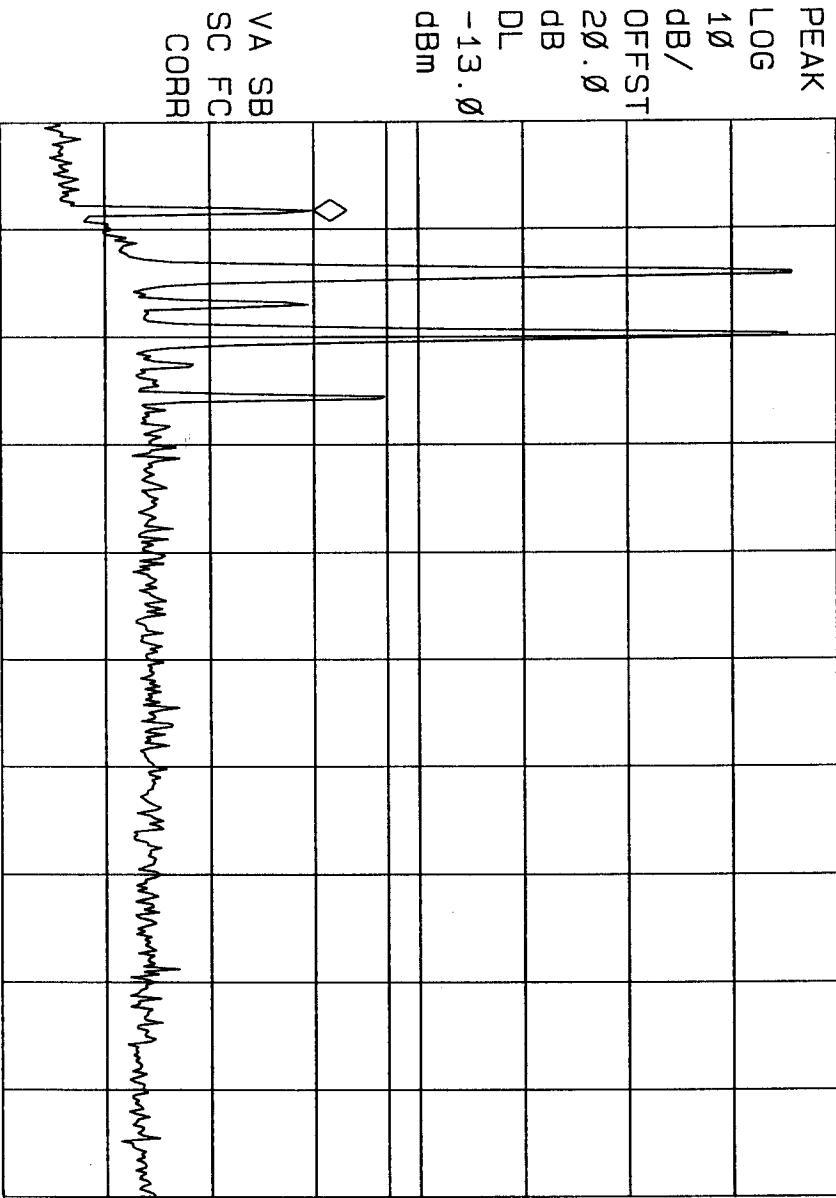


13:13:23 DEC 13, 2002

REF 30.0 dBm AT 20 dB

MKR 1.92578 GHz
 -20.03 dBm



START 1.92000 GHz STOP 1.99000 GHz
 #RES BW 100 KHZ VBW 300 KHZ SWP 21.0 msec

R-4023N

Customer: Cellular Specialties, Inc

Test Sample: Bidirectional Amplifier

Model:610PCS

