

~~/~~ FCC ID: PJ2CDM810 FM MODE

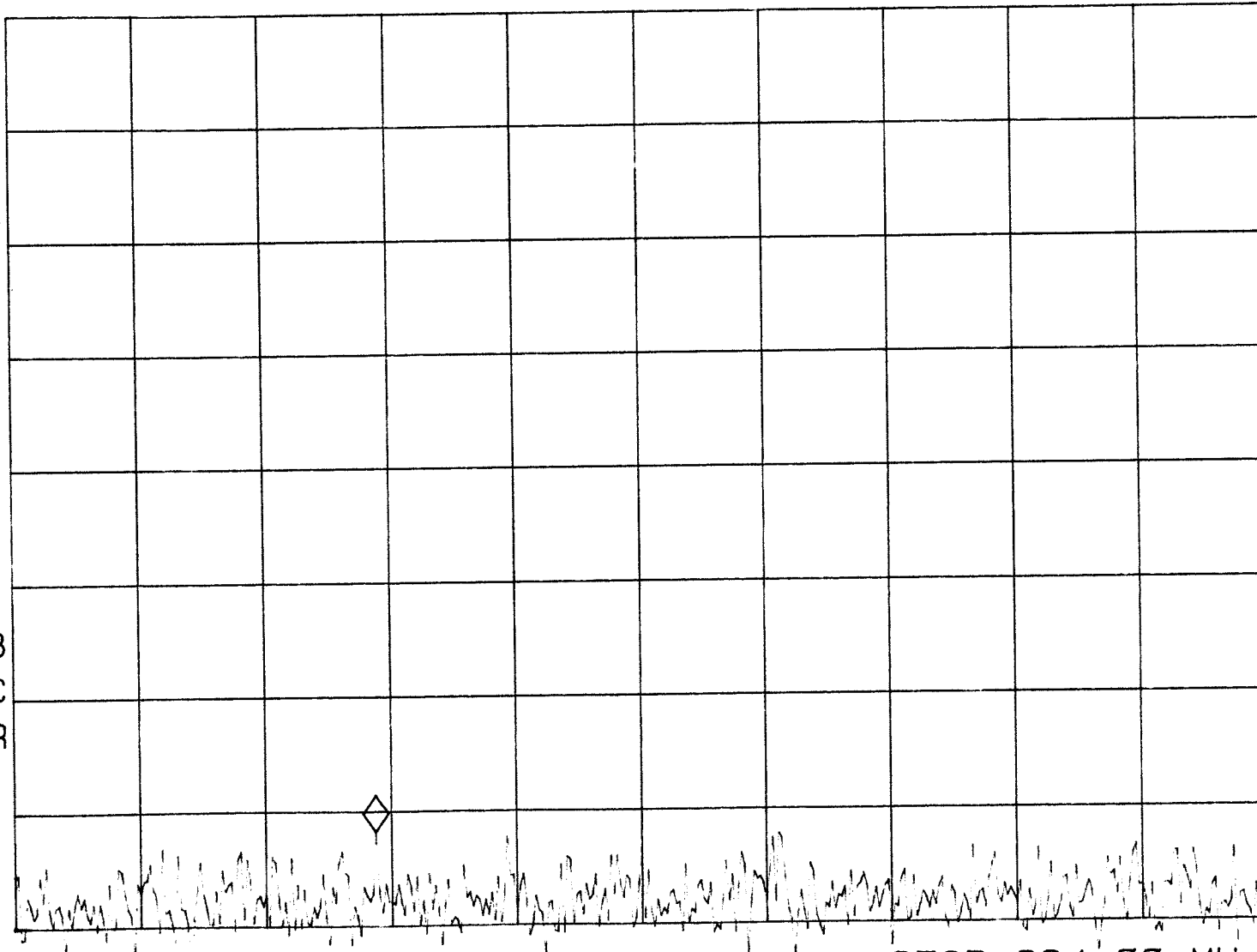
MKR 876.19 MHz

REF -60.0 dBm ATTEN 10 dB PG 25.0 dB

-95.88 dBm

PEAK
LOG
5
dB/
OFFST
6.0
dB

VA SB
SC FC
CORR



START 869.00 MHz

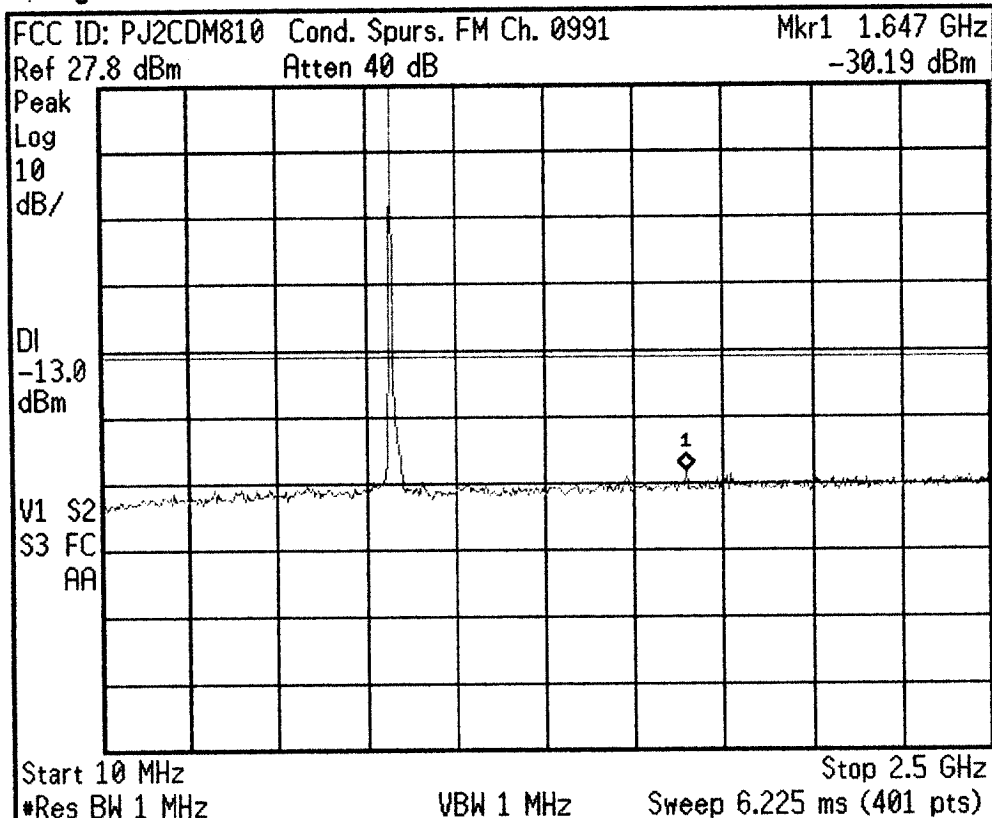
STOP 894.00 MHz

#RES BW 100 kHz

#VBW 300 kHz

#SWP 90 msec

* Agilent 08:54:09 Mar 21, 2001



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

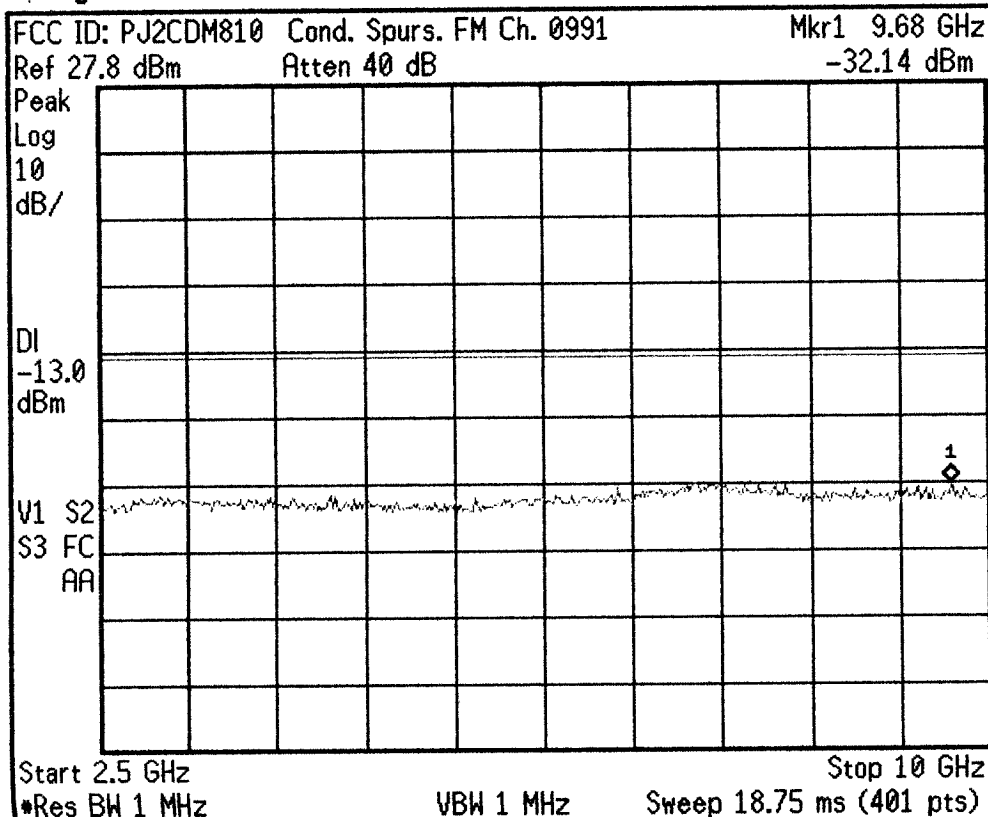
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 08:55:52 Mar 21, 2001



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

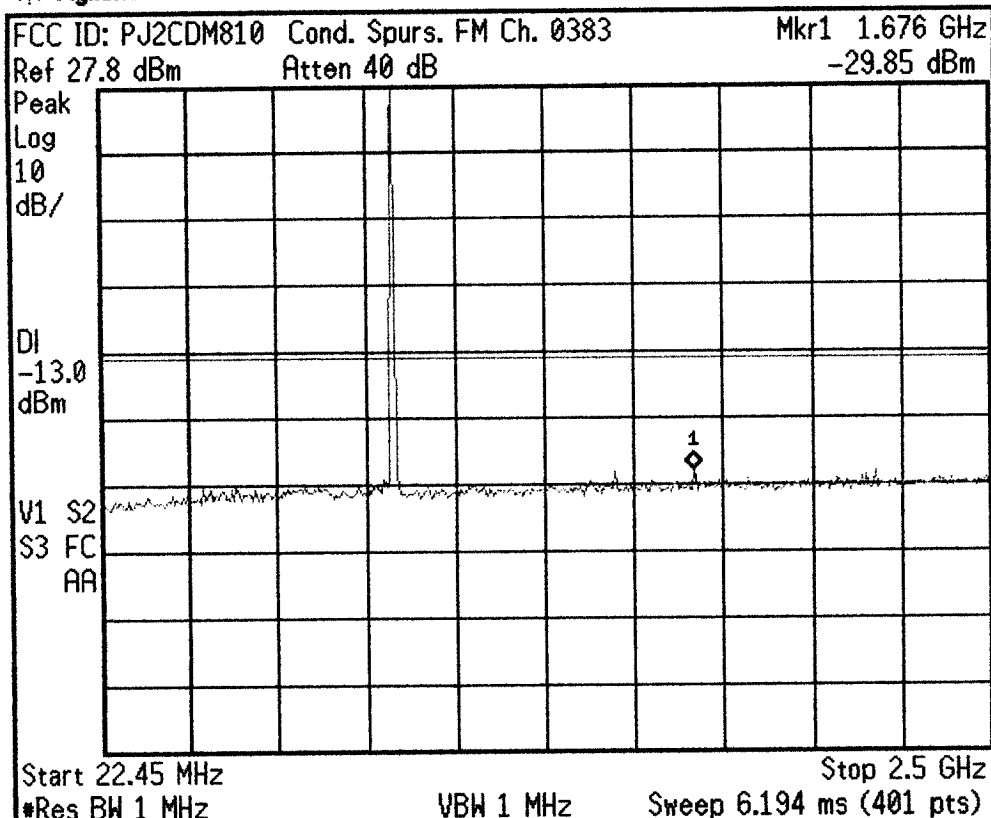
Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 08:57:40 Mar 21, 2001



Freq/Channel

Center Freq
 1.26122500 GHz

Start Freq
 22.4500000 MHz

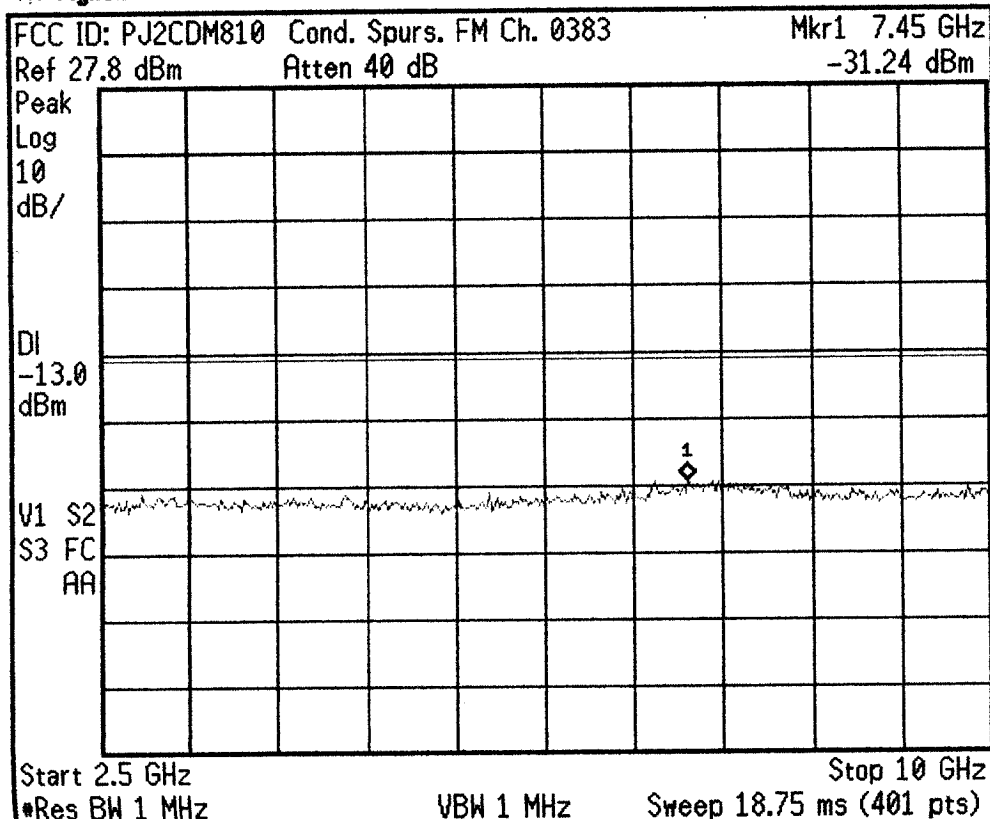
Stop Freq
 2.50000000 GHz

CF Step
 247.755000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 08:58:23 Mar 21, 2001



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

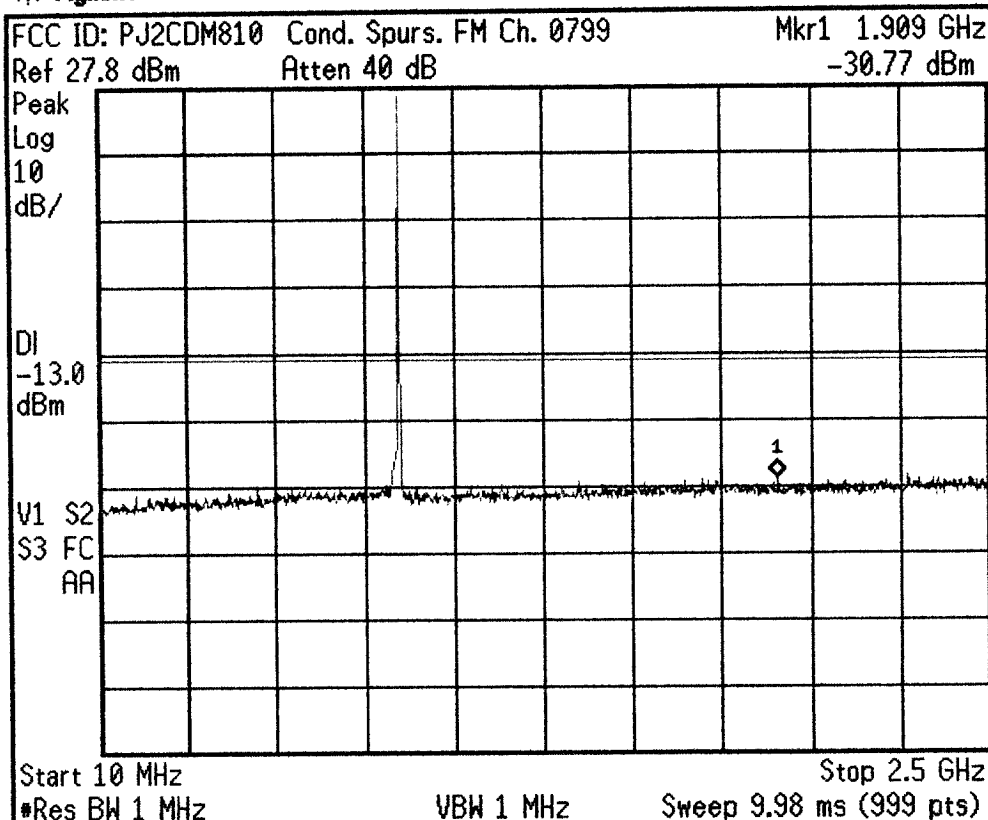
Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 09:06:55 Mar 21, 2001



