MAR.2010 18:24:43



Conducted Emission Plot between 13.6GHz ~ 19.1GHz

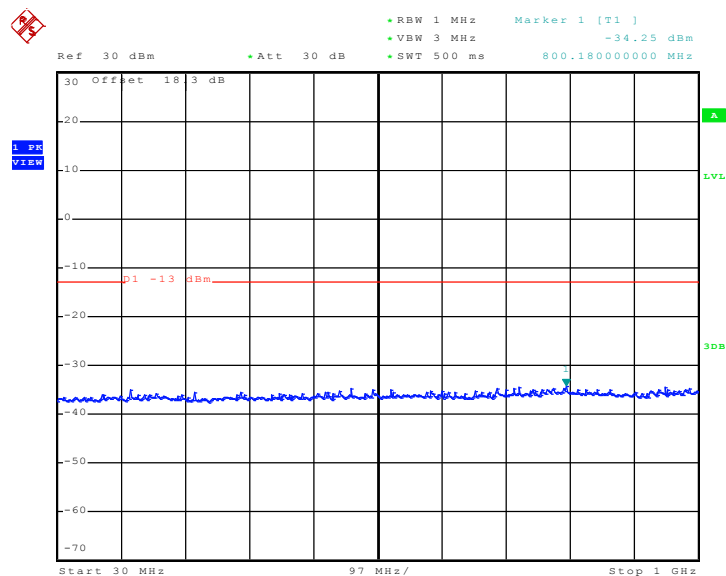


Date: 18.MAR.2010 18:20:32



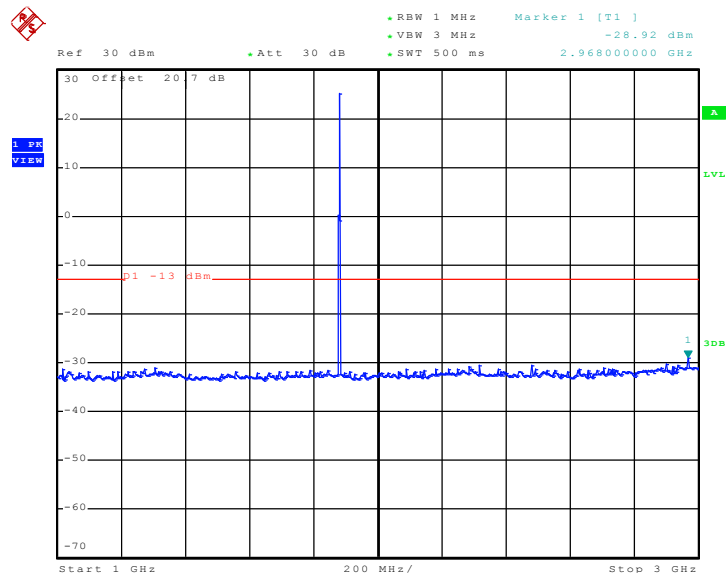
Band :	GSM1900	Channel :	CH661
Test Mode :	EDGE 8 Link		