Test: Two Tone TDMA downlink low end of band

13:14:24 DEC 13, 2002

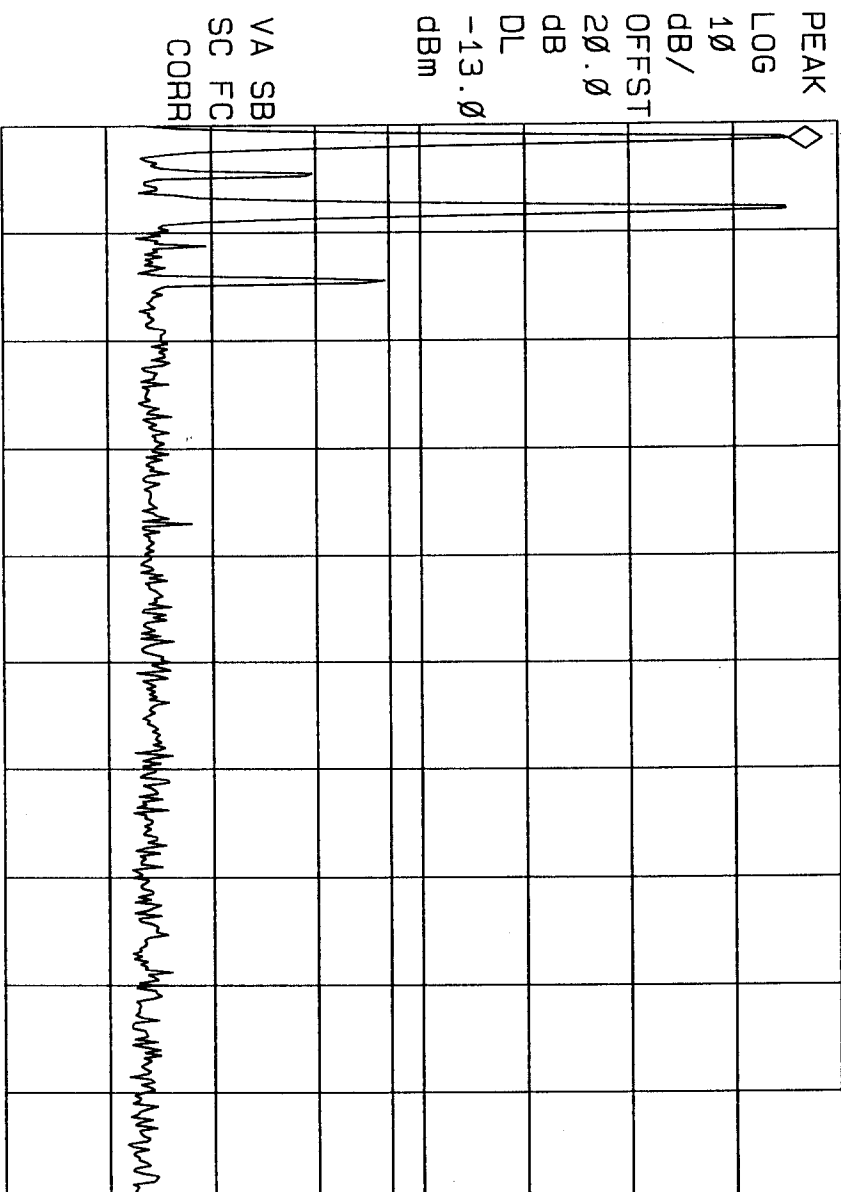
HP

MKR 1.92992 GHz

REF 30.0 dBm

AT 20 dB

25.29 dBm



START 1.92900 GHz

#RES BW 100 KHz

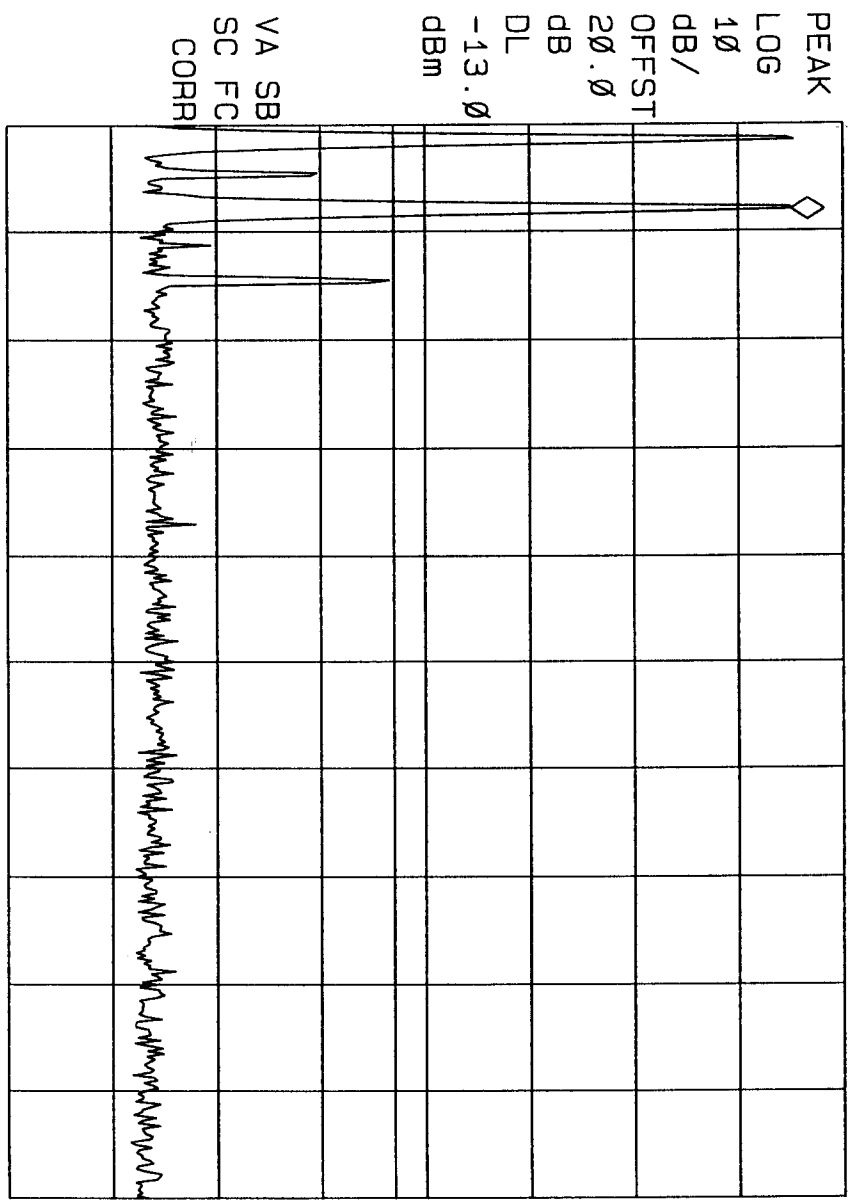
VBW 300 KHz

STOP 1.99000 GHz

SWP 20.0 msec

13: 14: 31 DEC 13, 2002