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

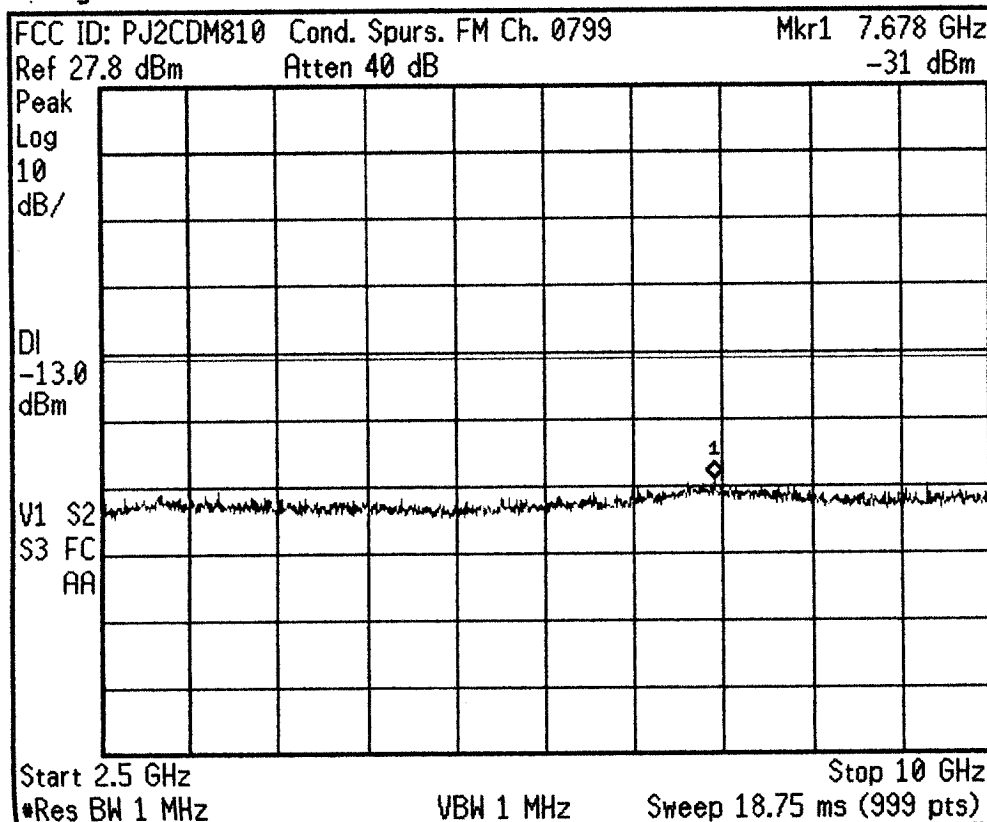
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 09:07:47 Mar 21, 2001



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 11:57:24 Mar 21, 2001

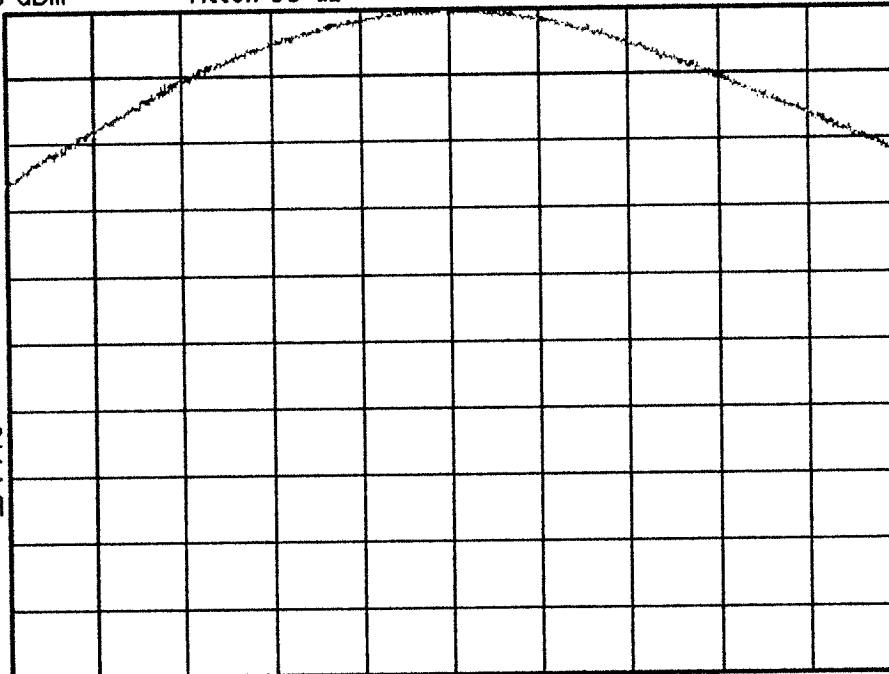
FCC ID: PJ2CDM810 CDMA 800 PWR OUT C-0777

Ref 25 dBm

Atten 35 dB

Peak
Log
10
dB/

V1 S2
S3 FC
AA



Center 848.3 MHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq
848.310000 MHz

Start Freq
843.310000 MHz

Stop Freq
853.310000 MHz

CF Step
849.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

* Agilent 12:00:27 Mar 21, 2001

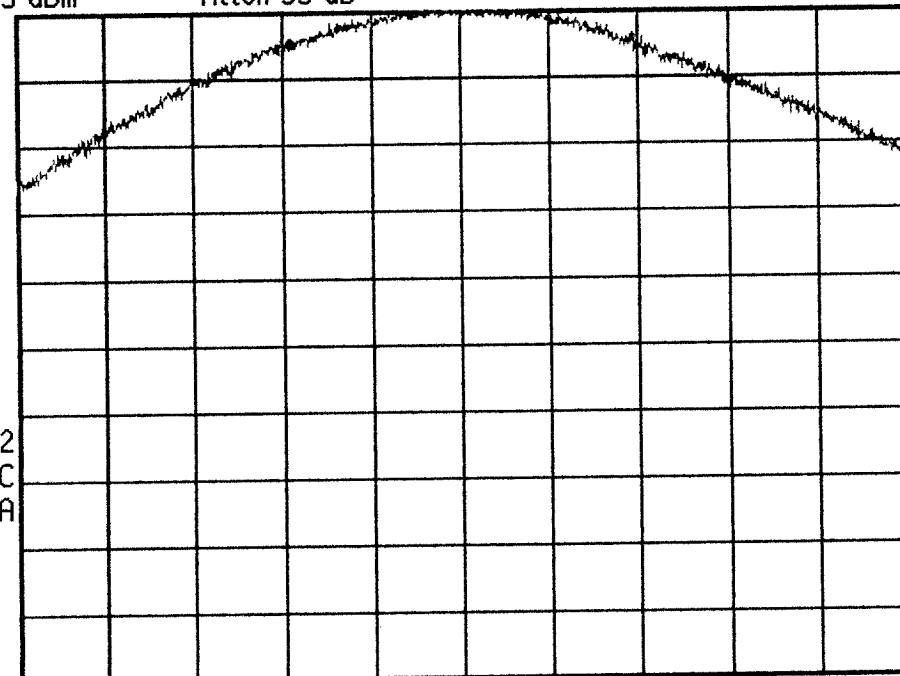
FCC ID: PJ2CDM810 CDMA 800 PWR OUT C-1013

Ref 25 dBm

Atten 35 dB

Peak
Log
10
dB/

V1 S2
S3 FC
AA



Center 824.7 MHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq
824.700000 MHz

Start Freq
819.700000 MHz

Stop Freq
829.700000 MHz

CF Step
849.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

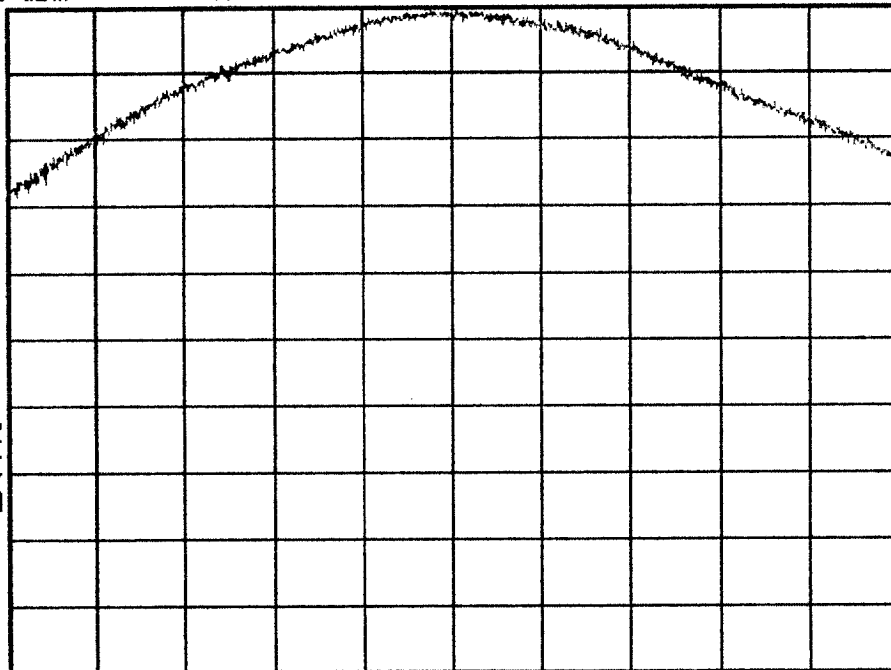
* Agilent 12:02:12 Mar 21, 2001

FCC ID: PJ2CDM810 CDMA 800 PWR OUT C-363

Ref 25 dBm

Atten 35 dB

Peak
Log
10
dB/



V1 S2
S3 FC
AA

Center 835.9 MHz

Span 10 MHz

*Res BW 3 MHz

VBW 3 MHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq
835.890000 MHz

Start Freq
830.890000 MHz

Stop Freq
840.890000 MHz

CF Step
849.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

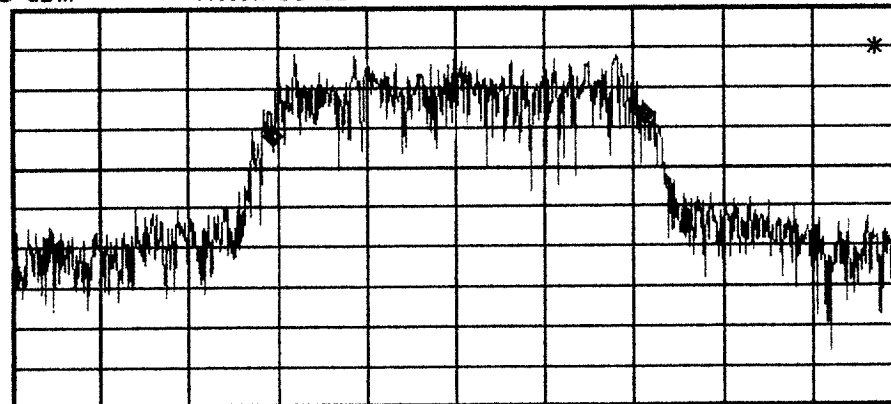
* Agilent 12:03:50 Mar 21, 2001

FCC ID: PJ2CDM810 CDMA 800 PWR OUT C-363

Ref 25 dBm

Atten 35 dB

Samp
Log
10
dB/



Center 835.9 MHz

Span 3 MHz

*Res BW 30 kHz

*VBW 300 kHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq
835.890000 MHz

Start Freq
834.390000 MHz

Stop Freq
837.390000 MHz

CF Step
849.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Occupied Bandwidth Results (idle)

Occupied Bandwidth
1.254 MHz

Occ BW % Pwr 99.00 %

Transmit Freq Error 6.192 kHz

Agilent 11:51:35 Mar 21, 2001

FCC ID: PJ2CDM810 CDMA 800 BAND EDGE C-1013

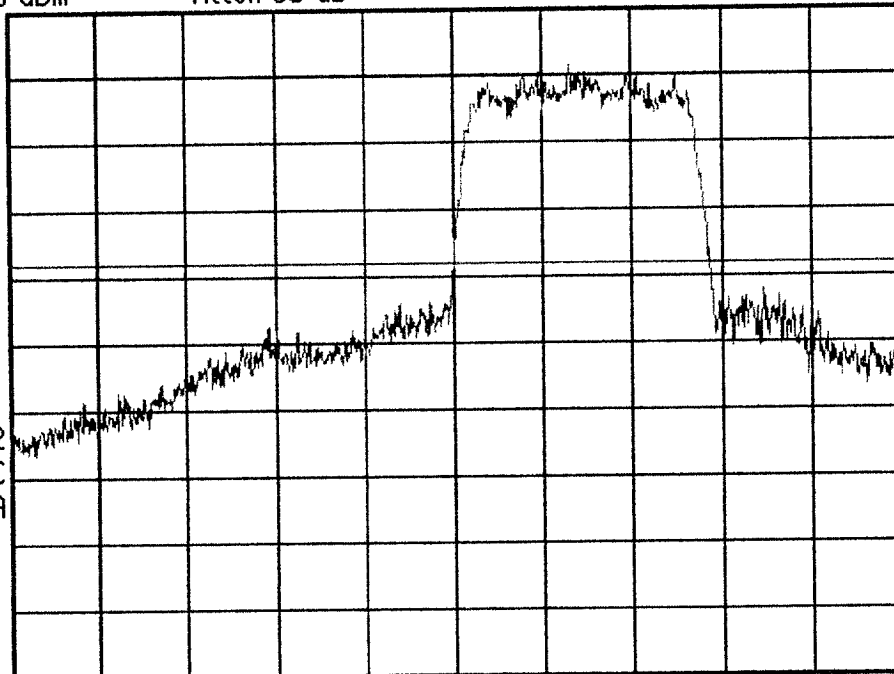
Ref 25 dBm

Atten 35 dB

Peak
Log
10
dB/

DI
-13.0
dBm

V1 S2
S3 FC
AA



Center 824 MHz

Span 5 MHz

*Res BW 30 kHz

VBW 30 kHz

Sweep 13.89 ms (999 pts)

Freq/Channel

Center Freq
824.000000 MHz

Start Freq
821.500000 MHz

Stop Freq
826.500000 MHz

CF Step
500.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Agilent 11:54:11 Mar 21, 2001

FCC ID: PJ2CDM810 CDMA 800 BAND EDGE C-0777

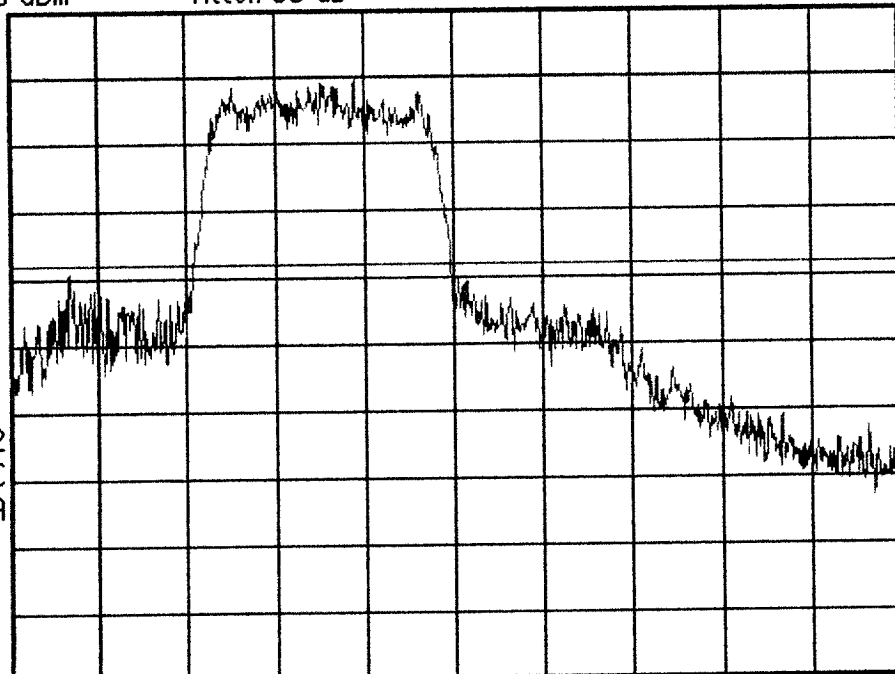
Ref 25 dBm

Atten 35 dB

Peak
Log
10
dB/

DI
-13.0
dBm

V1 S2
S3 FC
AA



Center 849 MHz

Span 5 MHz

*Res BW 30 kHz

VBW 30 kHz

Sweep 13.89 ms (999 pts)

