



Nemko Test Report: 6L0012RUS1Rev1

Applicant: Andrew Corporation
108 Rand Park Drive
Garner, NC 27529

Equipment Under Test: MR853D
(E.U.T.)

In Accordance With: **FCC Part 22, Subpart H**
Cellular Band Repeaters

Tested By: Nemko USA Inc.
802 N. Kealy
Lewisville, TX
75057-3136

Authorized By:

A handwritten signature in black ink, appearing to read 'Kevin Rose', with a long horizontal flourish extending to the right.

Kevin Rose
Wireless Engineer

Date: January 27, 2006

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EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

Section 1. Summary of Test Results

Manufacturer: **Andrew Corporation**

Model No.: **MR853D**

Serial No.: **None**

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 22, Subpart H.



New Submission



Production Unit



Class II Permissive Change



Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See “ Summary of Test Data”.

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EQUIPMENT: **MR853D**Test Report No.: 6L0012RUS1Rev1

Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	RESULT
RF Power Output	22.913(a)	500W ERP	Complies
Occupied Bandwidth (Input/Output)	None	None	Complies
Spurious Emissions at Antenna Terminals	22.917	-13 dBm	Complies
Field Strength of Spurious Emissions	22.917	-13 dBm E.R.P.	Complies
Frequency Stability	22.355	1.5 ppm	NA
Out of band rejection	Not Specified	Not Specified	Tested

Footnotes Input level was adjusted for maximum RF input level for all tests.
:

Measurement uncertainty for each test configuration is expressed to 95% probability.

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Section 2. General Equipment Specification**Supply Voltage Input:** 120 Vac

Frequency Range :

Downlink: Analog	869.04 TO 893.97 MHz
CDMA	869.7 to 893.31 MHz
EDGE	869.2 to 893.8 MHz
GSM	869.2 to 893.8 MHz
TDMA	869.04 to 893.97 MHz
W-CDMA	871.5 to 887.5 MHz

Frequency Range:

Uplink: Analog	824.04 to 848.97 MHz
CDMA	824.7 to 848.31 MHz
EDGE	824.2 to 848.8 MHz
GSM	824.2 to 848.8 MHz
TDMA	824.04 to 848.97 MHz
W-CDMA	826.5 to 842.5 MHz

Nominal Passband: 1.5, 10, 12.5 or 25 MHz

Type of Modulation:	Analog	TDMA	CDMA	GSM	W-CDMA	EDGE
Designator:	(F8W/F1D)	(DXW)	(F9W)	(GXW)	(F9W)	(G7W)
	☒	☒	☒	☒	☒	☒

Output Impedance: 50 ohms**Gain:** 60 dB

RF Output (Rated):	18 Technology	Output Power per Carrier, dBm			
		1	2	4	8
	CDMA	16	13	10	7
	EDGE	18	15	12	9
	GSM	18	15	12	9
	W-CDMA	11	8	5	2
	Analog	18	15	12	9
	TDMA	18	15	12	9

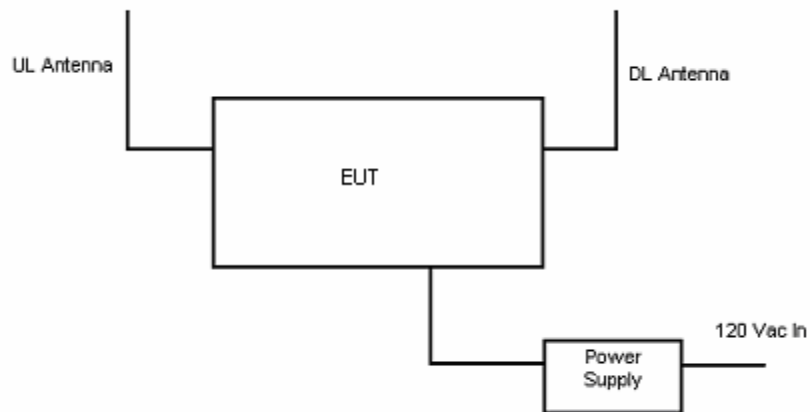
Frequency Translation:	F1-F1	F1-F2	N/A
	☒	☐	☐

Band Selection:	Software	Selector Switch	Full band Coverage
	☐	☒	☐

Description of Operation

The MR853D band selective mini repeater is a bi-directional amplifier used to enhance signals between a mobile and base station in a wireless network.

System Diagram



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Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 22.913(a)
TESTED BY: David Light	DATE: 18 January 2006

Test Results: Complies.**Test Data:**

	Modulation Type	Per Channel Power Output (dBm)	Composite Power Output (dBm)
Uplink	AMPS	15	18
Downlink	AMPS	15	18
Uplink	CDMA	13	16
Downlink	CDMA	13	16
Uplink	GSM	15	18
Downlink	GSM	15	18
Uplink	NADC	15	18
Downlink	NADC	15	18
Uplink	EDGE	15	18
Downlink	EDGE	15	18
Uplink	W-CDMA	8	11
Downlink	W-CDMA	8	11

Equipment Used: 1036-1472-1081-1464**Measurement Uncertainty:** +/- 1.6 dB**Temperature:** 22 °C**Relative Humidity:** 40 %

Note – The amplifier was tested on three channels (hi-mid-lo). Center channel data presented is representative of all channels tested.

The input level was set for all tests was set 60 dB below the output level +/- 1 dB.

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Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.1049
TESTED BY: David Light	DATE: 18-24 January 2006

Test Results: **Complies.****Test Data:** **See attached plots****Equipment Used:** **1036-1472-1081****Measurement** **+/- 1.6 dB**
Uncertainty:**Temperature:** **22 °C****Relative** **40 %**
Humidity:

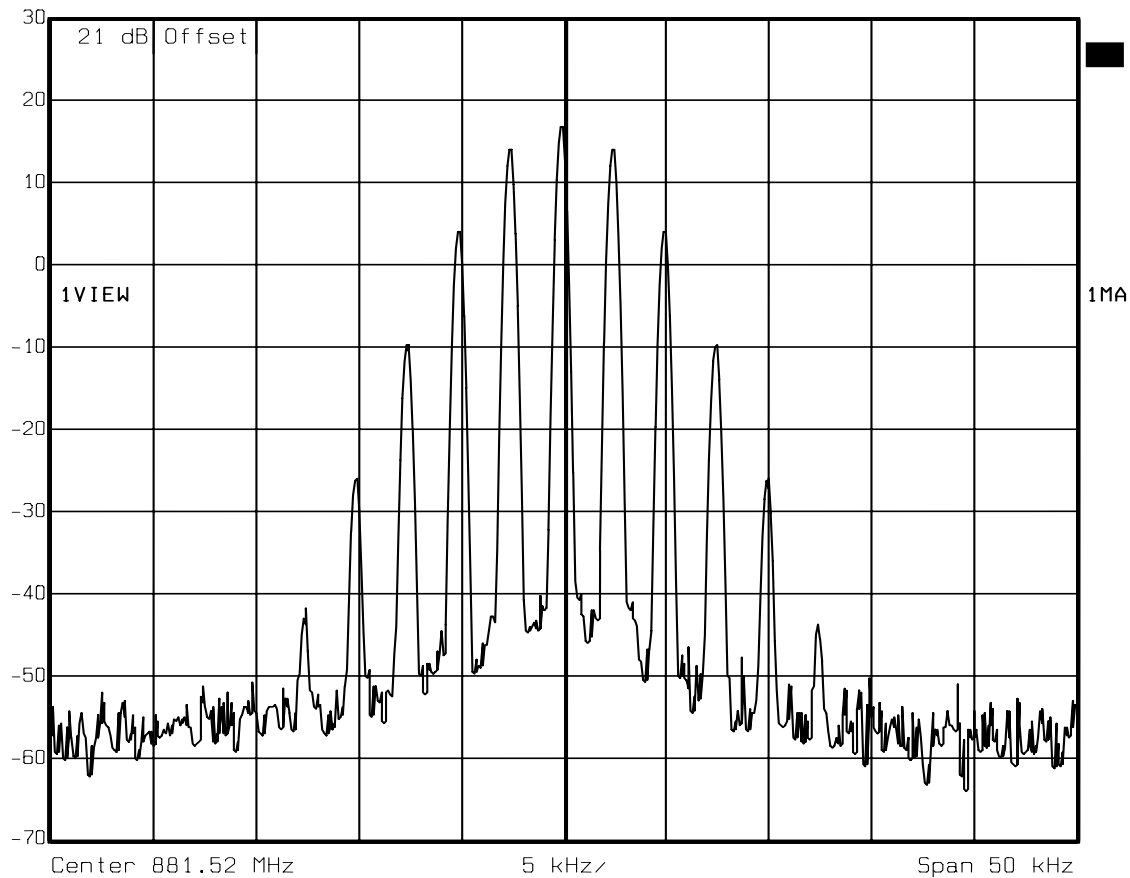
Note – The amplifier was tested on three channels (hi-mid-lo). Center channel data presented is representative of all channels tested.

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Test Data – Occupied BandwidthRef Lvl
30 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	2.8 s	Unit	dBm



Date: 24.JAN.2006 16:59:23
2.5 KHZ TONE / 3 KHZ DEVIATION
OUTPUT

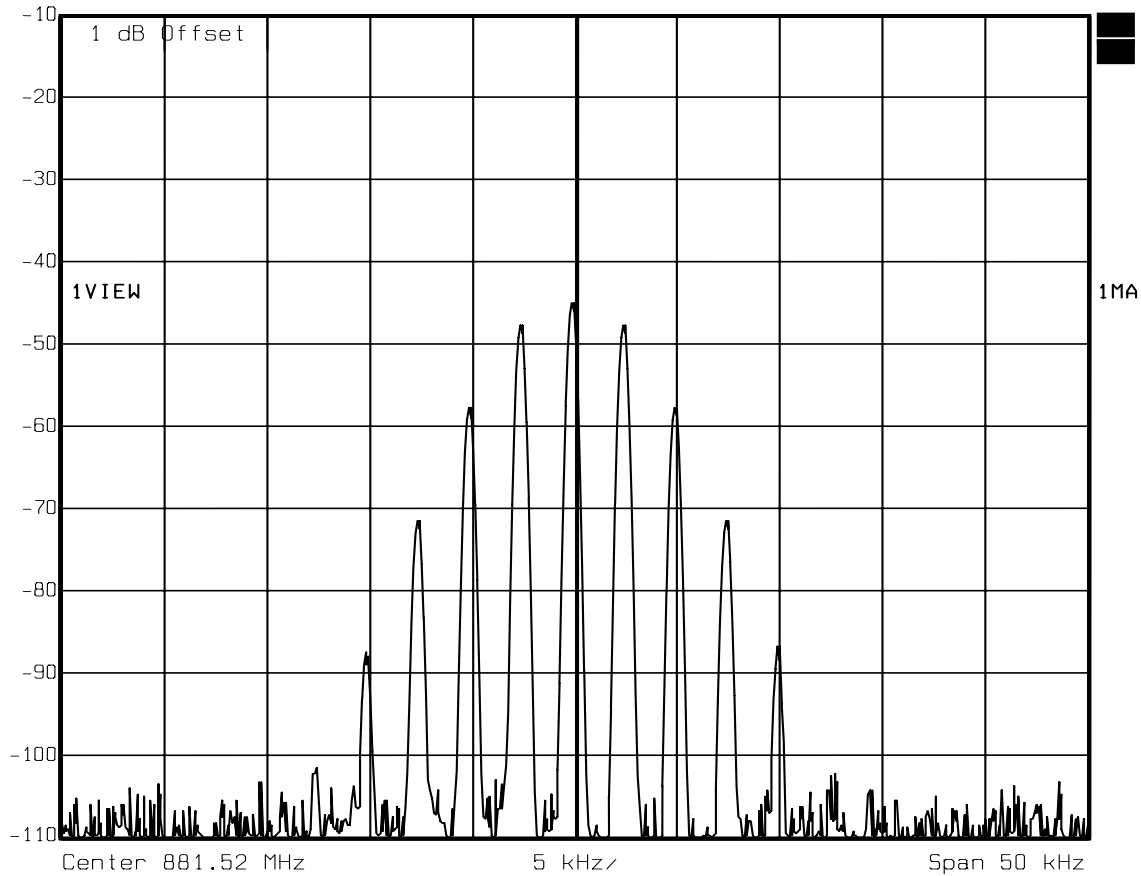
Downlink
Analog

EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

Test Data – Occupied
BandwidthRef Lvl
-10 dBm

RBW	300 Hz	RF Att	10 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	2.8 s	Unit	dBm



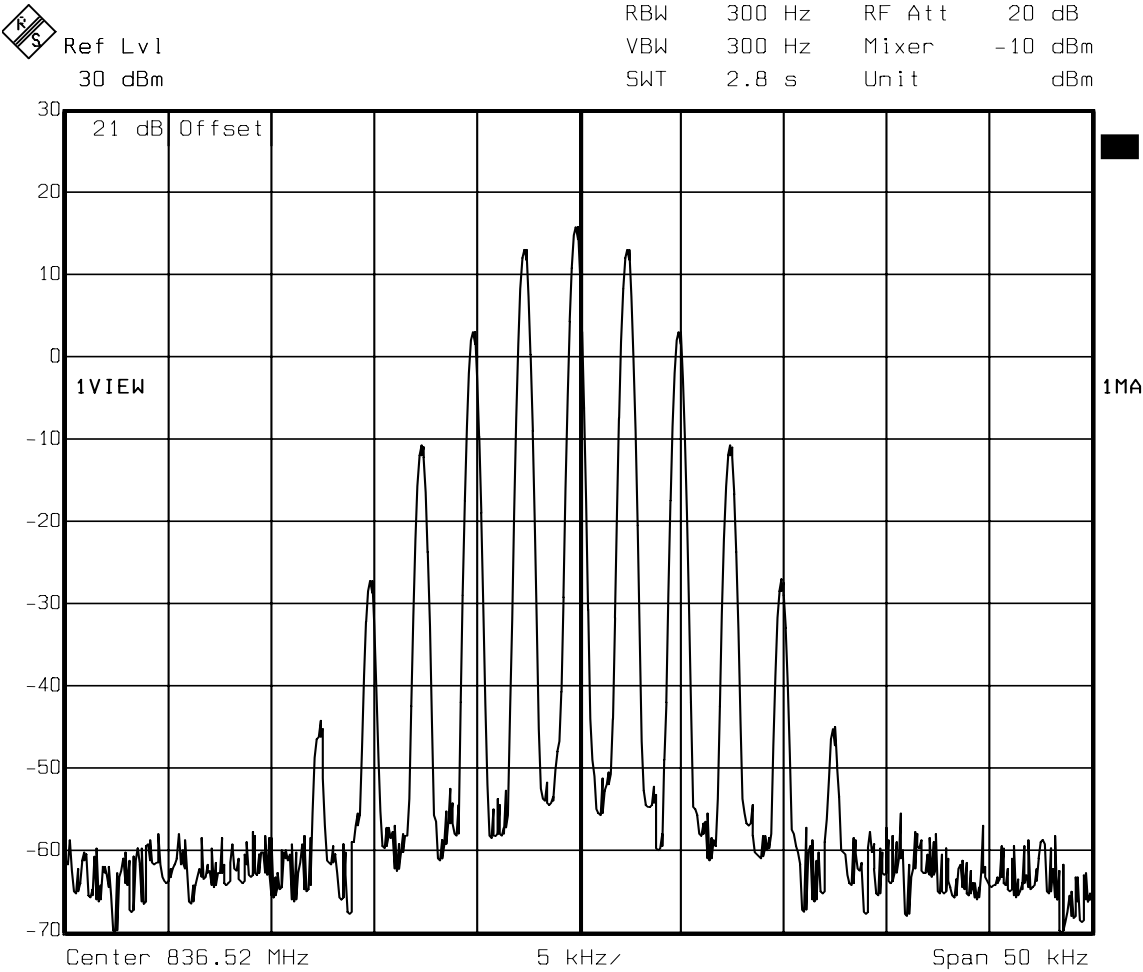
Date: 24.JAN.2006 17:01:37

2.5 KHZ TONE / 3 KHZ DEVIATION
INPUTDownlink
Analog

EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

Test Data – Occupied Bandwidth



Date: 24.JAN.2006 17:05:24

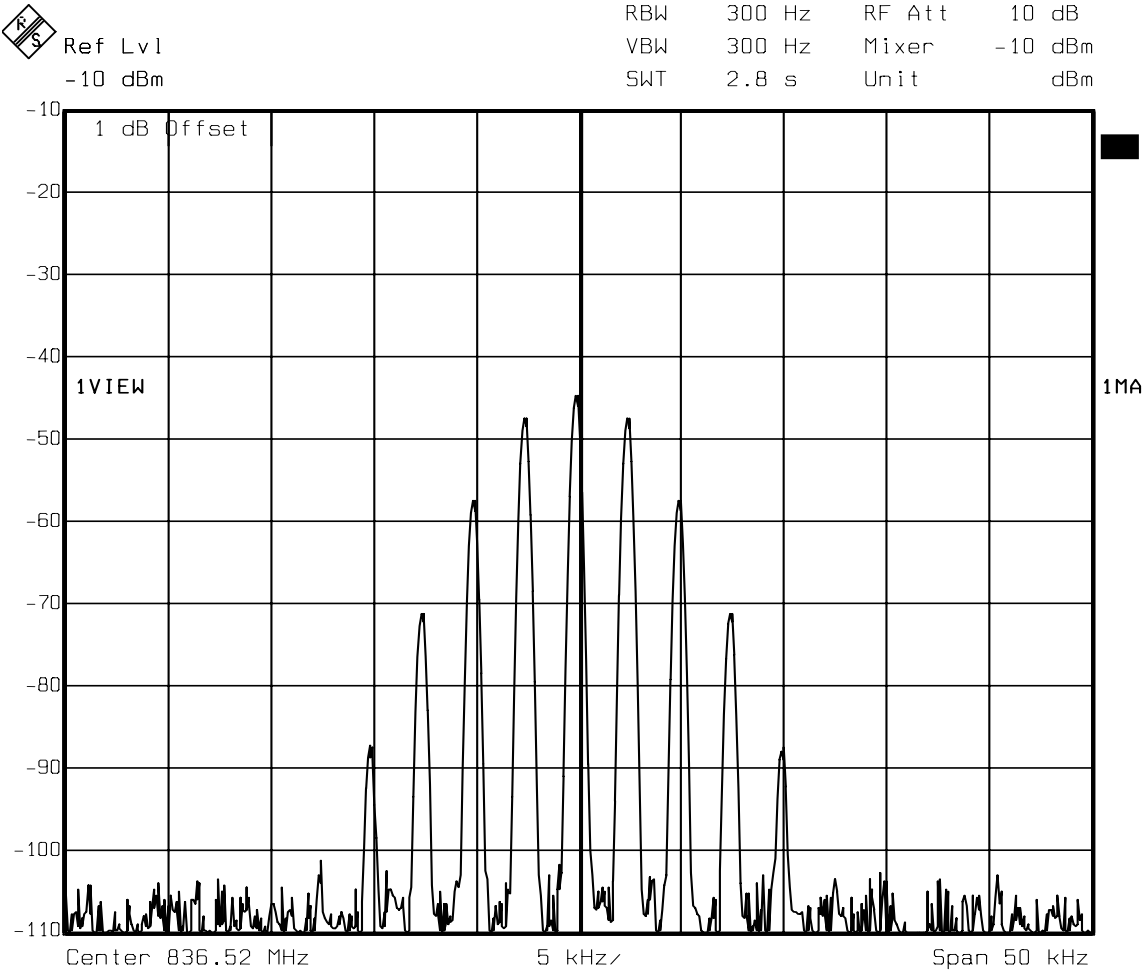
OUTPUT

Uplink
Analog

EQUIPMENT: **MR853D**

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Test Data – Occupied Bandwidth