Conducted Emission Plot between 30MHz ~ 1GHz

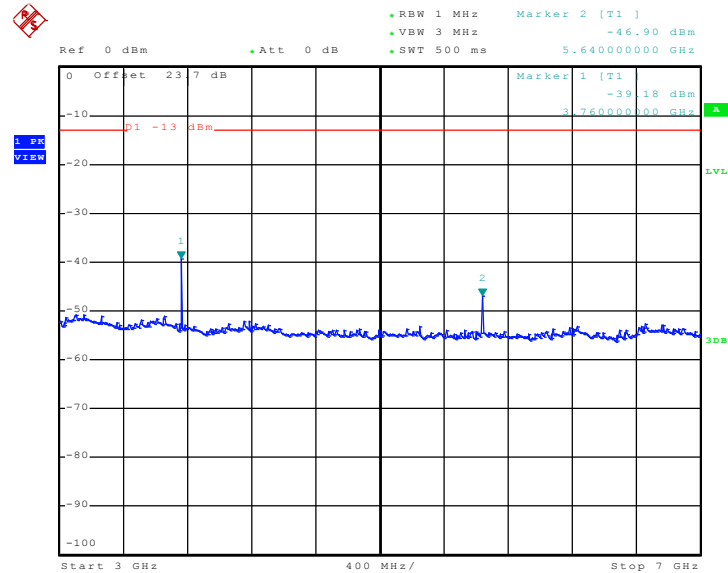


Date: 18.MAR.2010 18:55:31

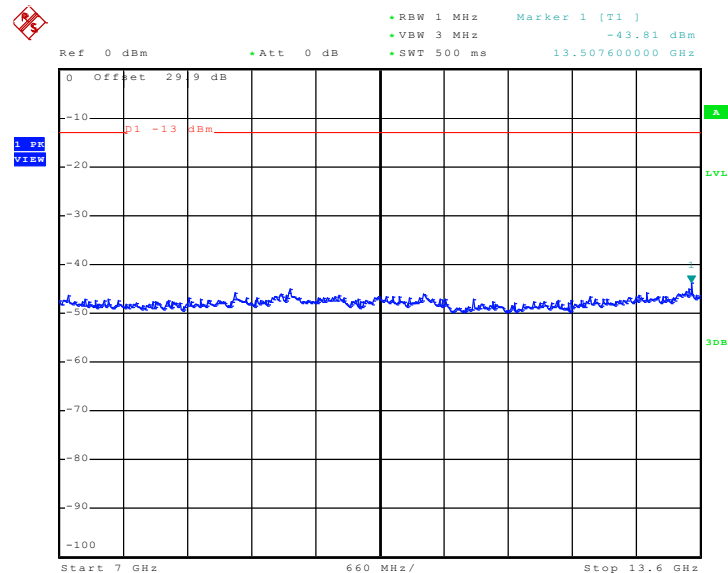
Conducted Emission Plot between 1GHz ~ 3GHz



