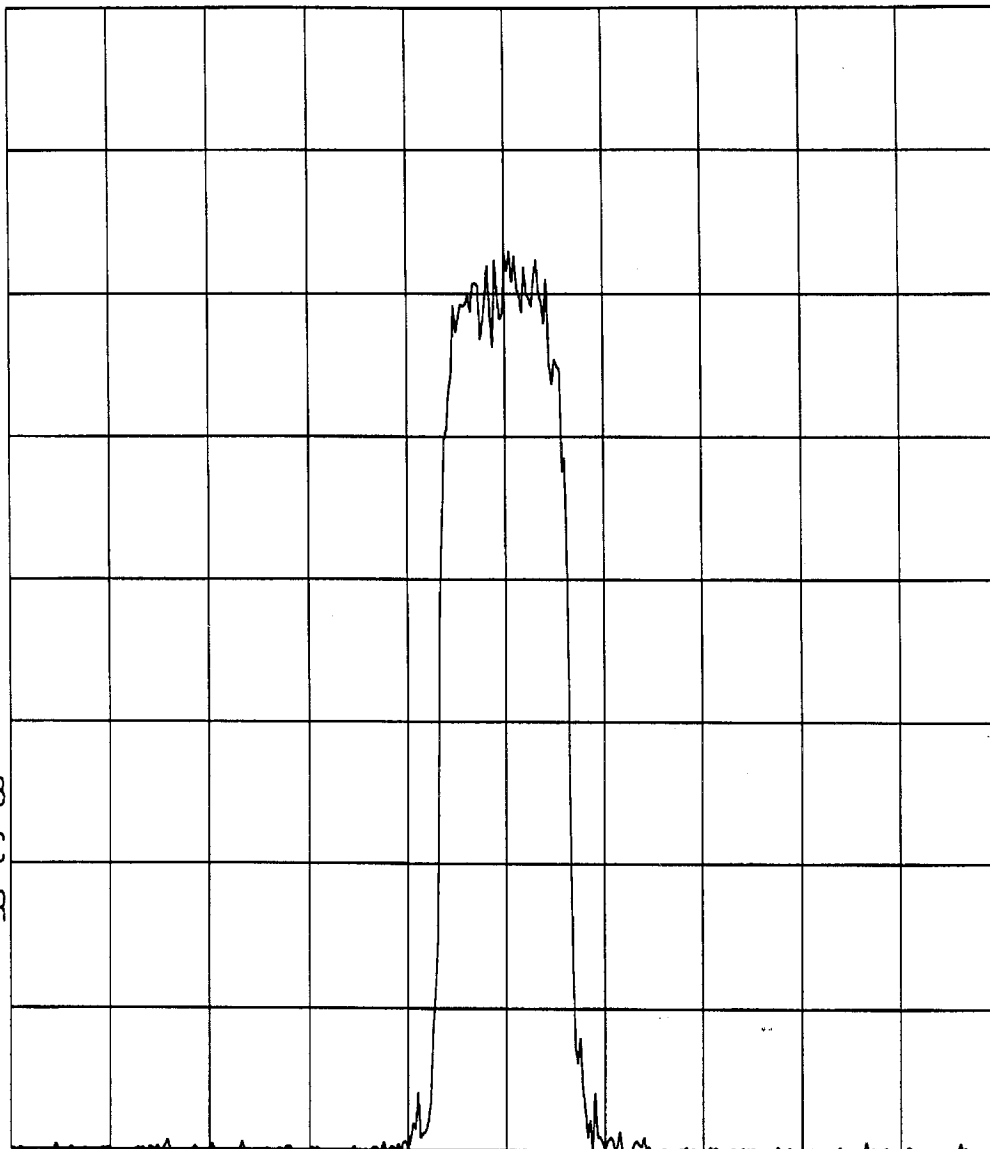


11:48:19 MAY 29, 2003

REF -20.0 dBm AT 10 dB

PEAK
LOG
10
dB/

VA SB
SC FC
CORR



CENTER 1.8800000 GHz

#RES BW 300 Hz

VBW 1 kHz

SPAN 250.0 kHz

SWP 8.33 sec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 150PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Uplink Frequency 1880 MHz
Modulation: TDMA

