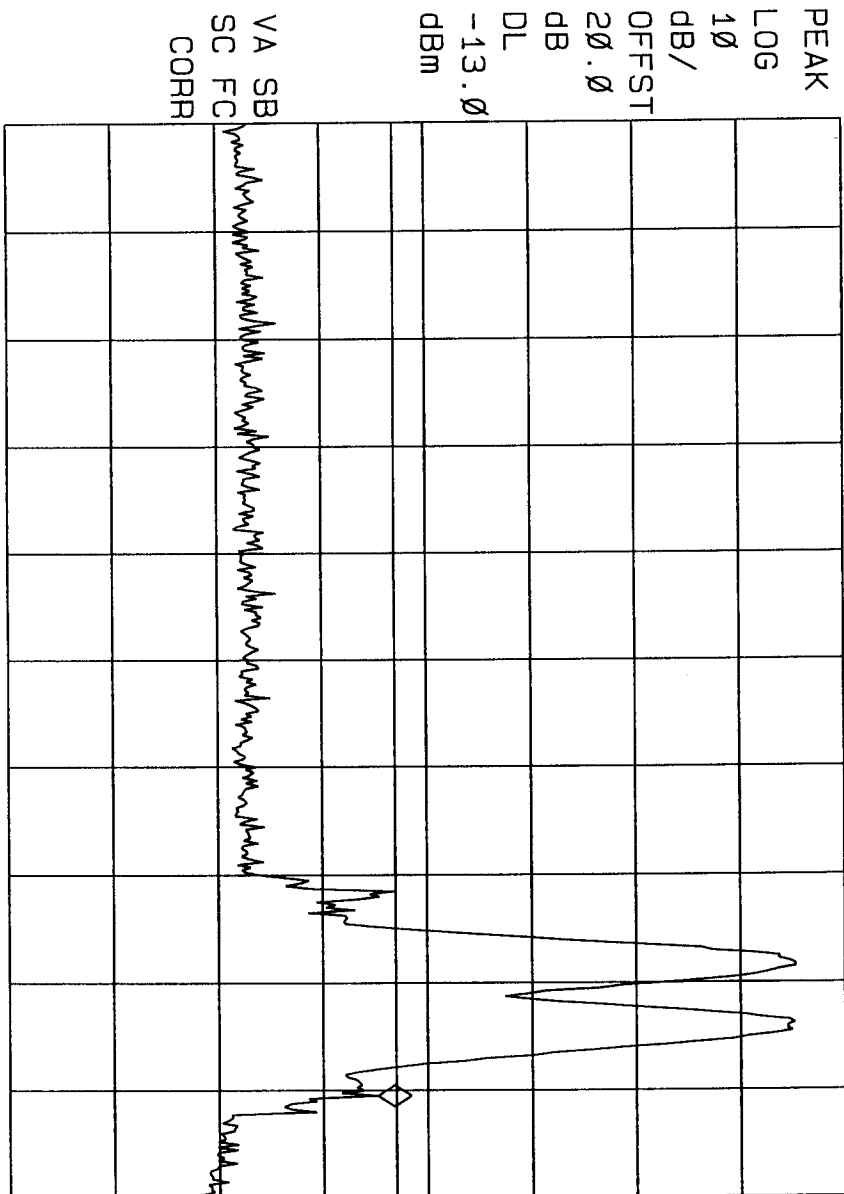


R-4023N Customer: Cellular Specialties, Inc Test Sample: Bidirectional Amplifier Model:610PCS
 Test: Two Tone CDMA downlink high end of band