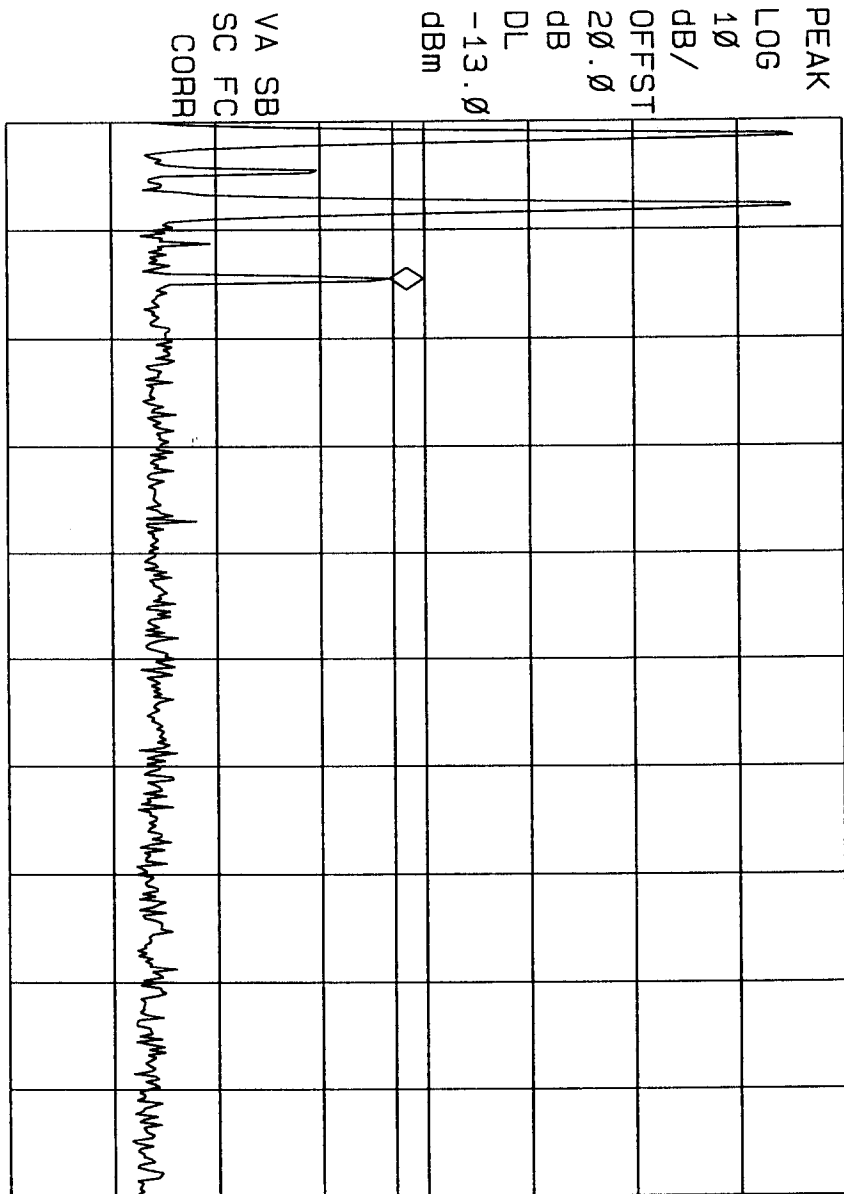
REF 30.0 dBm AT 20 dB MKR 1.93388 GHz 25.02 dBm



START 1.92900 GHz STOP 1.99000 GHz
 #RES BW 100 KHz VBW 300 KHz SWP 20.0 msec

13: 14: 49 DEC 13, 2002

REF 30.0 dBm AT 20 dB MKR 1.93785 GHz -13.33 dBm



START 1.92900 GHz STOP 1.99000 GHz
 #RES BW 100 KHZ VBW 300 KHZ SWP 20.0 msec

VA SB
 SC FC
 CORR

dB
 DL
 -13.0
 dBm

OFFST
 20.0

dB/

LOG

10

PEAK

Test: Two Tone TDMA downlink low end of band

170

REF 30.0 dBm

AT 20 dB

PEAK

LOG

10

BB/

OFFST

20.0

BB

DL

-13.0

dBm

WA SB

SCFC

CONFIDENTIAL

#RES BW 100 KHZ

VBW 300 KHZ

SWP 291 msec

[illegible]