Date: 18.MAR.2010 18:51:29

Conducted Emission Plot between 3GHz ~ 7GHz


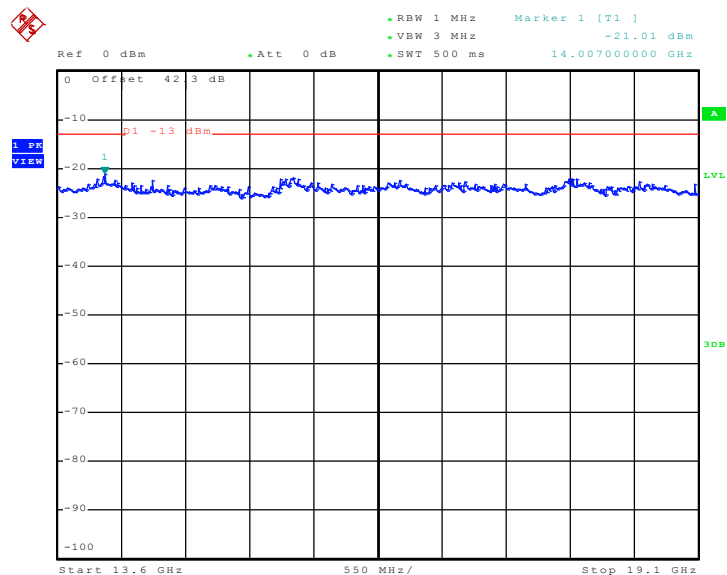
Date: 18.MAR.2010 18:26:25

Conducted Emission Plot between 7GHz ~ 13.6GHz


Date: 18.MAR.2010 18:24:02



Conducted Emission Plot between 13.6GHz ~ 19.1GHz

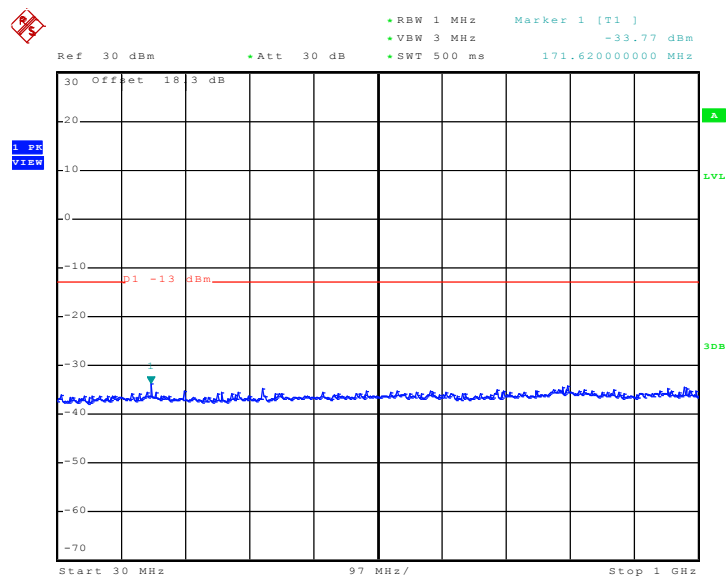


Date: 18.MAR.2010 18:21:17



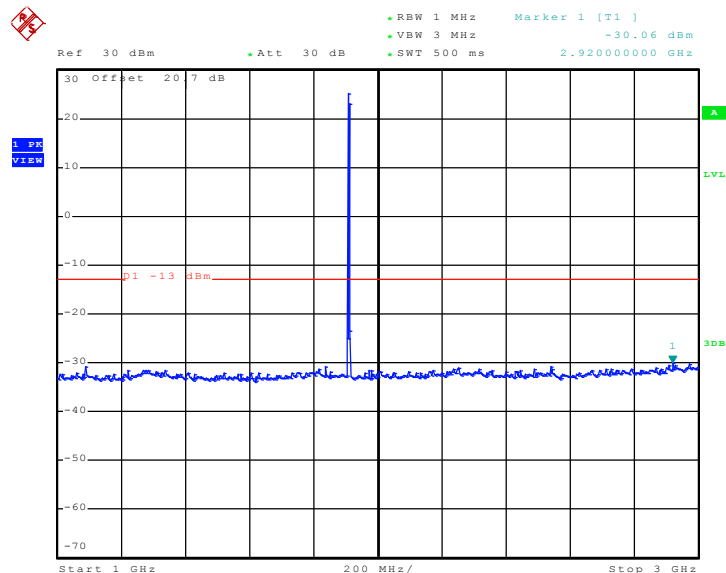
Band :	GSM1900	Channel :	CH810
Test Mode :	EDGE 8 Link		