14:51:50 DEC 13, 2002

REF 30.0 dBm AT 20 dB MKR 1.99335 GHz -14.77 dBm

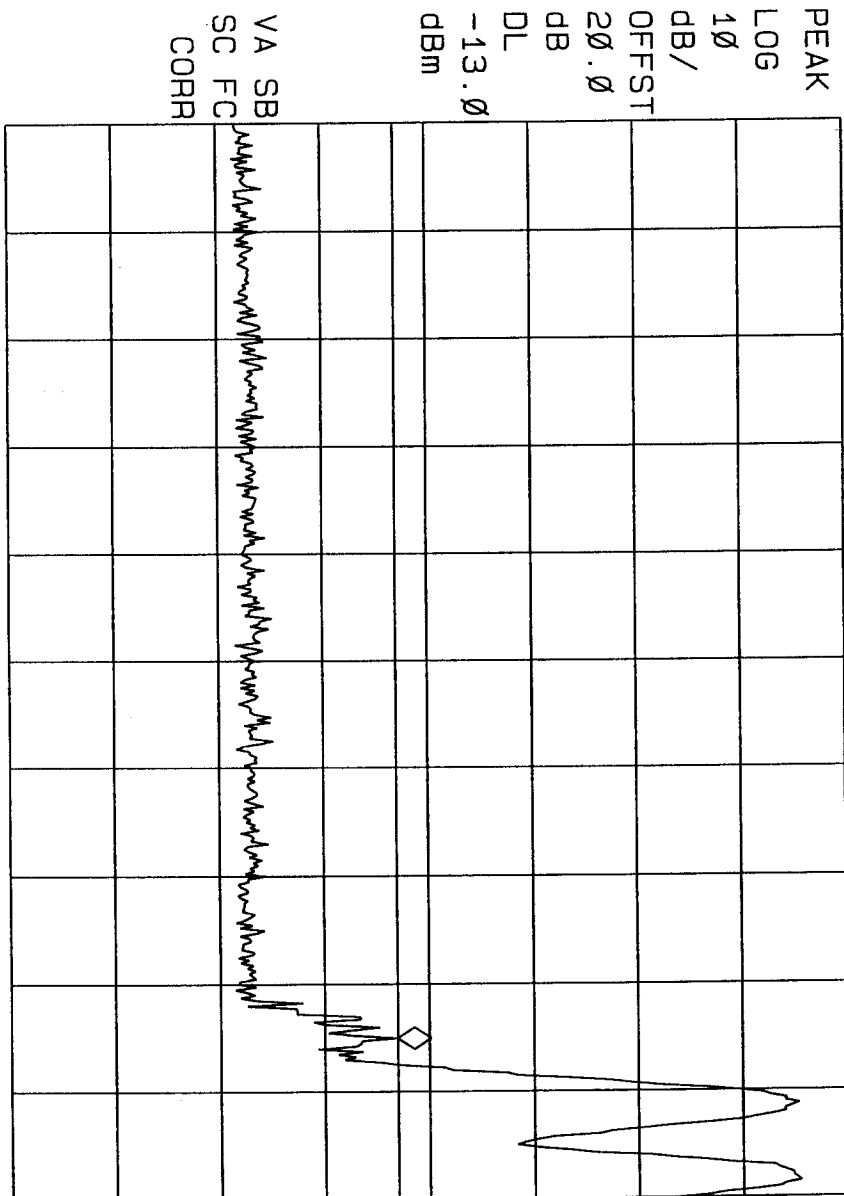


START 1.93000 GHz STOP 2.00000 GHz
 #RES BW 1.0 MHz VBW 3 MHz SWP 20.0 msec

14:52:38 DEC 13, 2002

REF 30.0 dBm AT 20 dB

MKR 1.98100 GHz
 -13.04 dBm