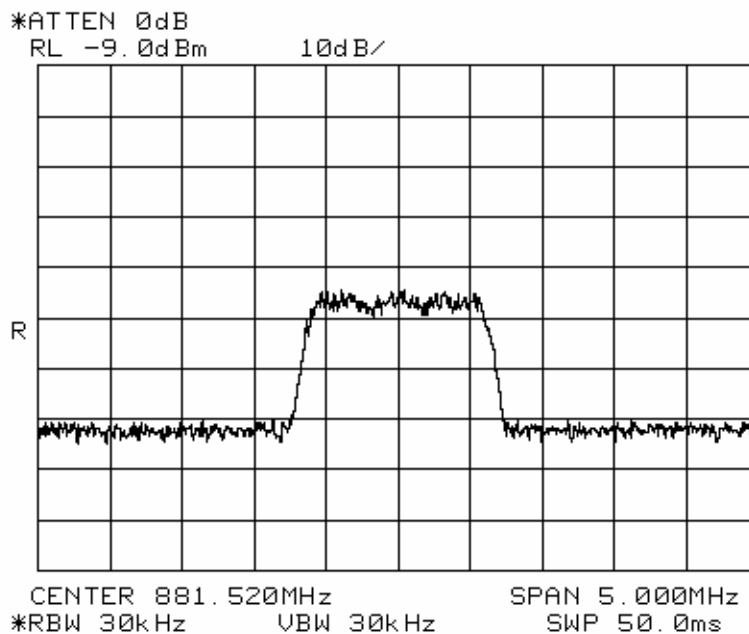
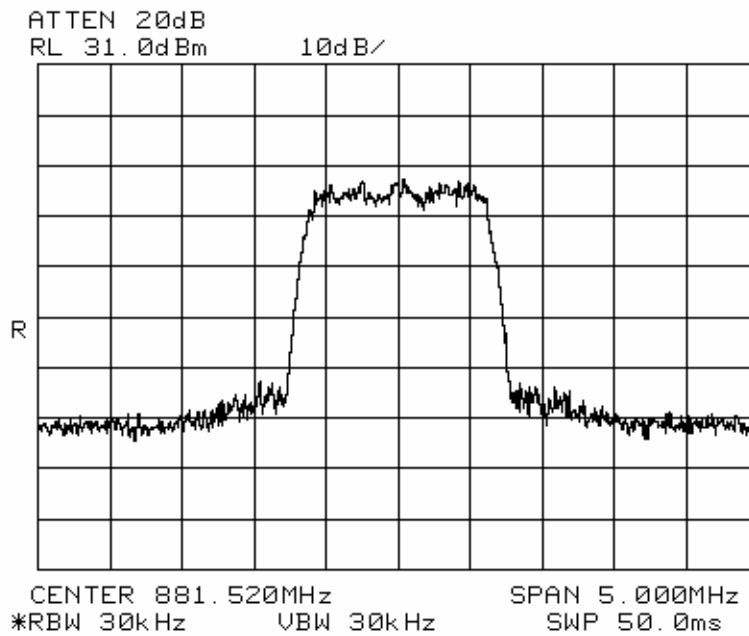


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INPUT

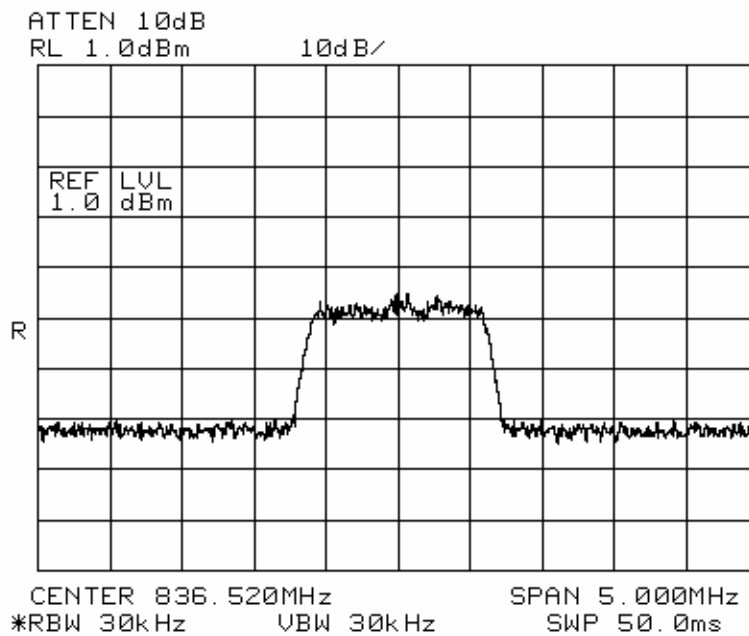
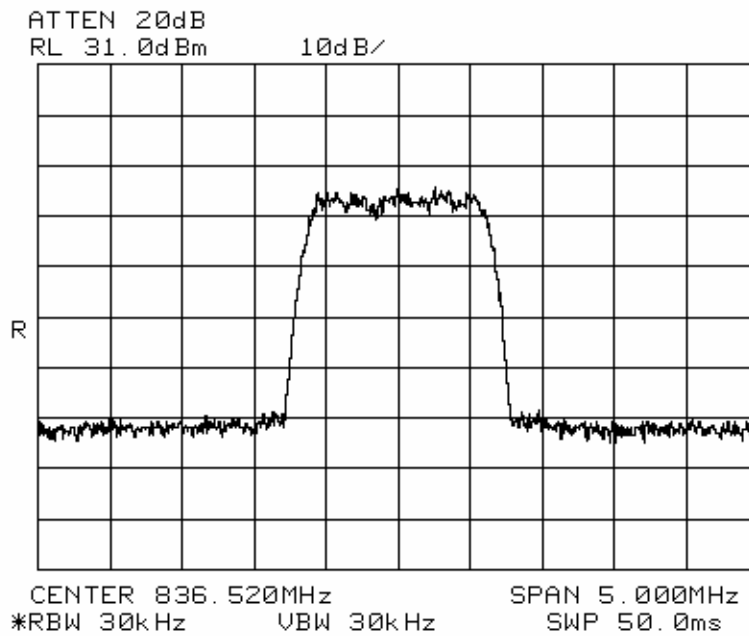
Uplink
Analog

Test Data – Occupied Bandwidth



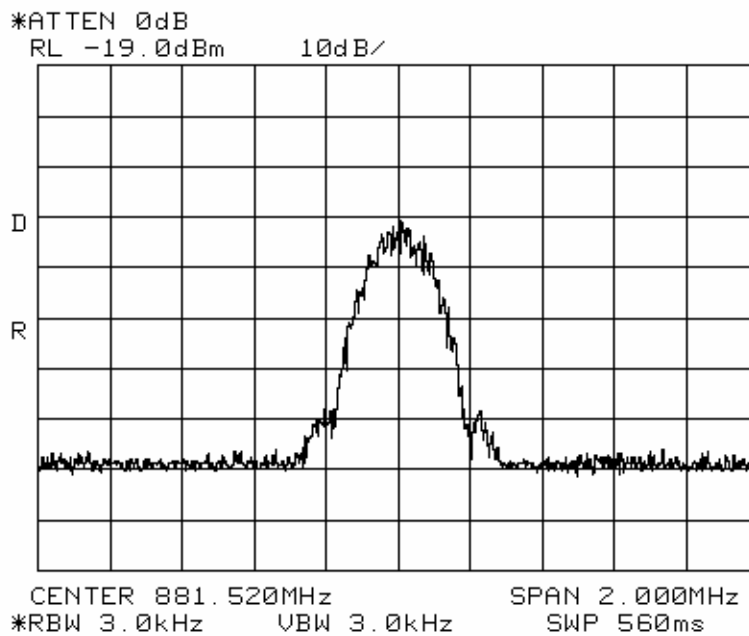
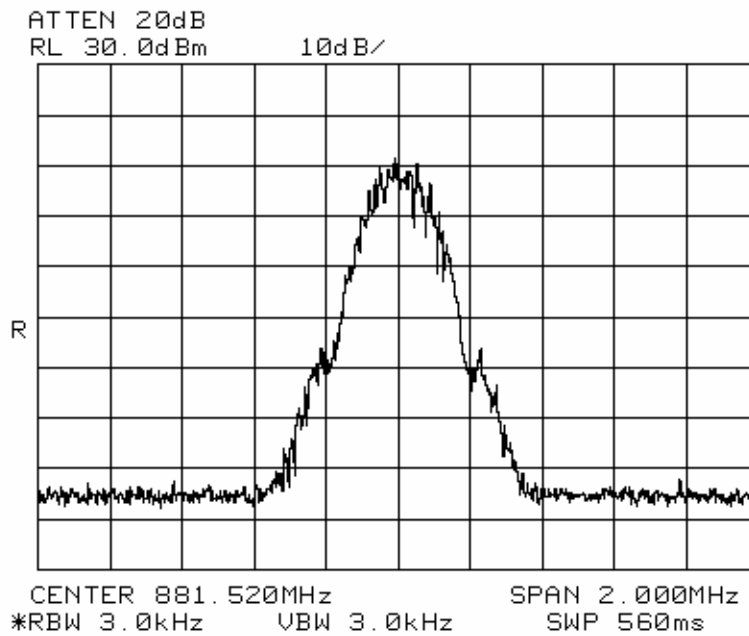
Downlink
CDMA

Test Data – Occupied Bandwidth



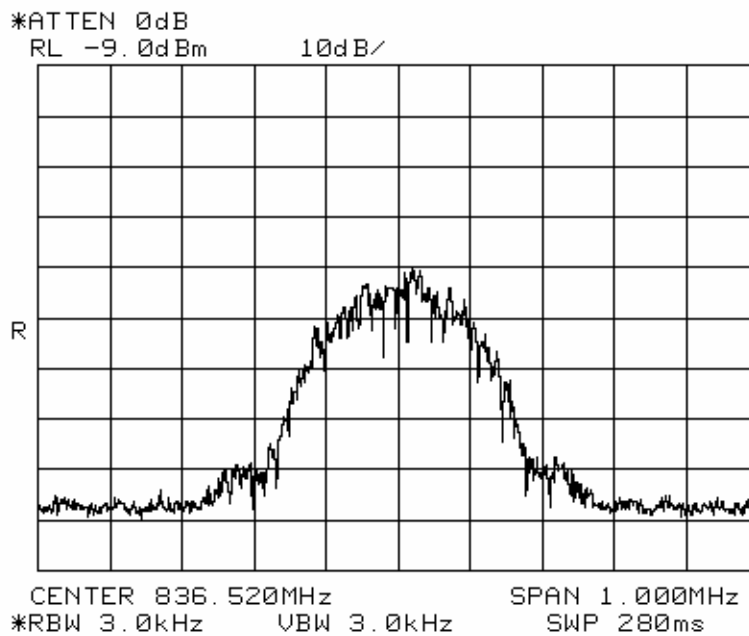
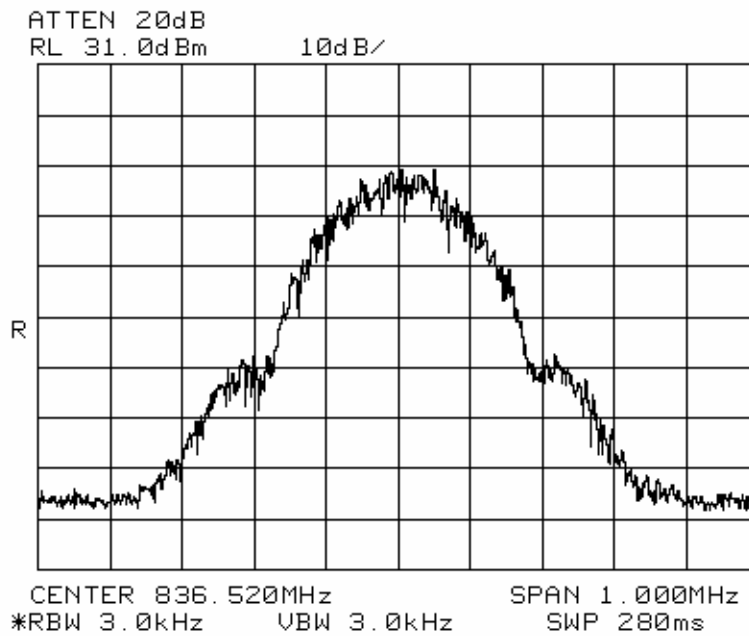
Uplink
CDMA

Test Data – Occupied Bandwidth



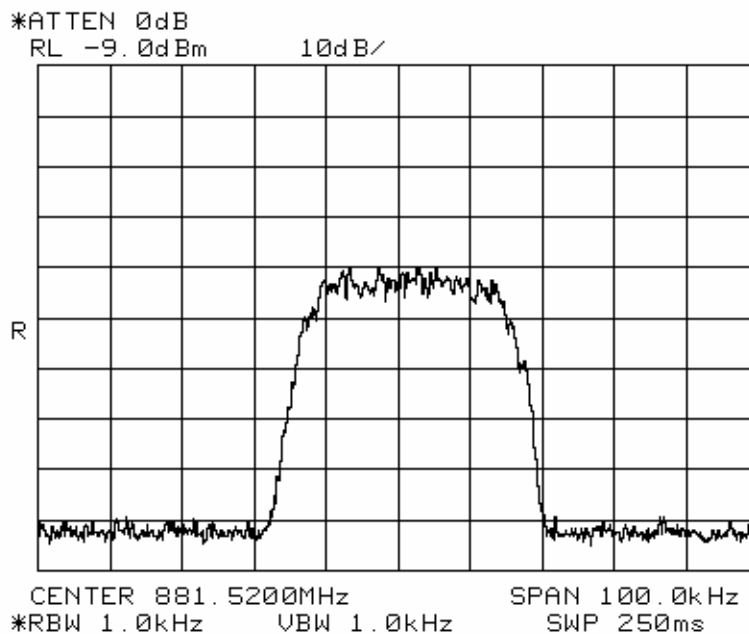
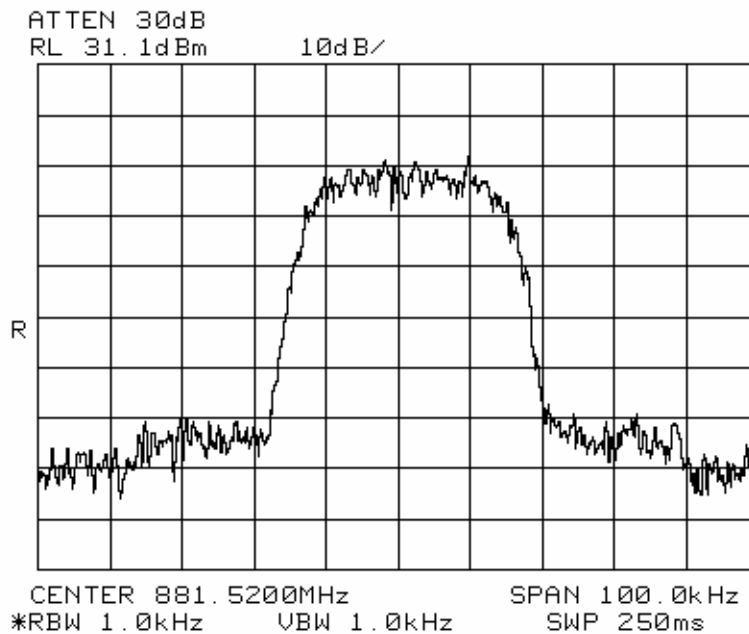
Downlink
GSM

Test Data – Occupied Bandwidth



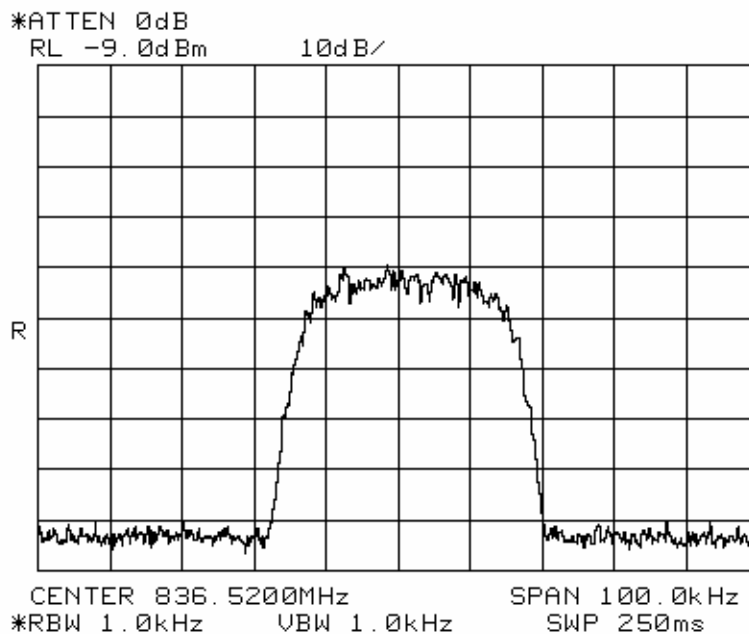
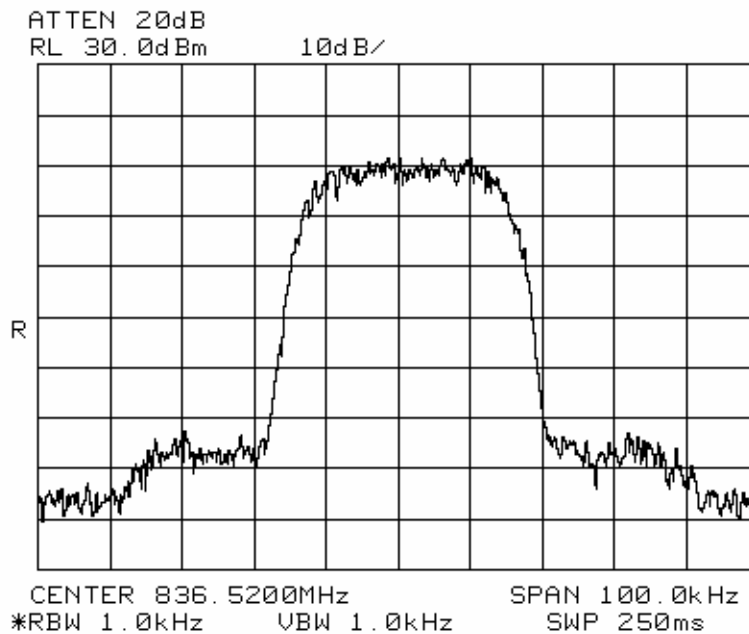
Uplink
GSM