Date: 5/29/03

Tech: T. Firkowski

Sheet 1 of 12

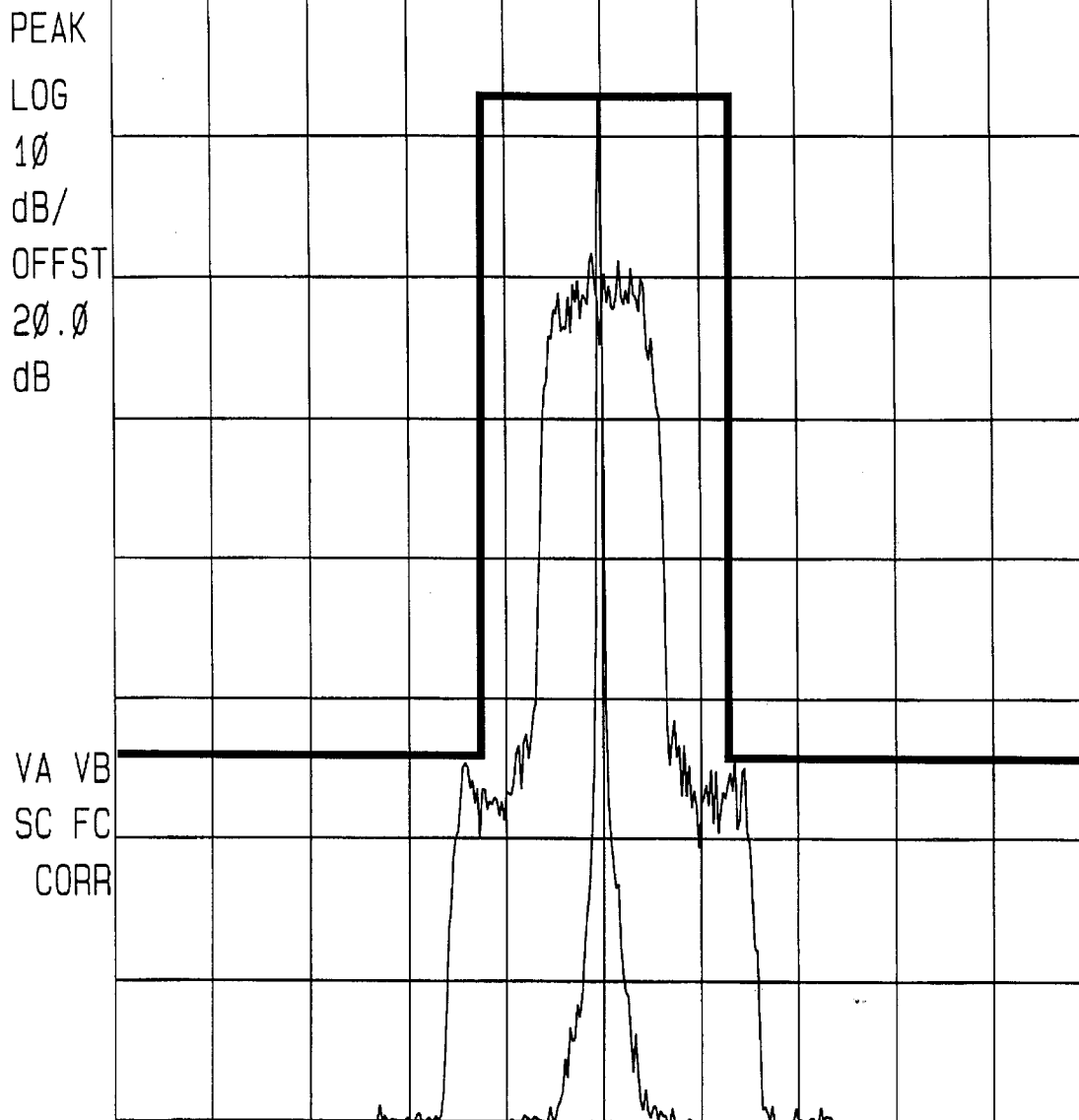


Retlif Testing Laboratories

Report No R-4132N

11:37:01 MAY 29, 2003

REF 30.0 dBm AT 20 dB



CENTER 1.9600000 GHz

SPAN 250.0 kHz

#RES BW 300 Hz

VBW 1 kHz

SWP 8.33 sec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 150PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Uplink Frequency 1880 MHz
Modulation: TDMA

Date: 5/29/03

Tech: T. Firkowski

Sheet 2 of 12



Retlif Testing Laboratories

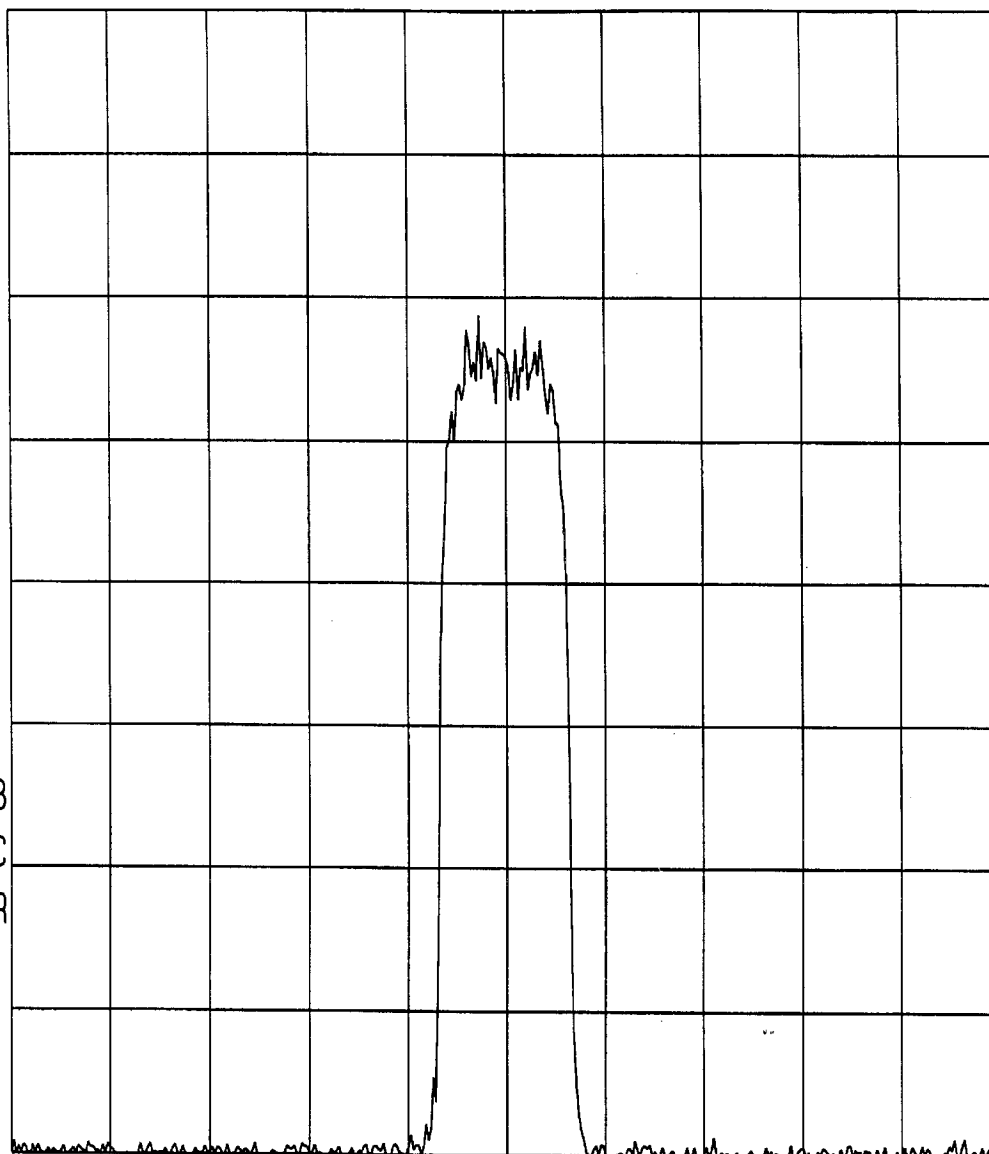
Report No R-4132N

11:38:50 MAY 29, 2003
hp

REF -20.0 dBm AT 10 dB

PEAK
LOG
10
dB/

VA SB
SC FC
CORR



CENTER 1.9600000 GHz

SPAN 250.0 kHz

#RES BW 300 Hz

VBW 1 kHz

SWP 8.33 sec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 150PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Downlink Frequency 1960 MHz
Modulation: TDMA

