

ATTACHMENT D – TEST PLOTS

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:SEWON SWT-1000

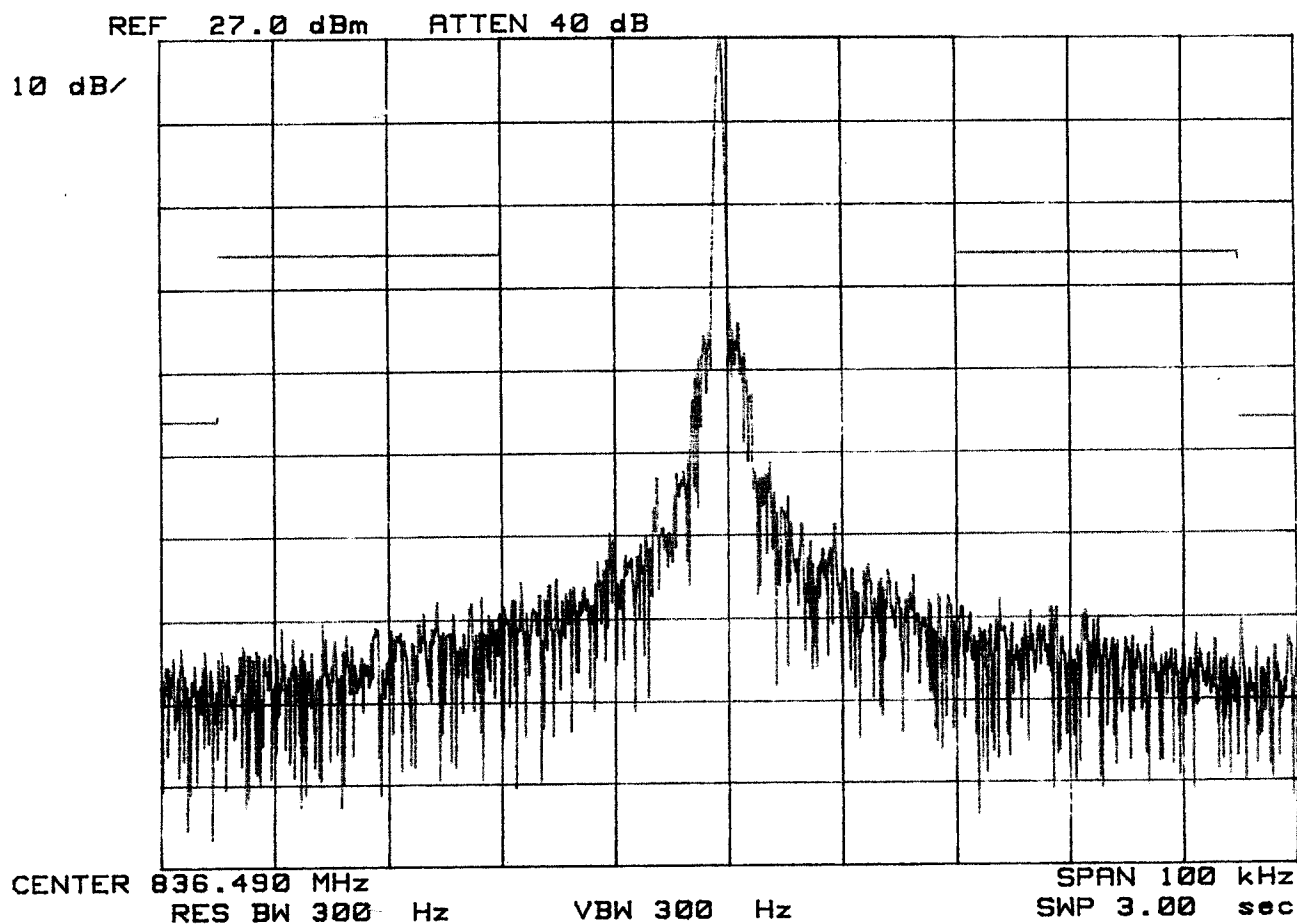
FM MODE

CHAN 383

Operating Frequency: 836.490 MHz

Output Power : 27.0 dBm

Test Mode:Unmodulated Signal



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:SEWON SWT-1000

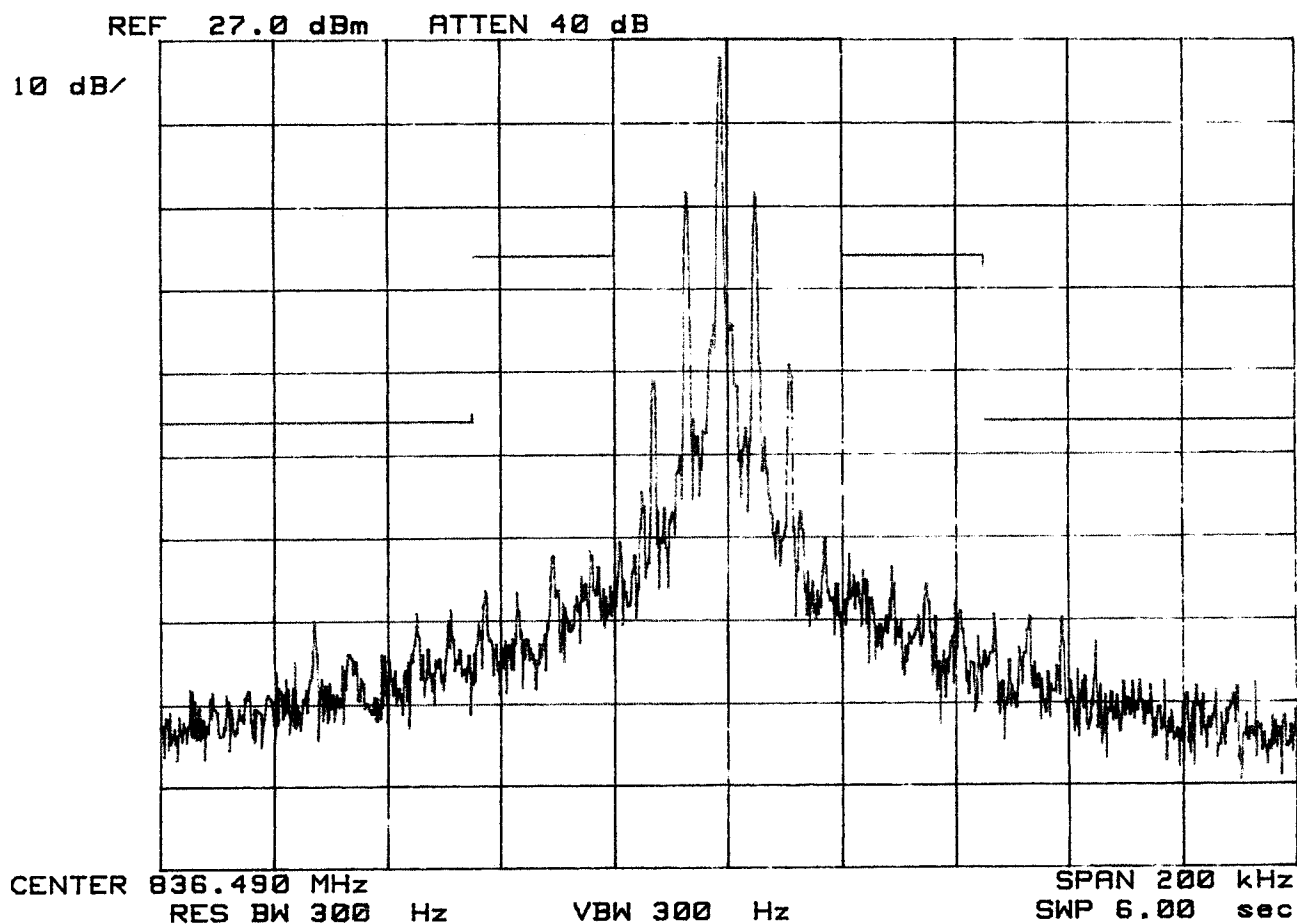