Test Data – Occupied Bandwidth



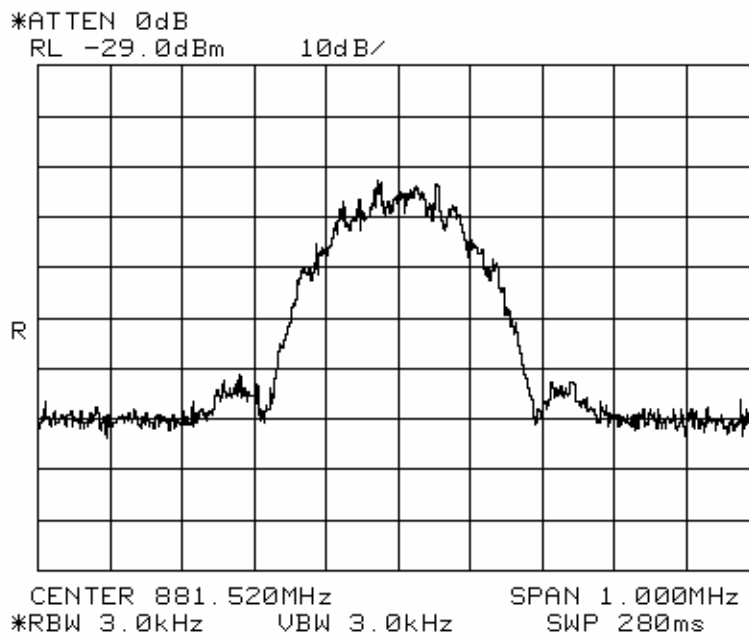
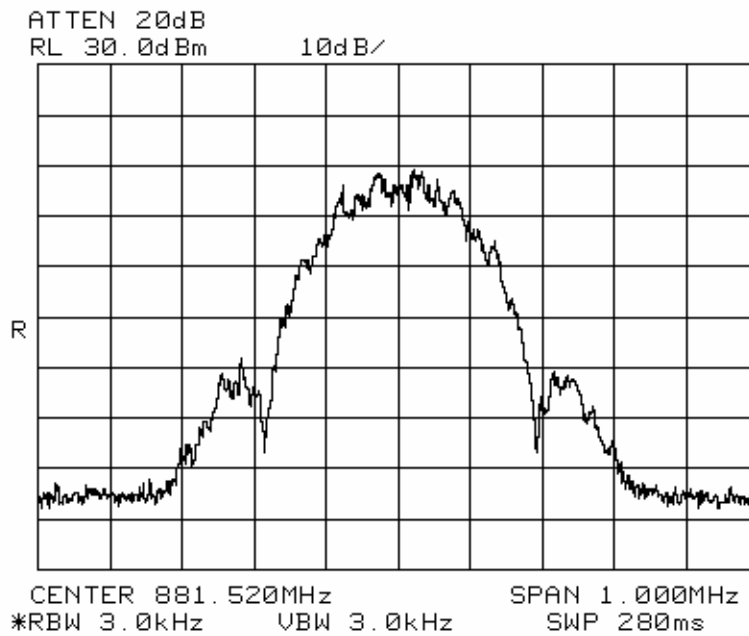
Downlink
TDMA

Test Data – Occupied Bandwidth



Uplink
TDMA

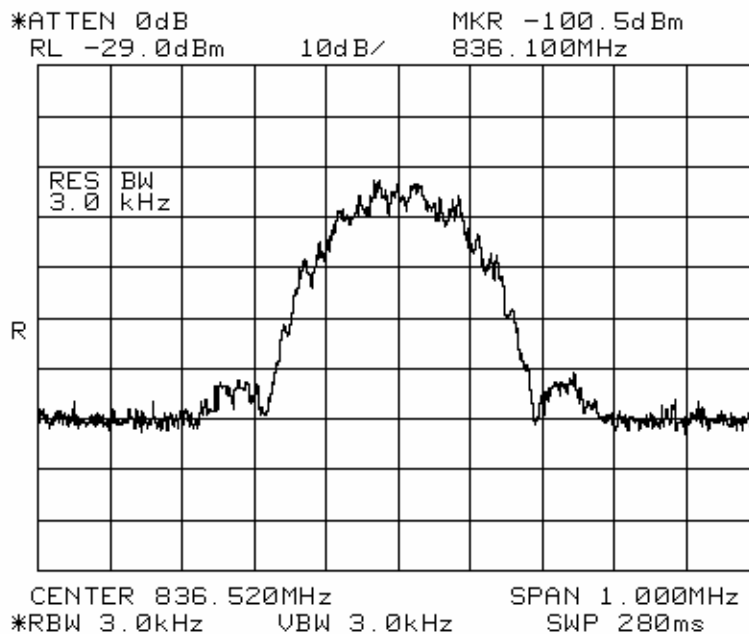
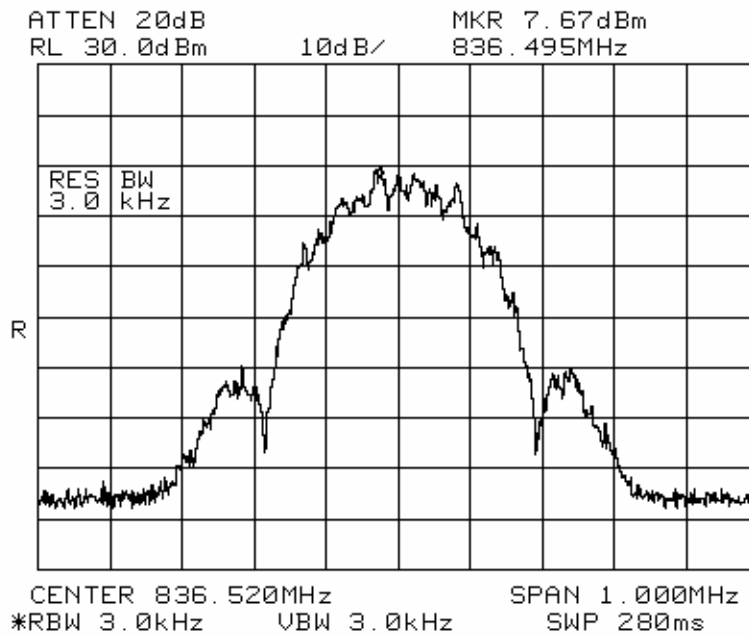
Test Data – Occupied Bandwidth



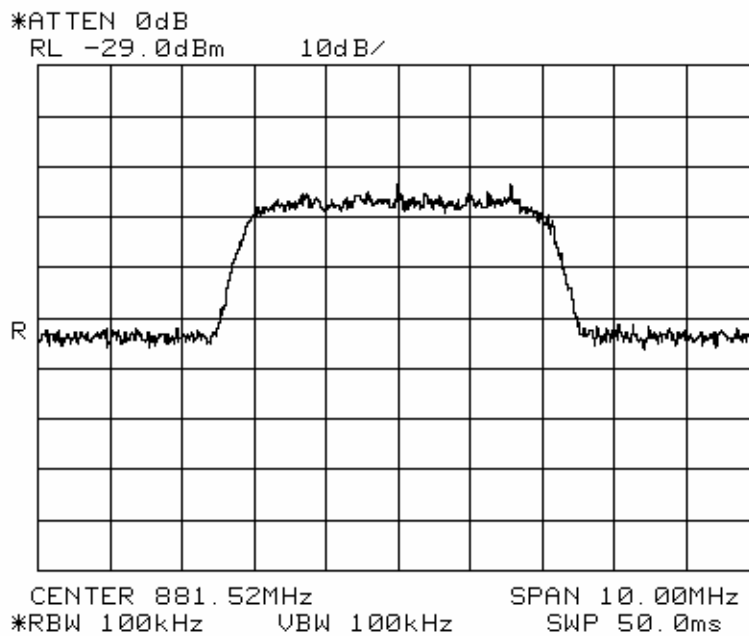
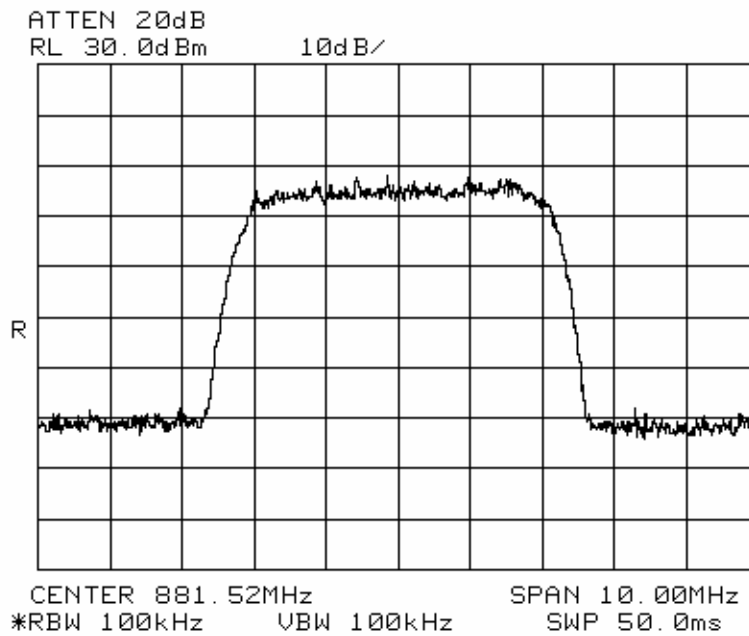
Downlink
EDGE

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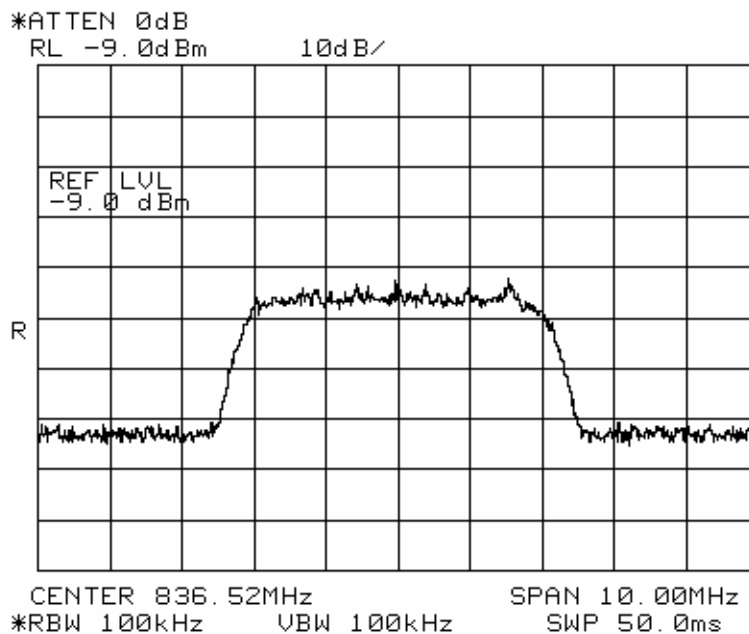
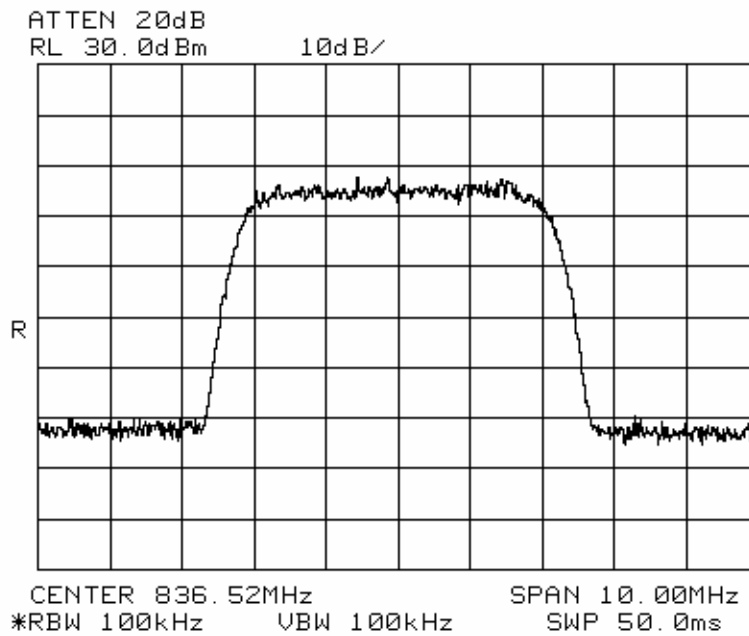
Test Data – Occupied BandwidthUplink
EDGE

Test Data – Occupied Bandwidth



Downlink
W-CDMA

Test Data – Occupied Bandwidth



Uplink
W-CDMA

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Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 22.917
TESTED BY: David Light	DATE: 18 January 2006

Test Results: **Complies.****Test Data:** **See attached plots****Equipment Used:** **1472-1081-1464-1036****Measurement
Uncertainty:** **+/- 1.6 dB****Temperature:** **22 °C****Relative
Humidity:** **40 %**

Note – The amplifier was tested on three channels (hi-mid-lo). Center channel data presented is representative of all channels tested.

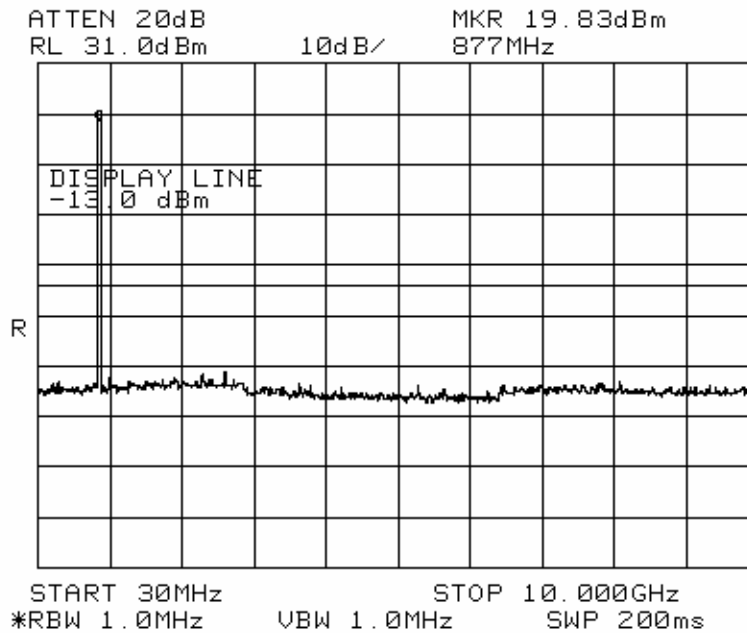
EQUIPMENT: **MR853D**

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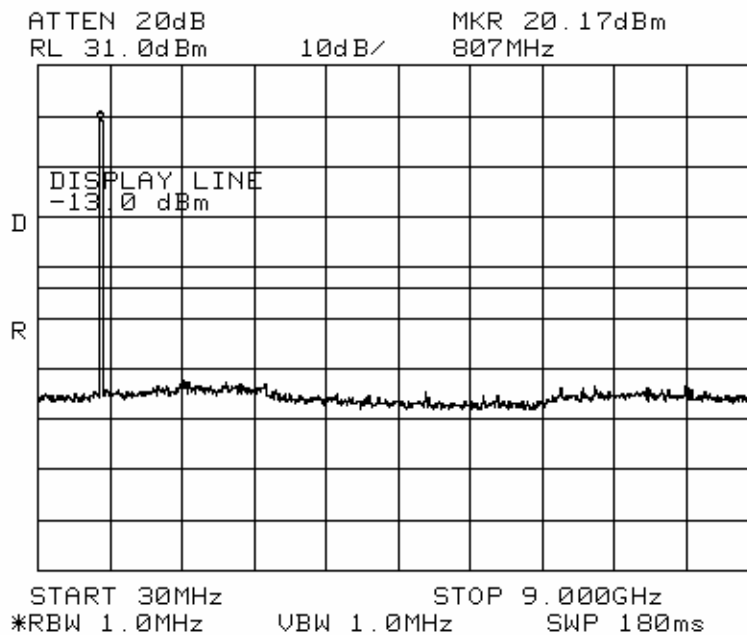
Test Data – Spurious Emissions at Antenna Terminals

Analog

Downlink



Uplink



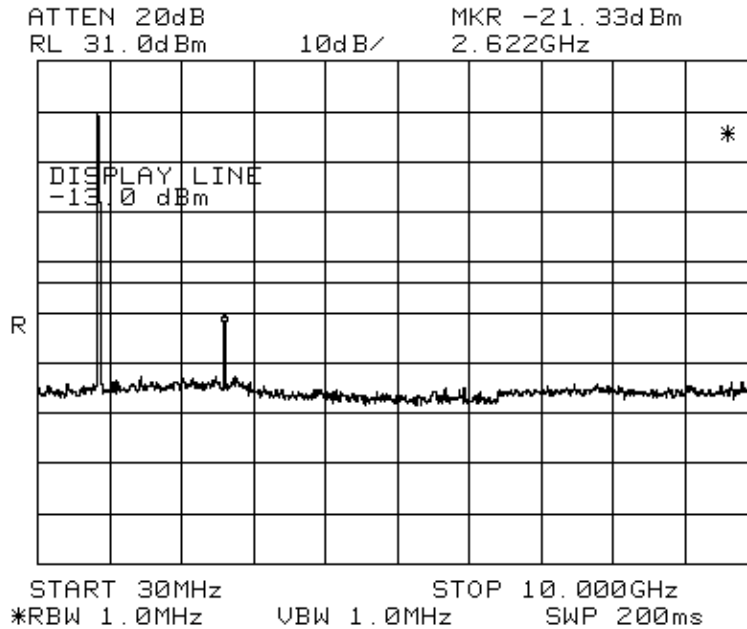
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

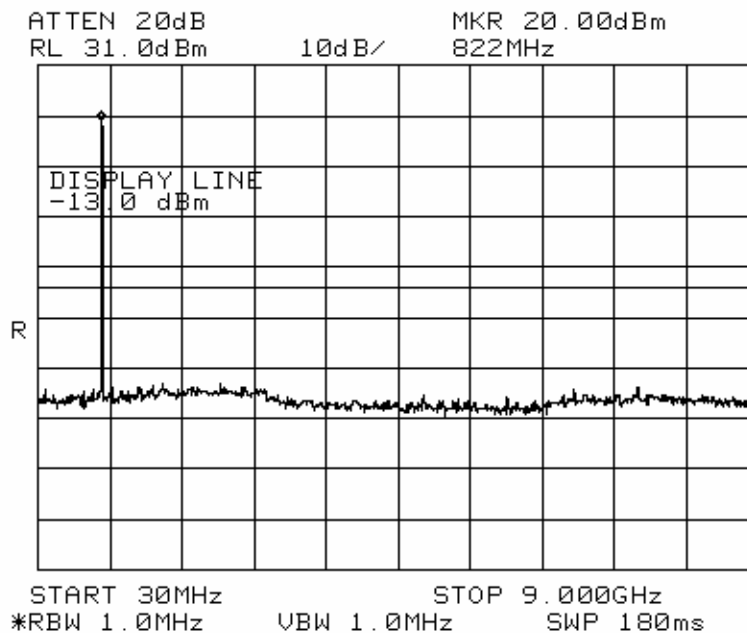
Test Data – Spurious Emissions at Antenna Terminals