Date: 5/29/03

Tech: T. Firkowski

Sheet 3 of 12



Retlif Testing Laboratories

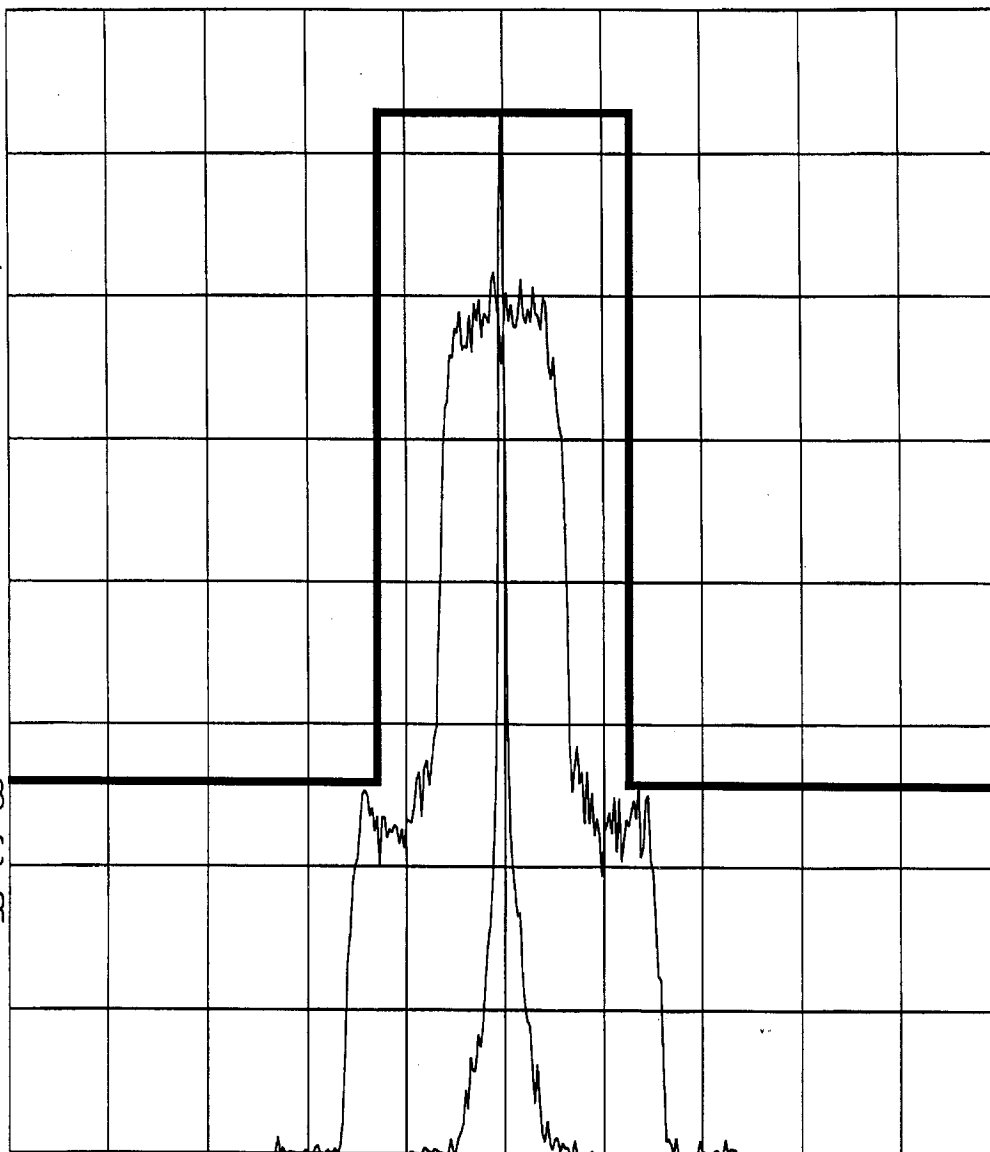
Report No R-4132N

11:37:01 MAY 29, 2003
hp

REF 30.0 dBm AT 20 dB

PEAK
LOG
10
dB/
OFFST
20.0
dB

VA VB
SC FC
CORR



CENTER 1.9600000 GHz

SPAN 250.0 kHz

#RES BW 300 Hz

VBW 1 kHz

SWP 8.33 sec

Customer:

Cellular Specialties, Inc.

Test Sample:

Bidirectional Amplifier

Model No:

150PCS

Test Method:

Occupied Bandwidth, FCC Part 2, para 2.1049

Notes:

Downlink Frequency 1960 MHz

Modulation: TDMA

Date: 5/29/03

Tech: T. Firkowski

Sheet 4 of 12



Retlif Testing Laboratories

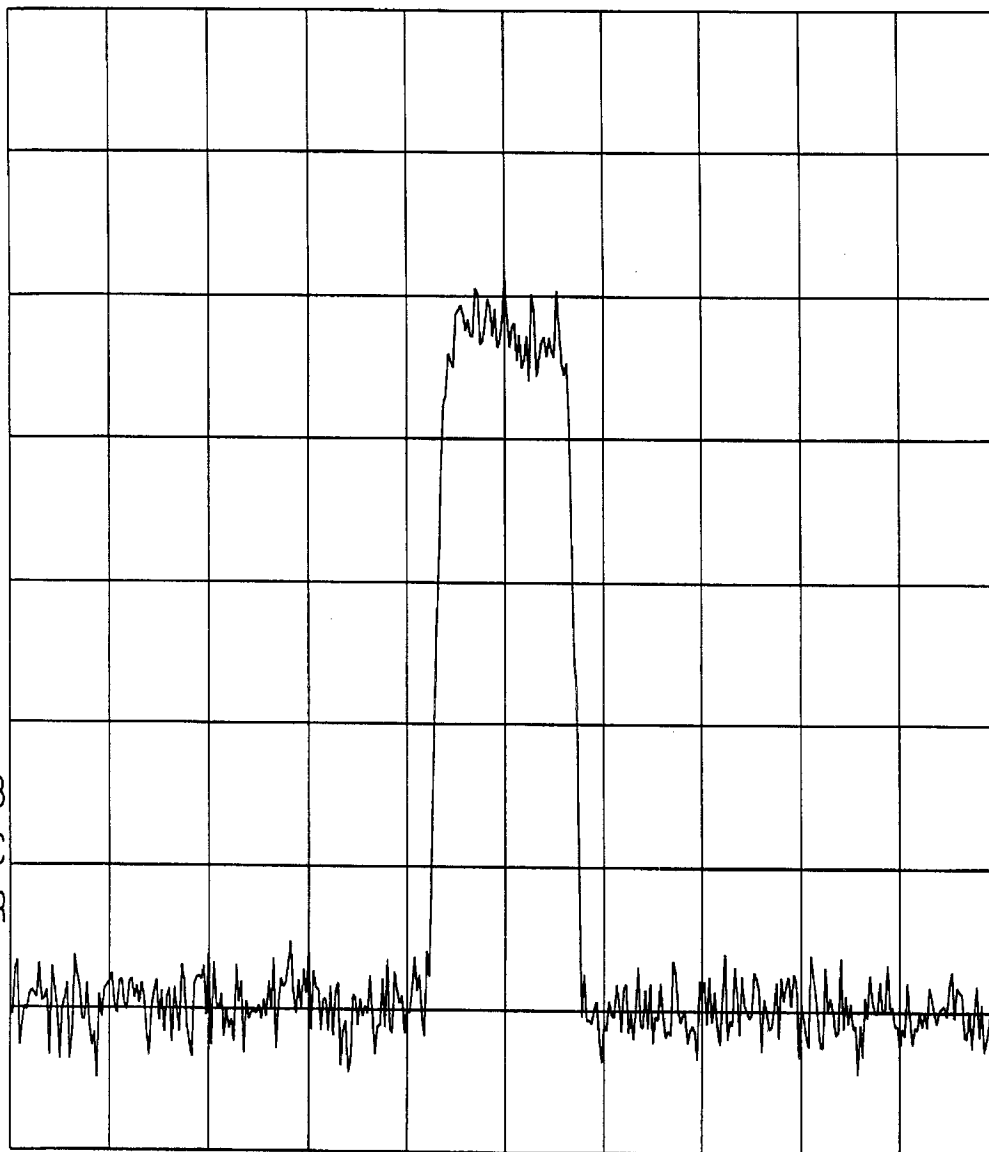
Report No R-4132N

11:12:53 MAY 29, 2003
HP

REF -20.0 dBm AT 10 dB

PEAK
LOG
10
dB/

VA SB
SC FC
CORR



CENTER 1.88000 GHz

#RES BW 30 kHz

VBW 100 kHz

SPAN 10.00 MHz

SWP 33.3 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 150PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Uplink Frequency 1880 MHz
Modulation: CDMA