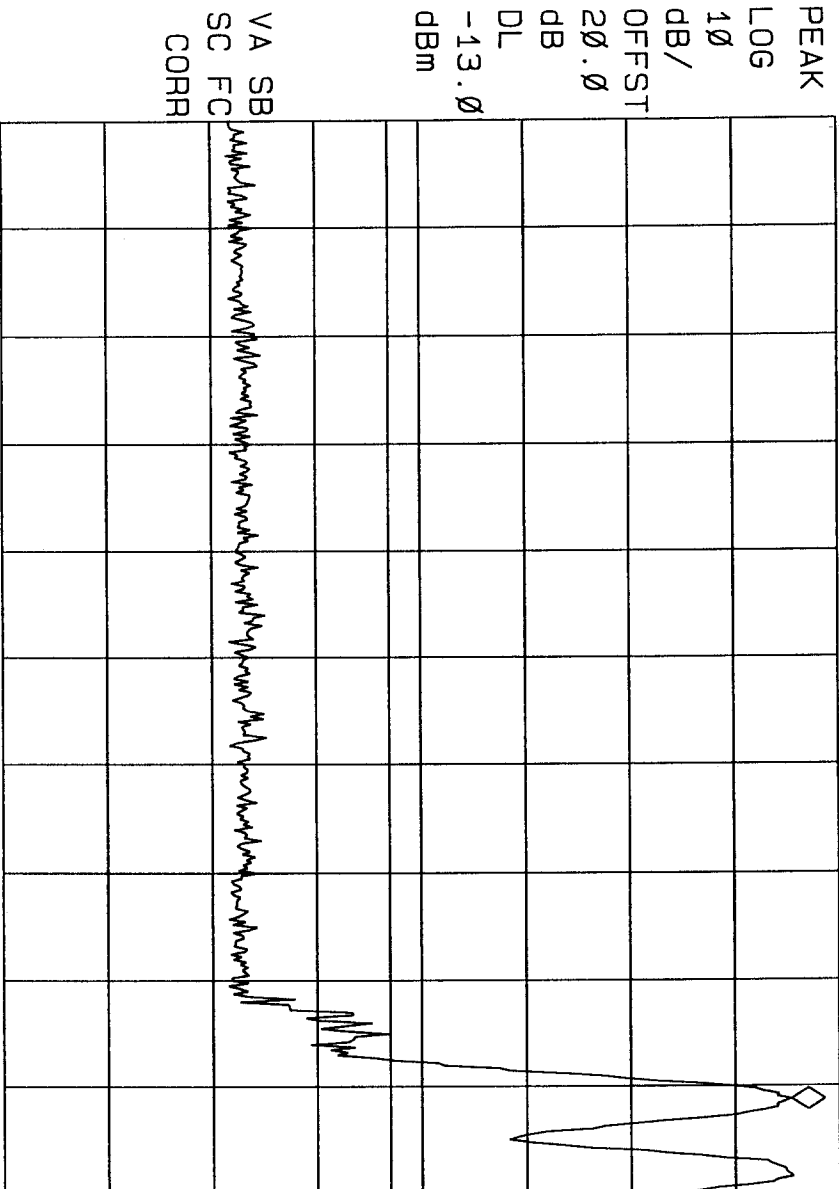
VA SB
 SC FC
 CORR

START 1.93000 GHz STOP 1.99000 GHz
 #RES BW 1.0 MHz VBW 3 MHz SWP 20.0 msec

14:52:43 DEC 13, 2002

REF 30.0 dBm AT 20 dB

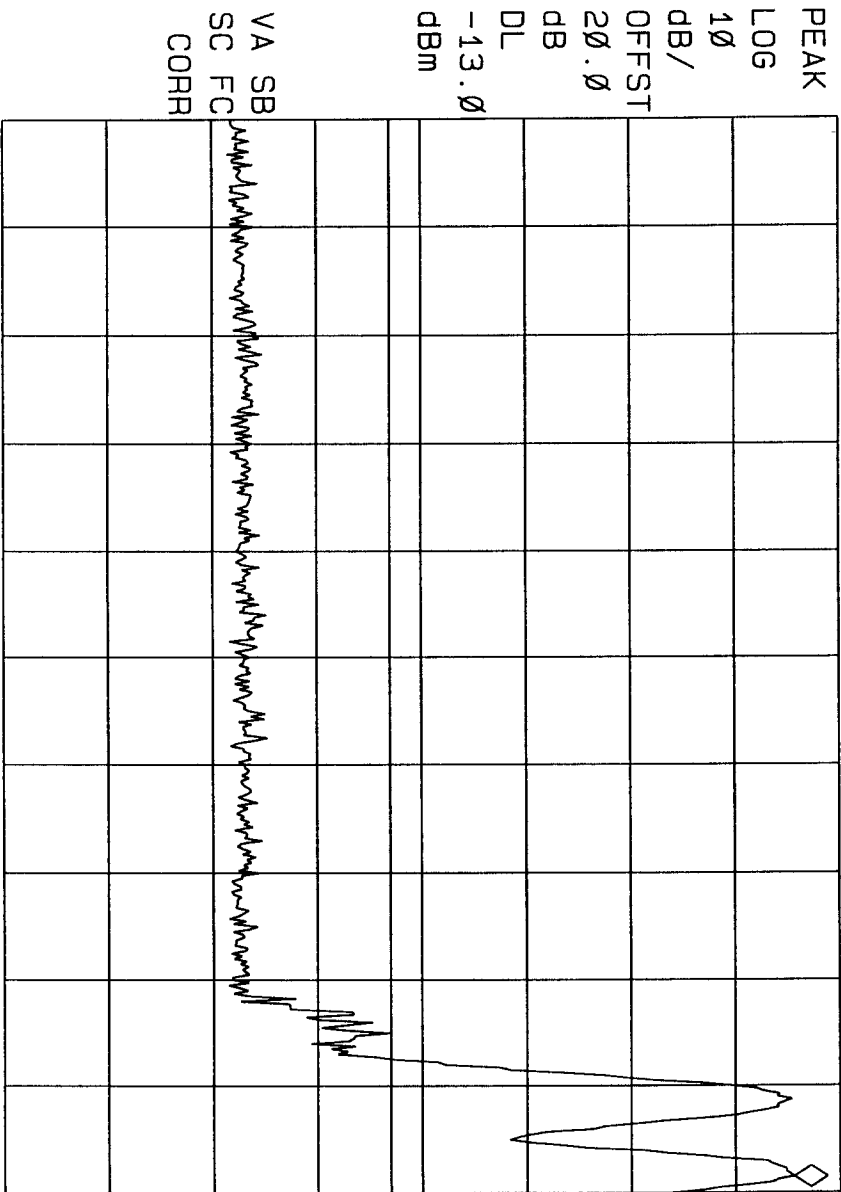
MKR 1.98475 GHz
 25.38 dBm



START 1.93000 GHz STOP 1.99000 GHz