CDMA

Downlink



Uplink



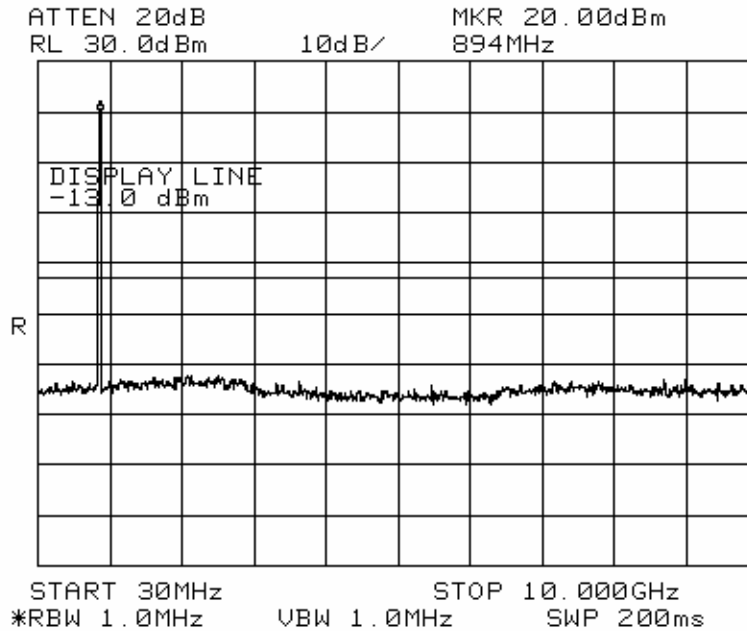
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Test Report No.: 6L0012RUS1Rev1

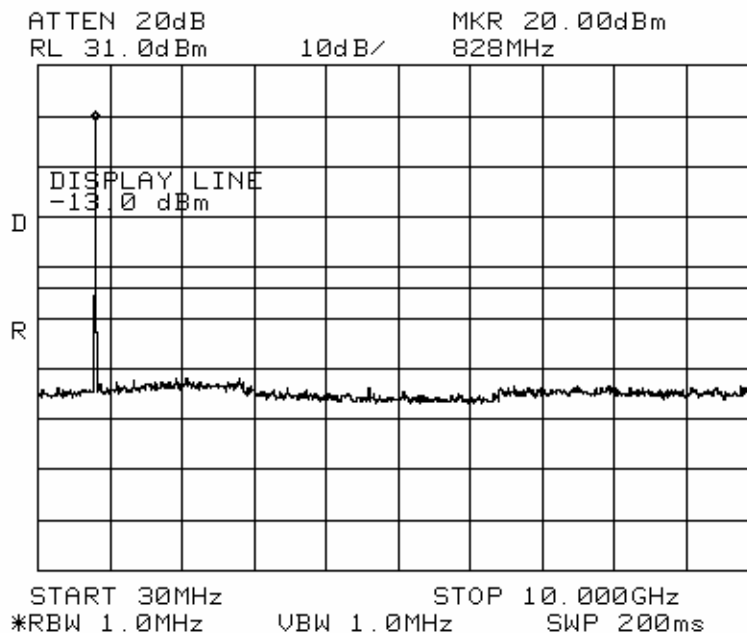
Test Data – Spurious Emissions at Antenna Terminals

GSM

Downlink



Uplink



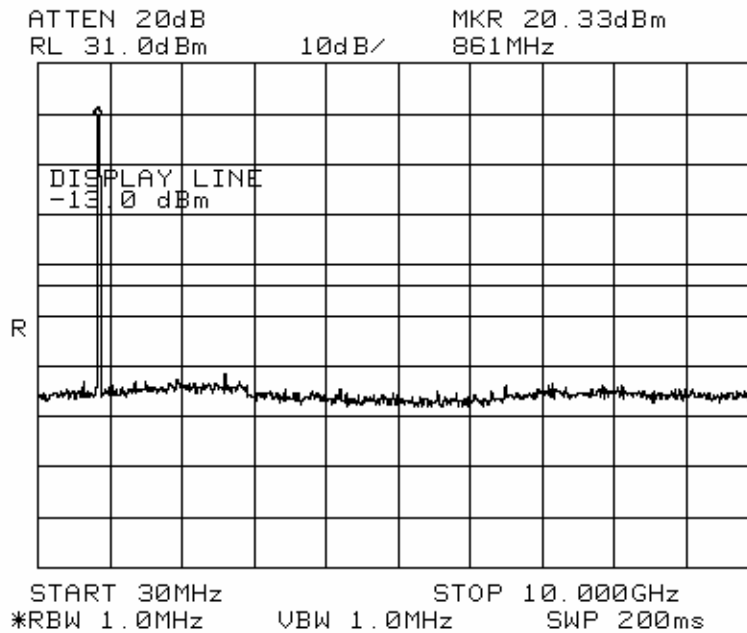
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

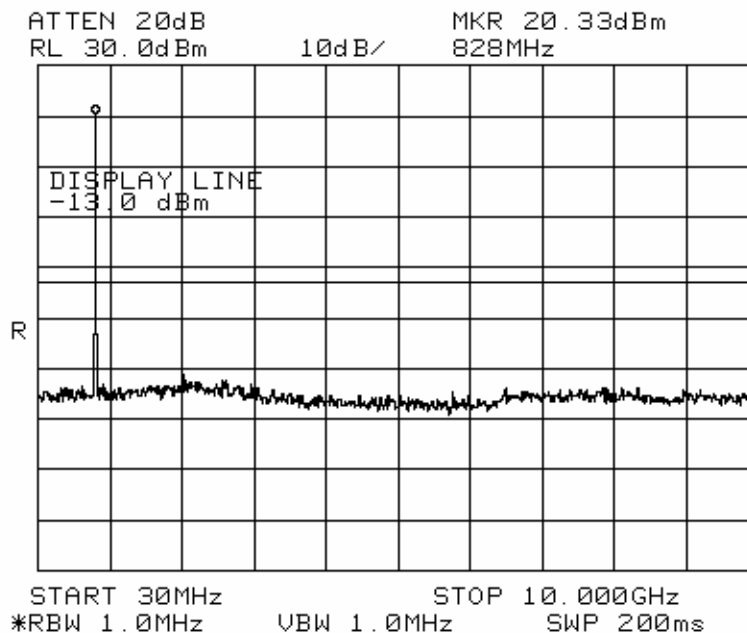
Test Data – Spurious Emissions at Antenna Terminals

TDMA

Downlink



Uplink



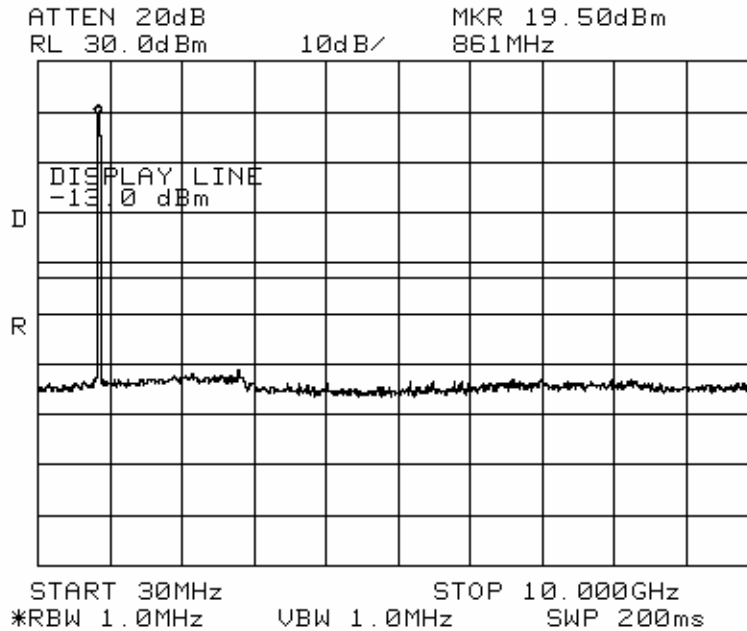
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Test Report No.: 6L0012RUS1Rev1

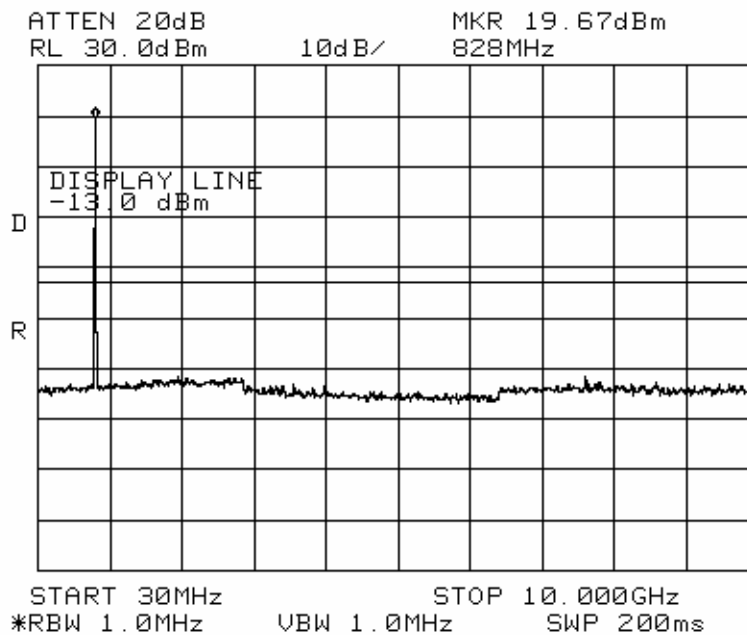
Test Data – Spurious Emissions at Antenna Terminals

EDGE

Downlink



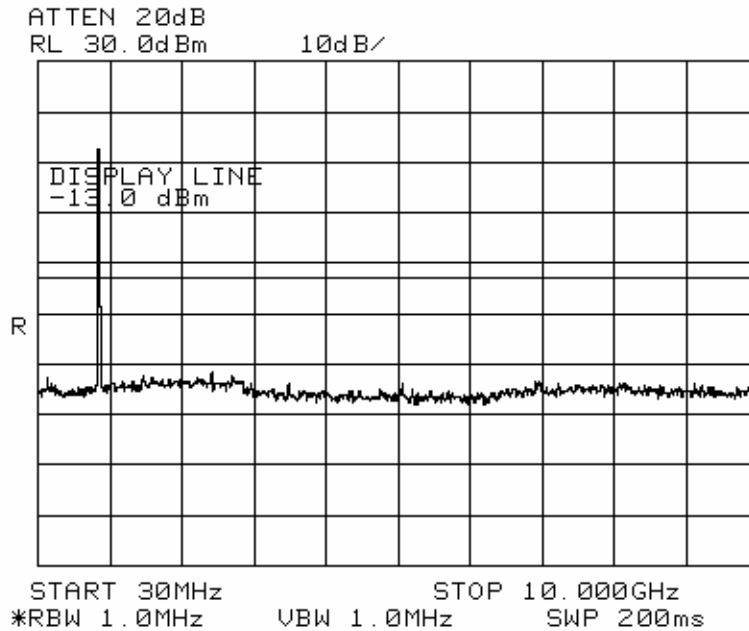
Uplink



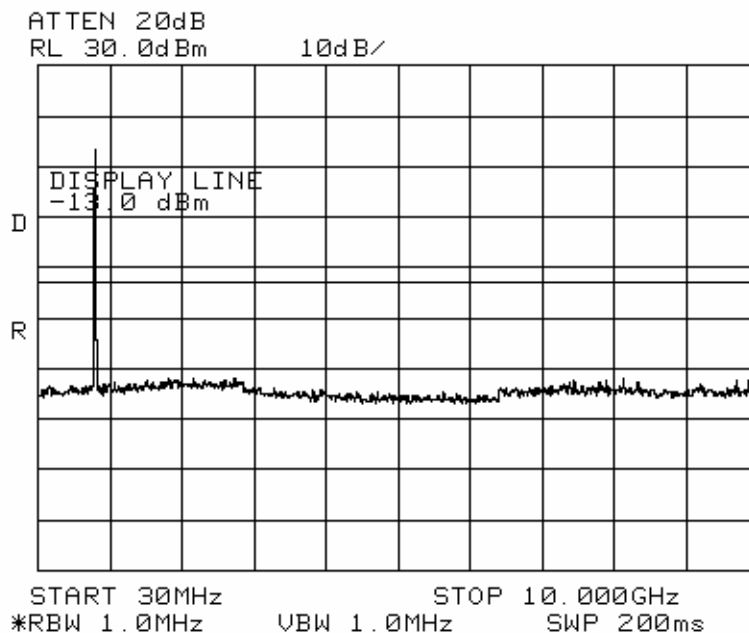
Test Data – Spurious Emissions at Antenna Terminals

W-CDMA

Downlink



Uplink

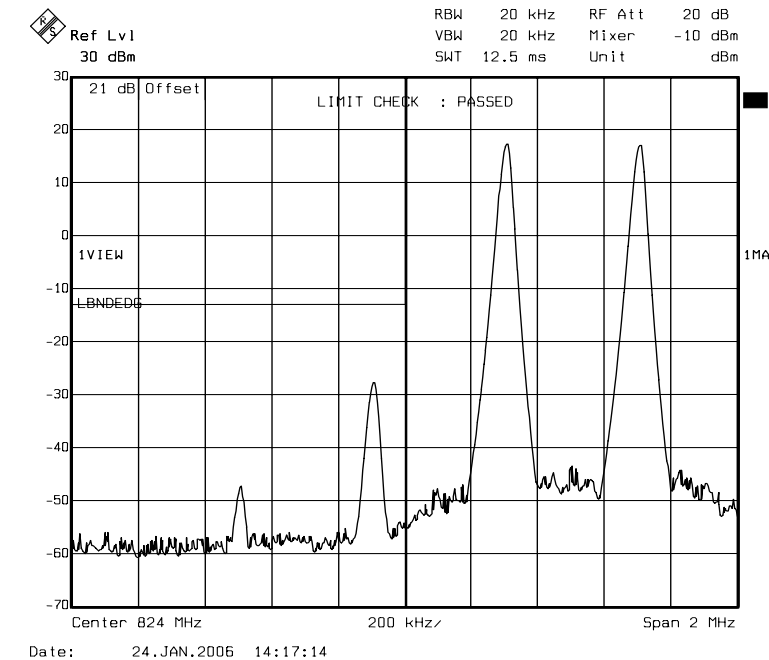


EQUIPMENT: **MR853D**

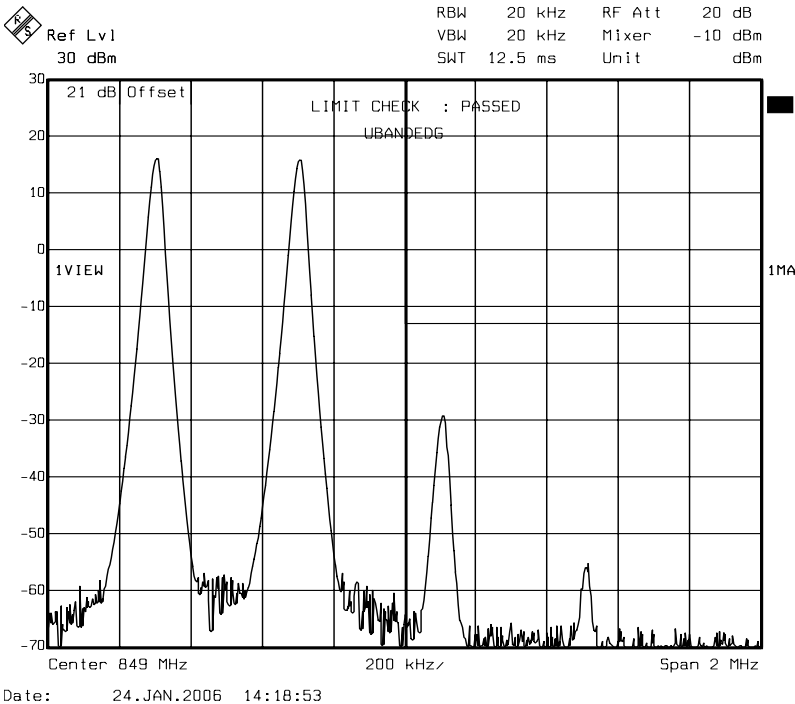
Test Report No.: 6L0012RUS1Rev1

Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

Uplink - Analog
Lower



Upper



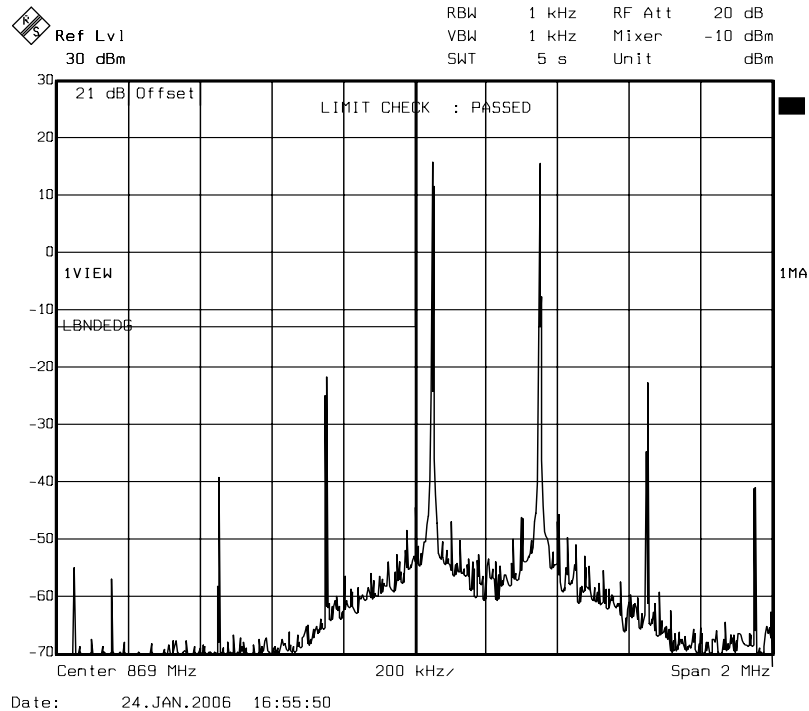
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