Freq/Channel

Center Freq
849.000000 MHz

Start Freq
846.500000 MHz

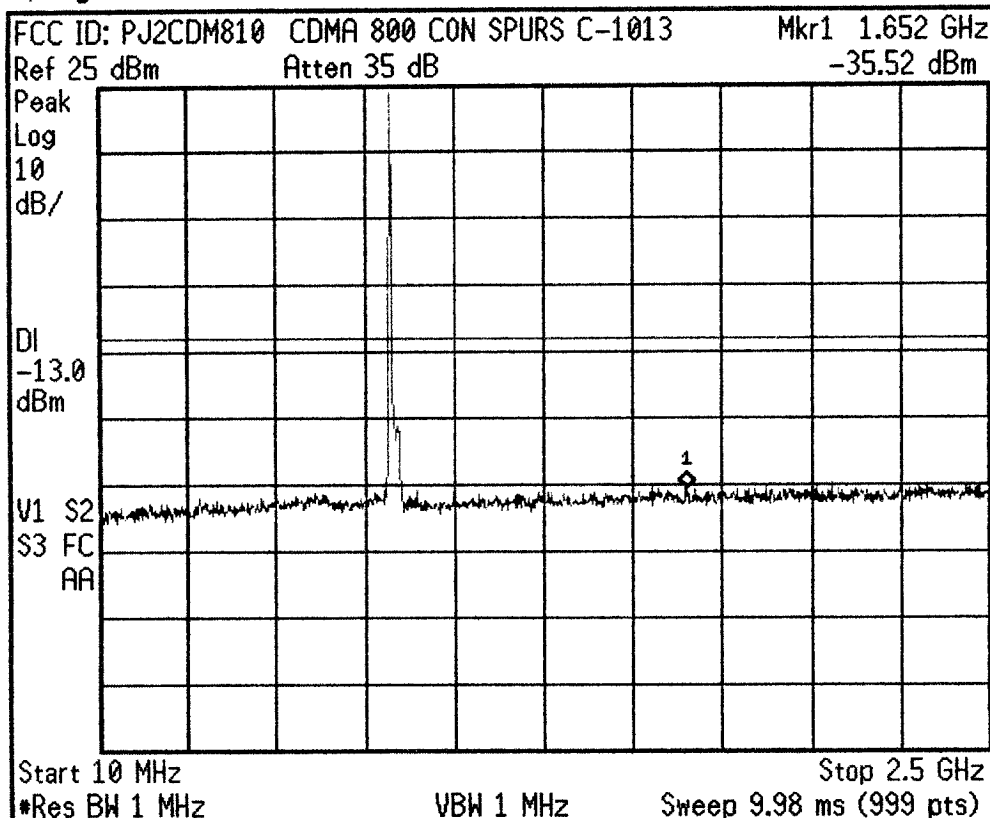
Stop Freq
851.500000 MHz

CF Step
849.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Agilent 11:46:50 Mar 21, 2001



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

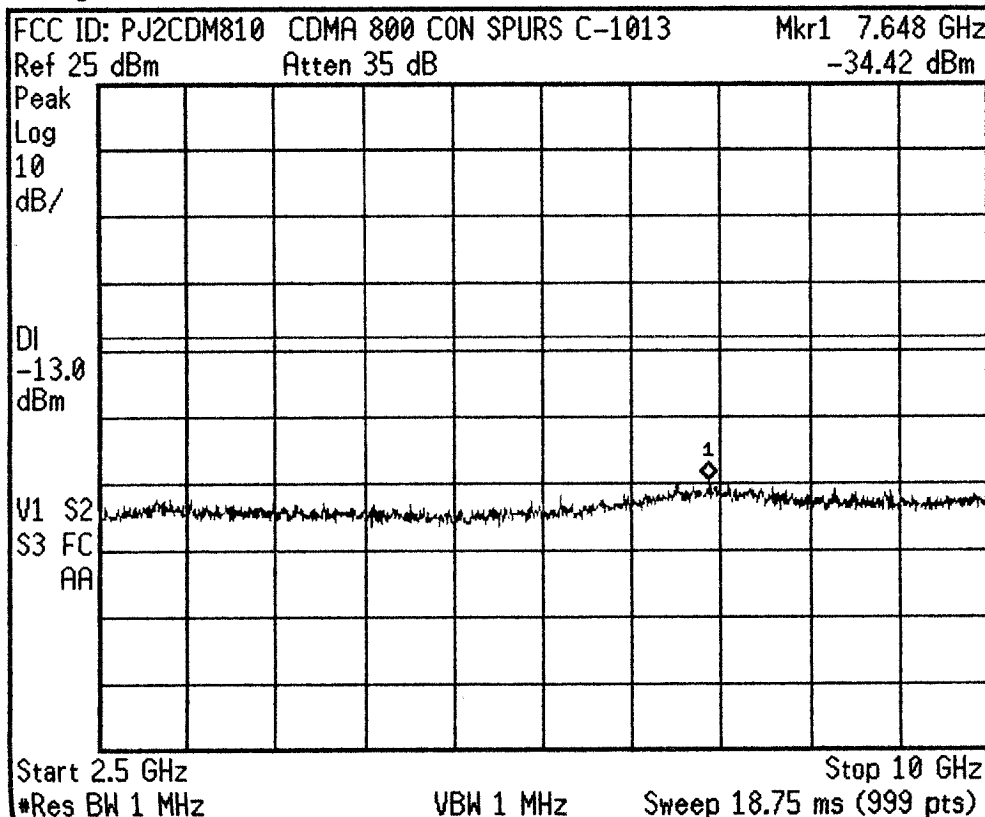
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Agilent 11:47:35 Mar 21, 2001



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

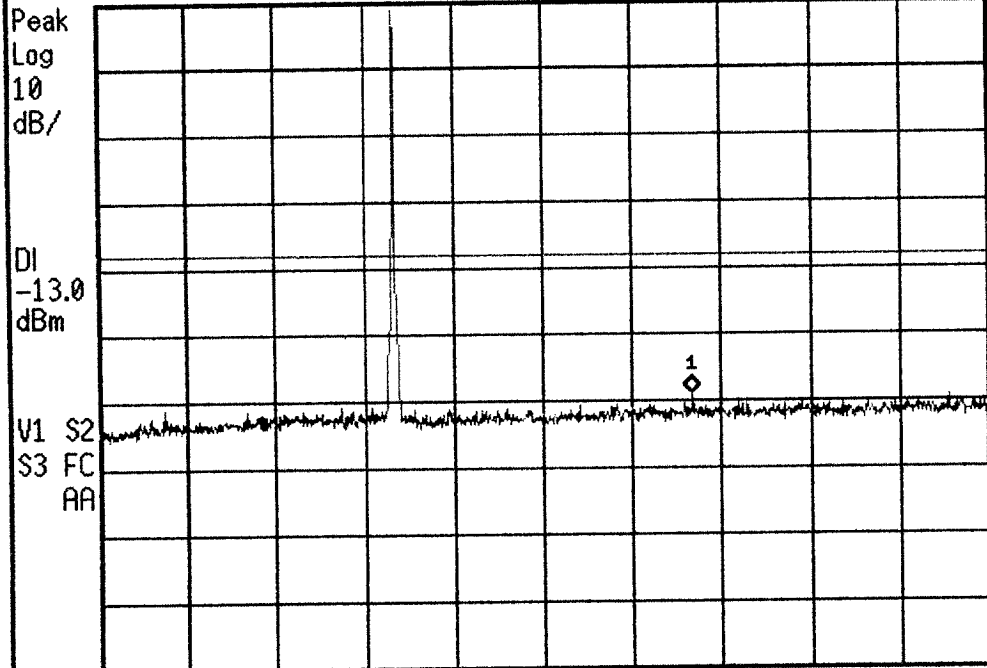
Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 11:44:19 Mar 21, 2001

FCC ID: PJ2CDM810 CDMA 800 CON SPURS C-0363 Mkr1 1.672 GHz

Ref 25 dBm Atten 35 dB -33.9 dBm



Start 10 MHz Stop 2.5 GHz
*Res BW 1 MHz VBW 1 MHz Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq
1.25500000 GHz

Start Freq
10.0000000 MHz

Stop Freq
2.50000000 GHz

CF Step
249.000000 MHz
Auto Man

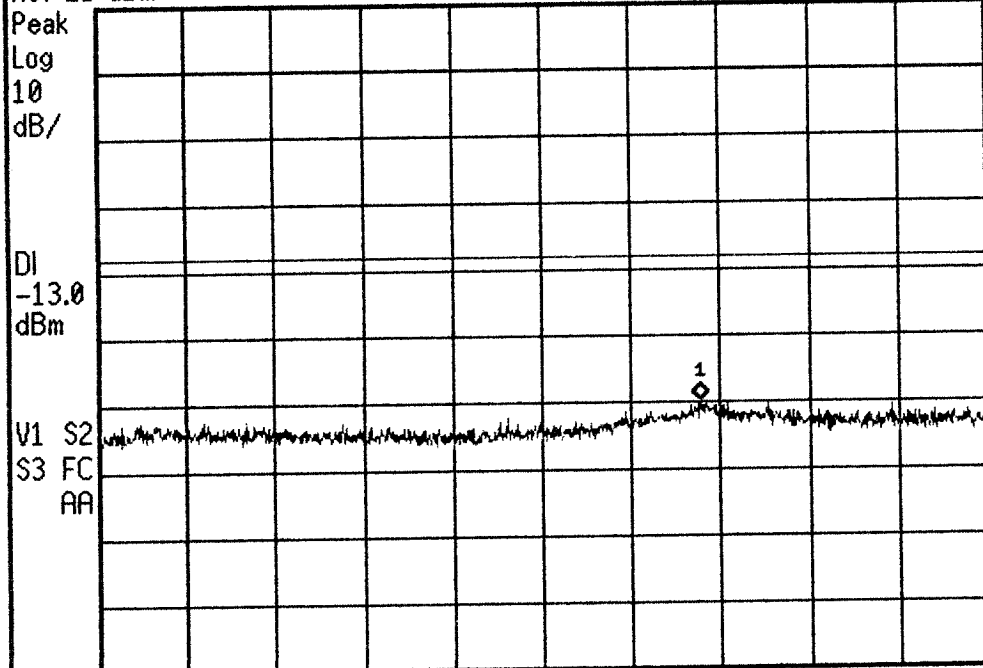
Freq Offset
0.00000000 Hz

Signal Track
On Off

* Agilent 11:45:04 Mar 21, 2001

FCC ID: PJ2CDM810 CDMA 800 CON SPURS C-0363 Mkr1 7.588 GHz

Ref 25 dBm Atten 35 dB -34.84 dBm



Start 2.5 GHz Stop 10 GHz
*Res BW 1 MHz VBW 1 MHz Sweep 18.75 ms (999 pts)

Freq/Channel

Center Freq
6.25000000 GHz

Start Freq
2.50000000 GHz

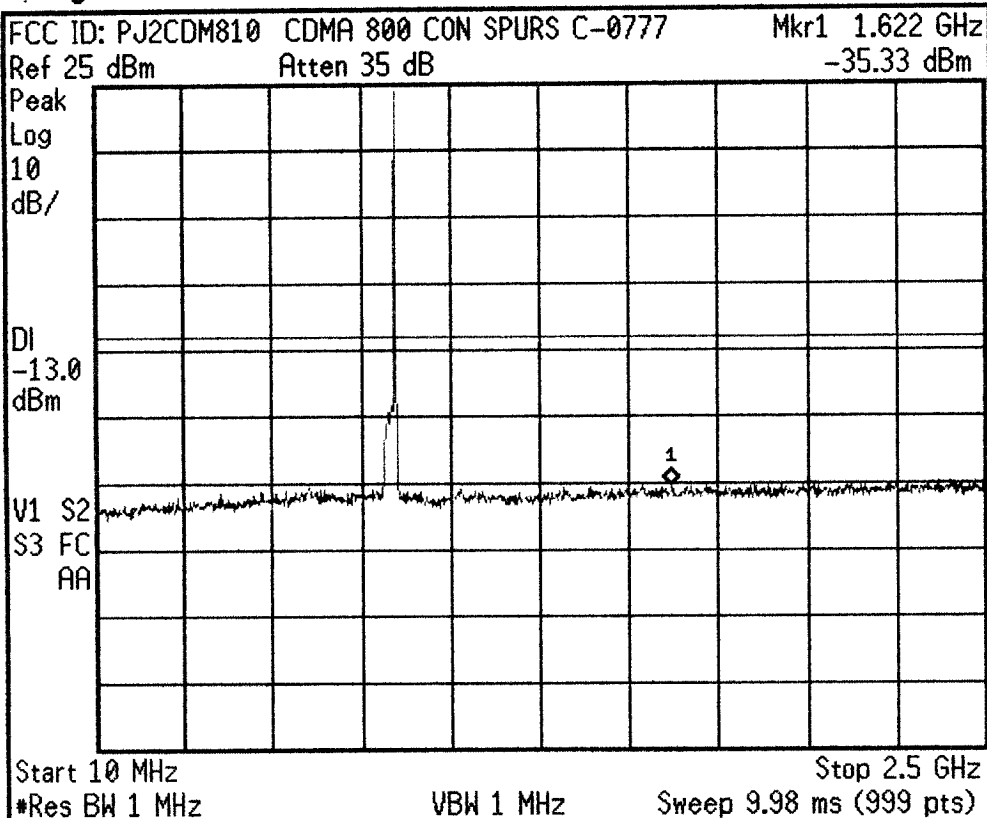
Stop Freq
10.0000000 GHz

CF Step
750.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Agilent 11:36:40 Mar 21, 2001



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

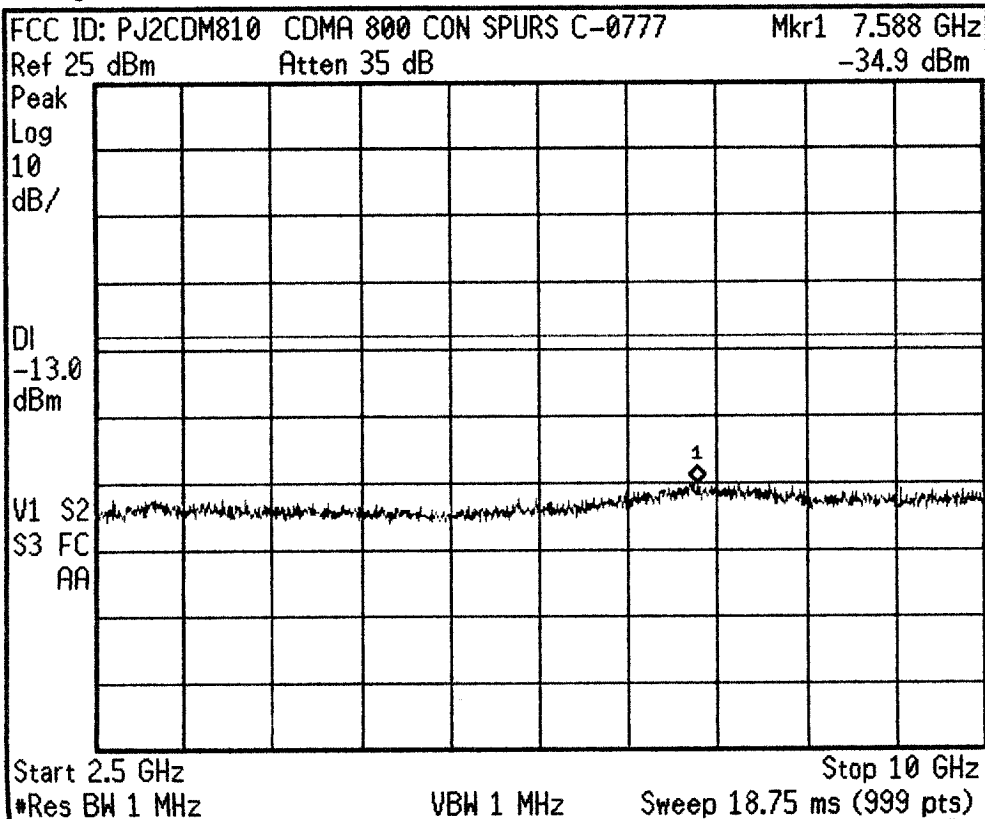
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Agilent 11:39:57 Mar 21, 2001