 #RES BW 1.0 MHz VBW 3 MHz SWP 20.0 msec

14:52:43 DEC 13, 2002

REF 30.0 dBm AT 20 dB MKR 1.98910 GHz 25.57 dBm



START 1.93000 GHz STOP 1.99000 GHz
 #RES BW 1.0 MHz VBW 3 MHz SWP 20.0 msec

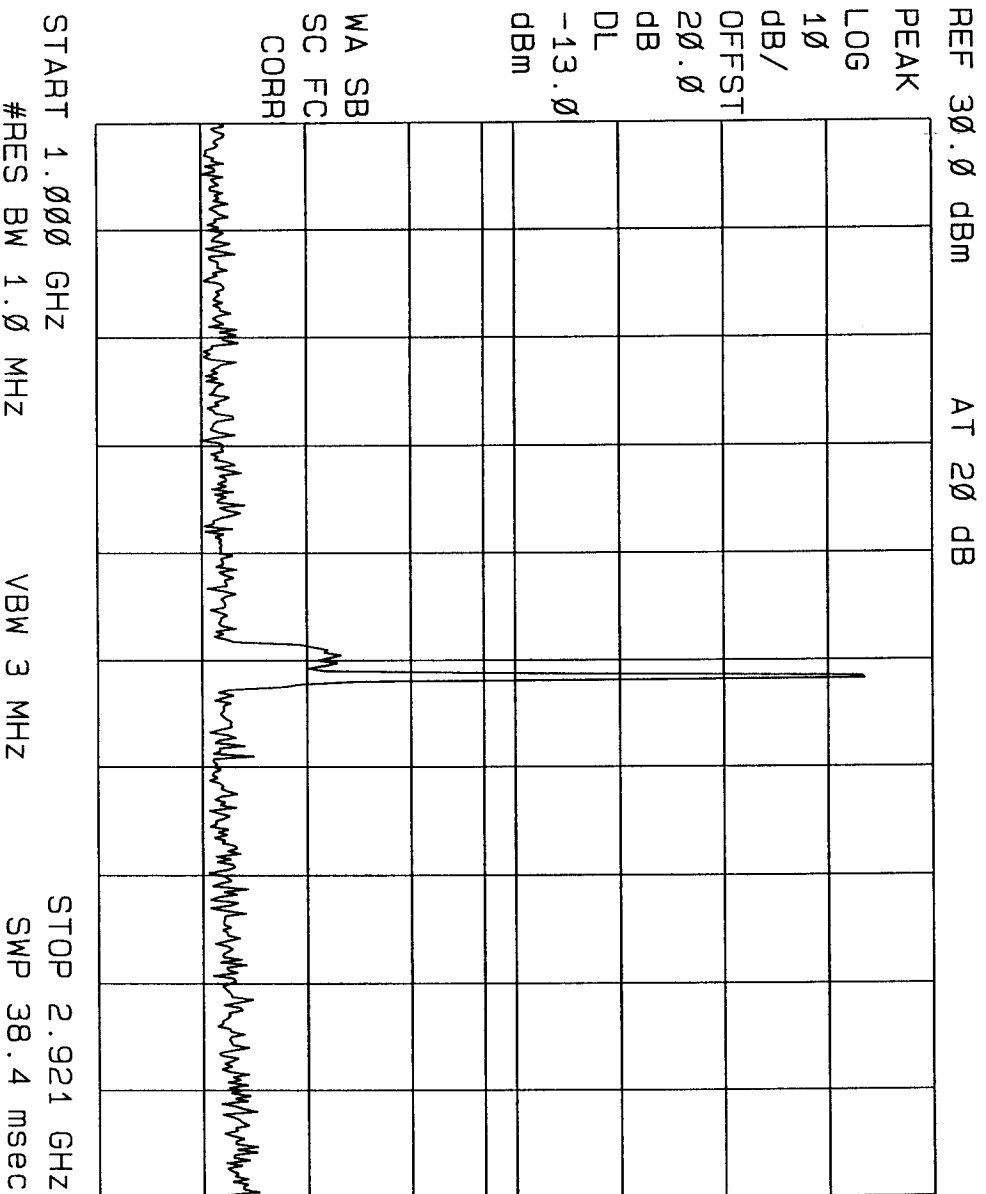
14:53:27 DEC 13, 2002
 HP

REF 30.0 dBm AT 20 dB

PEAK									