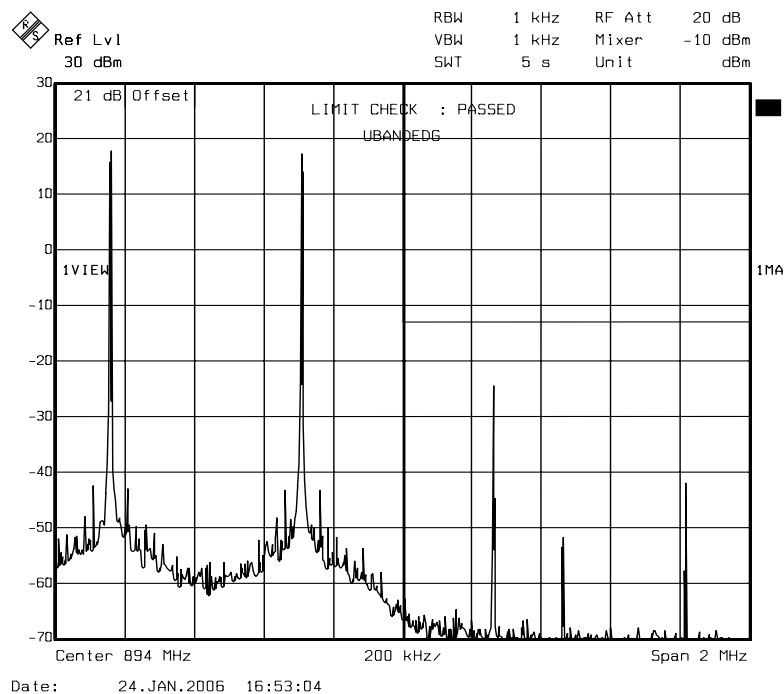
Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

Downlink - Analog

Lower



Upper



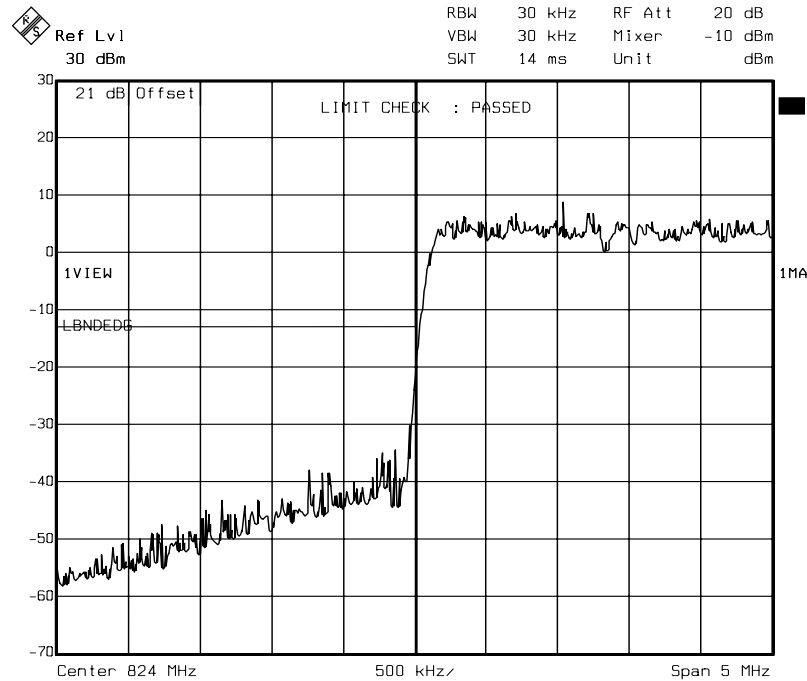
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

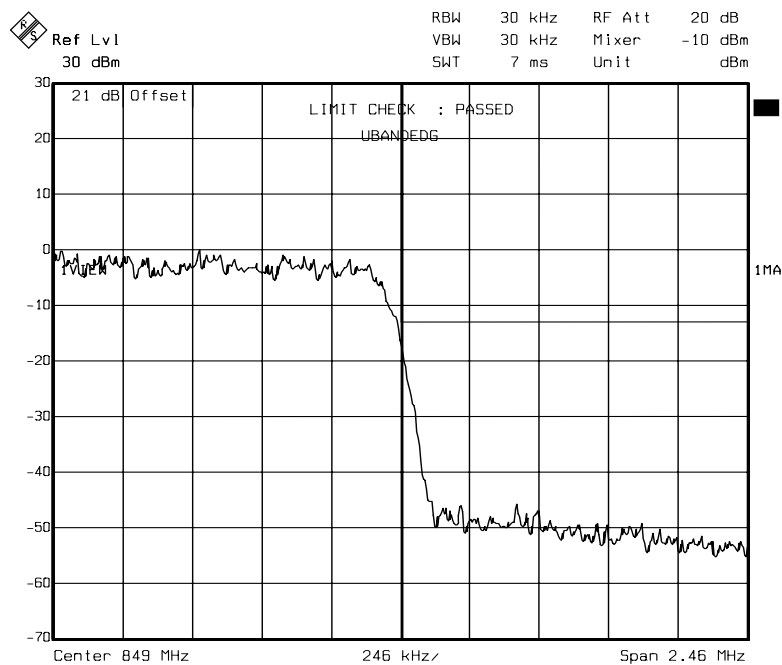
Uplink - CDMA

Lower



Date: 24.JAN.2006 13:49:09

Upper



Date: 24.JAN.2006 13:53:19

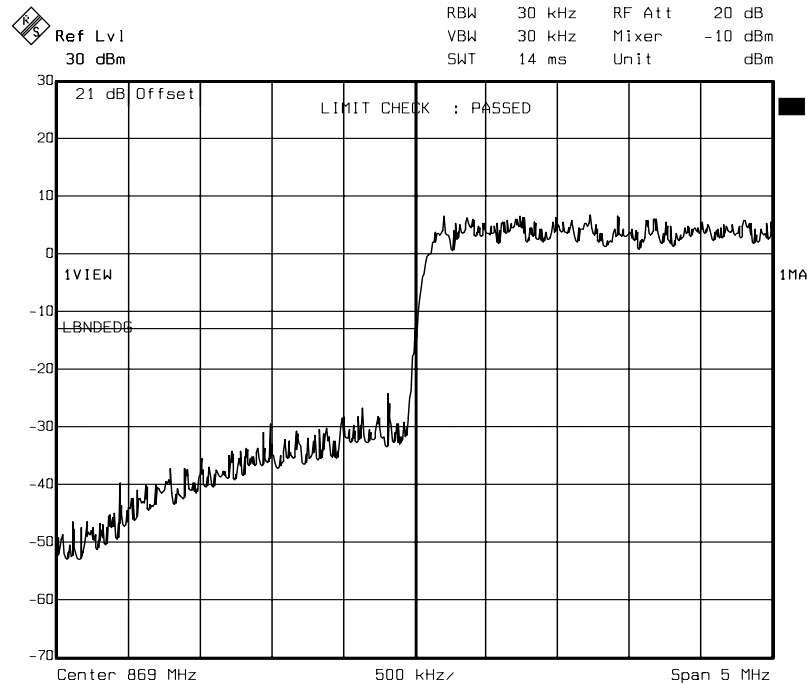
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

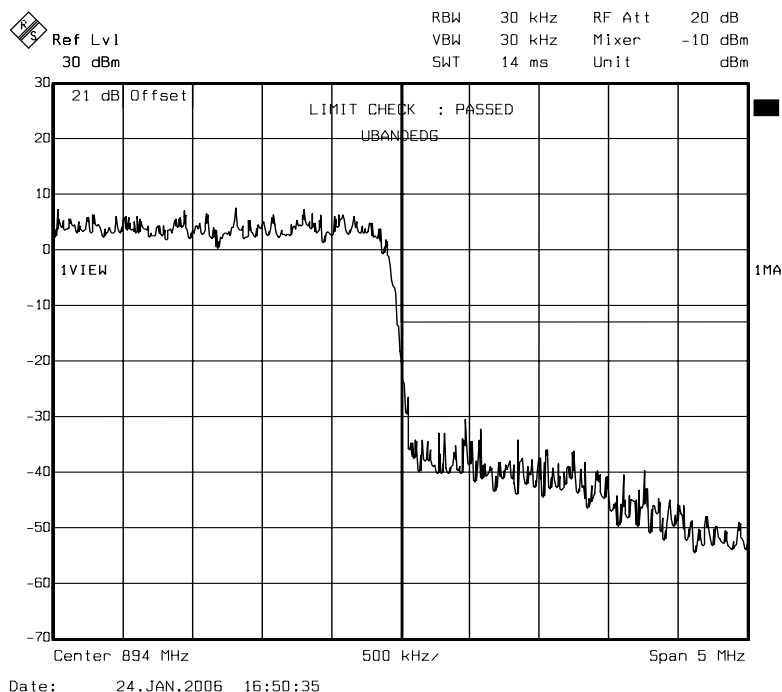
Downlink - CDMA

Lower



Date: 24.JAN.2006 16:46:28

Upper



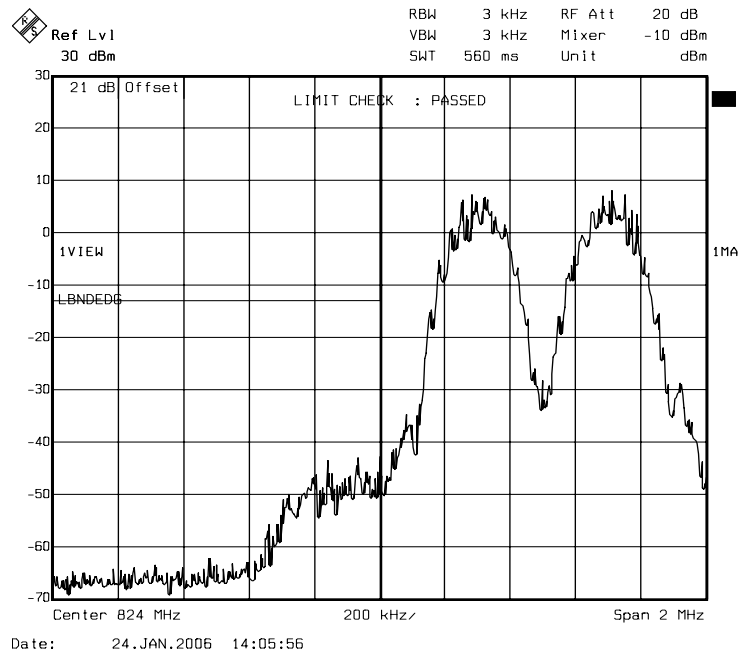
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

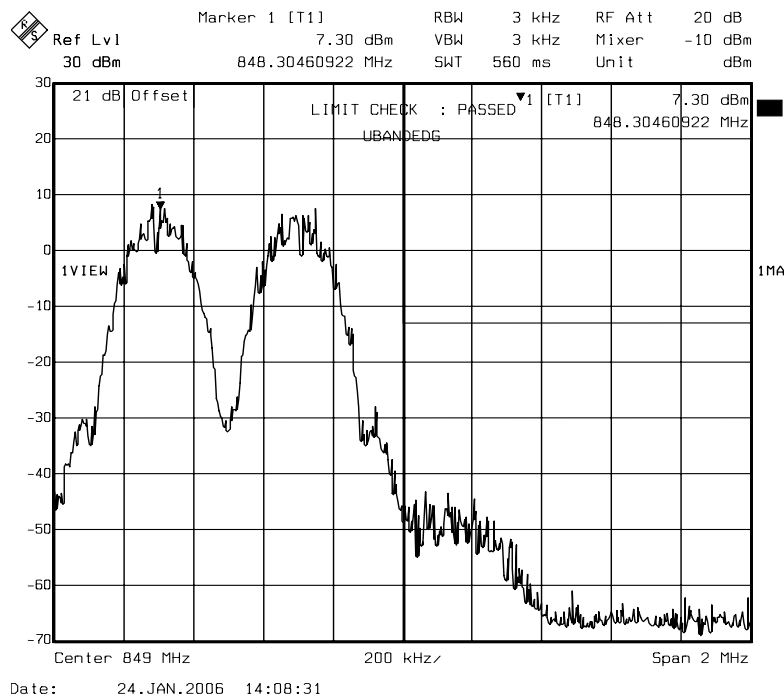
Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

Uplink - GSM

Lower



Upper



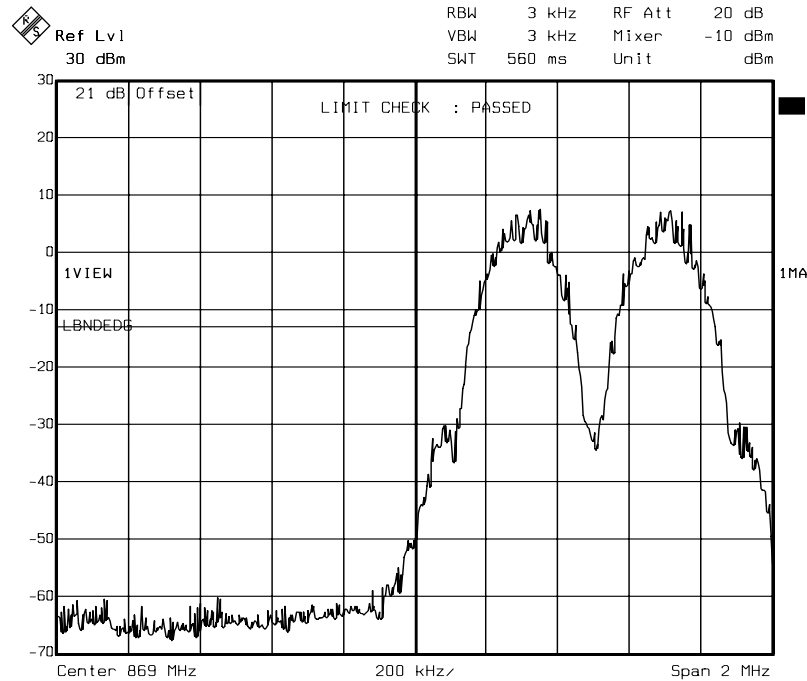
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Test Report No.: 6L0012RUS1Rev1

Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

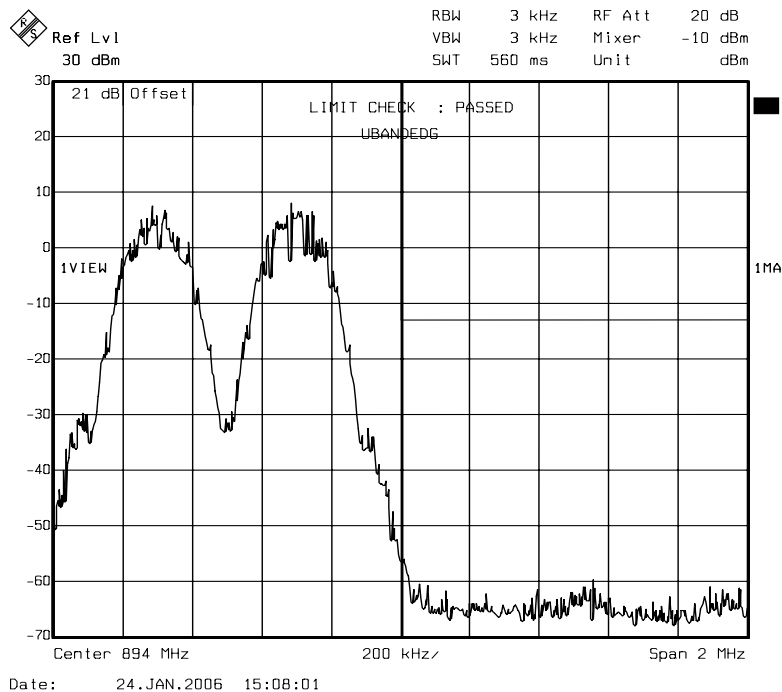
Downlink - GSM

Lower



Date: 24.JAN.2006 15:09:59

Upper



Date: 24.JAN.2006 15:08:01

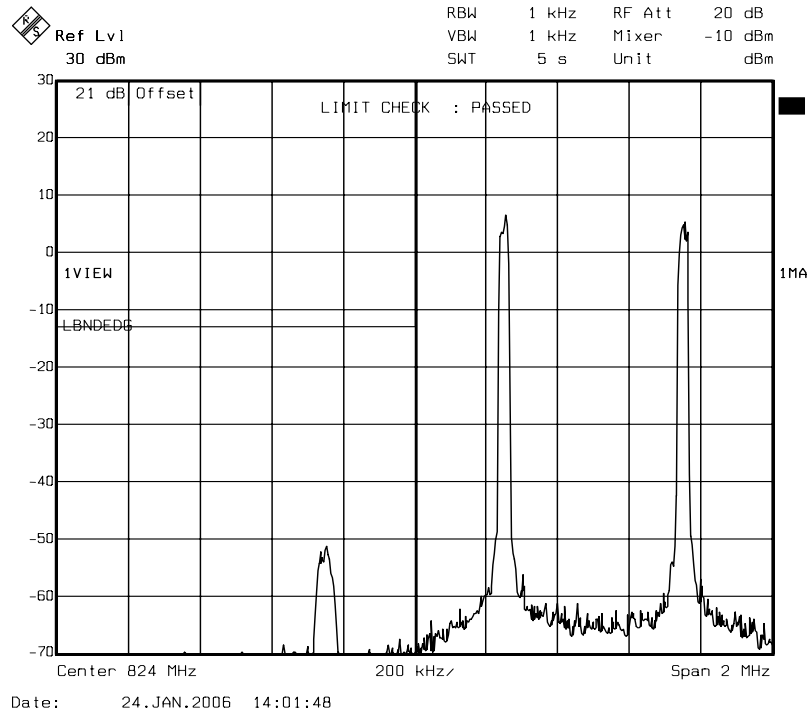
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Test Report No.: 6L0012RUS1Rev1

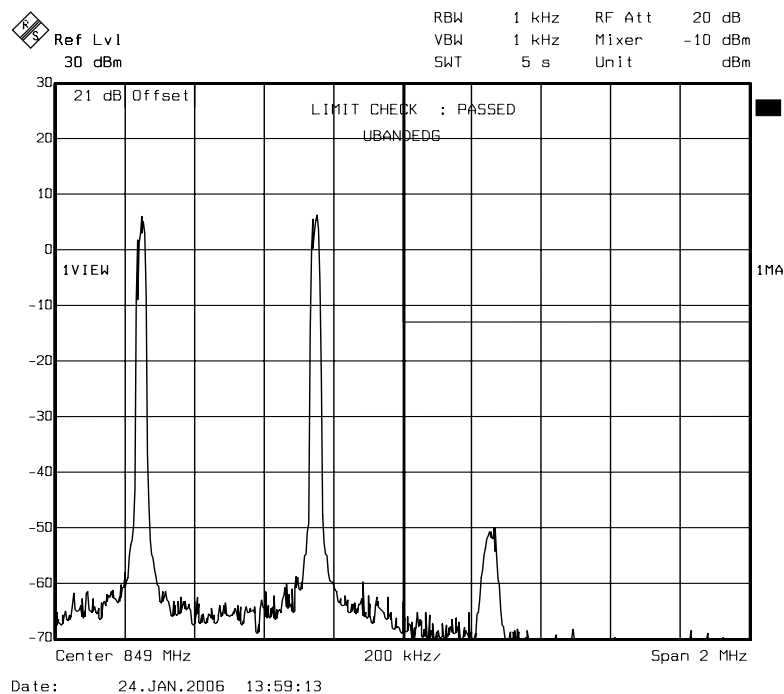
Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