Conducted Emission Plot between 30MHz ~ 1GHz



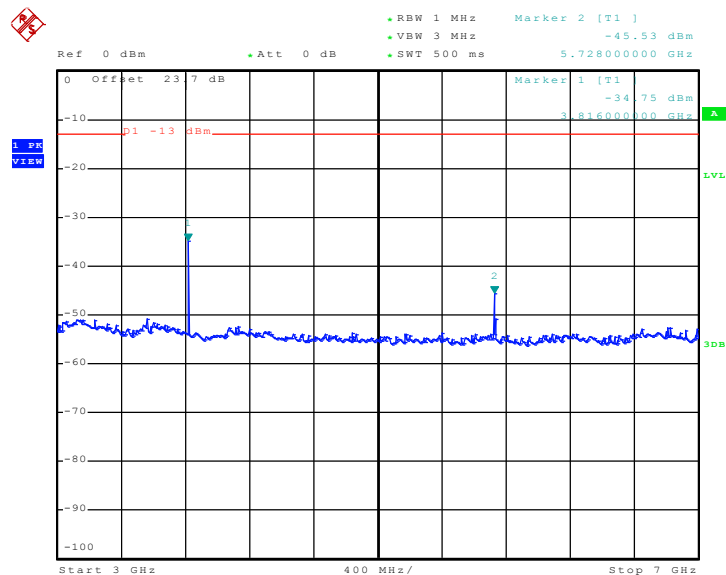
Date: 18.MAR.2010 18:54:41

Conducted Emission Plot between 1GHz ~ 3GHz



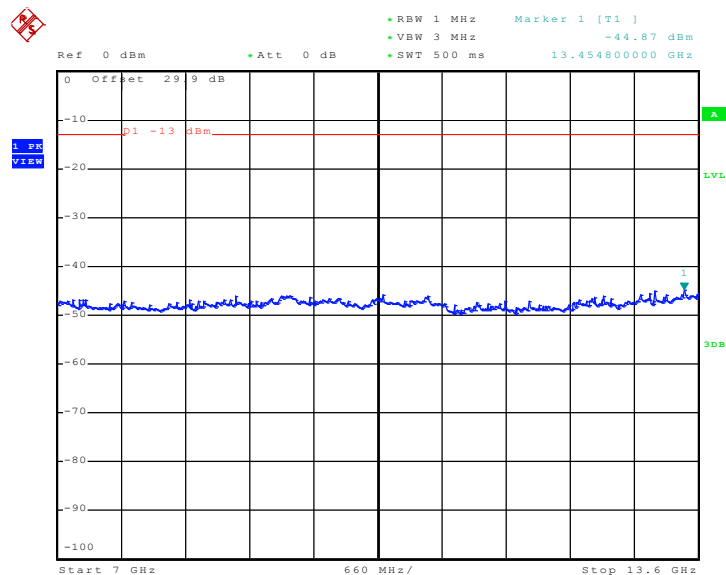
Date: 18.MAR.2010 18:53:17

Conducted Emission Plot between 3GHz ~ 7GHz



Date: 18.MAR.2010 18:26:55

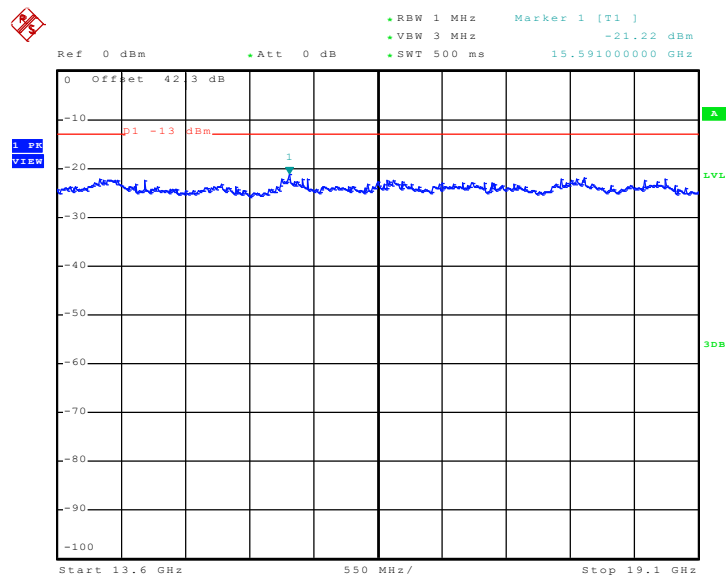
Conducted Emission Plot between 7GHz ~ 13.6GHz



Date: 18.MAR.2010 18:23:19



Conducted Emission Plot between 13.6GHz ~ 19.1GHz

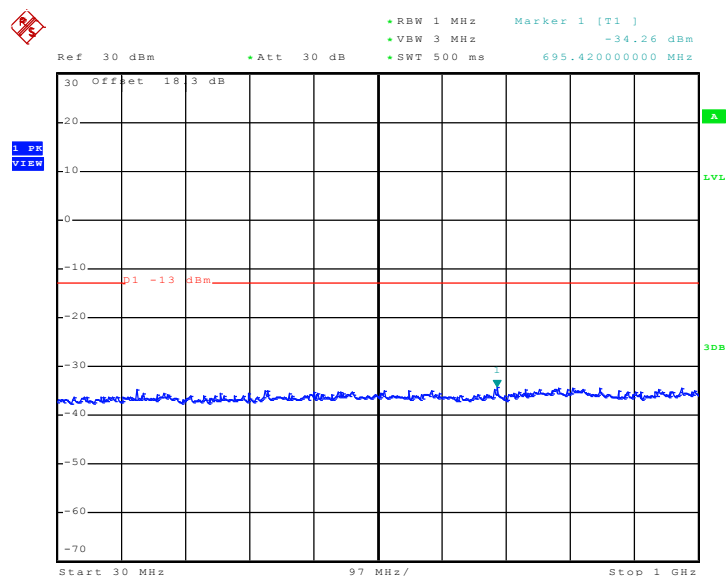


Date: 18.MAR.2010 18:22:04



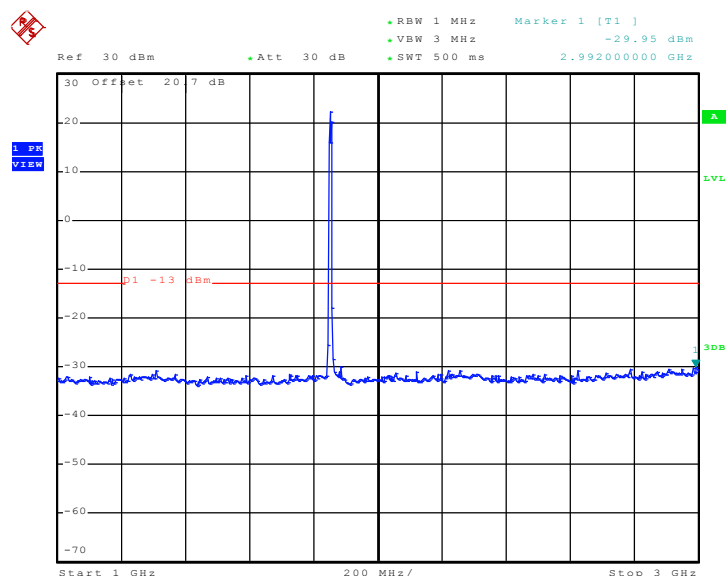
Band :	WCDMA Band II	Channel :	CH9262
Test Mode :	RMC 12.2Kbps Link		