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 11:04:08 Mar 21, 2001

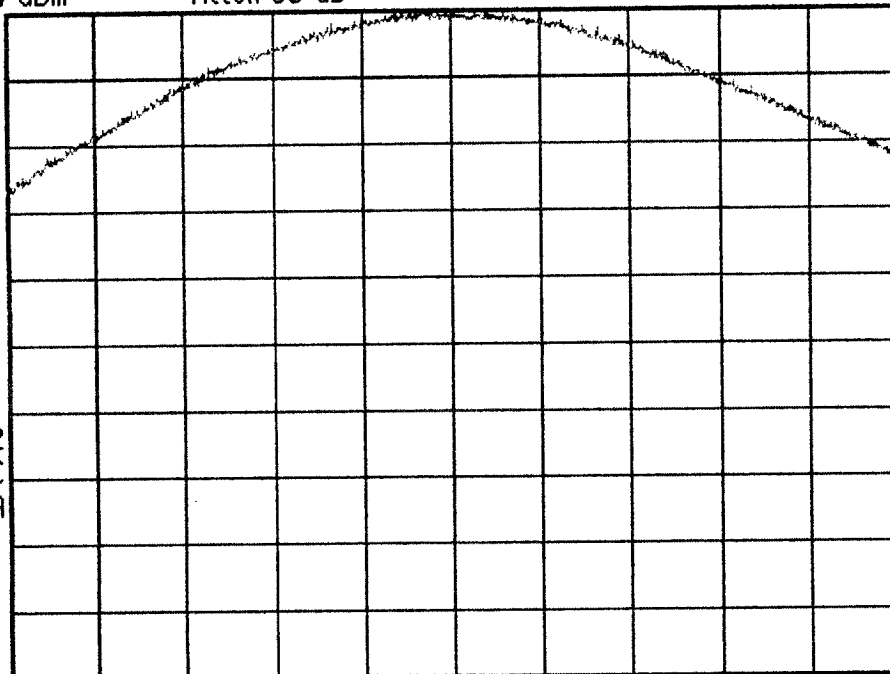
FCC ID: PJ2CDM810 POWER OUT PCS Ch. 0600

Ref 24 dBm

Atten 35 dB

Peak
Log
10
dB/

V1 S2
S3 FC
AA



Center 1.88 GHz

Span 10 MHz

*Res BW 3 MHz

VBW 3 MHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

1.88000000 GHz

Start Freq

1.87500000 GHz

Stop Freq

1.88500000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

* Agilent 11:06:01 Mar 21, 2001

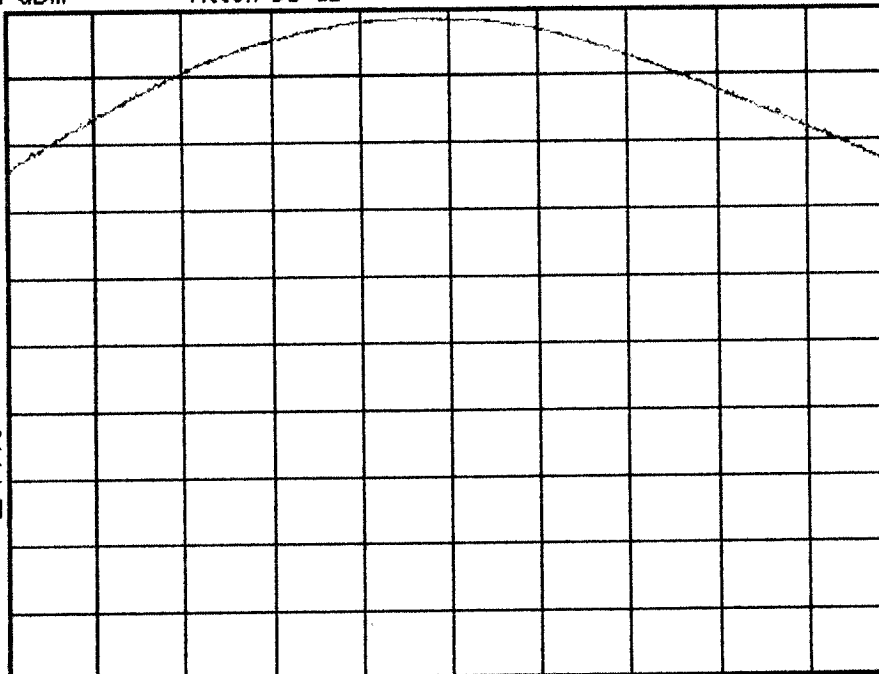
FCC ID: PJ2CDM810 POWER OUT PCS Ch. 1175

Ref 24 dBm

Atten 35 dB

Peak
Log
10
dB/

V1 S2
S3 FC
AA



Center 1.909 GHz

Span 10 MHz

*Res BW 3 MHz

VBW 3 MHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

1.90900000 GHz

Start Freq

1.90400000 GHz

Stop Freq

1.91400000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

* Agilent 11:07:11 Mar 21, 2001

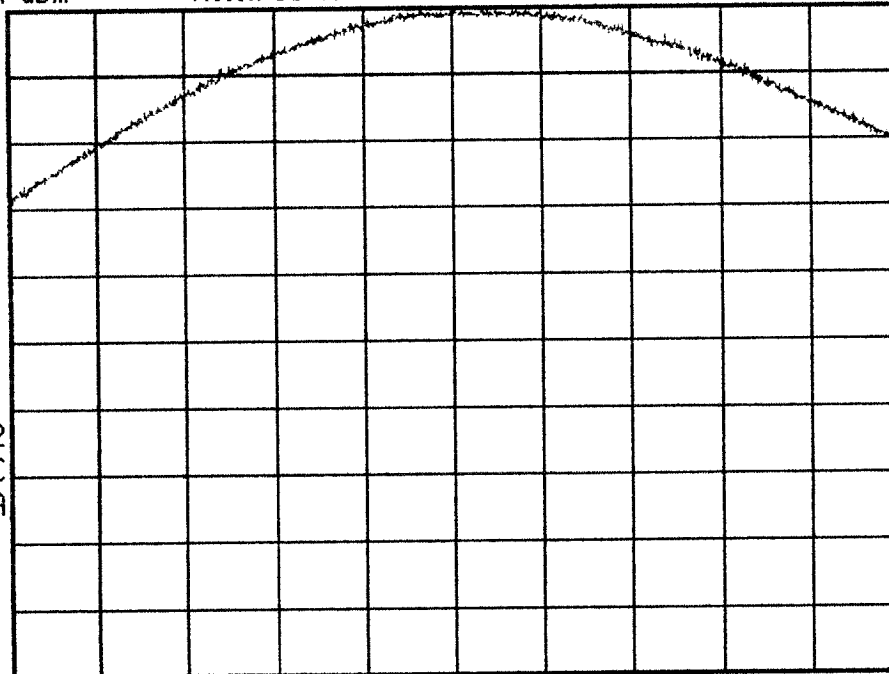
FCC ID: PJ2CDM810 POWER OUT PCS Ch. 0025

Ref 24 dBm

Atten 35 dB

Peak
Log
10
dB/

V1 S2
S3 FC
AA



Center 1.851 GHz

Span 10 MHz

*Res BW 3 MHz

VBW 3 MHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq
1.85100000 GHz

Start Freq
1.84600000 GHz

Stop Freq
1.85600000 GHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

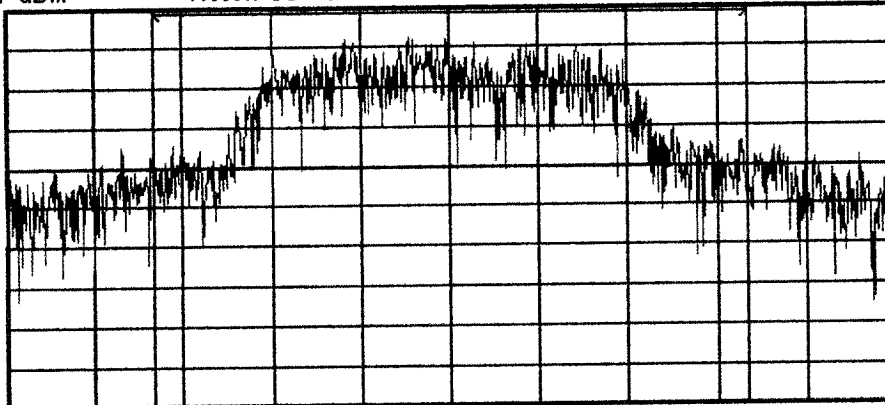
* Agilent 11:11:26 Mar 21, 2001

FCC ID: PJ2CDM810 POWER OUT PCS Ch. 0025

Ref 24 dBm

Atten 35 dB

Samp
Log
10
dB/



Center 1.851 GHz

Span 3 MHz

*Res BW 30 kHz

*VBW 300 kHz

Sweep 9.98 ms (999 pts)

Channel Power Results (Idle)

Channel Power
24.05 dBm

Integration BW 2.000 MHz

Density -38.96 dBm/Hz

Marker

Select Marker
1 2 3 4

Normal

Delta

Band Pair
Start Stop

Span Pair
Span Center

Off

More
1 of 2

* Agilent 11:18:54 Mar 21, 2001

FCC ID: PJ2CDM810 BAND EDGE PCS Ch. 1175

Ref 24 dBm

Atten 35 dB

Peak

Log

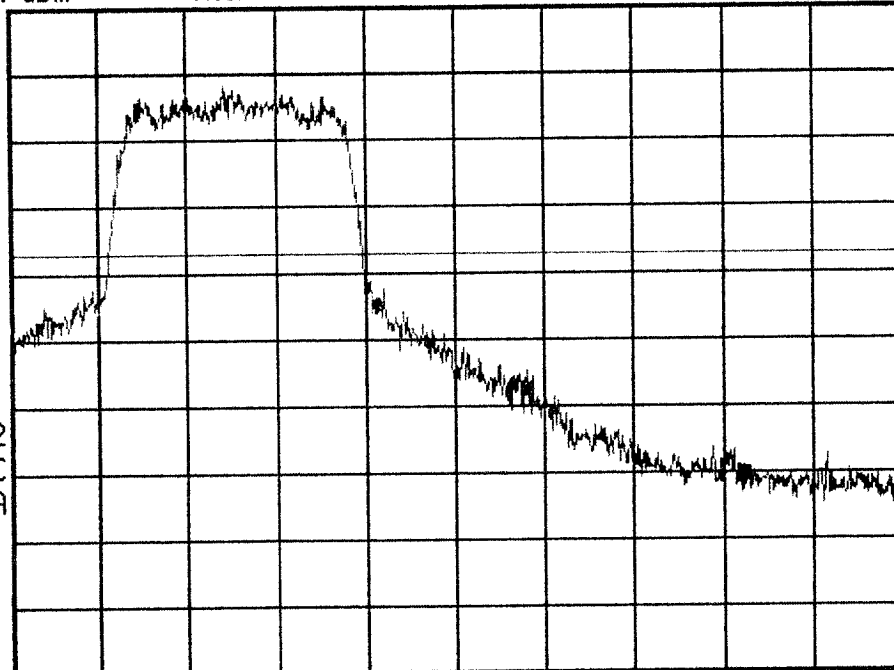
10

dB/

DI

-13.0
dBm

V1 S2
S3 FC
AA



Center 1.91 GHz

Span 5 MHz

*Res BW 30 kHz

VBW 30 kHz

Sweep 13.89 ms (999 pts)

Freq/Channel

Center Freq

1.91000000 GHz

Start Freq

1.90750000 GHz

Stop Freq

1.91250000 GHz

CF Step

500.000000 kHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

* Agilent 11:20:31 Mar 21, 2001

FCC ID: PJ2CDM810 BAND EDGE PCS Ch. 0025

Ref 24 dBm

Atten 35 dB

Peak

Log

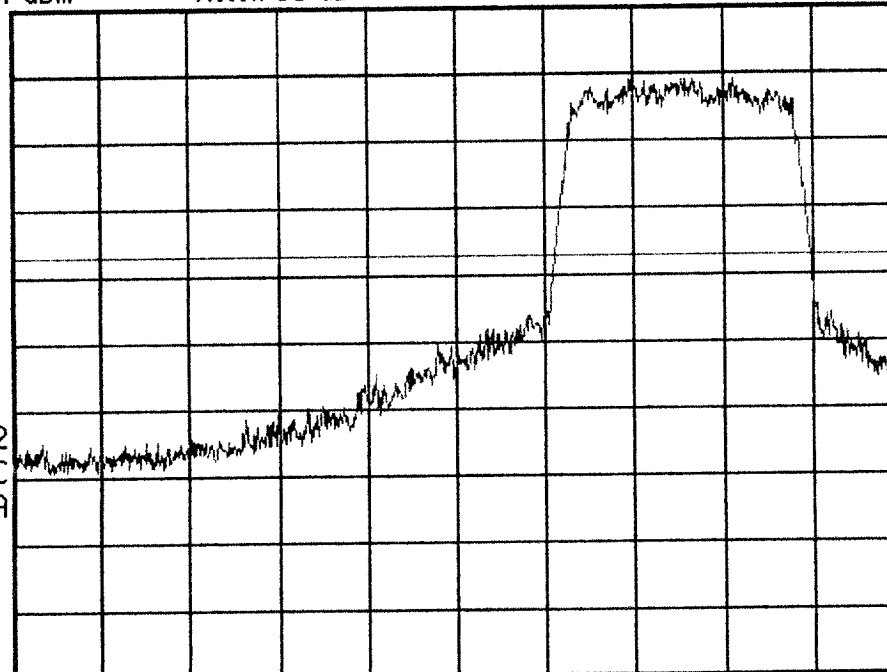
10

dB/

DI

-13.0
dBm

V1 S2
S3 FC
AA



Center 1.85 GHz

Span 5 MHz

*Res BW 30 kHz

VBW 30 kHz

Sweep 13.89 ms (999 pts)