Uplink - TDMA

Lower



Upper



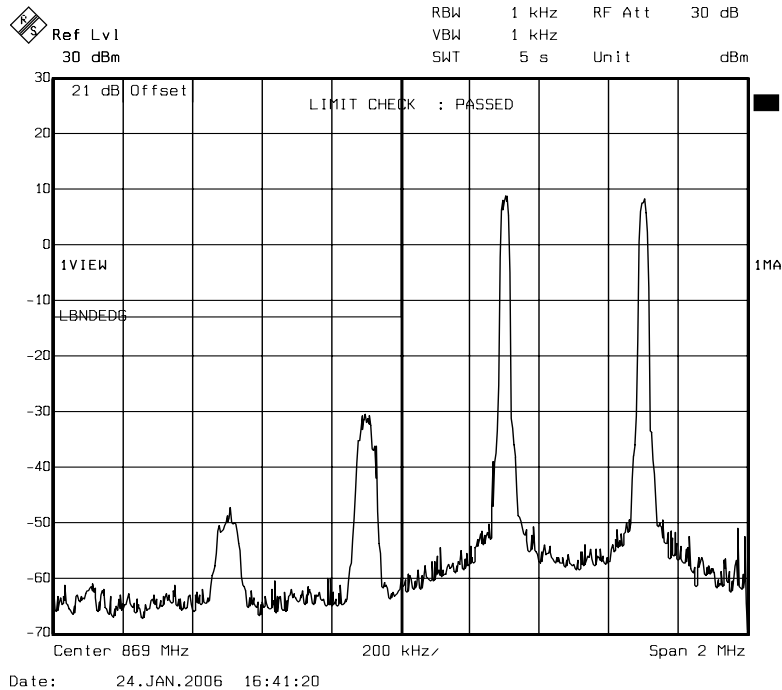
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

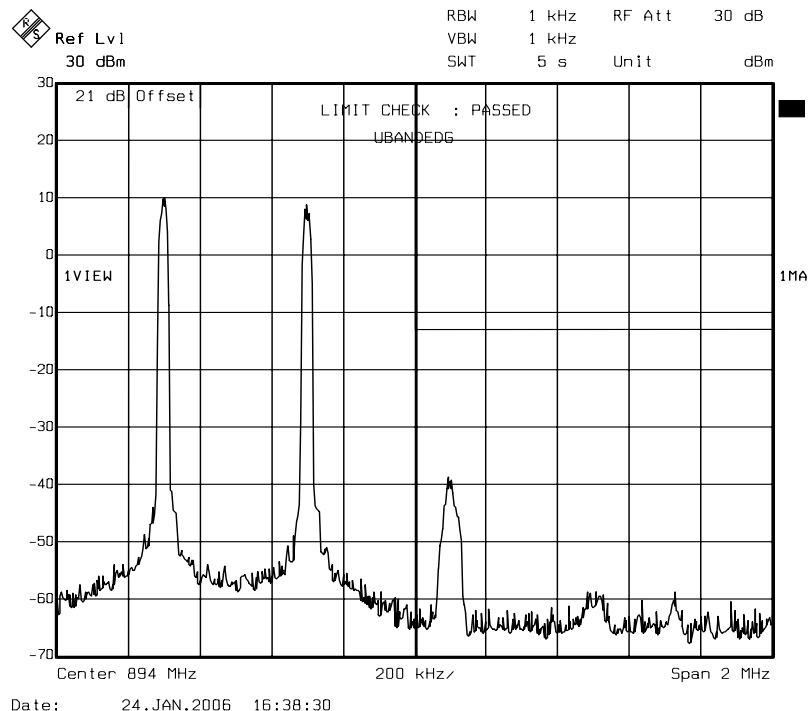
Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

Downlink - TDMA

Lower



Upper



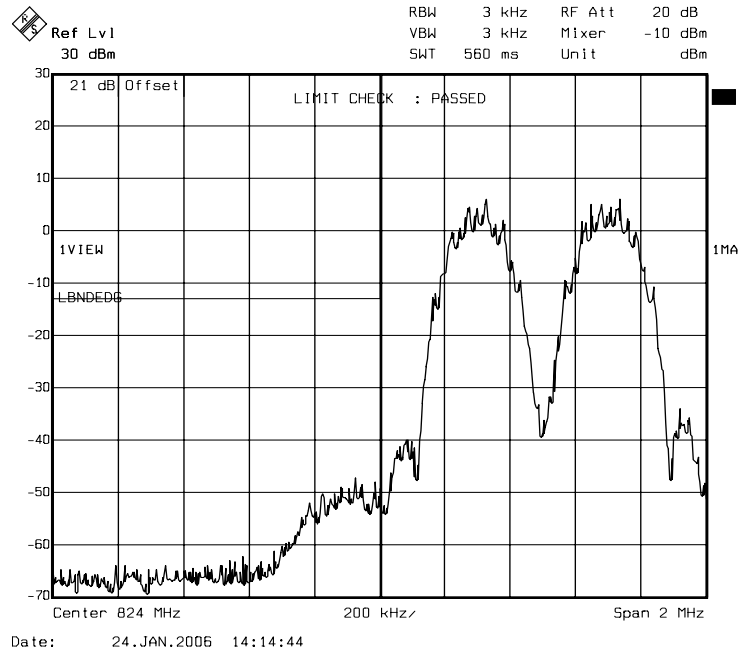
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

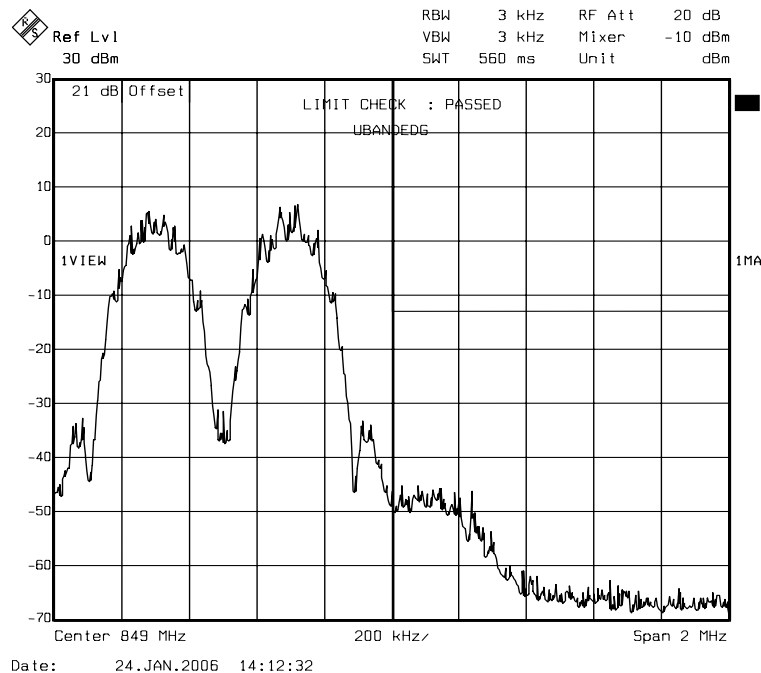
Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

Uplink - EDGE

Lower



Upper



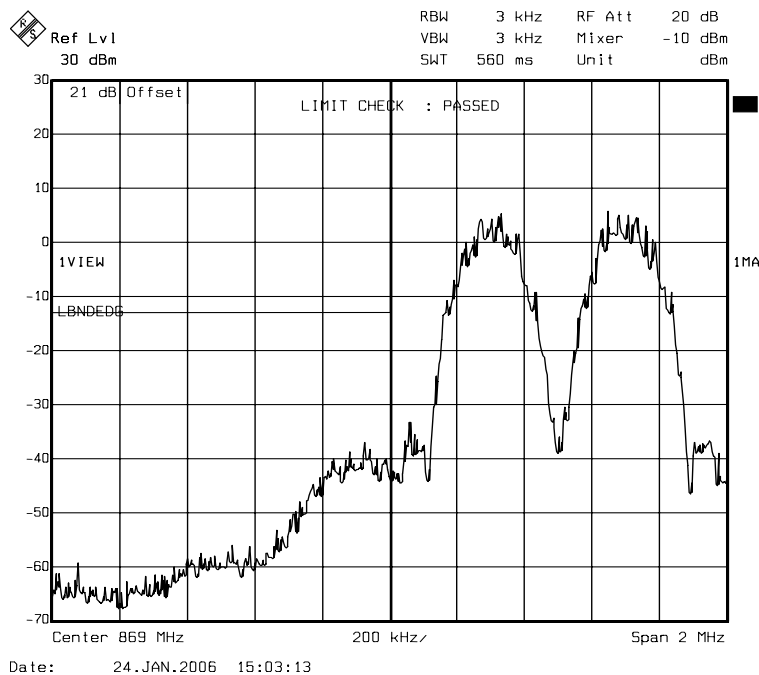
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

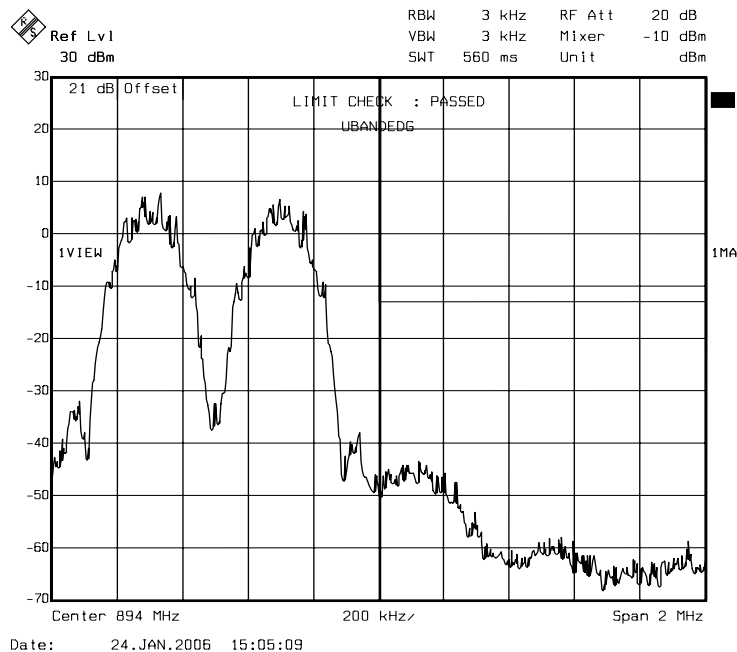
Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

Downlink - EDGE

Lower



Upper



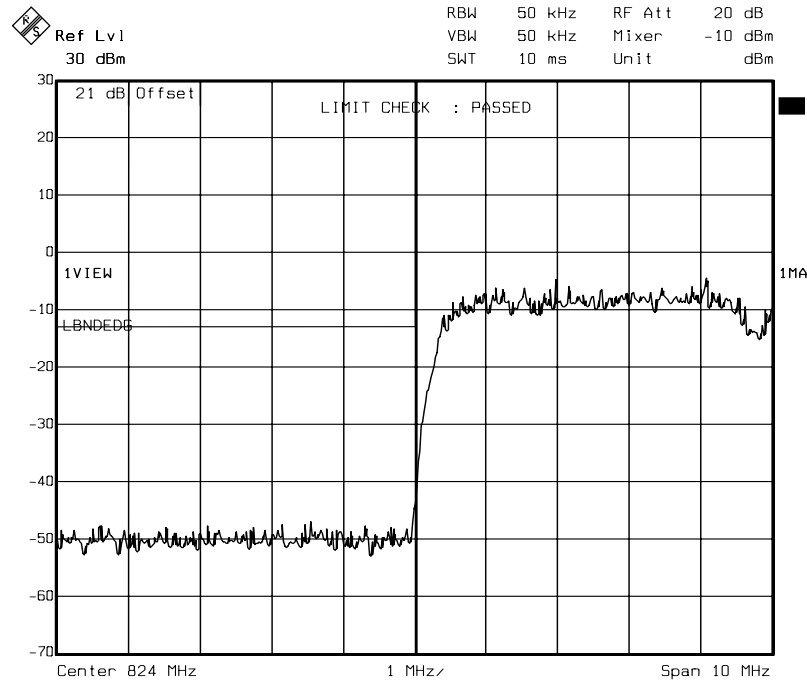
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

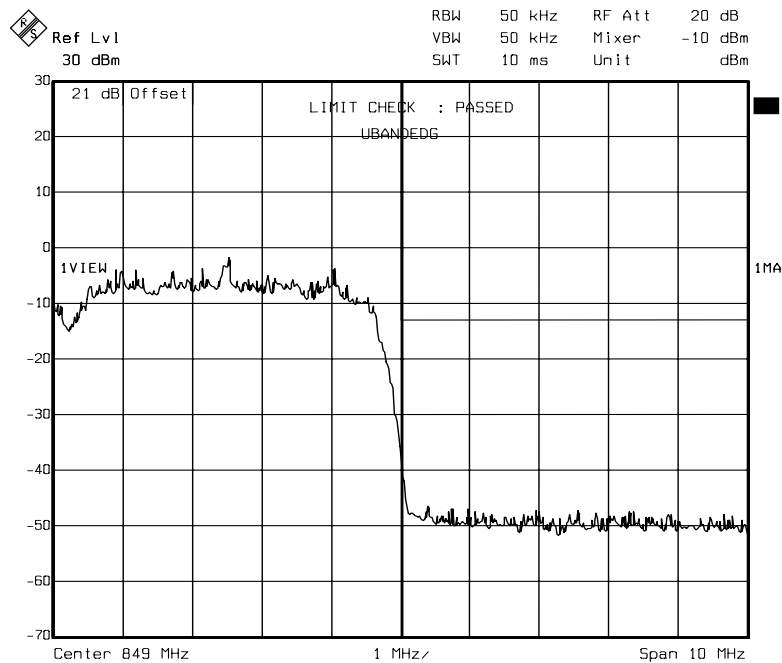
Uplink - WCDMA

Lower



Date: 24.JAN.2006 14:35:16

Upper



Date: 24.JAN.2006 14:42:50

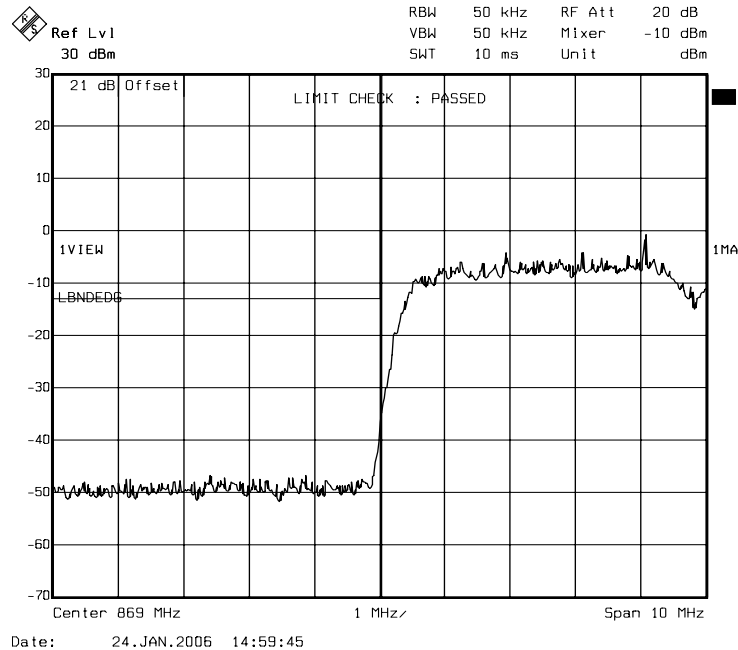
EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

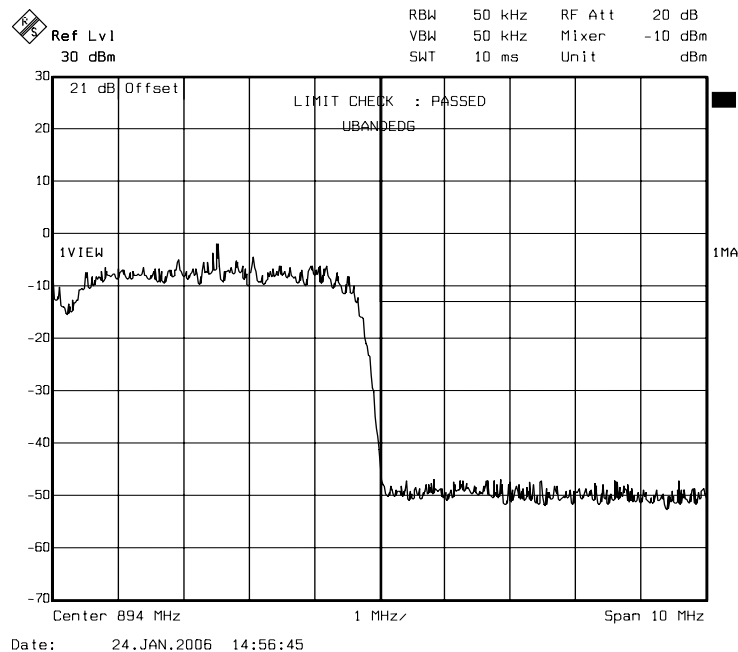
Test Data – Spurious Emissions at Antenna Terminals (Intermodulation)

Downlink - WCDMA

Lower



Upper



EQUIPMENT: **MR853D**Test Report No.: 6L0012RUS1Rev1

Section 6. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious	PARA. NO.: 22.917
TESTED BY: David Light	DATE: 19 January 2006

Test Results: **Complies.****Test Data:** There were no emissions detected within 20 dB of the specification limit of -13 dBm. The only spurious emission detected measured -53.6 dBm at 3346.08 MHz in the UL path.**Equipment Used:** 1464-993-1484-1485-1016-791-759-760**Measurement
Uncertainty:** +/- 1.7 dB**Temperature:** 22 °C**Relative
Humidity:** 40 %

Test Setup Photograph



EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

Section 7 Out of Band Rejection

NAME OF TEST: Out of Band Rejection	PARA. NO.: Not Specified
TESTED BY: David Light	DATE: 08 February 2006

Test Results: Complies.

Test Data: See attached.