FM MODE

CHAN 383

Operating Frequency: 836.490 MHz

Output Power : 27.0 dBm

Test Mode:SAT



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:SEWON SWT-1000

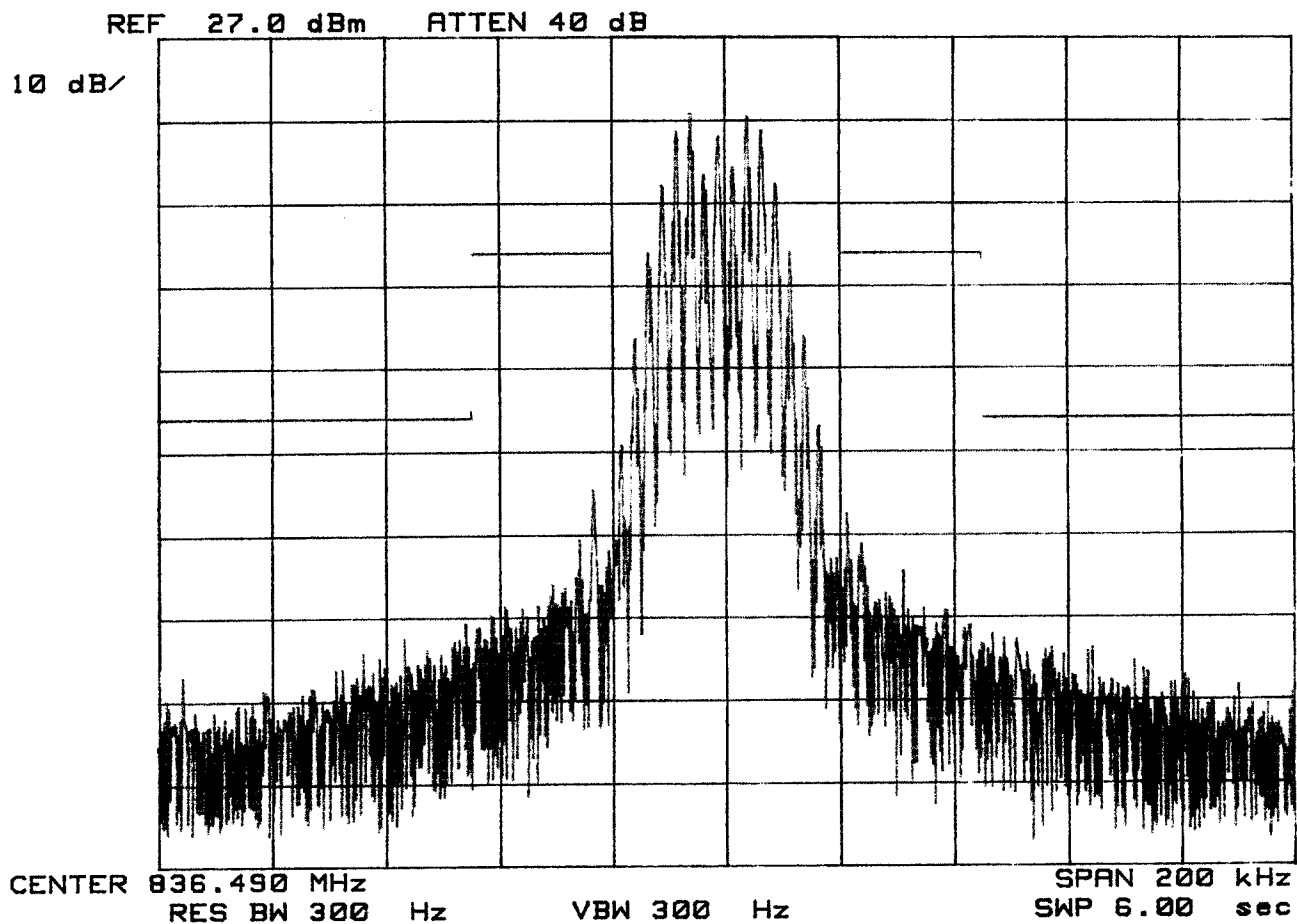
FM MODE

CHAN 383

Operating Frequency: 836.490 MHz

Output Power : 27.0 dBm

Test Mode:Voice



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:SEWON SWT-1000