LOG									
10									
dB/									
OFFST									
20.0									
dB									
DL									
-13.0									
dBm									
WA SB									
SC FC									
CORR									

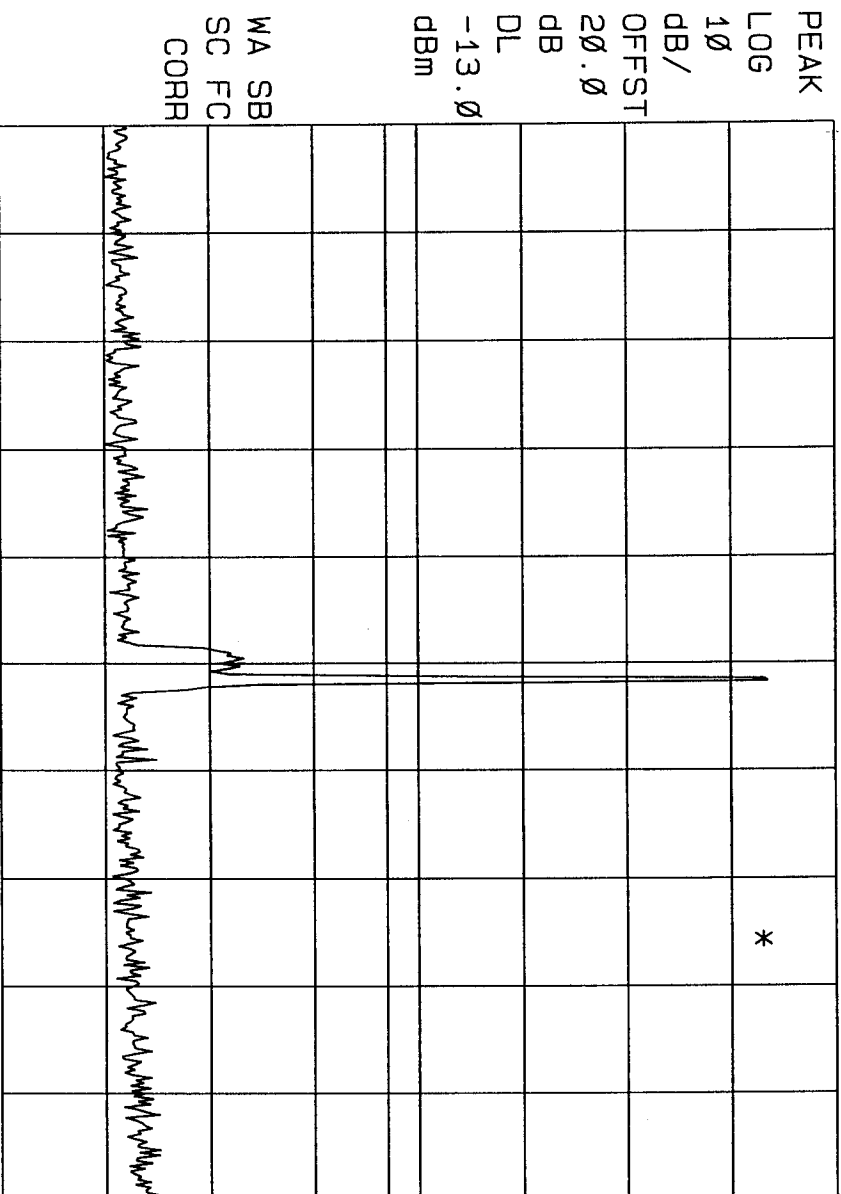
START 30.0 MHz STOP 1.0000 GHz
 #RES BW 1.0 MHz VBW 3 MHz SWP 20.0 msec