Freq/Channel

Center Freq

1.85000000 GHz

Start Freq

1.84750000 GHz

Stop Freq

1.85250000 GHz

CF Step

500.000000 kHz

Auto

Man

Freq Offset

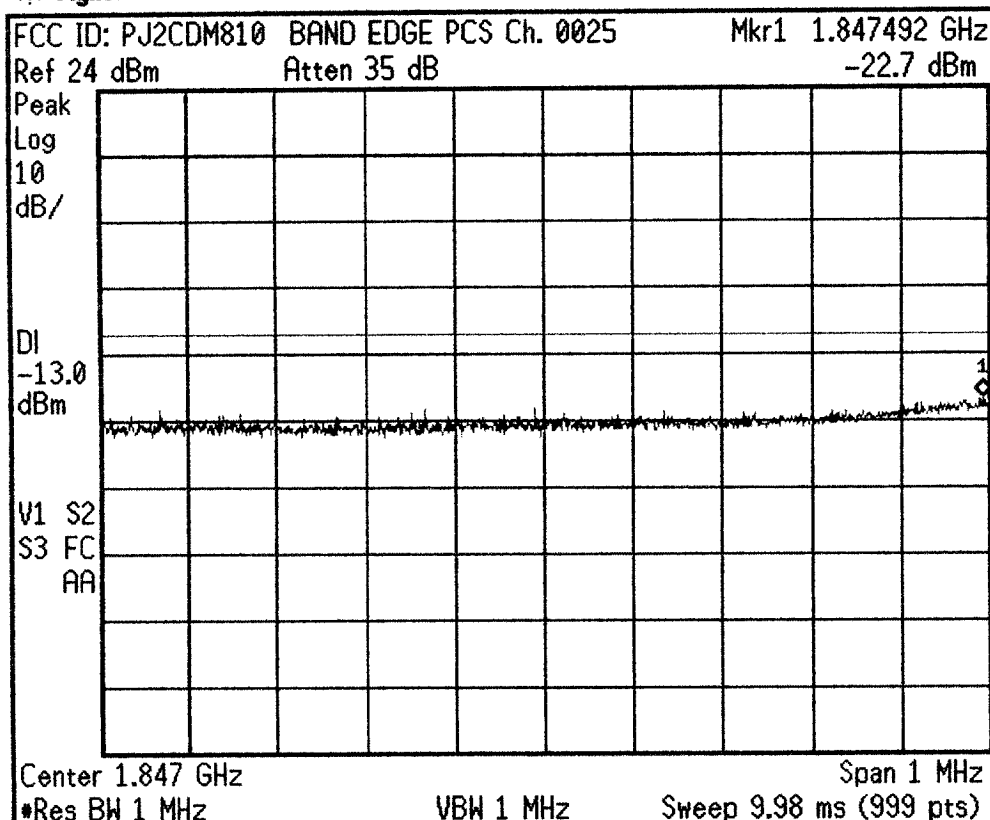
0.00000000 Hz

Signal Track

On

Off

* Agilent 11:22:15 Mar 21, 2001



Freq/Channel

Center Freq
 1.84700000 GHz

Start Freq
 1.84650000 GHz

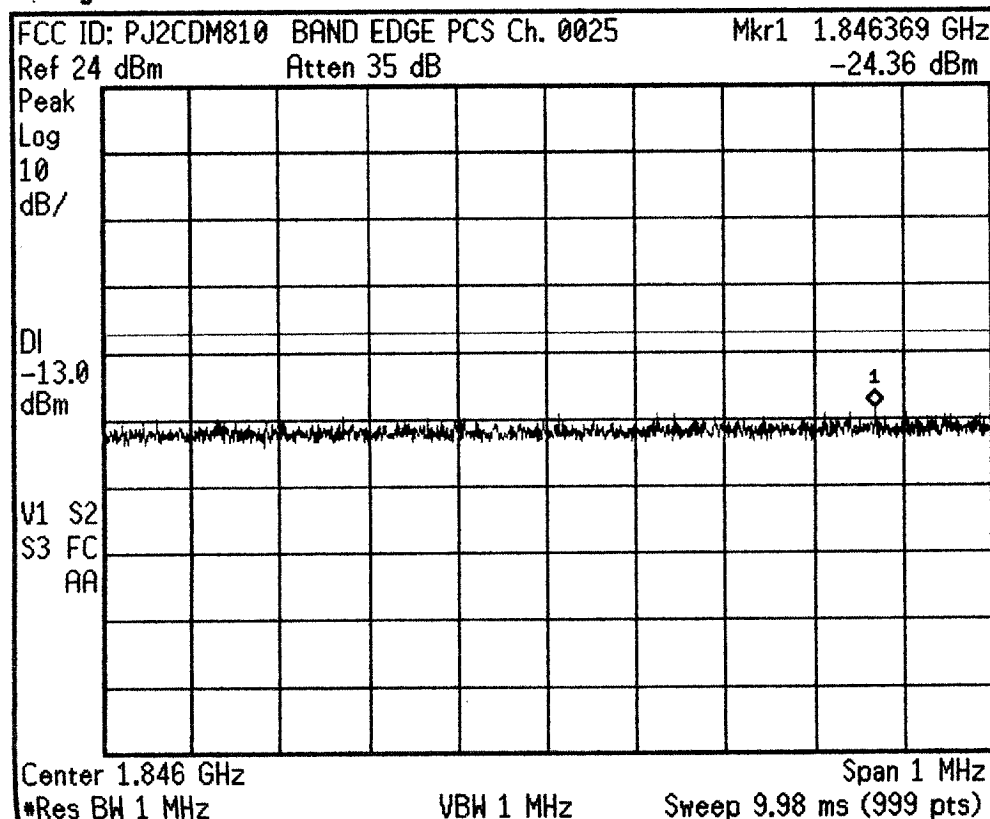
Stop Freq
 1.84750000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 11:23:16 Mar 21, 2001



Freq/Channel

Center Freq
 1.84600000 GHz

Start Freq
 1.84550000 GHz

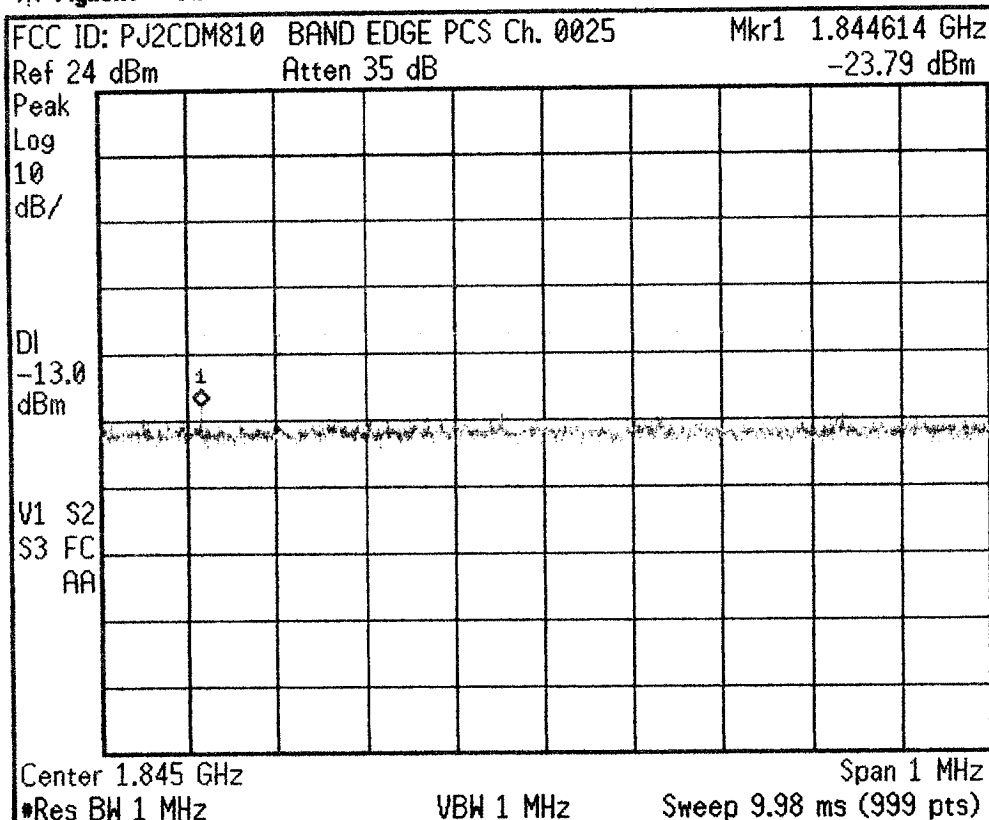
Stop Freq
 1.84650000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 11:24:11 Mar 21, 2001



Freq/Channel

Center Freq
 1.84500000 GHz

Start Freq
 1.84450000 GHz

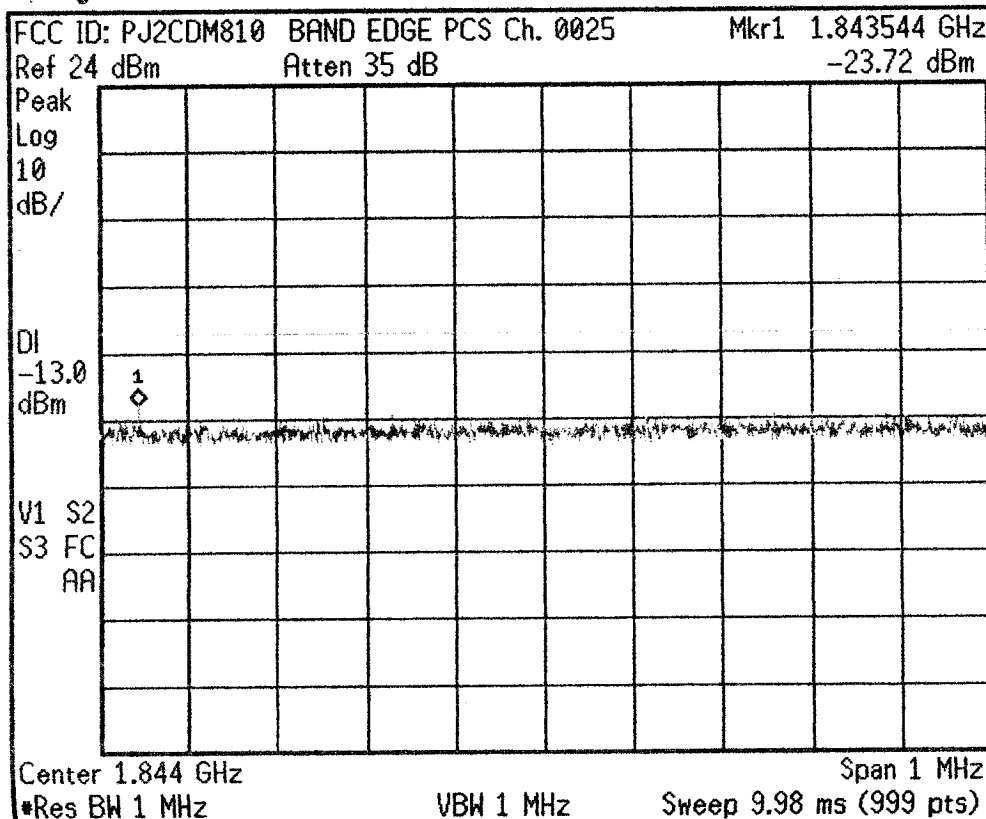
Stop Freq
 1.84550000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 11:24:49 Mar 21, 2001



Freq/Channel

Center Freq
 1.84400000 GHz

Start Freq
 1.84350000 GHz

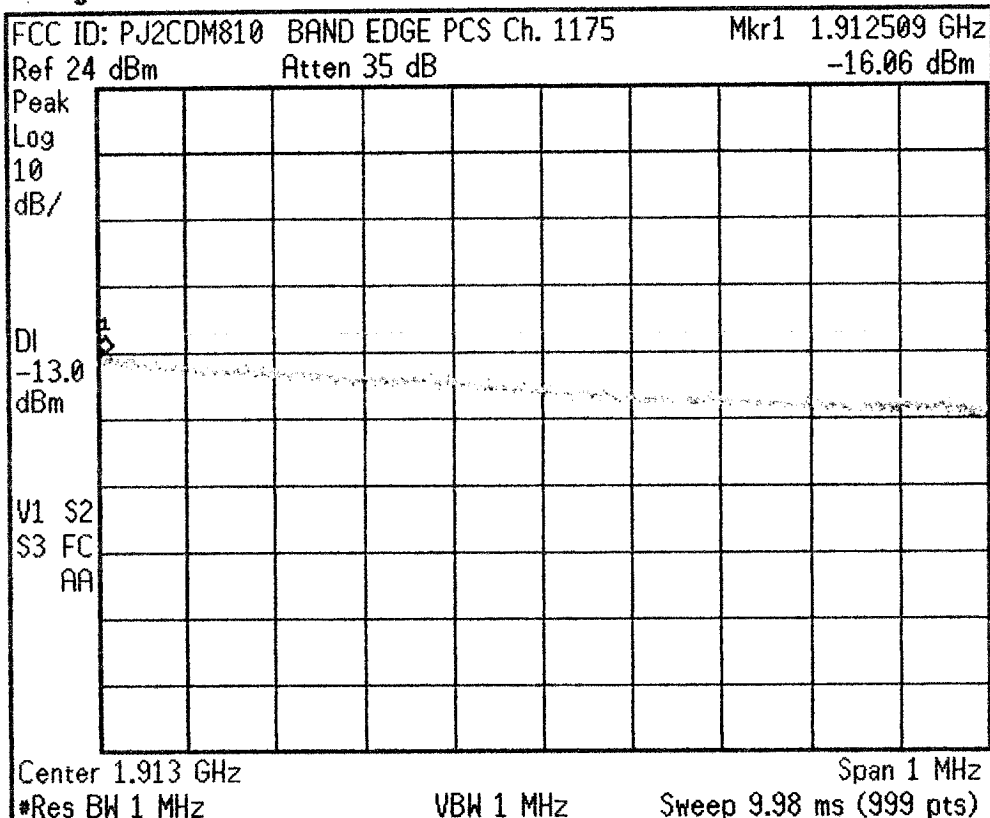
Stop Freq
 1.84450000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 11:26:08 Mar 21, 2001



Freq/Channel

Center Freq
 1.91300000 GHz

Start Freq
 1.91250000 GHz

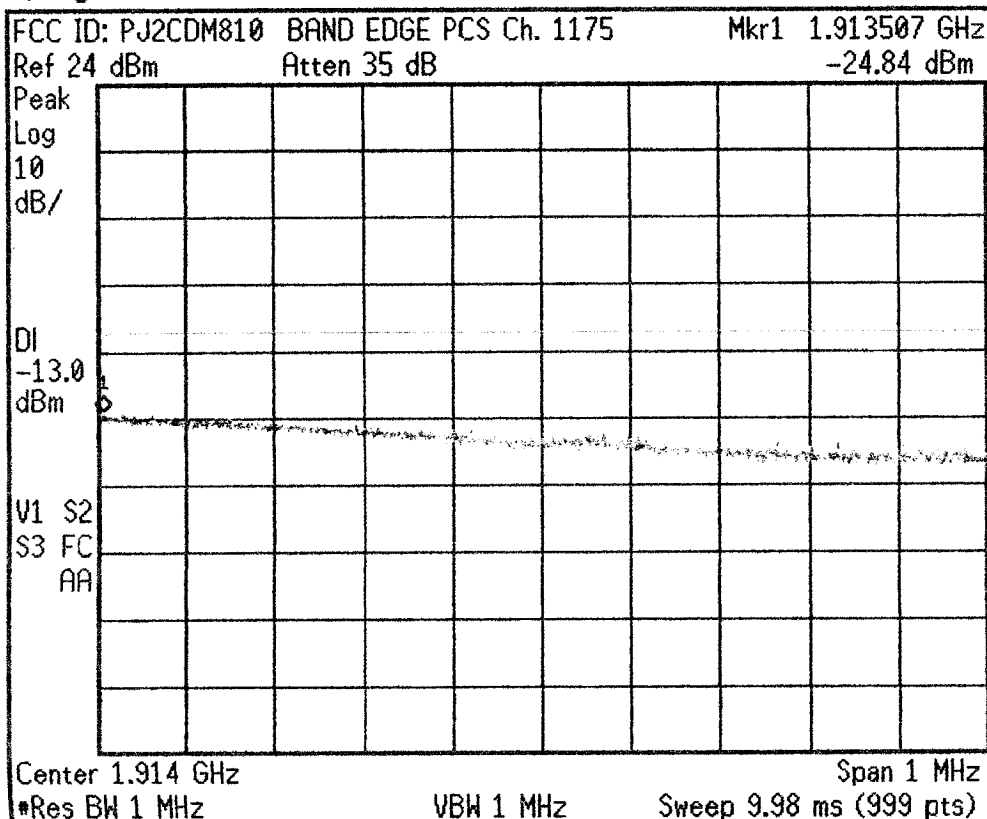
Stop Freq
 1.91350000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 11:27:00 Mar 21, 2001



Freq/Channel

Center Freq
 1.91400000 GHz

Start Freq
 1.91350000 GHz

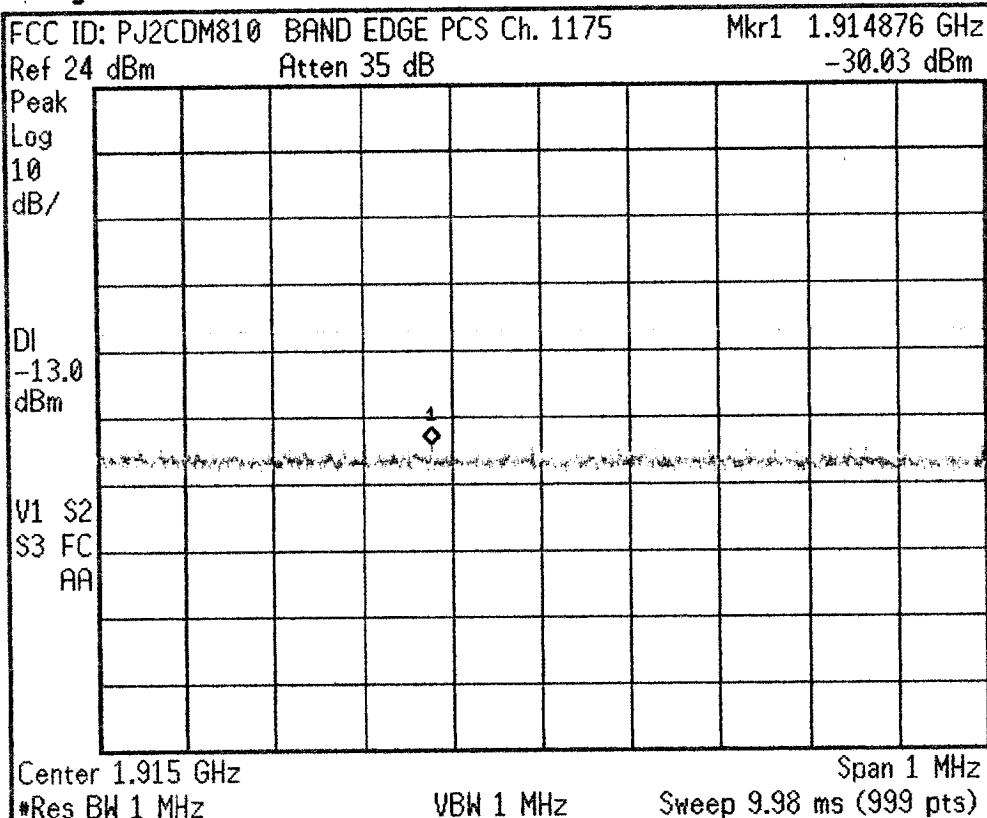
Stop Freq
 1.91450000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Agilent 11:27:53 Mar 21, 2001