Date: 5/29/03

Tech: T. Firkowski

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Retlif Testing Laboratories

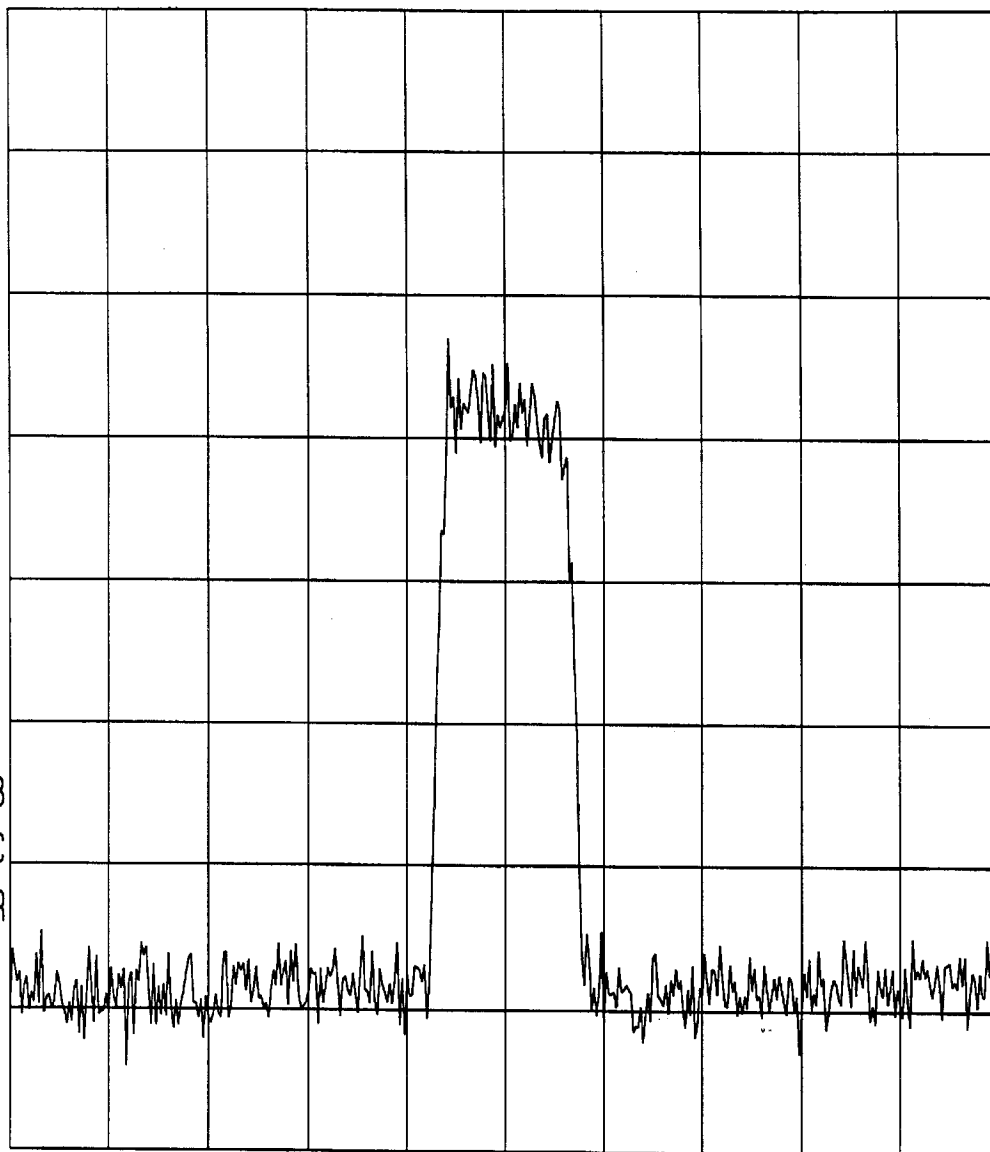
Report No R-4132N

11:05:44 MAY 29, 2003
hp

REF -20.0 dBm AT 10 dB

PEAK
LOG
10
dB/

VA SB
SC FC
CORR



CENTER 1.96000 GHz

#RES BW 30 kHz

VBW 1 MHz

SPAN 10.00 MHz

SWP 33.3 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 150PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Downlink Frequency 1960 MHz
Modulation: CDMA

Date: 5/29/03

Tech: T. Firkowski

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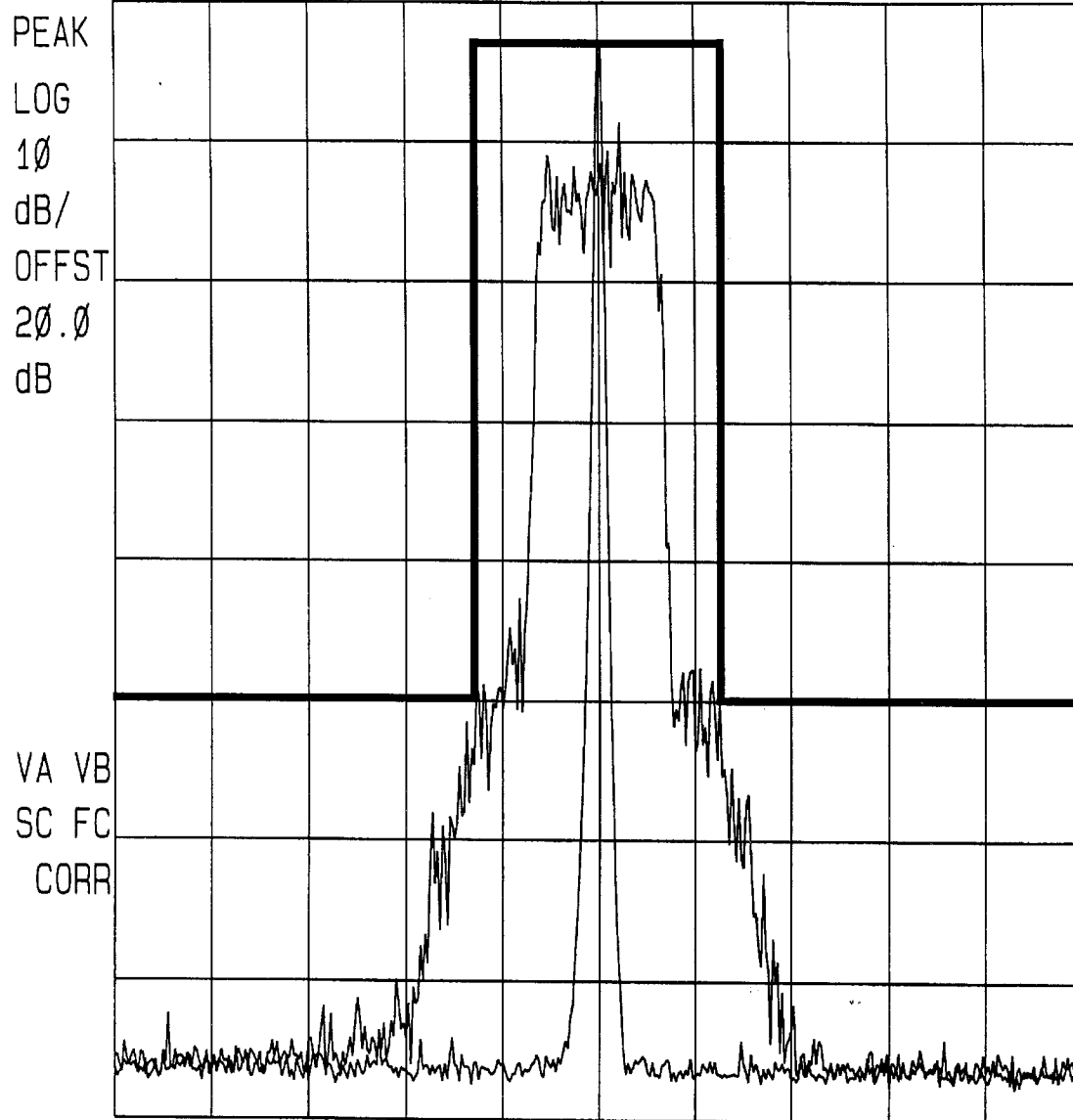


Retlif Testing Laboratories

Report No R-4132N

11:03:03 MAY 29, 2003
hp

REF 20.0 dBm AT 10 dB



CENTER 1.96000 GHz

#RES BW 30 kHz

VBW 1 MHz

SPAN 10.00 MHz

SWP 33.3 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 150PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Downlink Frequency 1960 MHz
Modulation: CDMA