Equipment Used: 1464-1627-1472-1036

Measurement Uncertainty: $\pm 1.7 \text{ dB}$ dB
 1×10^{-7} ppm

Temperature: 22 °C

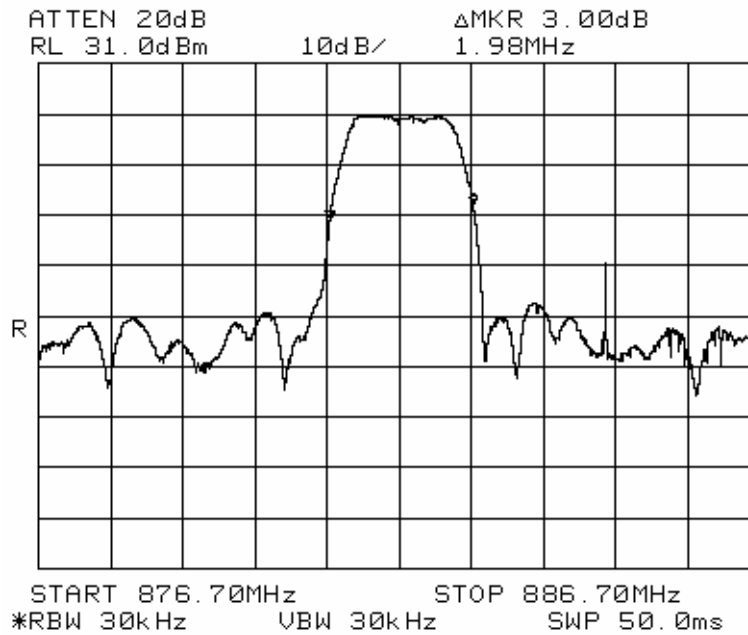
Relative Humidity: 45 %

EQUIPMENT: **MR853D**

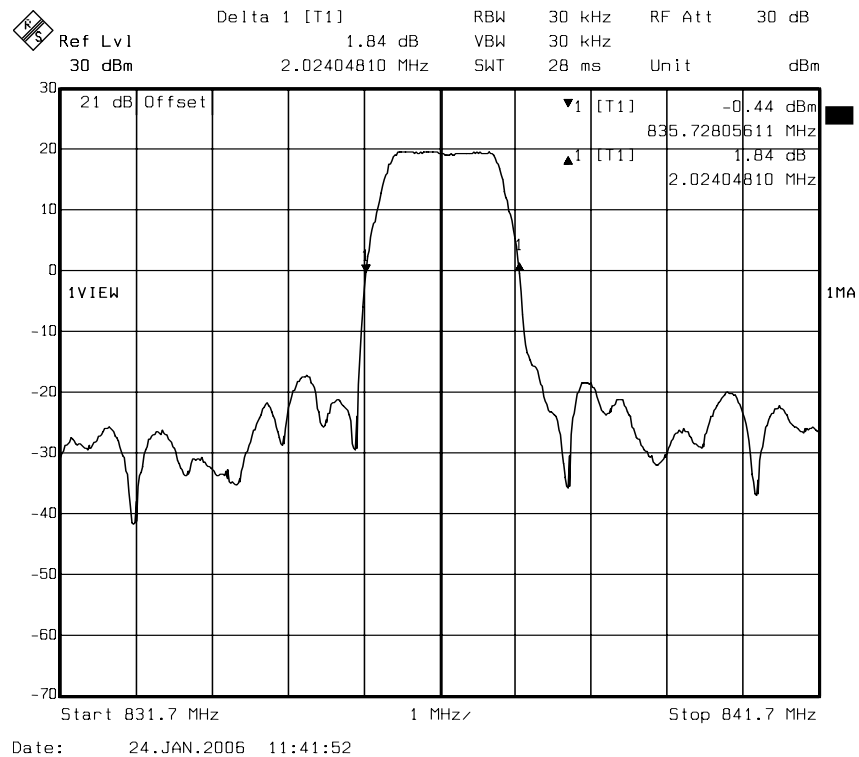
Test Report No.: 6L0012RUS1Rev1

Test Data – Out of Band Rejection

DL



UL

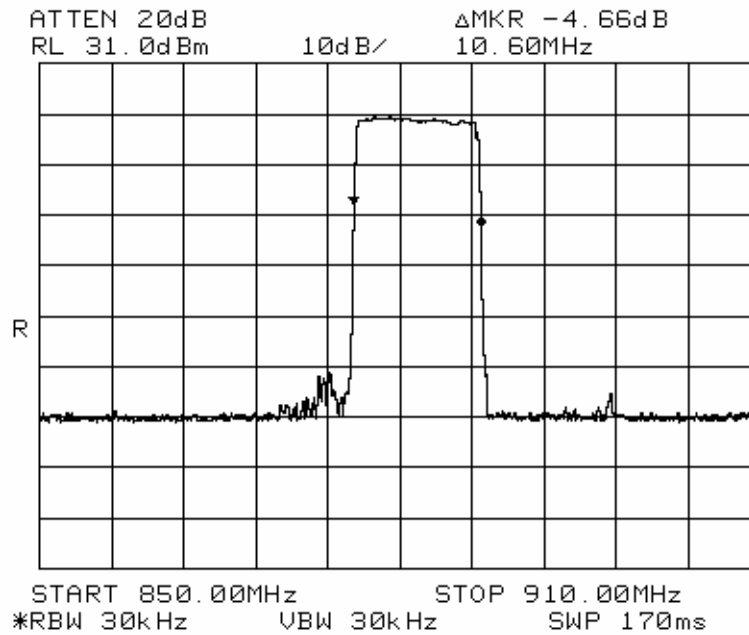


EQUIPMENT: **MR853D**

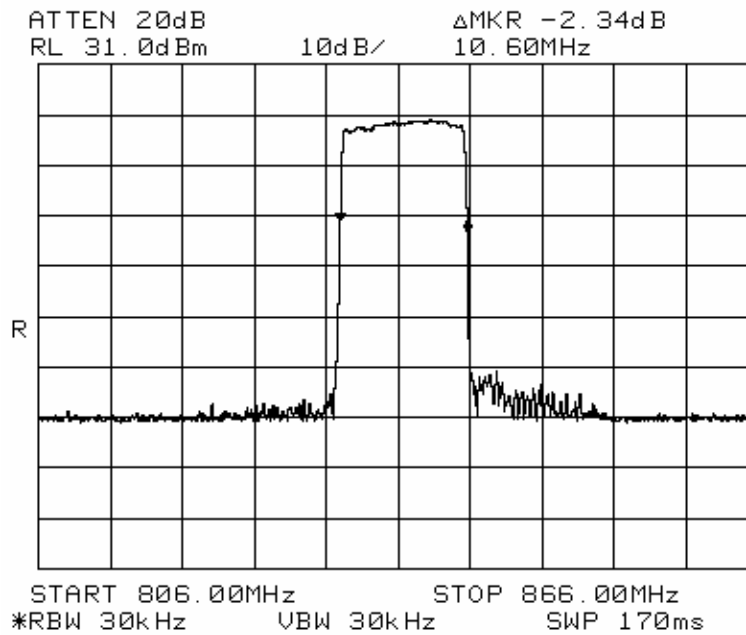
Test Report No.: 6L0012RUS1Rev1

Test Data – Out of Band Rejection

DL



UL

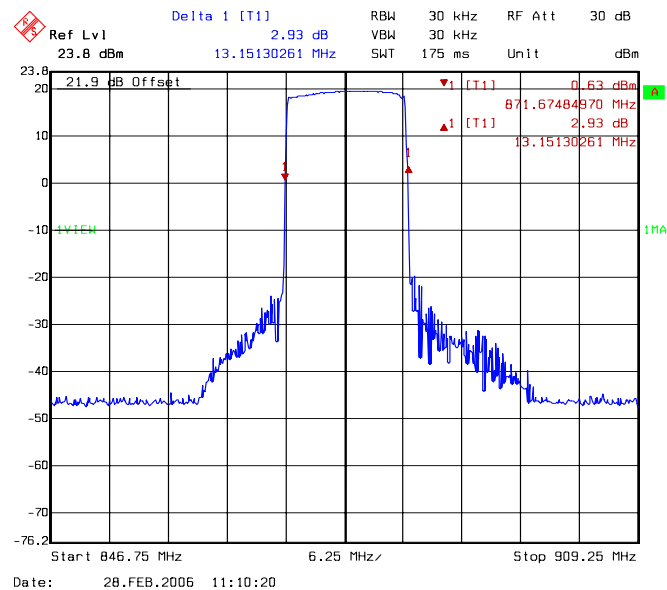


EQUIPMENT: **MR853D**

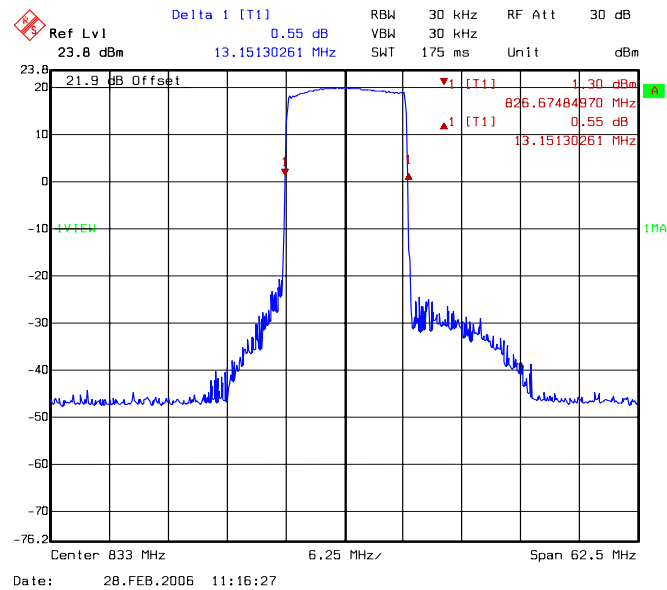
Test Report No.: 6L0012RUS1Rev1

Test Data – Out of Band Rejection

DL



UL

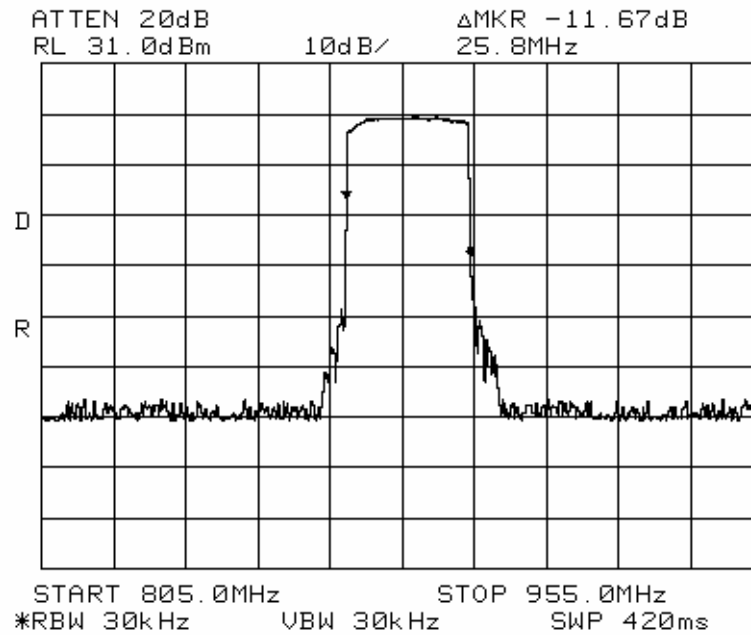


EQUIPMENT: **MR853D**

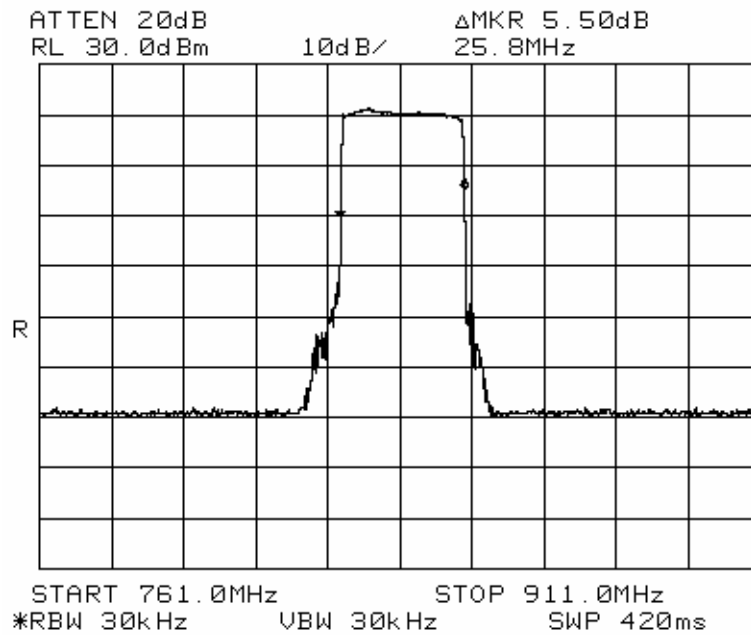
Test Report No.: 6L0012RUS1Rev1

Test Data – Out of Band Rejection

DL



UL



EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

Section 8. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/14/05	01/15/07
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	CBU	N/A
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	CBU	N/A
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/01/05	08/02/07
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	11/12/05	11/12/06
791	PREAMP, 25dB	ICC LNA25	398	11/12/05	11/12/06
759	ANTENNA, LOG PERIODIC	A.H. SYSTEMS SAS-200/510	556	08/04/05	08/04/06
760	Antenna biconical	Electro Metrics MFC-25	477	08/04/05	08/04/06
1081	CABLE 2m	Astrolab 32027-2-29094-72TC	N/A	CBU	N/A
1082	CABLE 2m	Astrolab 32027-2-29094-72TC	N/A	CBU	N/A
1472	20db Attenuator DC 18 Ghz	Omni Spectra 20600-20db	NONE	CBU	N/A
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	03/22/04	03/23/06

ANNEX A - TEST DETAILS

NAME OF TEST: RF Power Output**PARA. NO.: 2.1046**

Minimum Standard: Para. No. 22.913(a). The maximum effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 watts.

Method Of Measurement:Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter. Power output is measured with the maximum rated input level.

Integral Antenna:

If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi R^2 = E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts

E = the maximum measured field strength in V/m

R = the measurement range (3 meters)

G = the numeric gain of the transmit antenna in relation to an isotropic radiator

NAME OF TEST: Occupied Bandwidth (Voice & SAT)**PARA. NO.: 2.1049**

Minimum Standard: 22.917(c) The mean power of any emission removed from the carrier frequency by a displacement frequency (f_d in kHz) must be attenuated below the mean power of the unmodulated carrier (P) as follows:

- (i) On any frequency removed from the carrier frequency by more than 12 kHz but not more than 20 kHz:

at least $117 \log(f_d/12)$

- (ii) On any frequency removed from the carrier frequency by more than 20 kHz, up to the first multiple of the carrier frequency:

at least $100 \log(f_d/11)$ dB or $43 + 10 \log(P)$ dB, whichever is the lesser attenuation.

Method Of Measurement:Spectrum Analyzer Settings:

RBW: 300 Hz

VBW: $\geq$ RBW

Span: 100 kHz

Sweep: Auto

Input Signal Characteristics (F3E/F3D):

RF level: Maximum recommended by manufacturer

AF1 frequency: 6 kHz

AF1 level: sufficient to produce 2 kHz deviation

AF2 frequency: 2.5 kHz

AF2 level: sufficient to produce 12 kHz deviation.

NAME OF TEST: Occupied Bandwidth (WB Data)**PARA. NO.: 2.1049**

Minimum Standard: 22.917(c) The mean power of any emission removed from the carrier frequency by a displacement frequency (f_d in kHz) must be attenuated below the mean power of the unmodulated carrier (P) as follows:

(1) On any frequency removed from the carrier frequency by more than 20 kHz but not more than 45 kHz:

at least 26 dB

(2) On any frequency removed from the carrier frequency by more than 45 kHz but not more than 90 kHz:

at least 45 dB

(3) On any frequency removed from the carrier frequency by more than 90 kHz, up to the first multiple of the carrier frequency:

at least 60 dB or $43 + 10 \log (P)$ dB, whichever is the lesser attenuation.

Method Of Measurement:Spectrum Analyzer Settings:

RBW: 300 Hz

VBW: $\geq$ RBW

Span: 200 kHz

Sweep: Auto

Input Signal Characteristics:

RF level: Maximum recommended by manufacturer

AF1 frequency: 10 kHz, random bit sequence

AF1 level: sufficient to produce 8 kHz deviation

NAME OF TEST: Occupied Bandwidth (ST)**PARA. NO.: 2.1049**

Minimum Standard: 22.917(c) The mean power of any emission removed from the carrier frequency by a displacement frequency (f_d in kHz) must be attenuated below the mean power of the unmodulated carrier (P) as follows:

(1) On any frequency removed from the carrier frequency by more than 20 kHz but not more than 45 kHz:

at least 26 dB

(2) On any frequency removed from the carrier frequency by more than 45 kHz but not more than 90 kHz:

at least 45 dB

(3) On any frequency removed from the carrier frequency by more than 90 kHz, up to the first multiple of the carrier frequency:

at least 60 dB or $43 + 10 \log (P)$ dB, whichever is the lesser attenuation.

Method Of Measurement:Spectrum Analyzer Settings:

RBW: 300 Hz

VBW: $\geq$ RBW

Span: 200 kHz

Sweep: Auto

Input Signal Characteristics:

RF level: Maximum recommended by manufacturer

AF1 frequency: 10 kHz tone

AF1 level: sufficient to produce 8 kHz deviation

EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

NAME OF TEST: Occupied Bandwidth (Digital Modulation)	PARA. NO.: 2.1049
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Minimum Standard: Not defined by FCC. Input vs. Output.

Method Of Measurement:

Spectrum Analyzer Settings:

RBW: CDMA (30 kHz), GSM (30 kHz), NADC (1 kHz) and CDPD (1 kHz)

VBW: $\geq$ RBW

Span: As required

Sweep: Auto

Input Signal Characteristics:

RF level: Maximum recommended by manufacturer

EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

NAME OF TEST: Spurious Emission at Antenna Terminals	PARA. NO.: 2.1051
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Minimum Standard: Para. No. 22.917(e). The mean power of emissions must be attenuated below the mean power of the unmodulated carrier on any frequency twice or more than twice the fundamental emission by at least $43 + 10 \log P$. This is equivalent to -13 dBm absolute power.

Method Of Measurement:

Spectrum Analyzer Settings:

RBW: 30 kHz (AMPS). As required for digital modulations.

VBW: $\geq$ RBW

Start Frequency: 0 MHz

Stop Frequency: 10 GHz

Sweep: Auto

NAME OF TEST: Field Strength of Spurious Radiation**PARA. NO.: 2.1053****Minimum Standard:**

Para. No. 22.917(e). The mean power of emissions must be attenuated below the mean power of the unmodulated carrier on any frequency twice or more than twice the fundamental emission by at least $43 + 10 \log P$. This is equivalent to -13 dBm absolute power.

Test Method:

The substitution antenna method was used to measure erp of spurious emissions. This method is described in EIA/TIA 603. The field strength of the emission is measured and recorded. The EUT is then replaced with a substitution antenna of known gain against a dipole. The substitution antenna is fed with a calibrated signal which is adjusted until the previously recorded value is repeated. The erp of the spurious signal is the level required to repeat the previously measured level. If the substitution antenna gain is calibrated and expressed as dBi (referenced to an isotropic radiator instead of a dipole), the result is adjusted by 2.15 dB so that the result is erp not eirp.