Freq/Channel

Center Freq
 1.91500000 GHz

Start Freq
 1.91450000 GHz

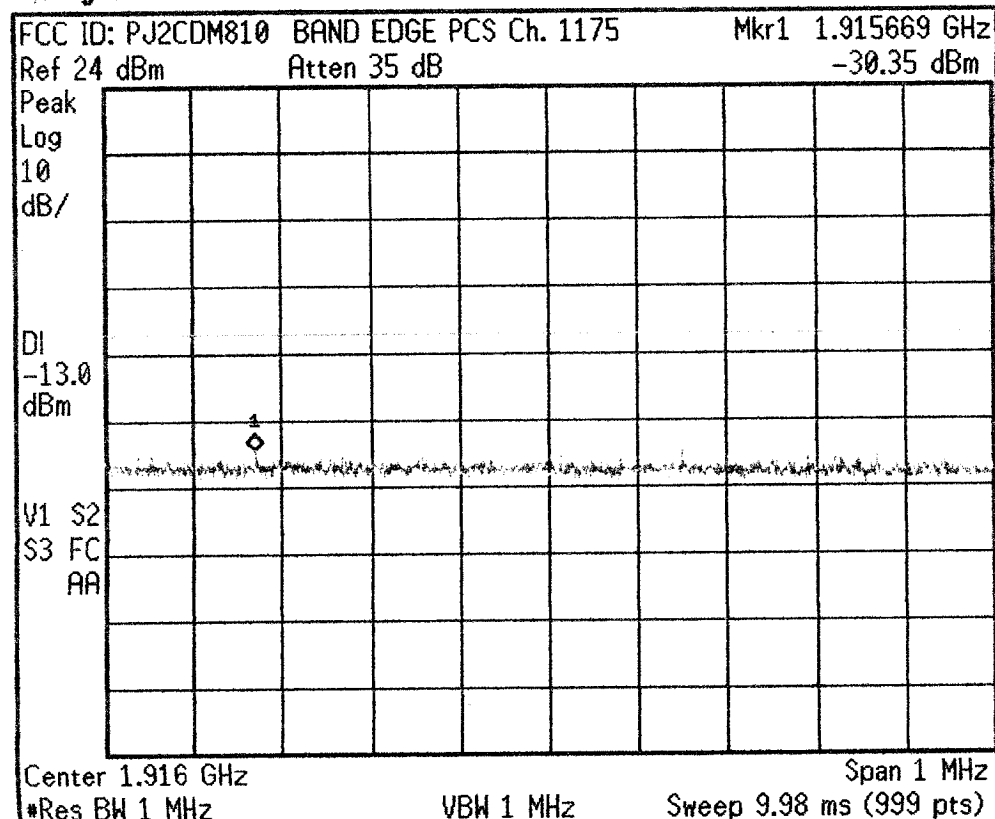
Stop Freq
 1.91550000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Agilent 11:29:09 Mar 21, 2001



Freq/Channel

Center Freq
 1.91600000 GHz

Start Freq
 1.91550000 GHz

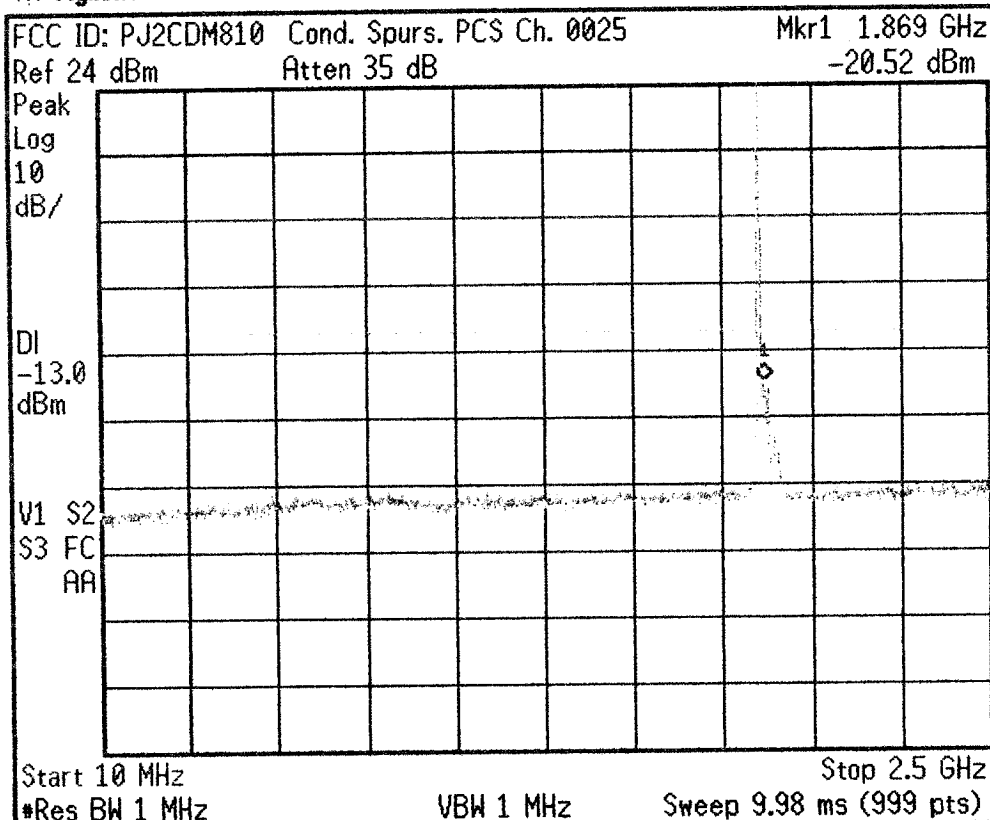
Stop Freq
 1.91650000 GHz

CF Step
 100.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Agilent 10:44:15 Mar 21, 2001



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

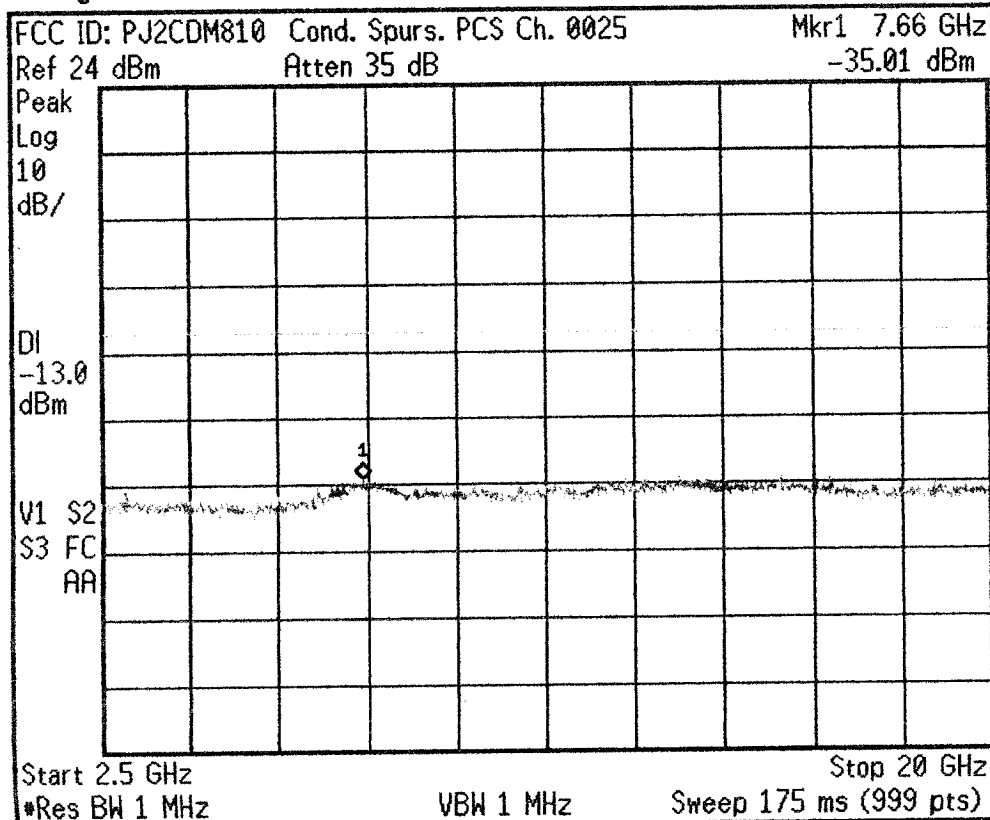
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Agilent 10:44:58 Mar 21, 2001



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

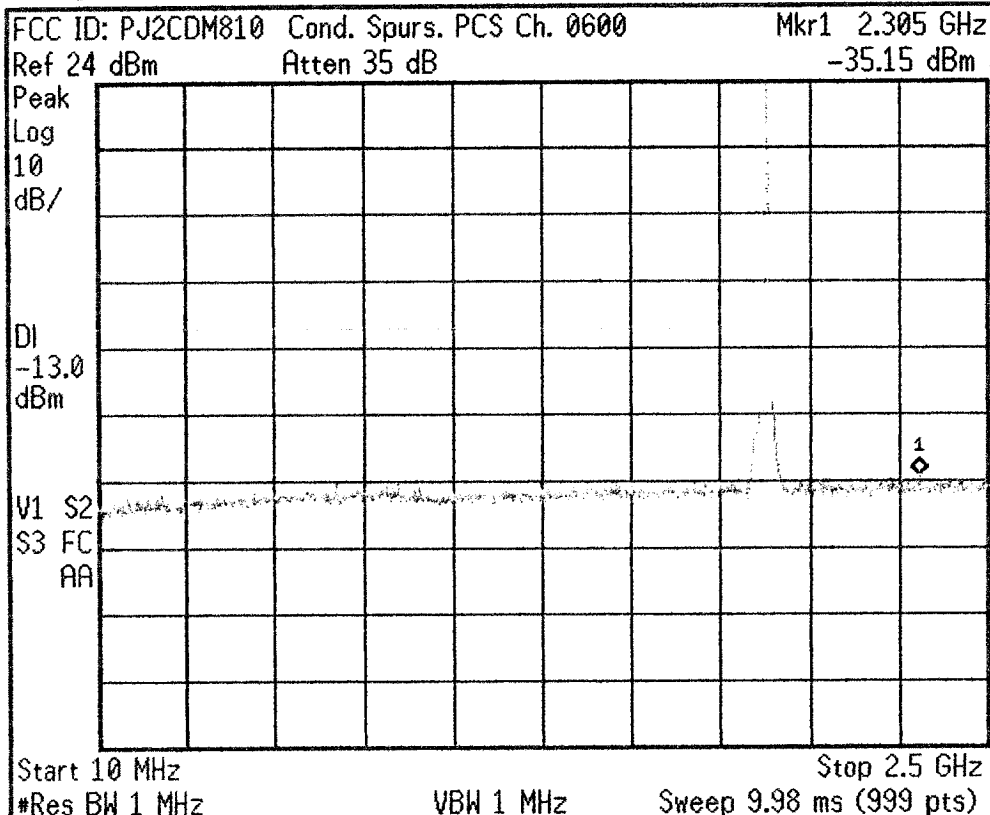
Stop Freq
 20.0000000 GHz

CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 10:57:33 Mar 21, 2001



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

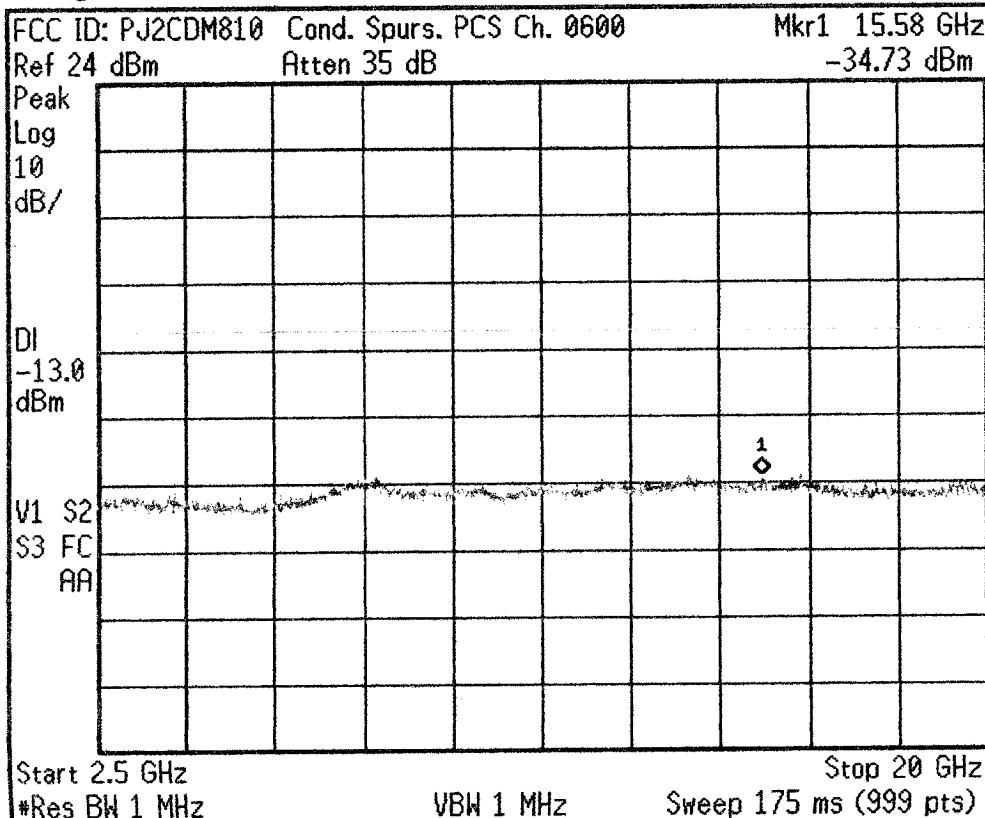
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 10:58:52 Mar 21, 2001