Conducted Emission Plot between 30MHz ~ 1GHz



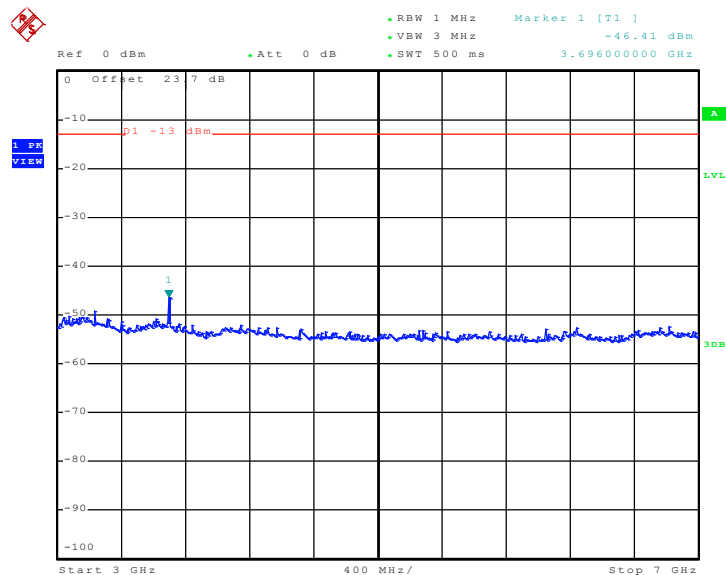
Date: 18.MAR.2010 20:24:01

Conducted Emission Plot between 1GHz ~ 3GHz



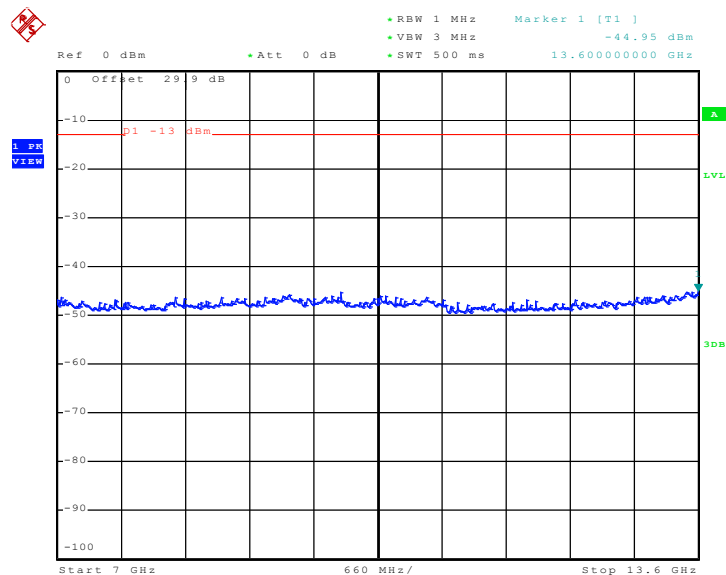
Date: 18.MAR.2010 20:28:13

Conducted Emission Plot between 3GHz ~ 7GHz



Date: 18.MAR.2010 20:31:15

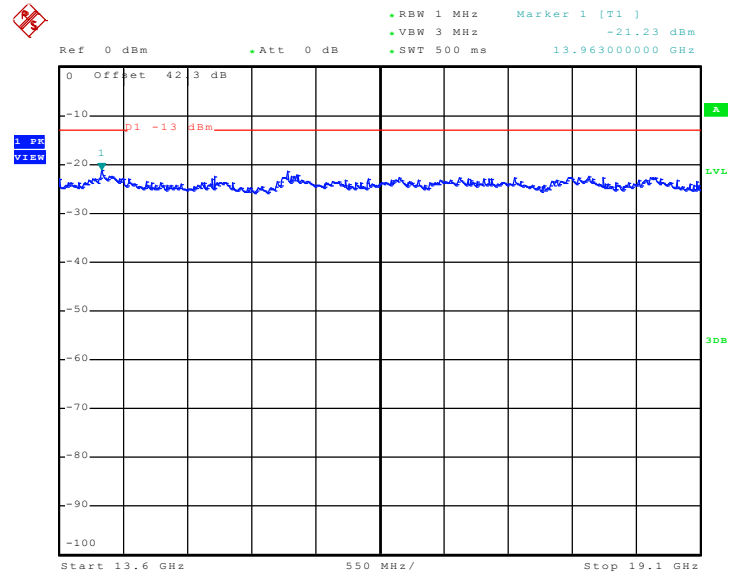
Conducted Emission Plot between 7GHz ~ 13.6GHz