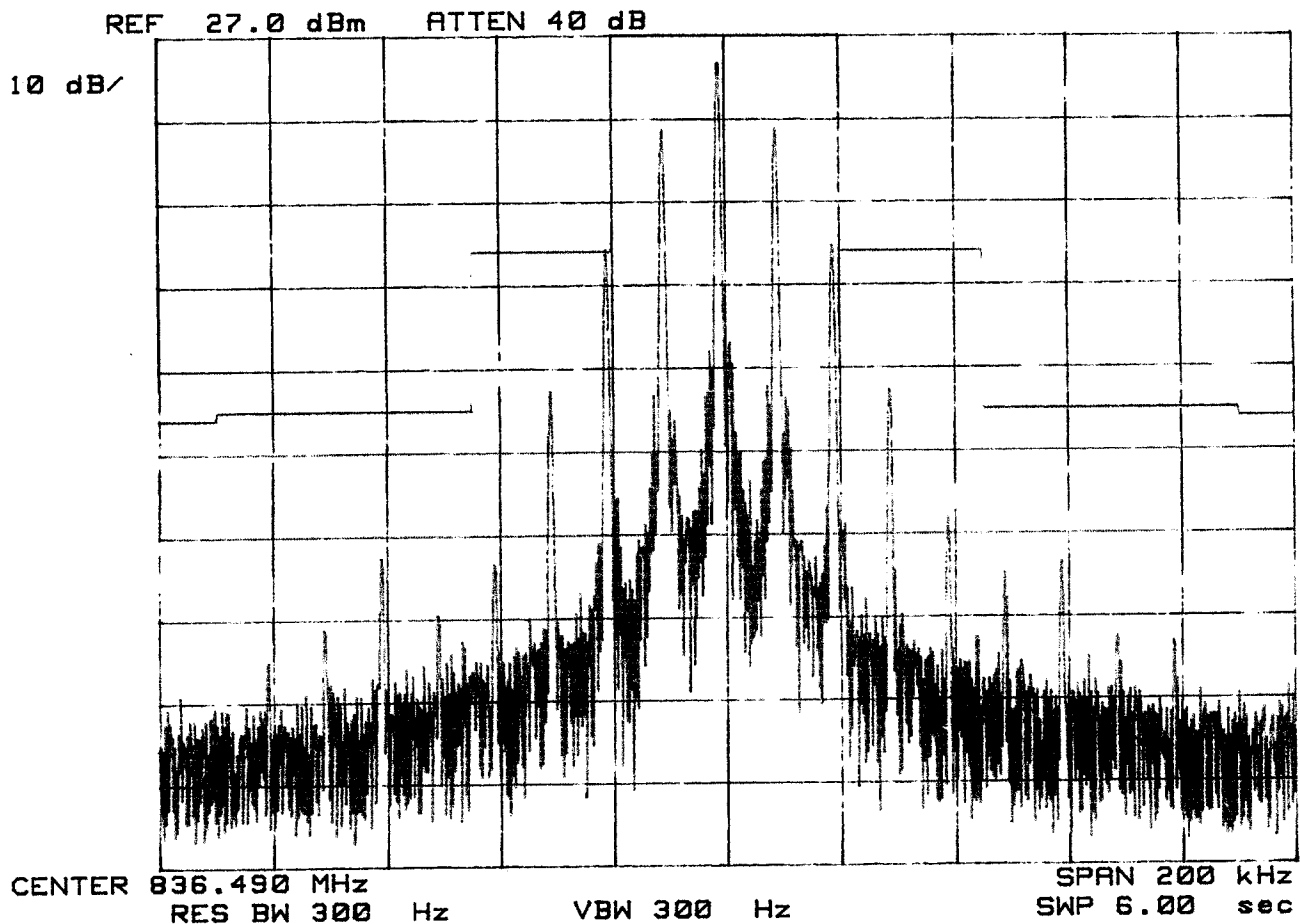
FM MODE

CHAN 383

Operating Frequency: 836.490 MHz

Output Power : 27.0 dBm

Test Mode:ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:SEWON SWT-1000

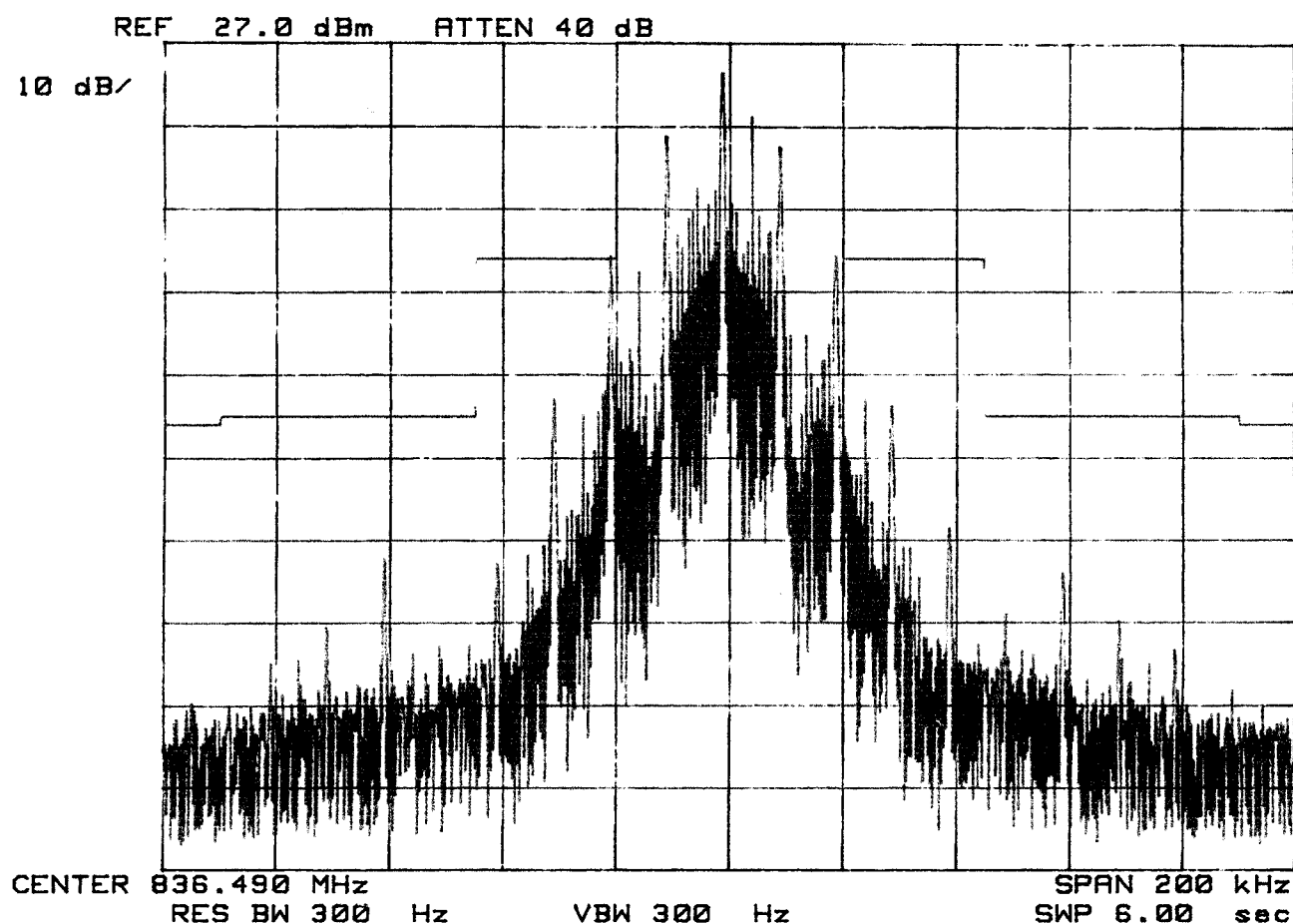
FM MODE

CHAN 383

Operating Frequency: 836.490 MHz

Output Power : 27.0 dBm