Date: 5/29/03

Tech: T. Firkowski

Sheet 8 of 12



Retlif Testing Laboratories

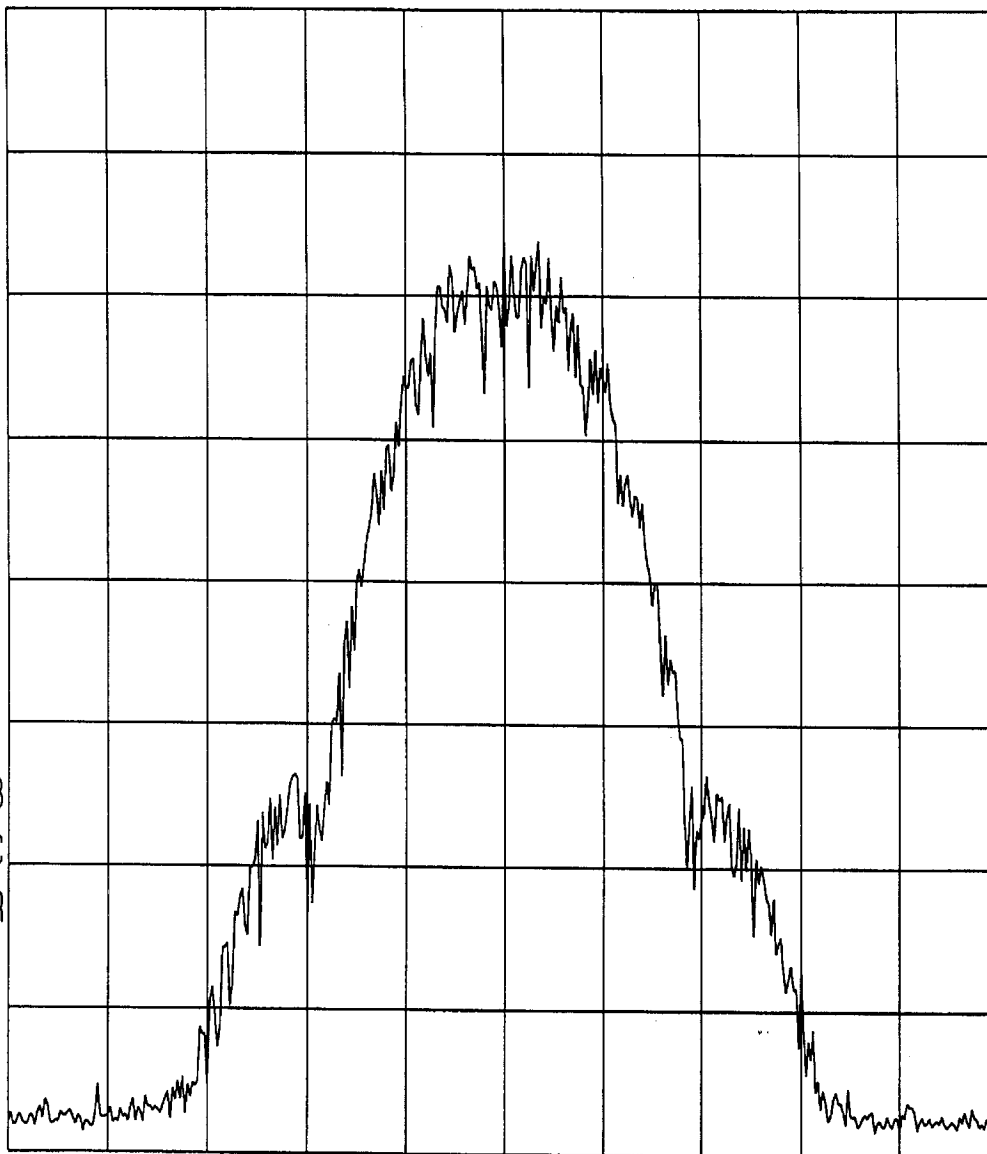
Report No R-4132N

11:23:31 MAY 29, 2003
hp

REF -20.0 dBm AT 10 dB

PEAK
LOG
10
dB/

VA SB
SC FC
CORR



CENTER 1.880000 GHz

#RES BW 3.0 kHz

VBW 10 kHz

SPAN 1.000 MHz

SWP 333 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 150PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Uplink Frequency 1880 MHz
Modulation: GSM