Date: 18.MAR.2010 20:38:02



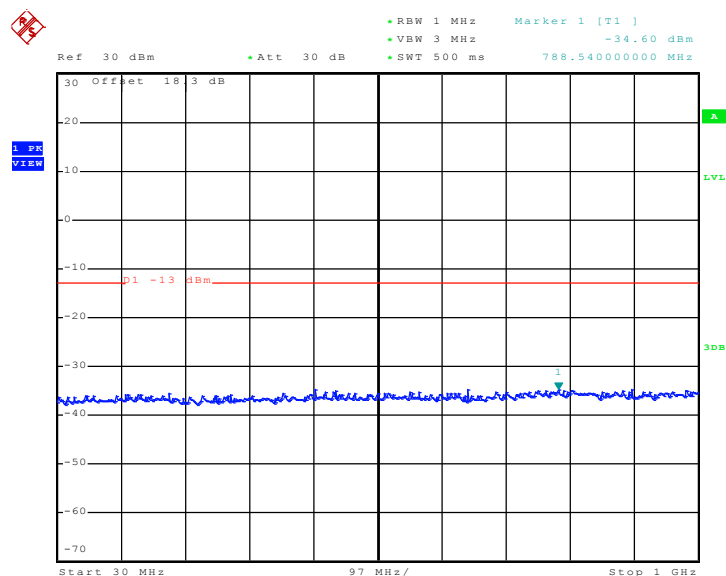
Conducted Emission Plot between 13.6GHz ~ 19.1GHz



Date: 18.MAR.2010 20:40:35

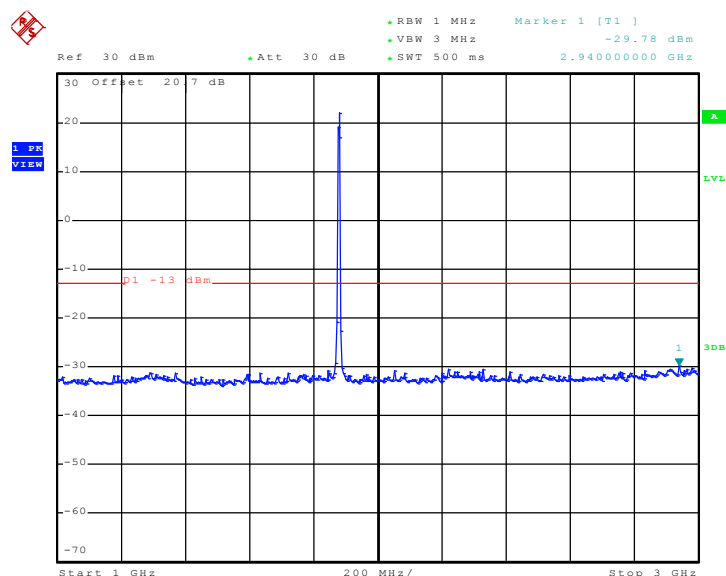
Band :	WCDMA Band II	Channel :	CH9400
Test Mode :	RMC 12.2Kbps Link		