Test Mode:Wide Band Data



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:SEWON SWT-1000

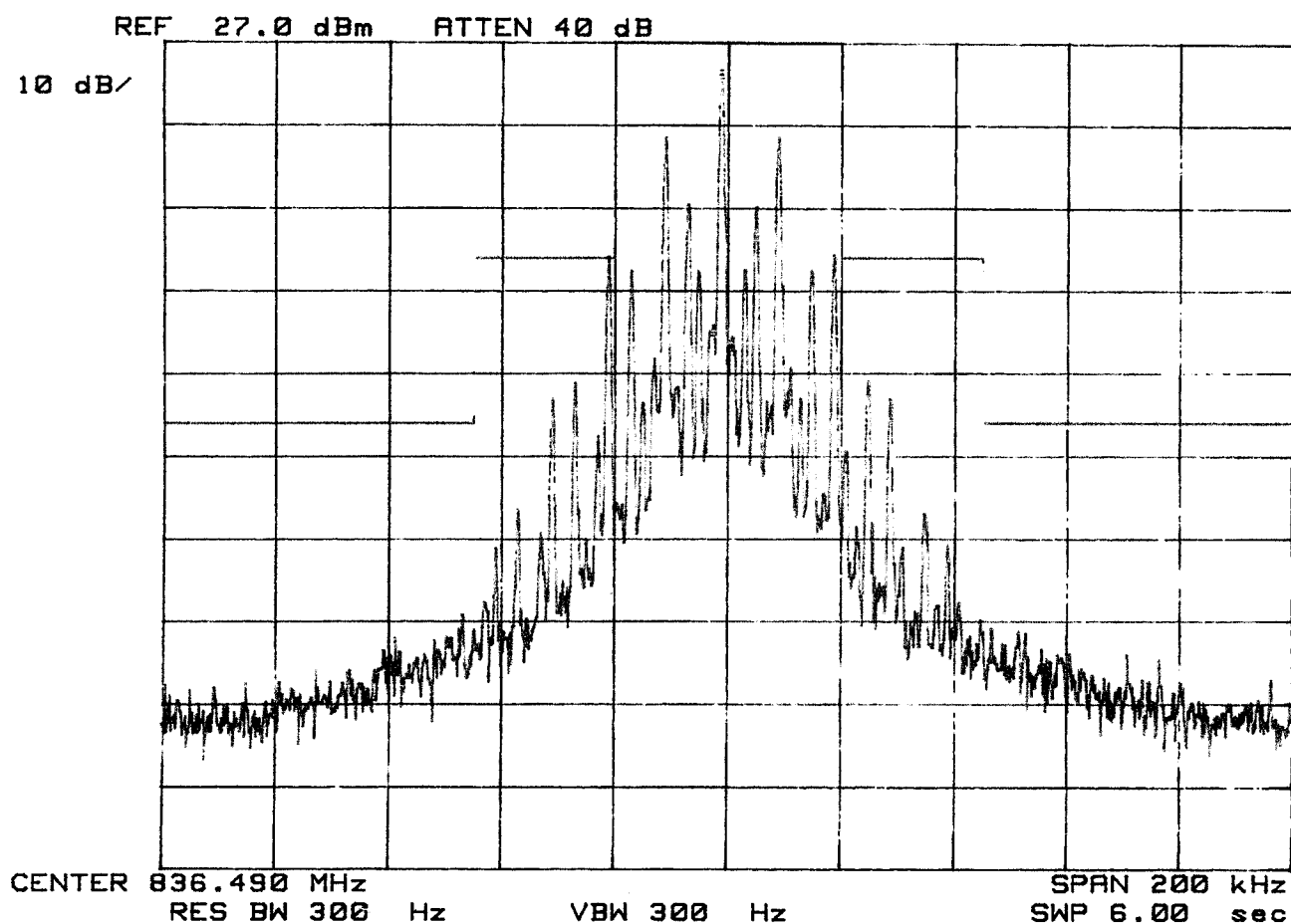
FM MODE

CHAN 383

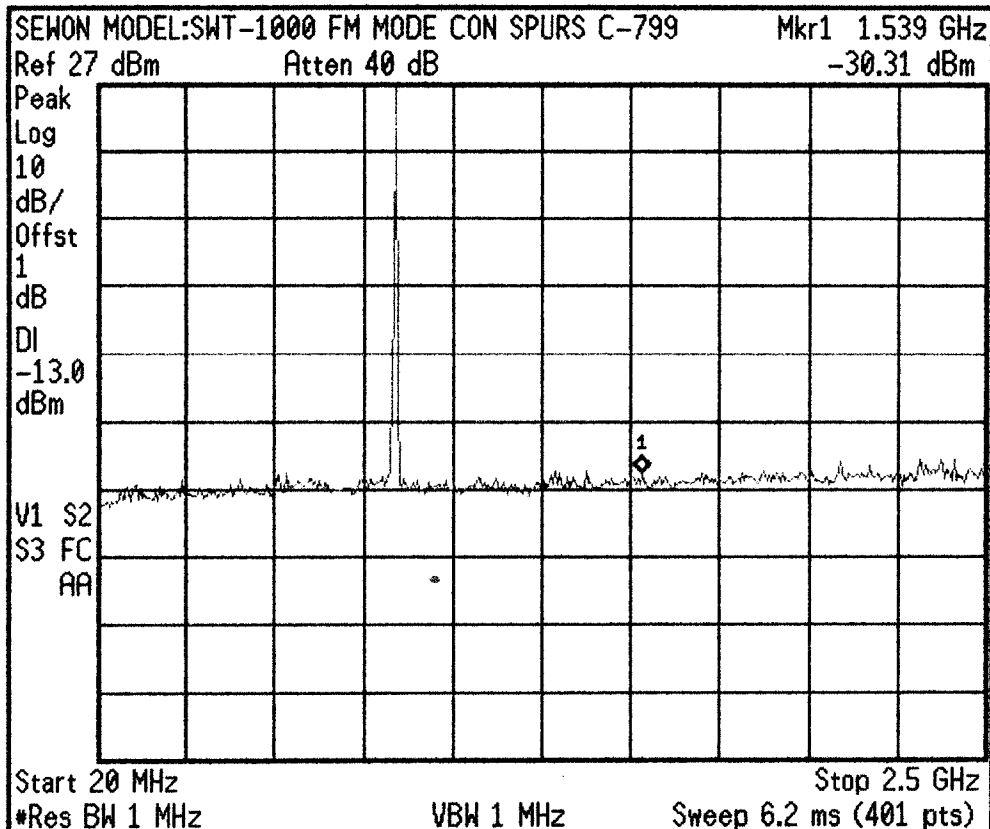
Operating Frequency: 836.490 MHz

Output Power : 27.0 dBm

Test Mode:SAT + ST



* Agilent 06:14:35 Jan 8, 2001



Freq/Channel

Center Freq
 1.26000000 GHz