Date: 5/29/03

Tech: T. Firkowski

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Retlif Testing Laboratories

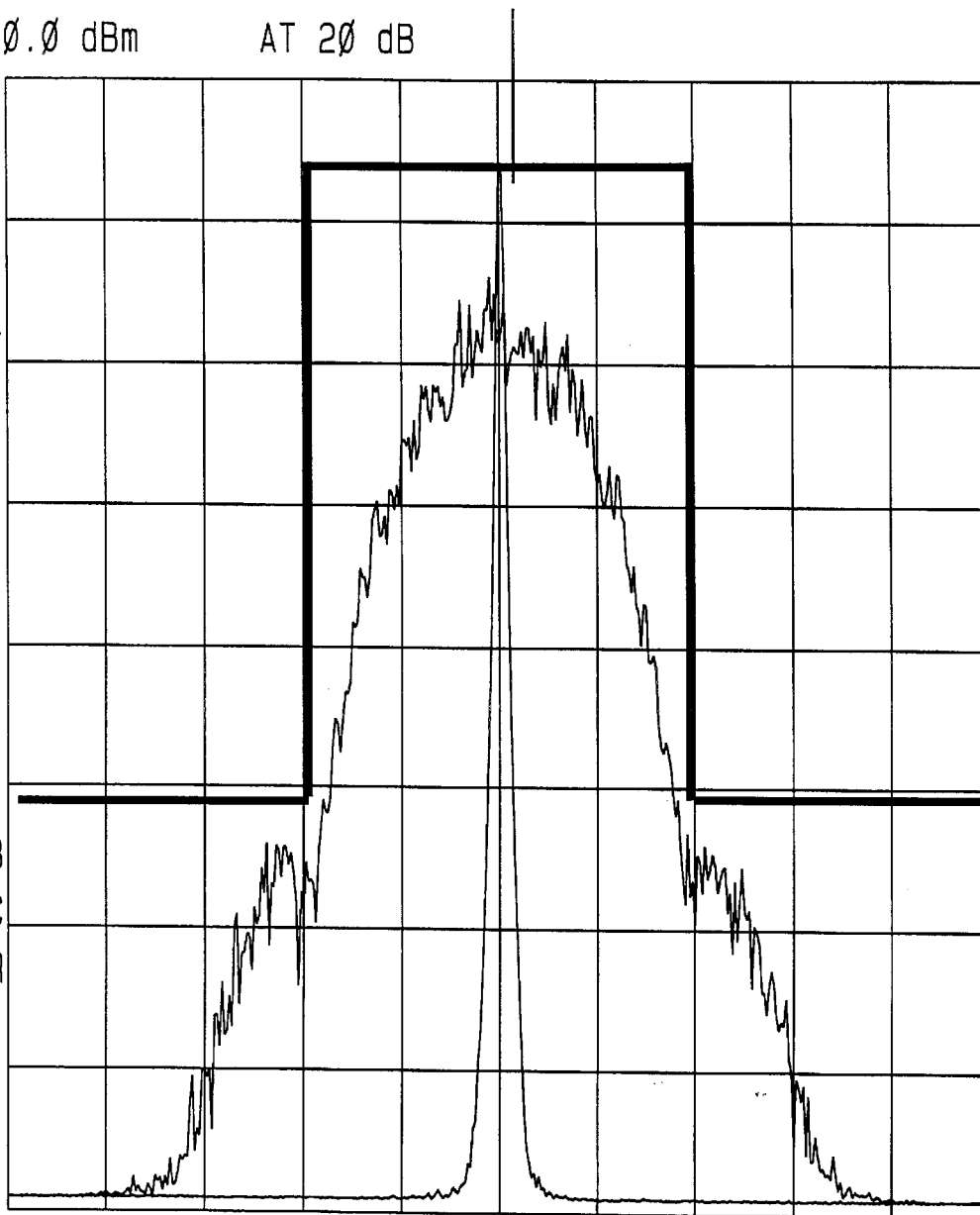
Report No R-4132N

11:22:08 MAY 29, 2003

REF 30.0 dBm AT 20 dB

PEAK
LOG
10
dB/
OFFST
20.0
dB

VA VB
SC FC
CORR



CENTER 1.880000 GHz

#RES BW 3.0 kHz

VBW 10 kHz

SPAN 1.000 MHz

SWP 333 msec

Customer:
Test Sample:
Model No:
Test Method:
Notes:

Cellular Specialties, Inc.
Bidirectional Amplifier
150PCS
Occupied Bandwidth, FCC Part 2, para 2.1049
Uplink Frequency 1880 MHz
Modulation: GSM