Conducted Emission Plot between 30MHz ~ 1GHz

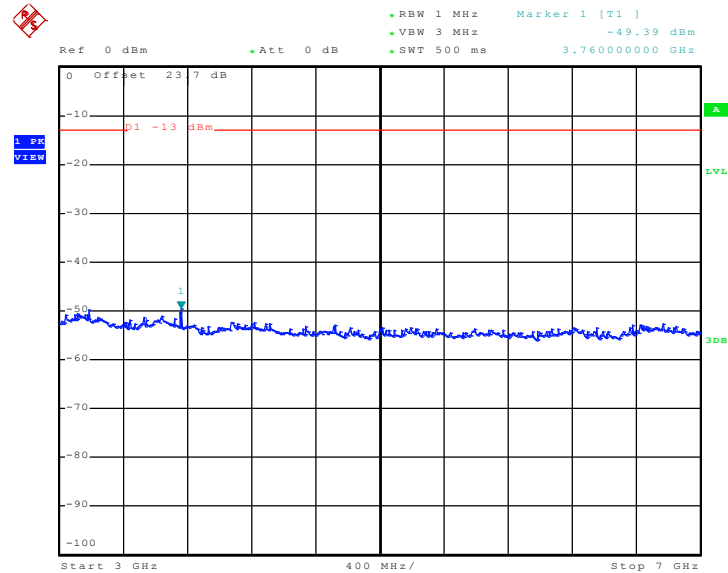


Date: 18.MAR.2010 20:23:21

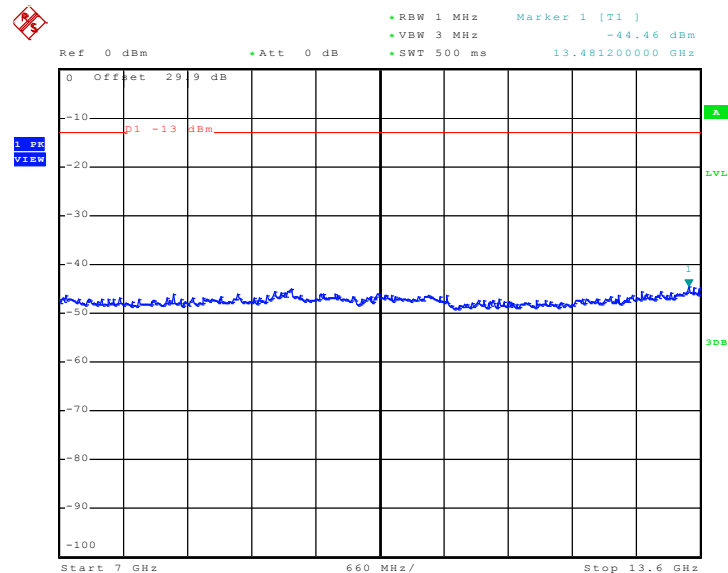
Conducted Emission Plot between 1GHz ~ 3GHz