Start Freq
 20.0000000 MHz

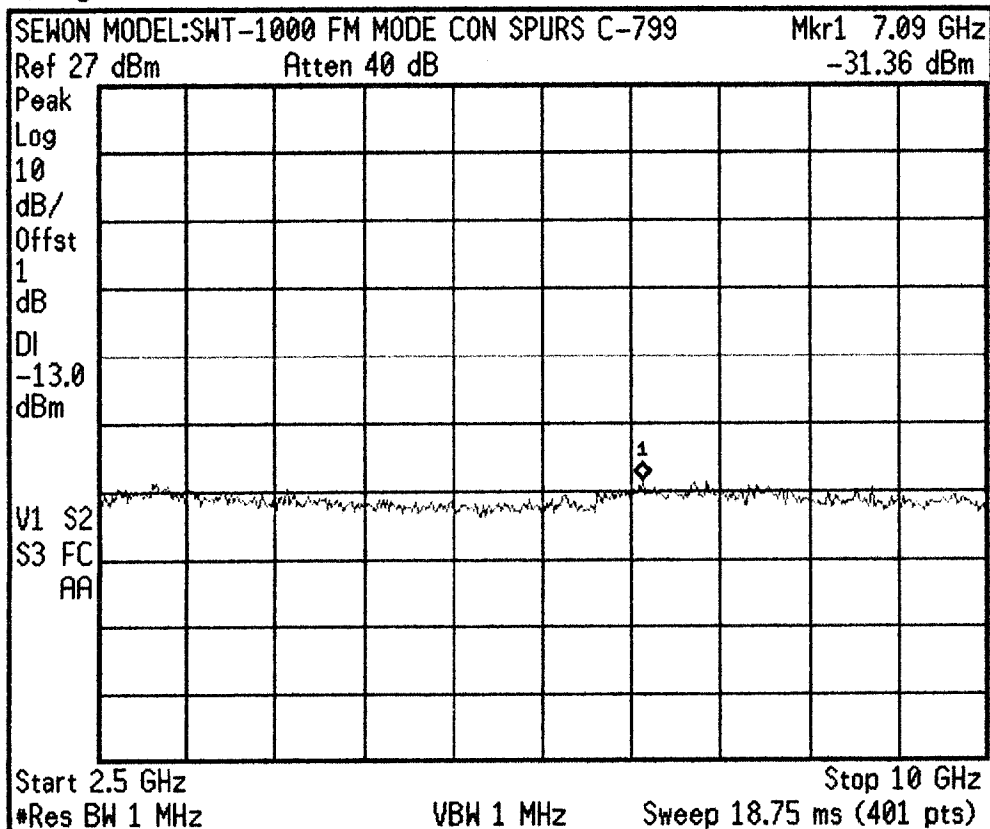
Stop Freq
 2.50000000 GHz

CF Step
 248.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:15:43 Jan 8, 2001



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

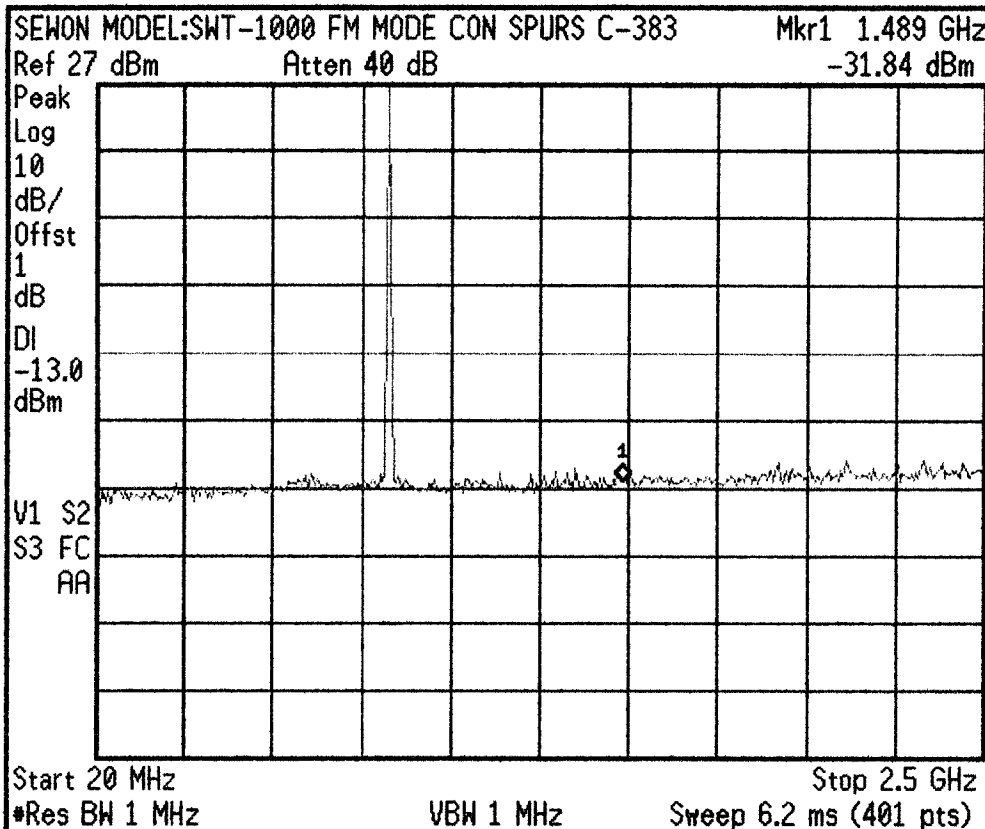
Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:12:12 Jan 8, 2001