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

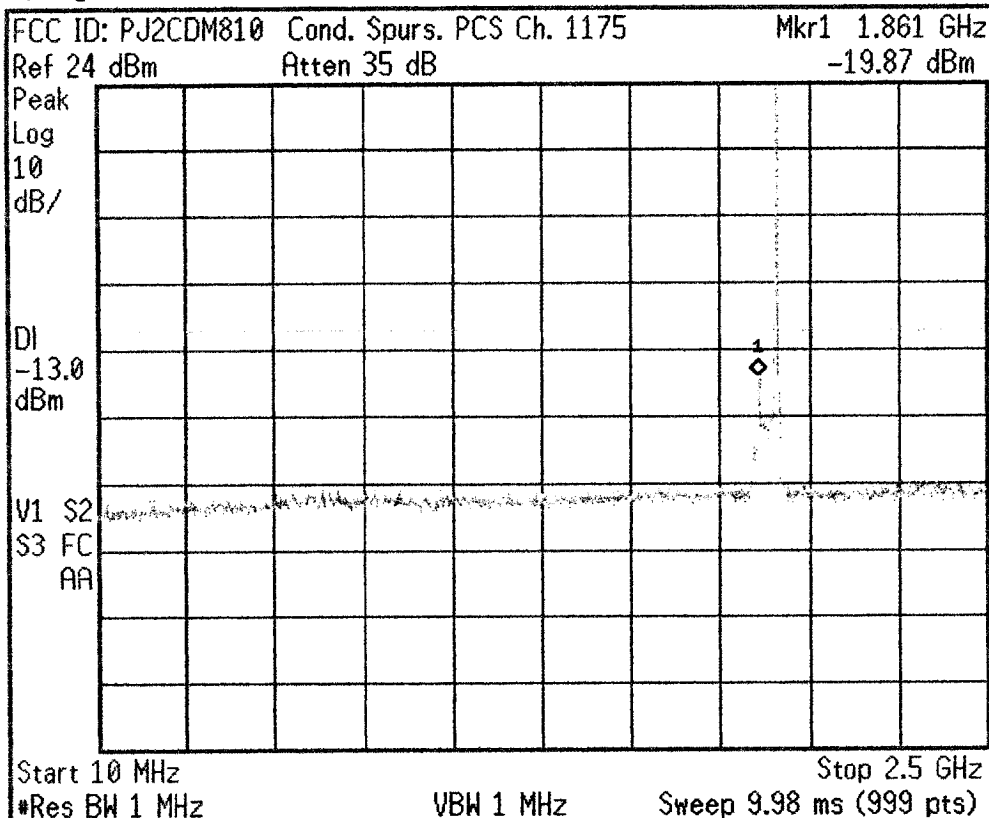
Stop Freq
 20.0000000 GHz

CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 10:55:20 Mar 21, 2001



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

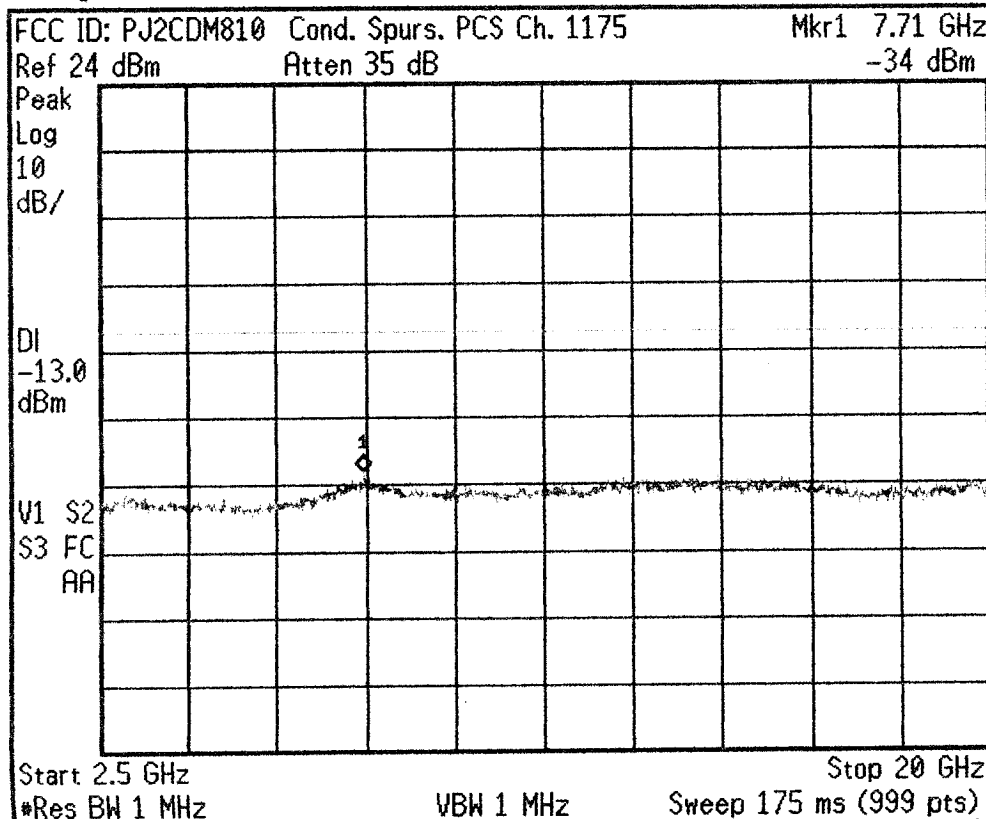
Stop Freq
 2.50000000 GHz

CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 10:56:01 Mar 21, 2001



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 20.0000000 GHz

CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

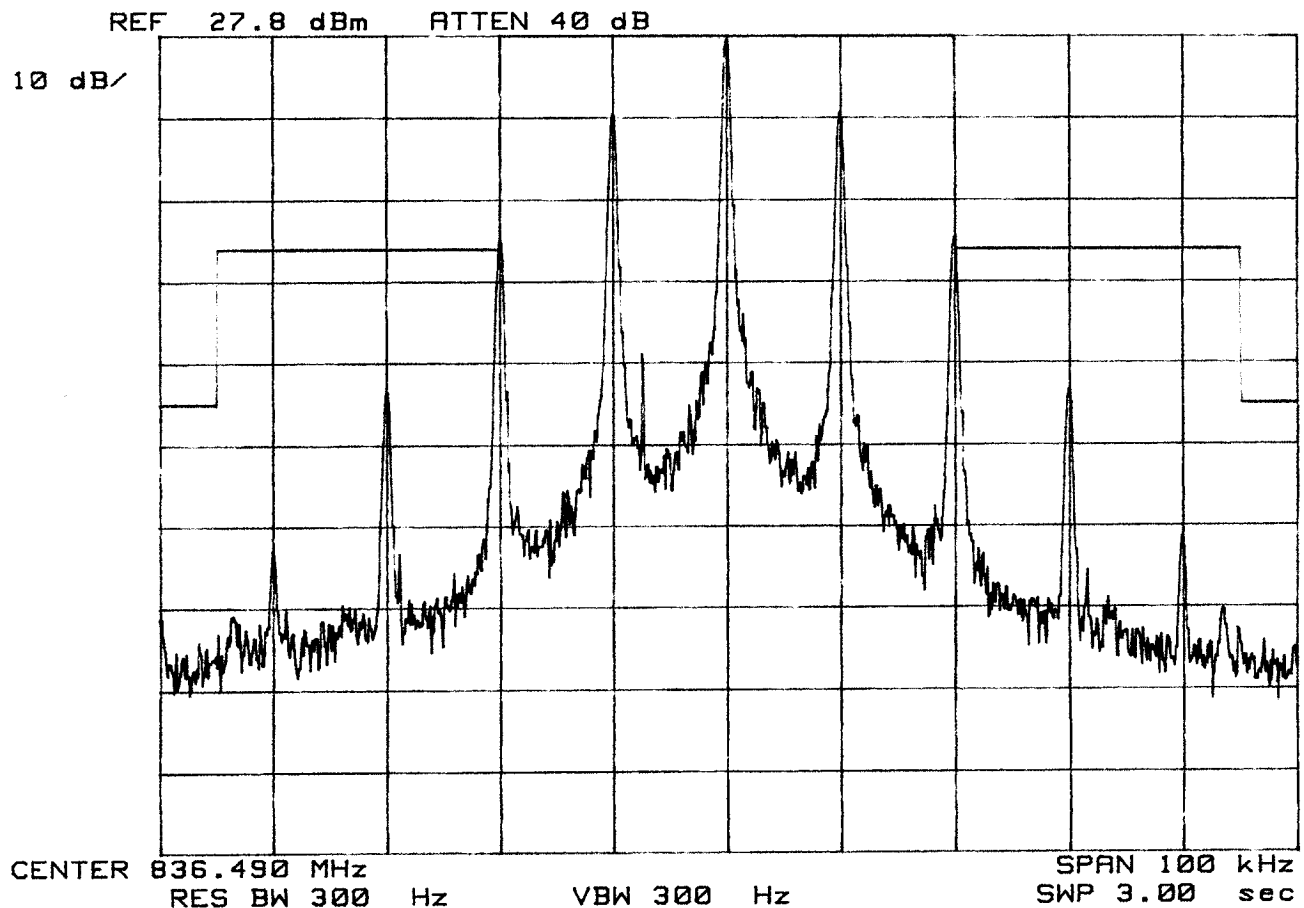
Signal Track
 On Off

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID: CDM810
TRI-MODE DATA MODEM
FM MODE
CH-0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode:ST

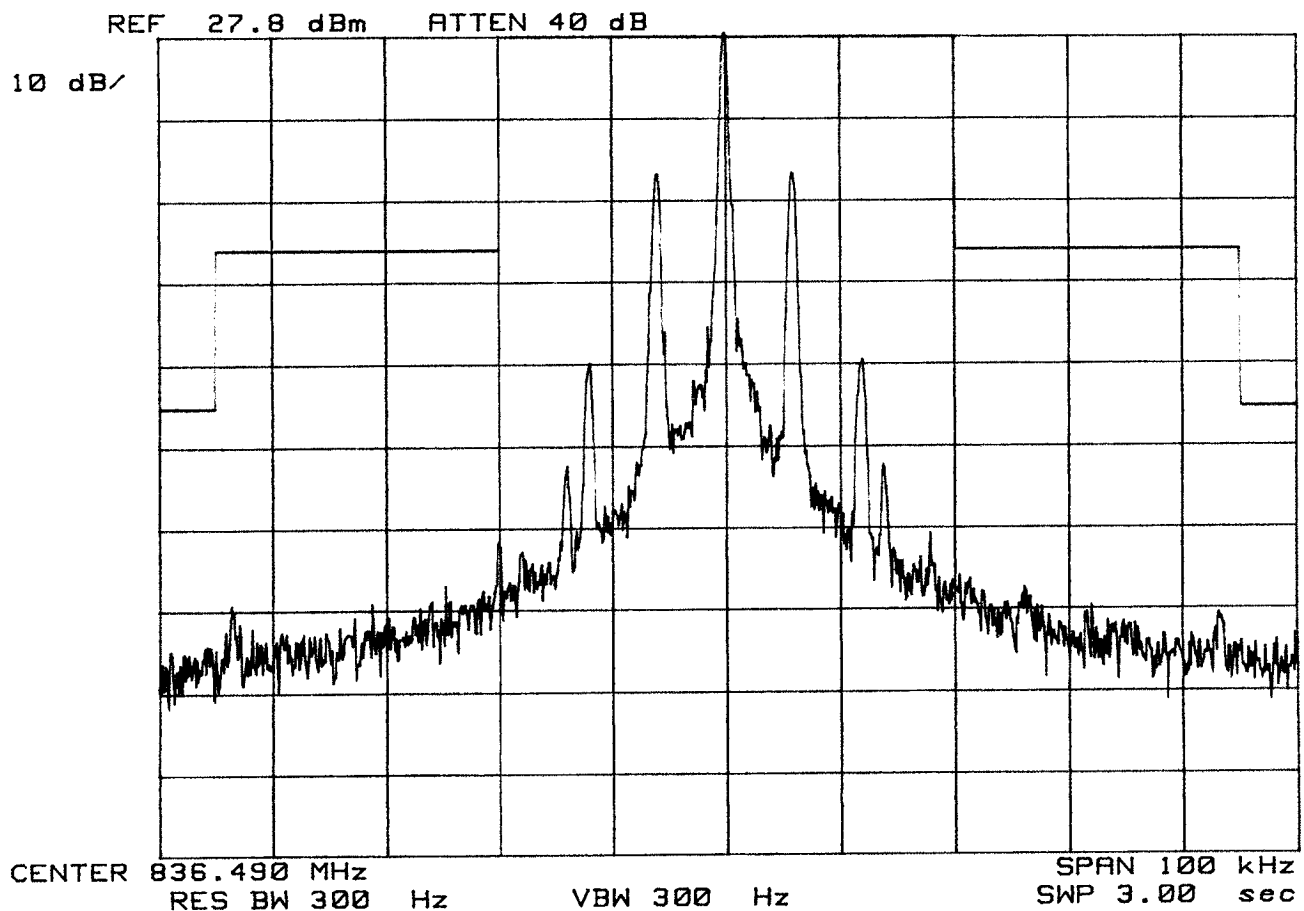


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID: CDM810
TRI-MODE DATA MODEM
FM MODE
CH-0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode: SAT

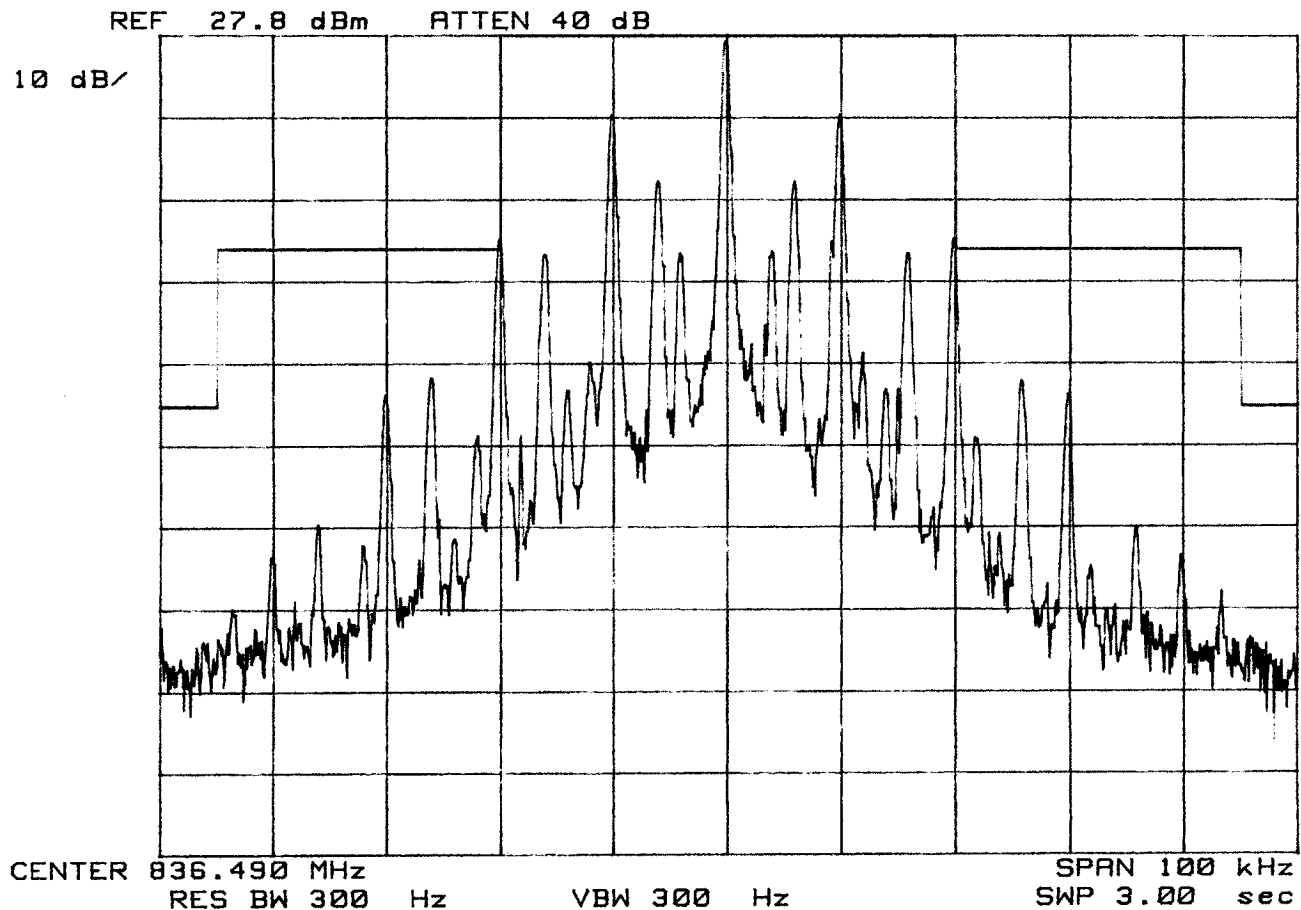


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SPECTRUM ANALYZER PRESENTATION

FCC ID: CDM810
TRI-MODE DATA MODEM
FM MODE
CH-0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode: SAT + ST