Date: 18.MAR.2010 20:27:27

Conducted Emission Plot between 3GHz ~ 7GHz


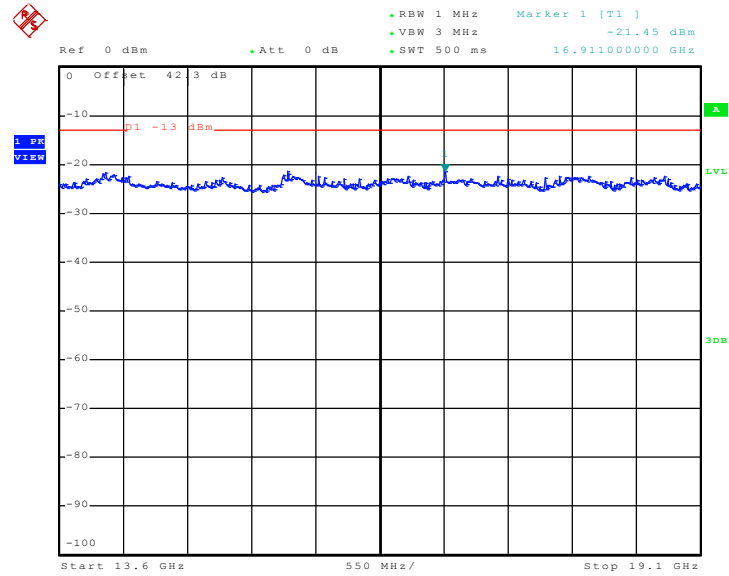
Date: 18.MAR.2010 20:33:34

Conducted Emission Plot between 7GHz ~ 13.6GHz


Date: 18.MAR.2010 20:50:30

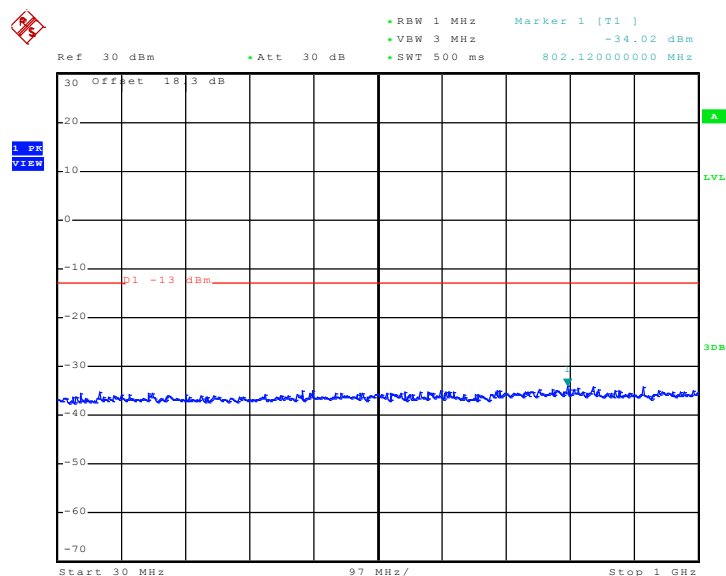


Conducted Emission Plot between 13.6GHz ~ 19.1GHz

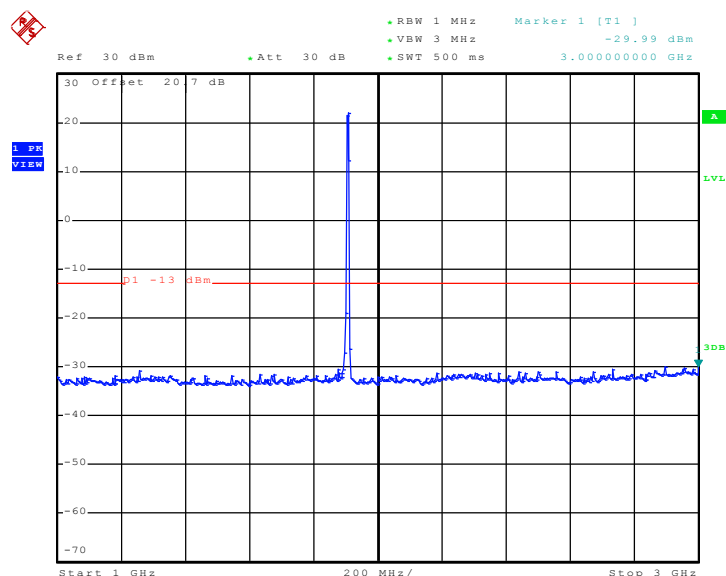


Date: 18.MAR.2010 20:41:39

Band :	WCDMA Band II	Channel :	CH9538
Test Mode :	RMC 12.2Kbps Link		

Conducted Emission Plot between 30MHz ~ 1GHz


Date: 18.MAR.2010 20:24:44

Conducted Emission Plot between 1GHz ~ 3GHz


Date: 18.MAR.2010 20:26:38

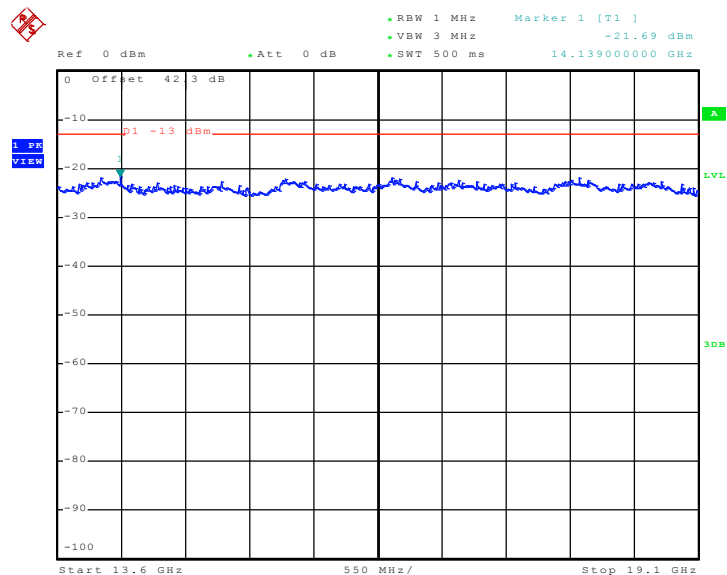


Conducted Emission Plot between 7GHz ~ 13.6GHz





Conducted Emission Plot between 13.6GHz ~ 19.1GHz



Date: 18.MAR.2010 20:42:31