Freq/Channel

Center Freq
 1.26000000 GHz

Start Freq
 20.0000000 MHz

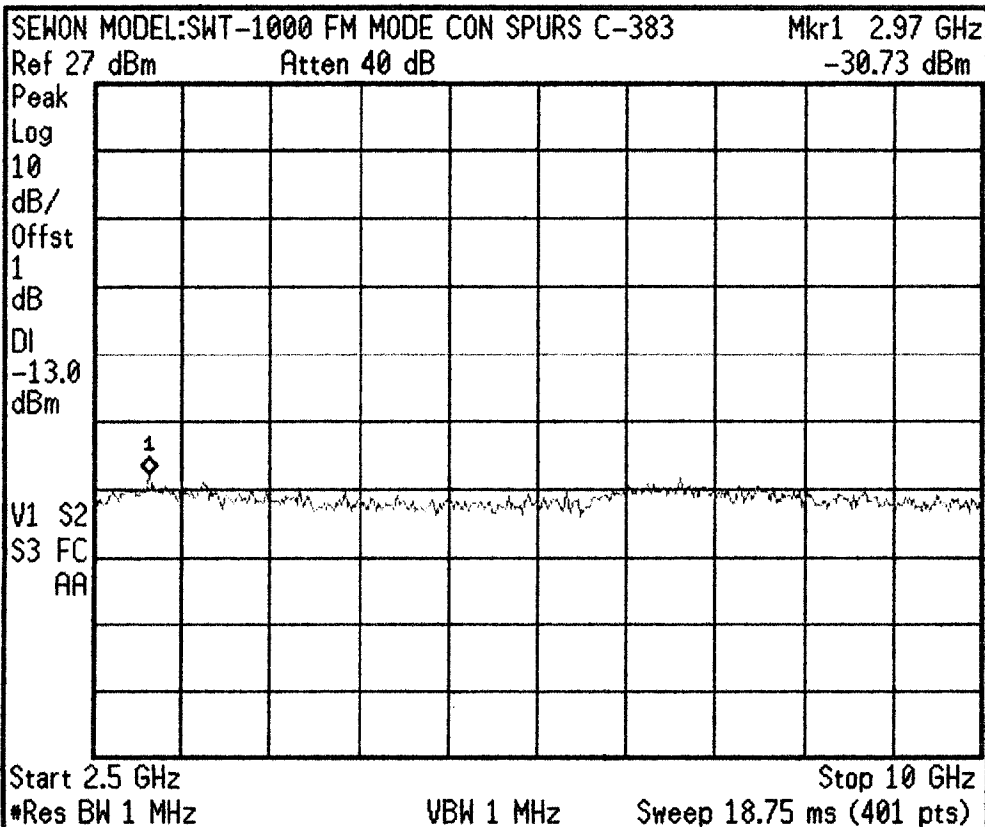
Stop Freq
 2.50000000 GHz

CF Step
 248.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:13:04 Jan 8, 2001



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

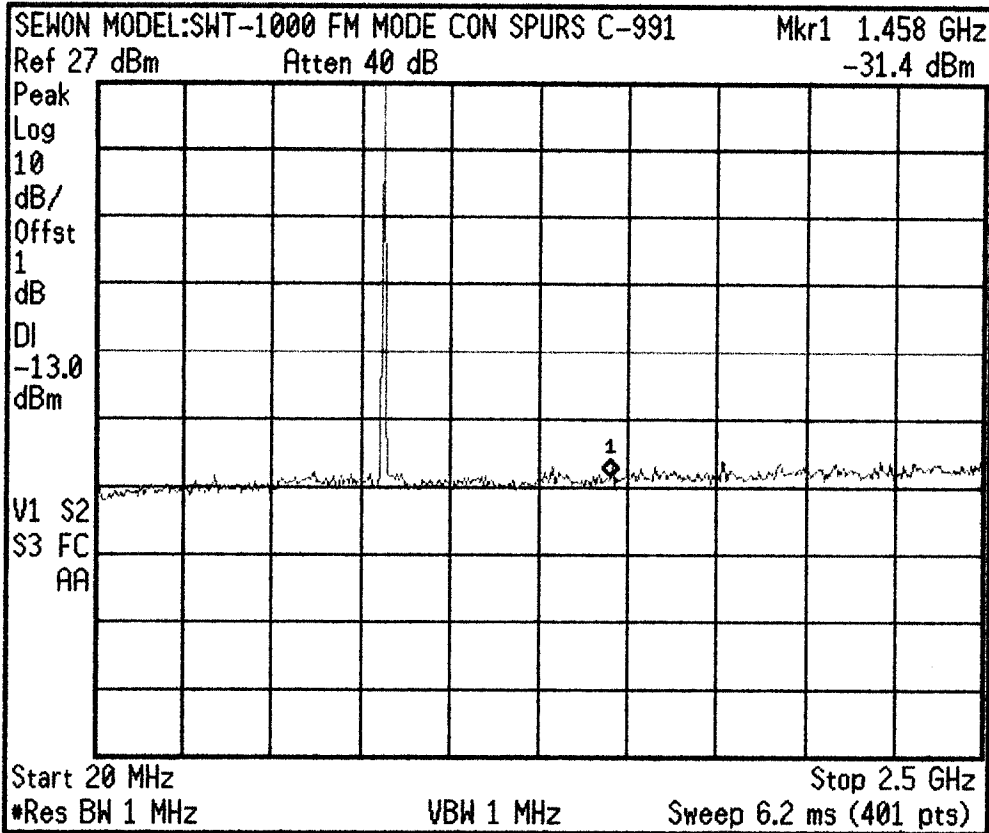
Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:08:35 Jan 8, 2001