R-4023N

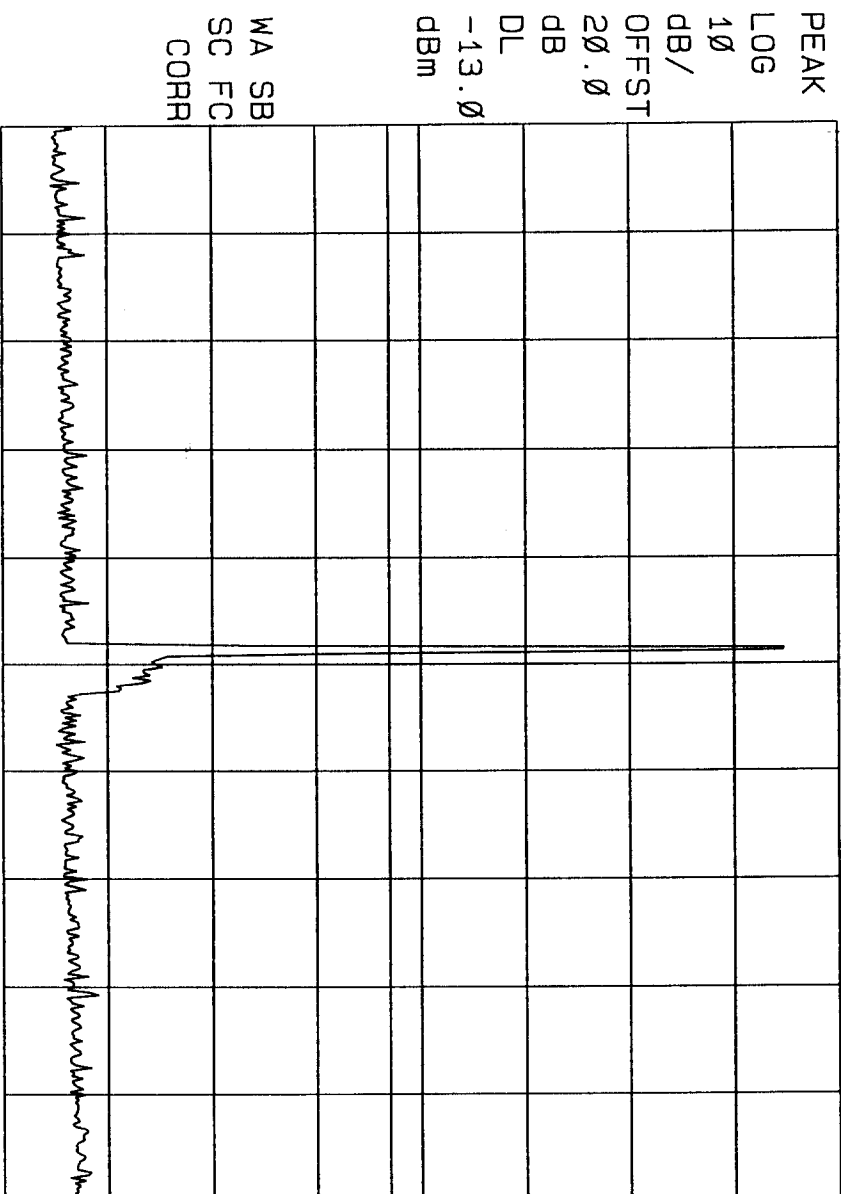
Customer: Cellular Specialties, Inc Test Sample: Bidirectional Amplifier

Model:610PCS

Test: Two Tone TDMA downlink low end of band

13:15:44 DEC 13, 2002
17

REF 30.0 dBm AT 20 dB



START 1.000 GHz STOP 2.921 GHz
#RES BW 100 KHZ VBW 300 KHZ SWP 576 msec

Model:610PCS

13: 15: 55 DEC 13, 2002
hp

AT 20 dB

PEAK

LOG

10

dB/

OFFST

20.0

B2

DL

-13.0

dBm

WA SB
SC FC
CORR

```
START 2.679 GHZ
#RES BW 100 KHZ
```

VBW 300 KHZ

STOP 4.000 GHz
SWP 396 msec

Test: Two Tone TDMA downlink low end of band

13: 16: 32 DEC 13, 2002

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 100 KHZ VBW 300 KHZ SWP 600 msec

13:16:47 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 100 KHZ VBW 300 KHZ SWP 1.20 sec

13:17:11 DEC 13, 2002
 77

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 STOP 20.00 GHz
 #RES BW 100 KHZ VBW 300 KHZ SWP 3.00 sec