Date: 5/29/03

Tech: T. Firkowski

Sheet 10 of 12



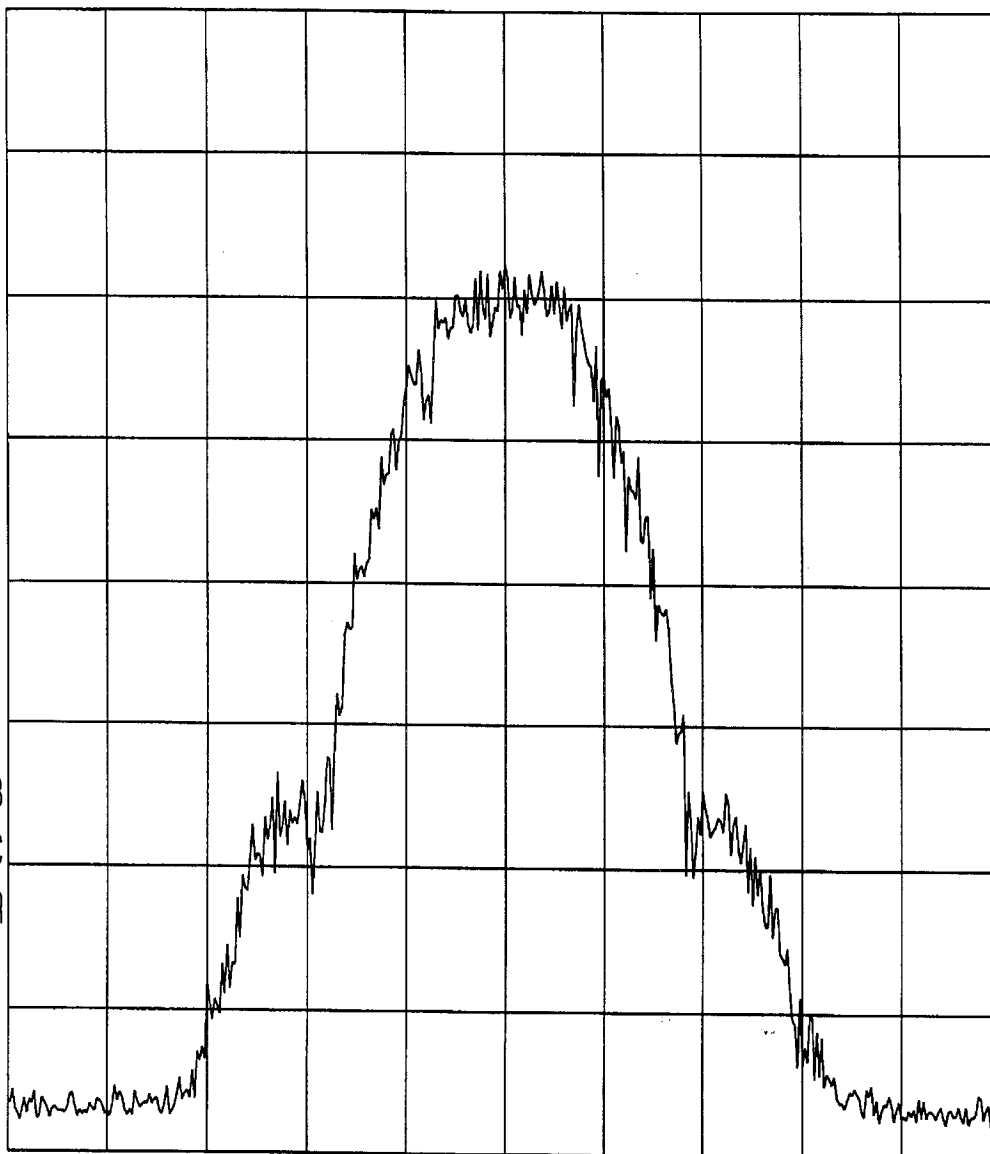
Retlif Testing Laboratories

Report No R-4132N

11:28:24 MAY 29, 2003
hp

REF -20.0 dBm AT 10 dB

PEAK
LOG
10
dB/



CENTER 1.960000 GHz

#RES BW 3.0 kHz

VBW 10 kHz

SPAN 1.000 MHz

SWP 333 msec

Customer: Cellular Specialties, Inc.
Test Sample: Bidirectional Amplifier
Model No: 150PCS
Test Method: Occupied Bandwidth, FCC Part 2, para 2.1049
Notes: Downlink Frequency 1960 MHz
Modulation: GSM

Date: 5/29/03

Tech: T. Firkowski

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Retlif Testing Laboratories

Report No R-4132N



AT 20 dB

LOG

10

dB/

OFFST

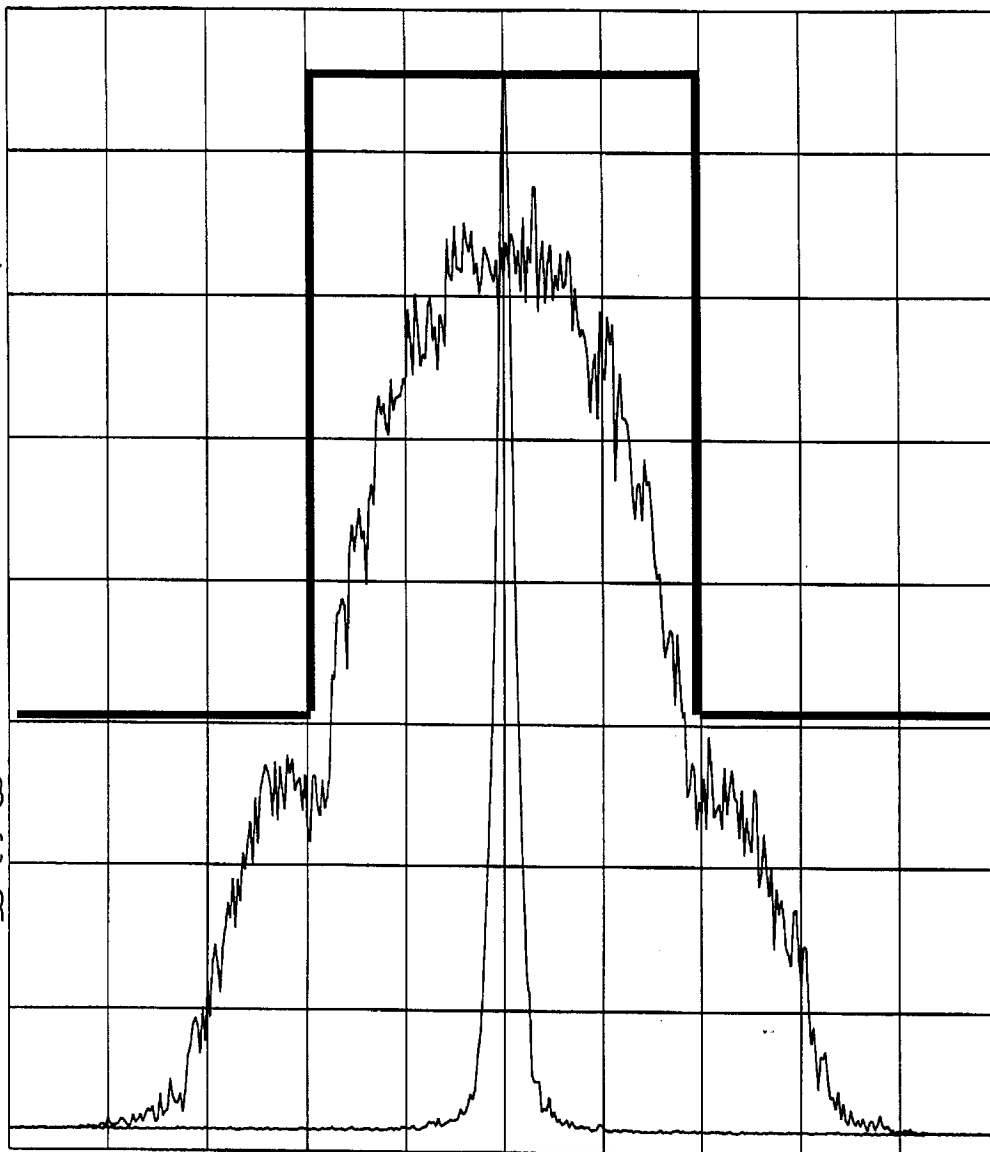
20.0

dB

VA VB

SC FC

CORR



CENTER 1.960000 GHz

```
#RES BW 3.0 kHz
```

VBW 10 kHz

SPAN 1.000 MHz

SWP 333 msec

Customer:

Test Sample:

Model No:

Test Method:

Notes:

Cellular Specialties, Inc.

Bidirectional Amplifier

150PCS

Occupied Bandwidth, FCC Part 2, para 2.1049

Downlink Frequency 1960 MHz

Modulation: GSM

Date: 5/29/03

Tech: T. Firkowski

Sheet 12 of 12



Retlif Testing Laboratories

Report No R-4132N