Freq/Channel

Center Freq
 1.26000000 GHz

Start Freq
 20.0000000 MHz

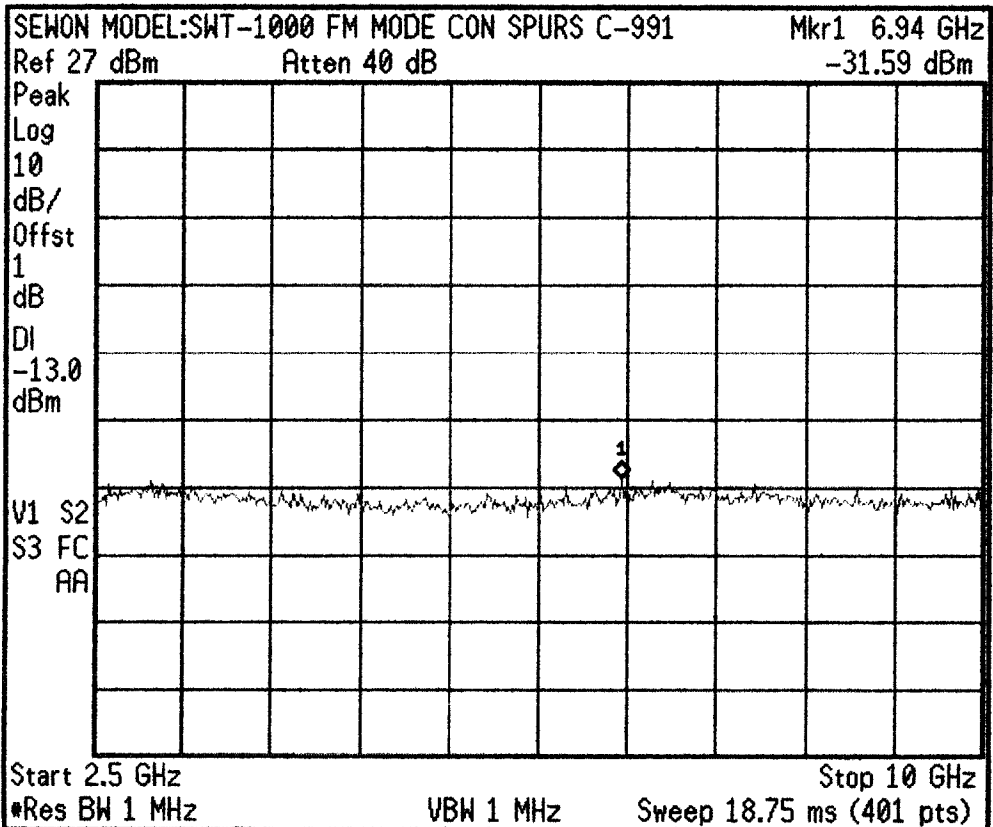
Stop Freq
 2.50000000 GHz

CF Step
 248.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:10:06 Jan 8, 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

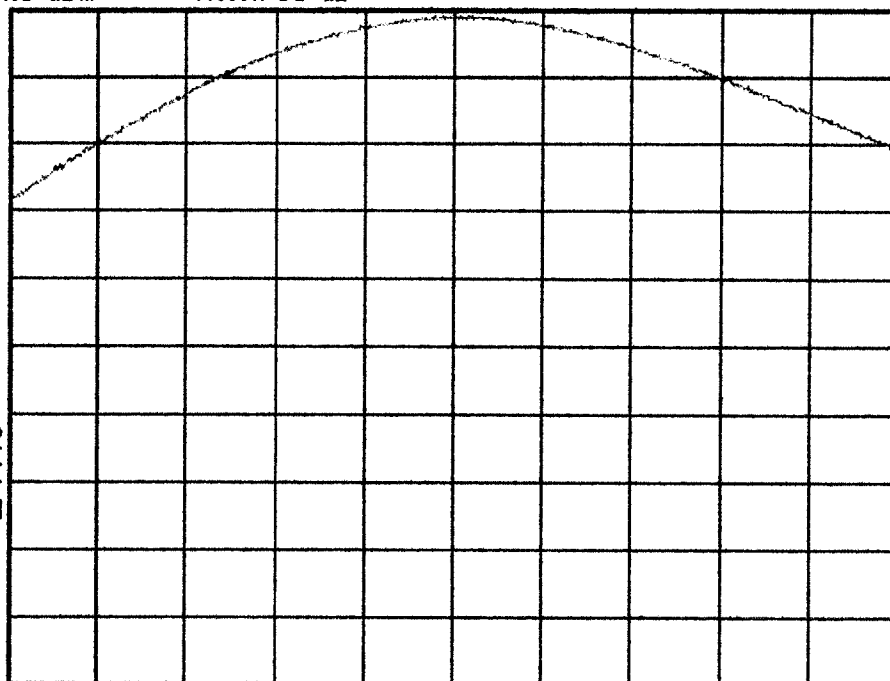
* Agilent 09:53:00 Jan 8, 2001

SEWON MODEL:SWT-1000 CDMA PWR OUT C-0777

Ref 24.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
1
dB

PAvg
100
W1 S2
S3 FC
AA



Center 848.3 MHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 9.98 ms (999 pts)