The spectrum is searched to 10 GHz.

EQUIPMENT: **MR853D**

Test Report No.: 6L0012RUS1Rev1

NAME OF TEST: Frequency Stability**PARA. NO.: 2.1055**

Minimum Standard: Para. No. 22.355. The transmitter carrier frequency shall remain within the tolerances given in Table C-1.

Table C-1

Freq. Range (MHz)	Base, fixed	Mobile > 3 W	Mobile ≤ 3 W
821 to 896	1.5	2.5	2.5

Method Of Measurement:Frequency Stability With Voltage Variation:

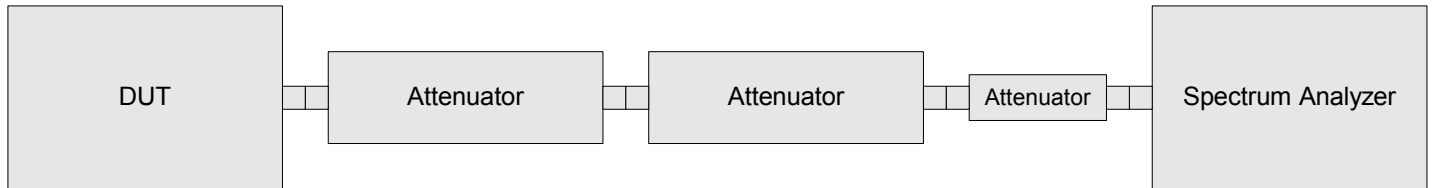
The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. The frequency counter and signal generator are phase locked with the same 10 MHz reference frequency by connecting the 10 MHz ref. out of the counter to the 10 MHz ref. in of the signal generator. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

Frequency Stability With Temperature Variation:

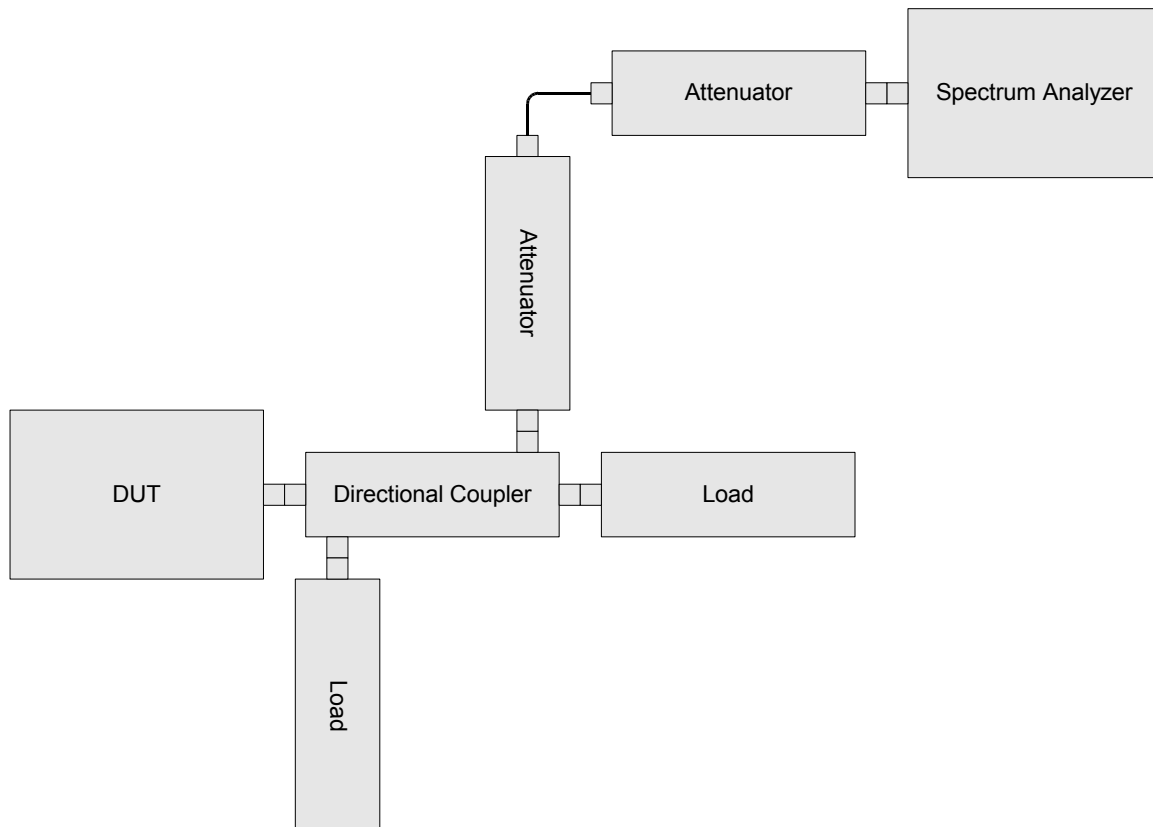
The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

ANNEX B - TEST DIAGRAMS

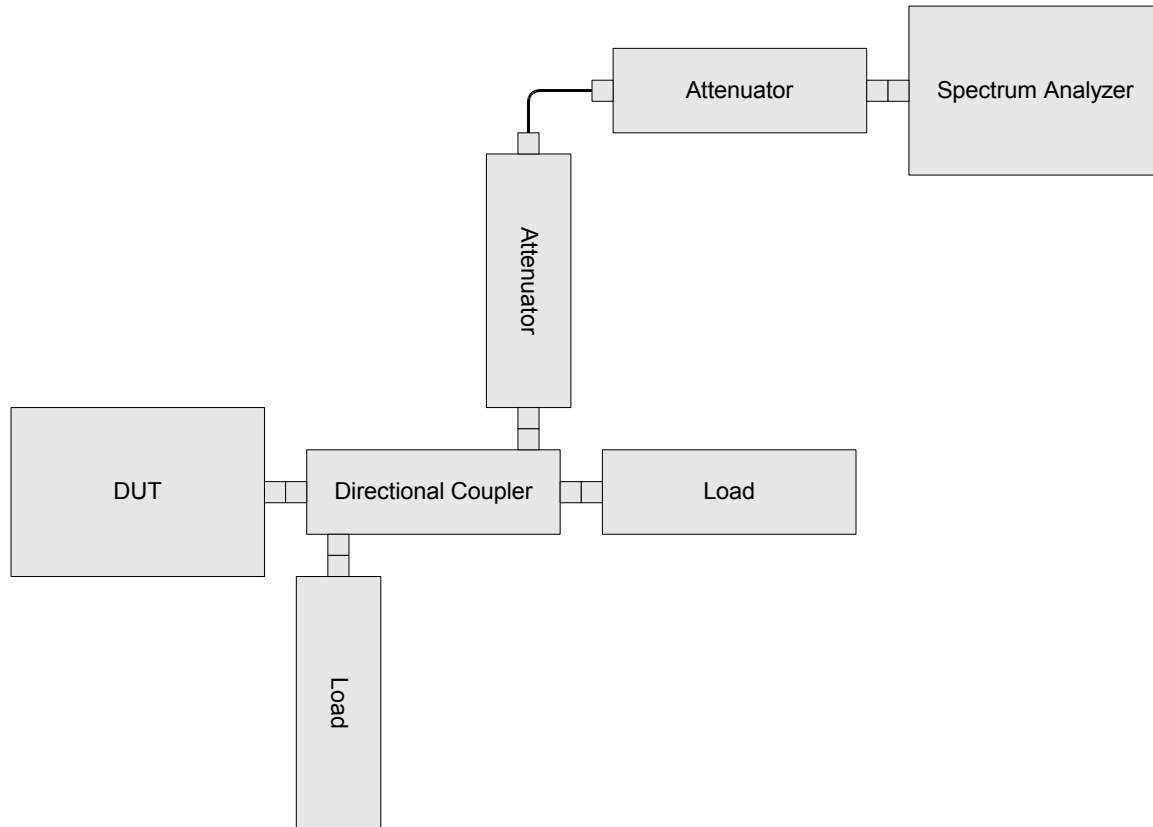
Para. No. 2.1046 - R.F. Power Output

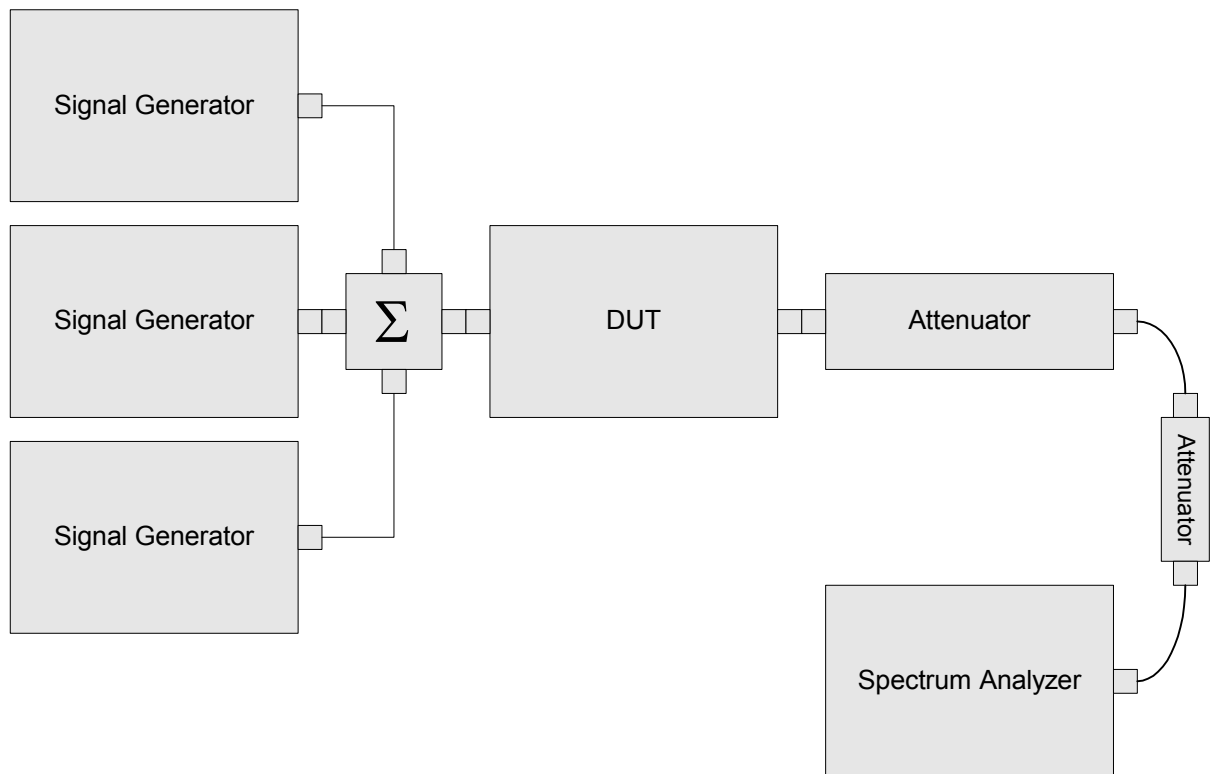


Para. No. 2.1049 - Occupied Bandwidth

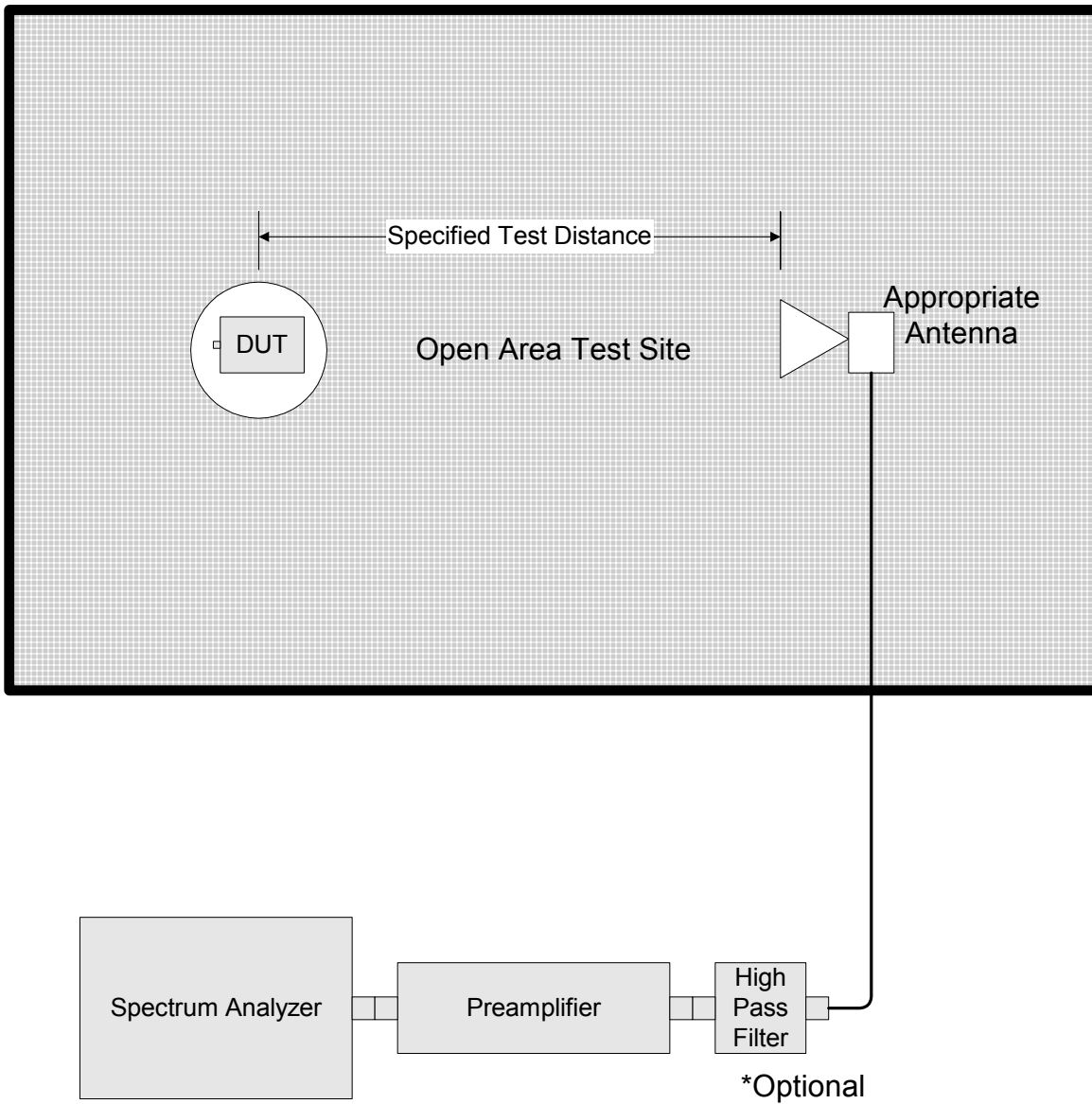


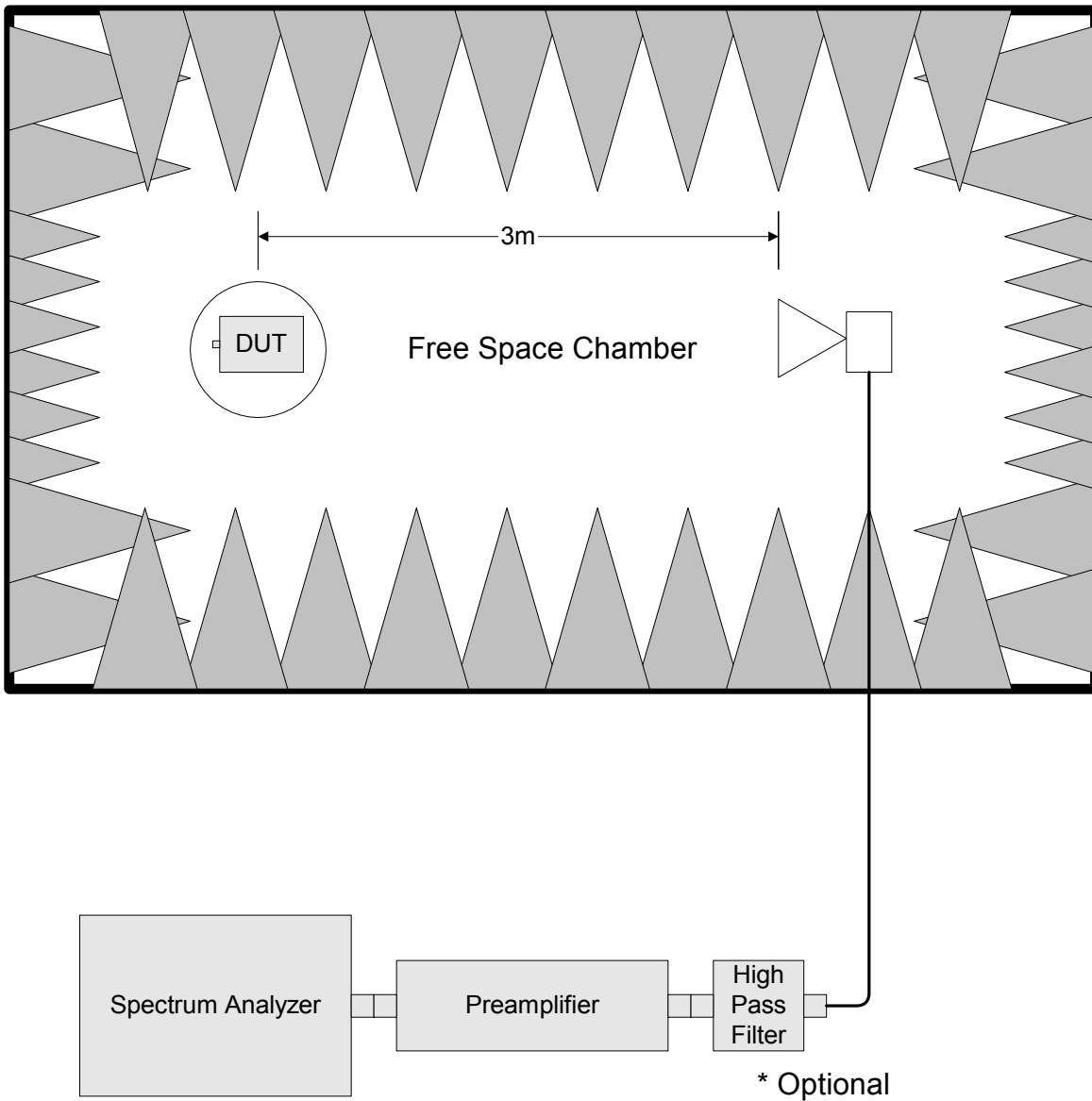
Para. No. 2.1051 Spurious Emissions at Antenna Terminals





Para. No. 2.1053 - Field Strength of Spurious Radiation





Para. No. 2.1055 - Frequency Stability