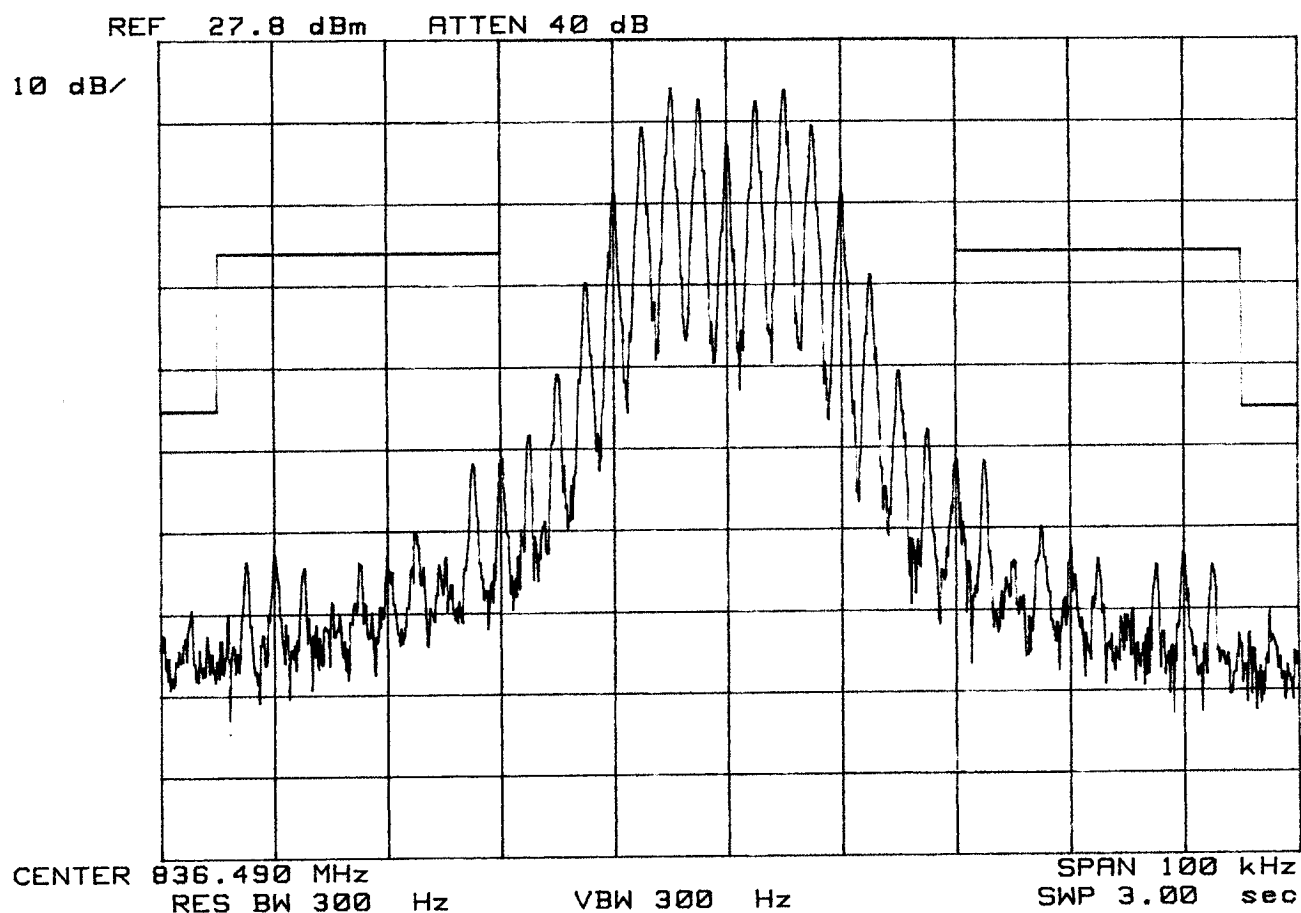


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID: CDM810
TRI-MODE DATA MODEM
FM MODE
CH-0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode:Voice

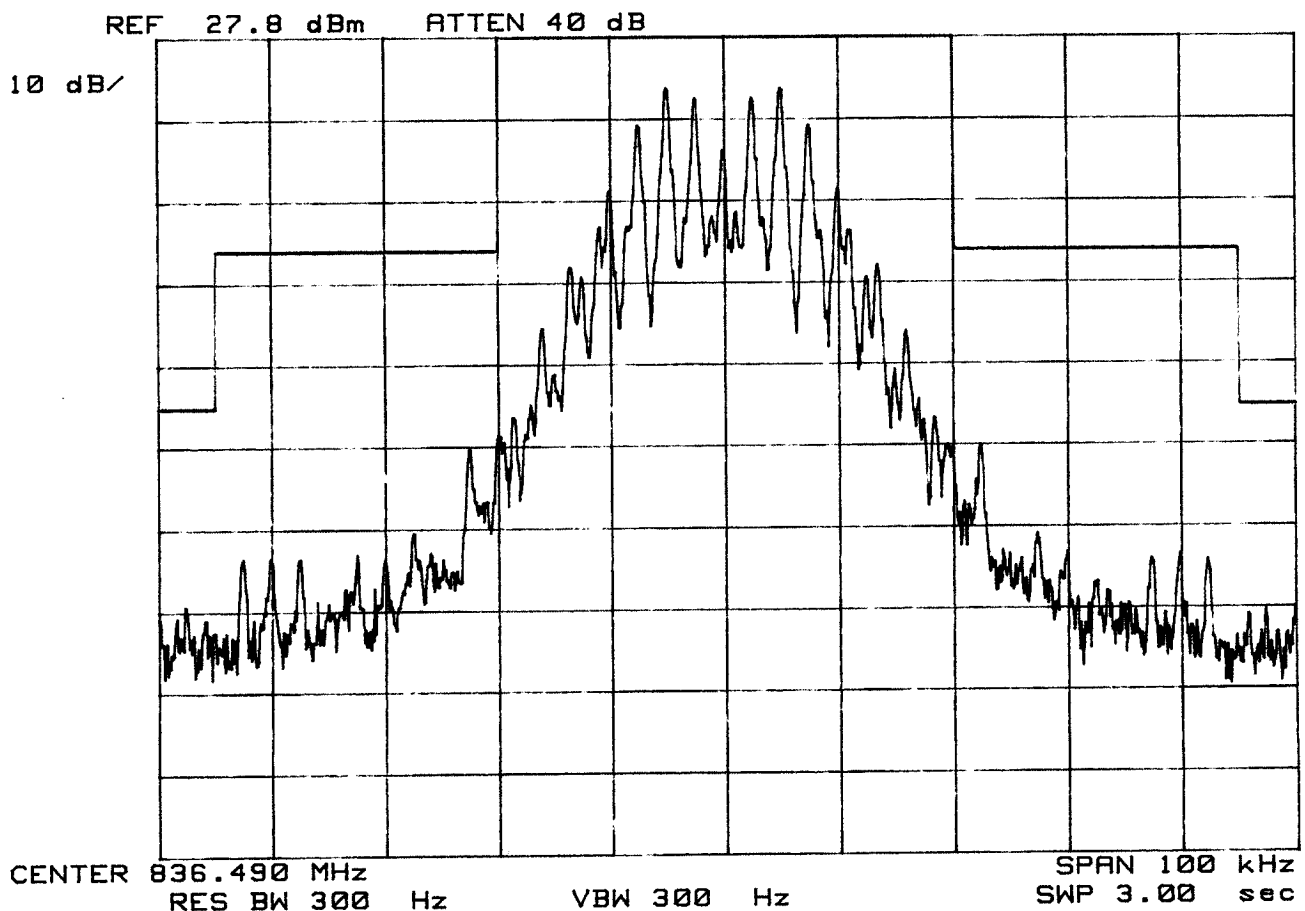


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID: CDM810
TRI-MODE DATA MODEM
FM MODE
CH-0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode: SAT + Voice

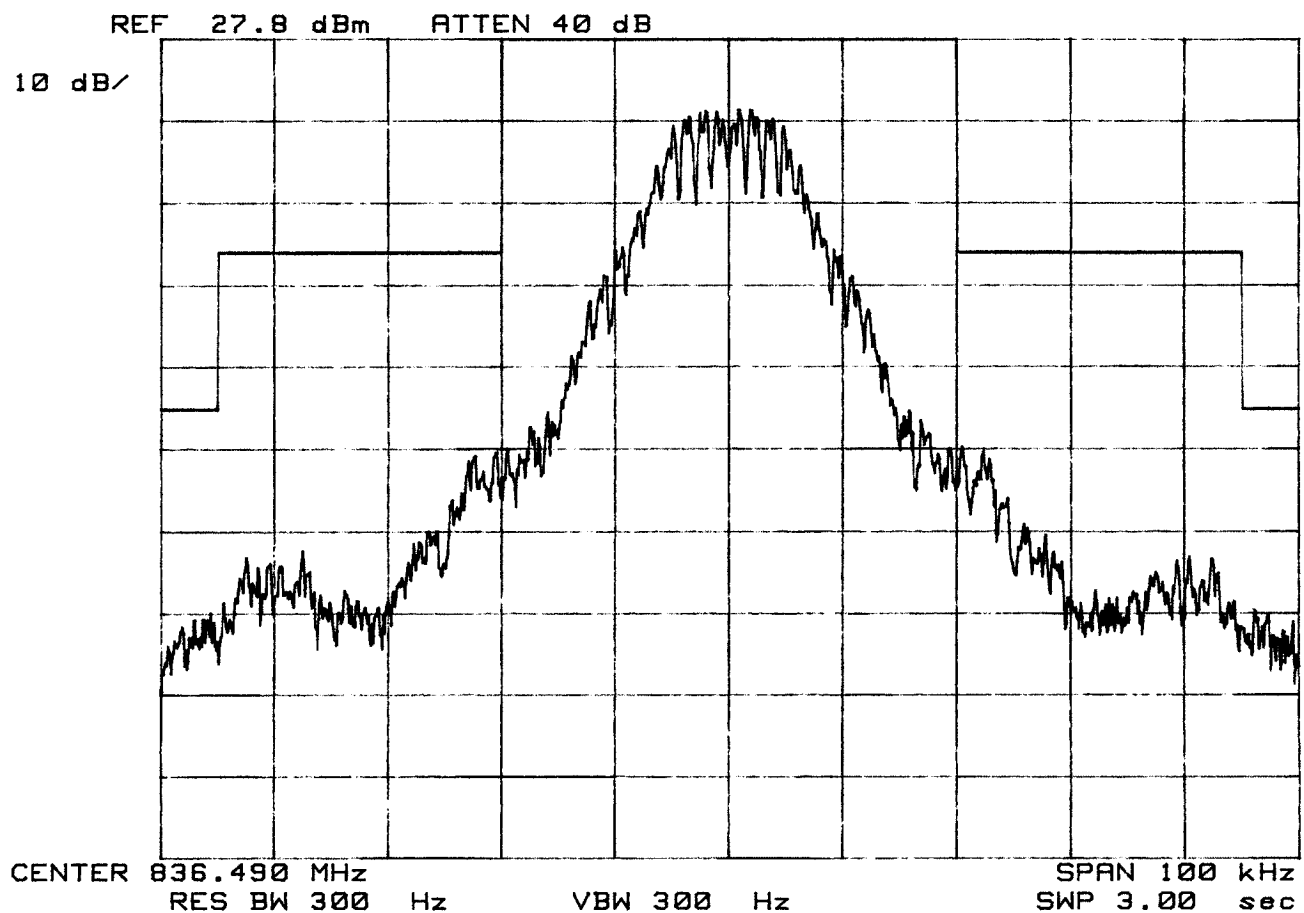


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID: CDM810
TRI-MODE DATA MODEM
FM MODE
CH-0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode: SAT + DTMF

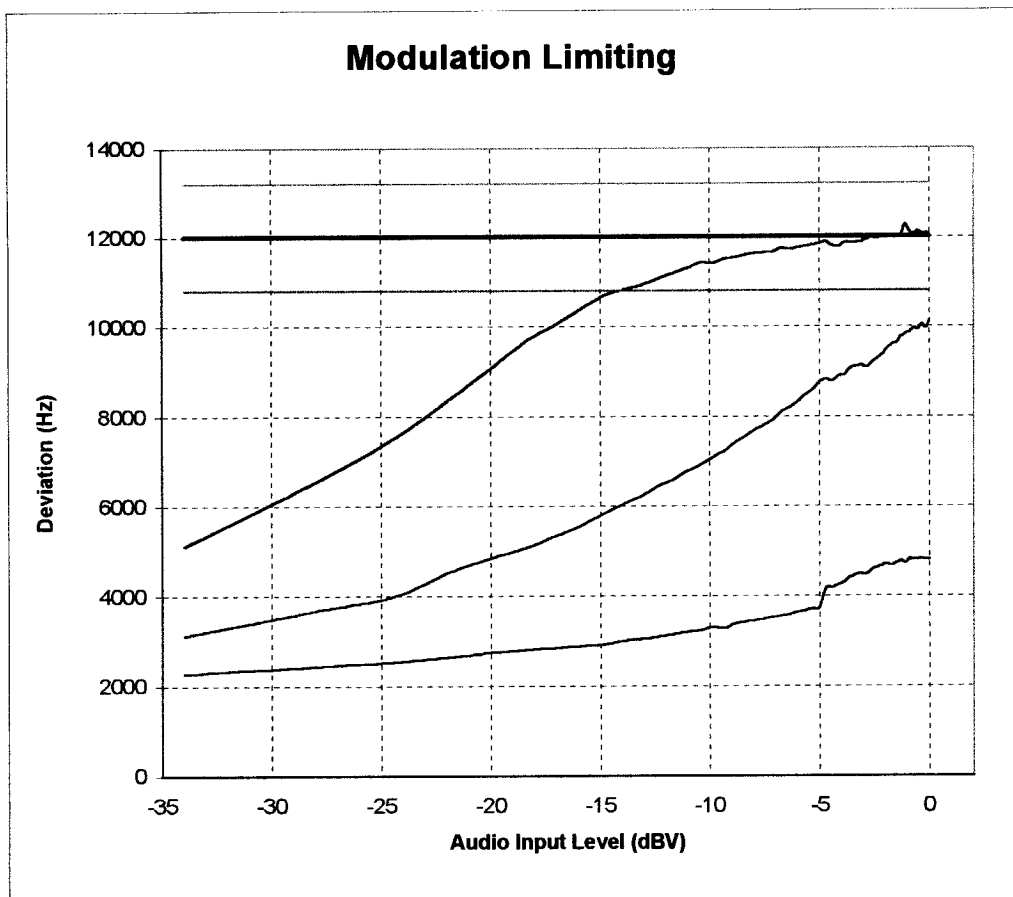


SUBJECT: Modulation Characteristics
FCC Part 24/22

Test Report No.: 24/22.210319160.PJ2
Test Date: 03.19.2001

EUT: SEMAX Tri-Mode Analog/PCS Wireless Data Modem (AMPS/CDMA)
Model: CDM-810
FCC ID: PJ2CDM810

REFERENCE: 1 kHz = 0 dB



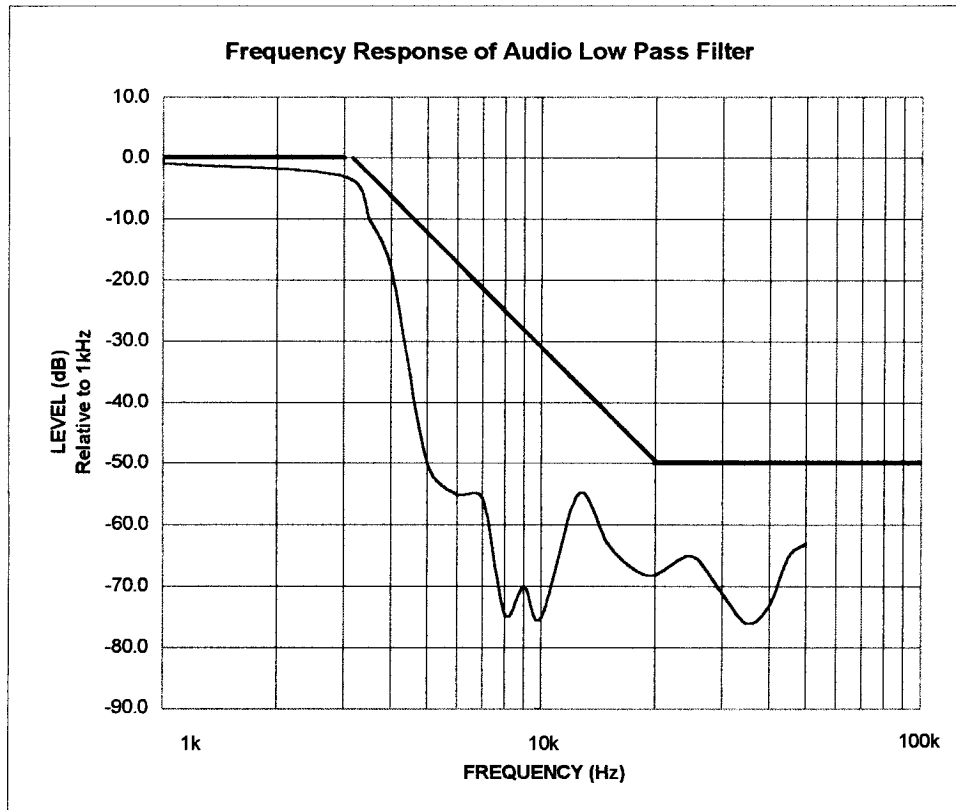
PCTEST Engineering Lab., Inc.

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