14:53:37 DEC 13, 2002



14:53:37 DEC 13, 2002
 14

REF 30.0 dBm AT 20 dB



START 2.679 GHz STOP 4.000 GHz
 #RES BW 1.0 MHz VBW 3 MHz SWP 26.4 msec

Test: Two Tone CDMA downlink high end of band

14:54:48 DEC 13, 2002
14

REF 30.0 dBm AT 20 dB

PEAK									
LOG									
10									
dB/									
OFFST									
20.0									
dB									
DL									
-13.0									
dBm									
WA SB									
SC FC									
CORR									

START 4.000 GHz STOP 6.000 GHz
#RES BW 1.0 MHz VBW 3 MHz SWP 40.0 msec

R-4023N

Customer: Cellular Specialties, Inc

Test Sample: Bidirectional Amplifier

Model:610PCS

Test: Two Tone CDMA downlink high end of band

14:55:05 DEC 13, 2002
HP

REF 30.0 dBm

AT 20 dB

PEAK

LOG

10

dB/

OFFST

20.0

dB

DL

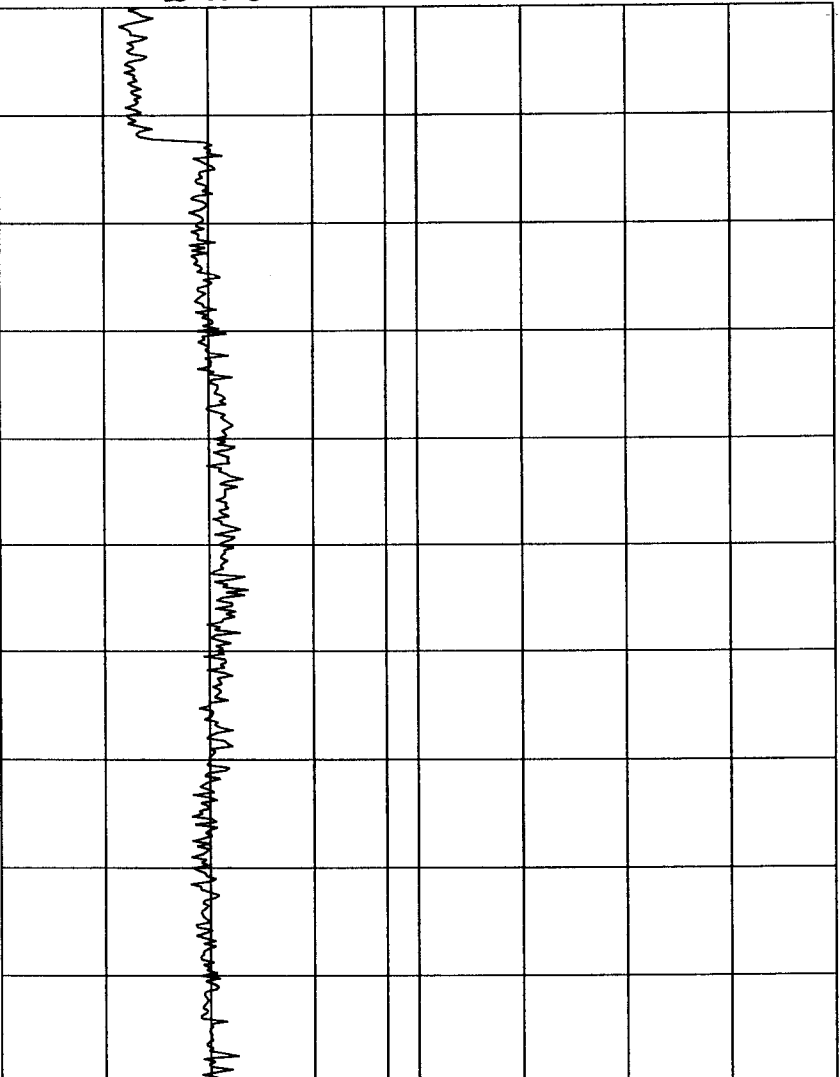
-13.0

dBm

WA SB

SC FC

CORR



START 6.000 GHz STOP 10.000 GHz
#RES BW 1.0 MHz VBW 3 MHz SWP 90.0 msec

R-4023N

Customer: Cellular Specialties, Inc Test Sample: Bidirectional Amplifier

Model:610PCS

Test: Two Tone CDMA downlink high end of band

14:55:28 DEC 13, 2002
H/D

REF 30.0 dBm AT 20 dB

PEAK

LOG

10

dB/

OFFST

20.0

dB

DL

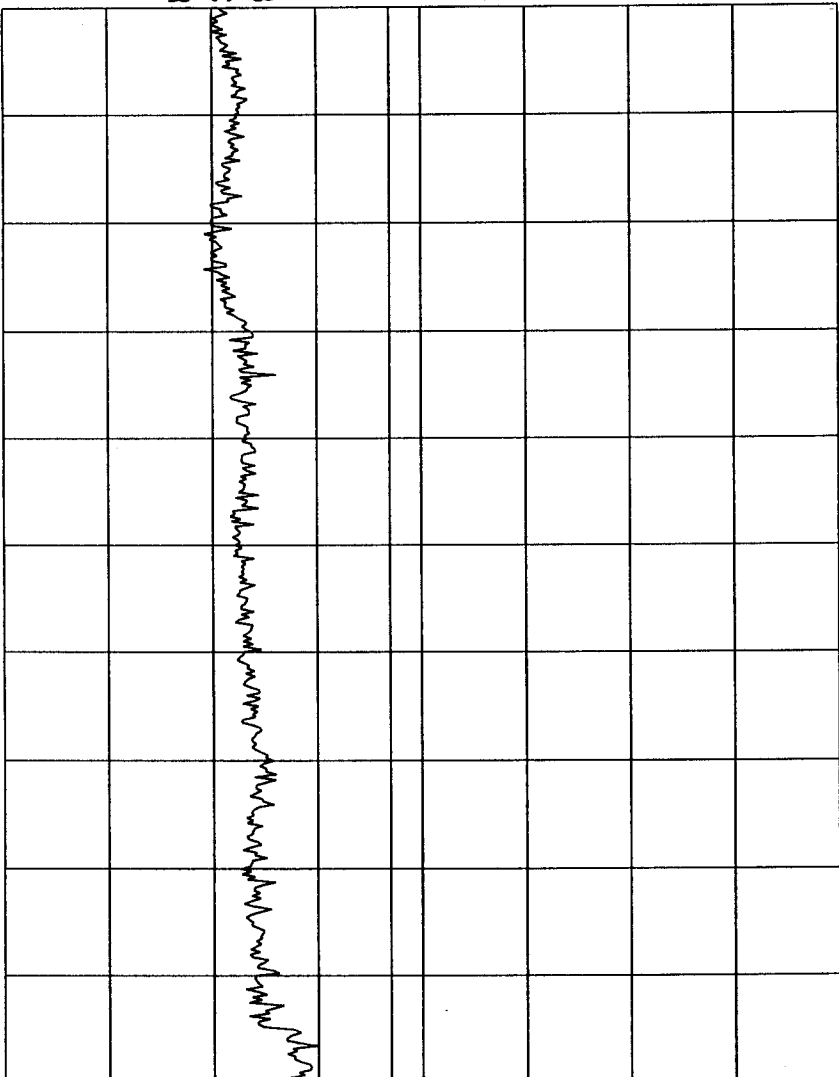
-13.0

dBm

WA SB

SC FC

CORR



START 10.00 GHz

#RES BW 1.0 MHz

VBW 3 MHz

STOP 20.00 GHz

SWP 210 msec