Marker

Select Marker

1 2 3 4

Normal

Delta

Band Pair

Start Stop

Span Pair

Span Center

Off

More

1 of 2

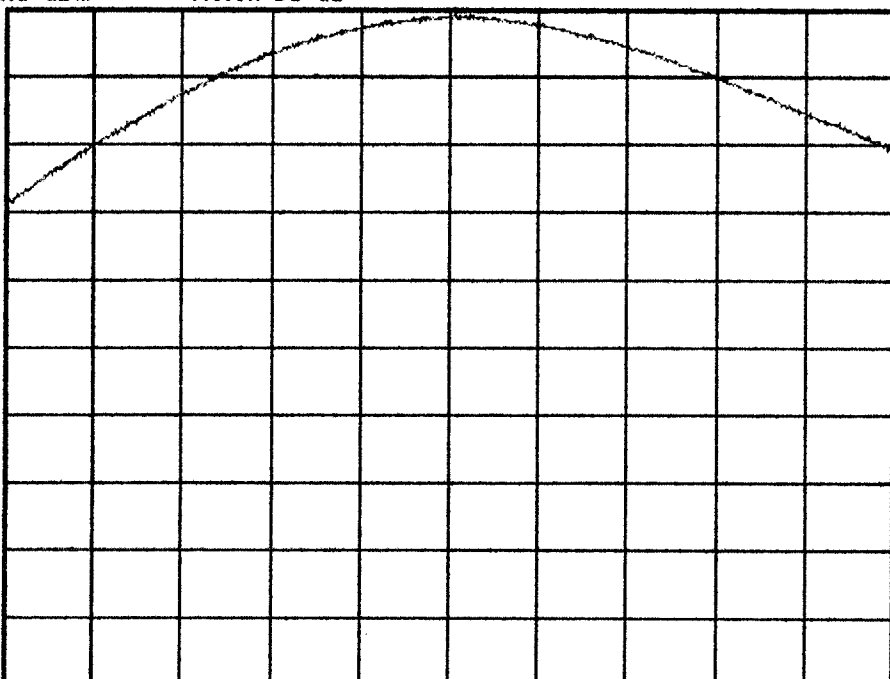
* Agilent 09:56:19 Jan 8, 2001

SEWON MODEL:SWT-1000 CDMA PWR OUT C-0383

Ref 24.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
1
dB

PAvg
100
W1 S2
S3 FC
AA



Center 836.5 MHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

836.490000 MHz

Start Freq

831.490000 MHz

Stop Freq

841.490000 MHz

CF Step

1.00000000 MHz

Auto Man

Freq Offset

0.00000000 Hz

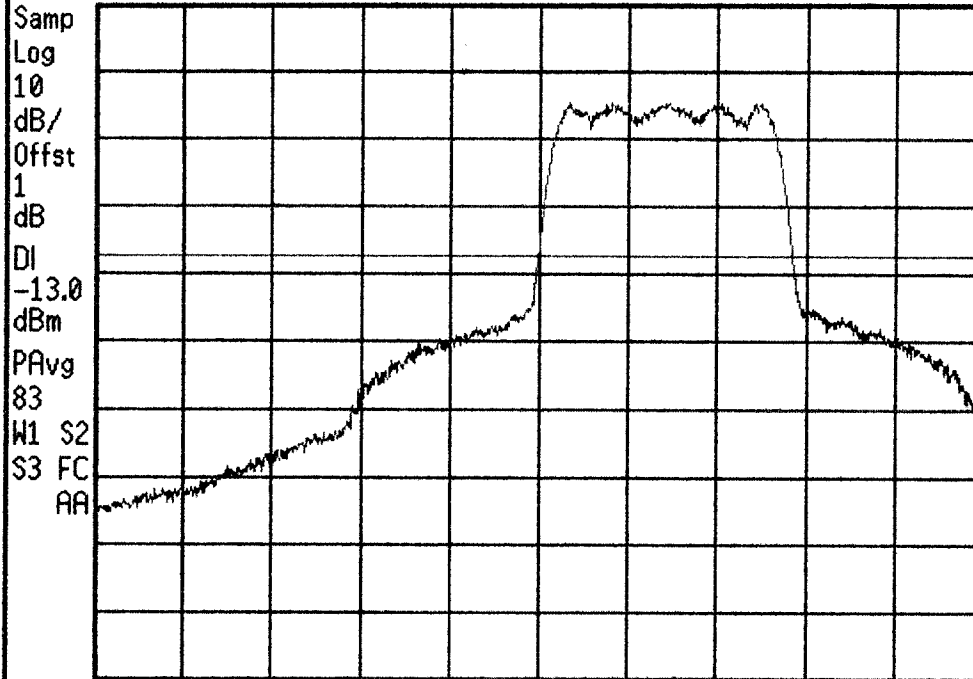
Signal Track

On Off

* Agilent 10:28:39 Jan 8, 2001

SEWON MODEL:SWT-1000 CDMA BAND EDGE C-1013

Ref 24.5 dBm Atten 35 dB



Center 824 MHz

Span 5 MHz

*Res BW 30 kHz

VBW 300 kHz

Sweep 12.08 ms (999 pts)

Freq/Channel

Center Freq
824.000000 MHz

Start Freq
821.500000 MHz

Stop Freq
826.500000 MHz

CF Step
1.00000000 MHz
Auto Man

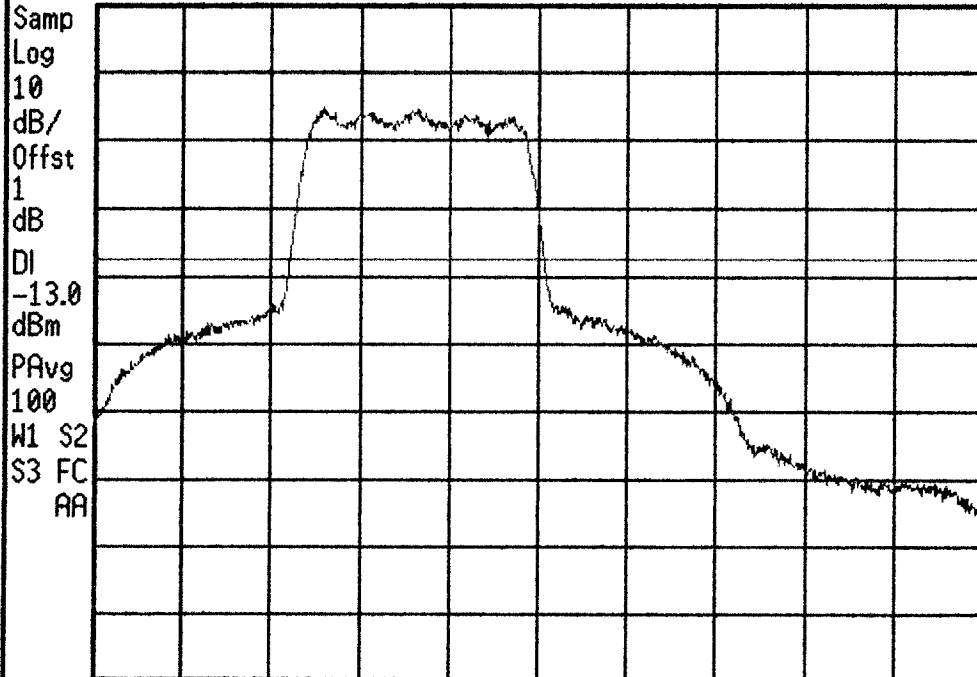
Freq Offset
0.00000000 Hz

Signal Track
On Off

* Agilent 10:31:12 Jan 8, 2001

SEWON MODEL:SWT-1000 CDMA BAND EDGE C-0777

Ref 24.5 dBm Atten 35 dB



Center 849 MHz

Span 5 MHz

*Res BW 30 kHz

VBW 300 kHz

Sweep 12.08 ms (999 pts)

Freq/Channel

Center Freq
849.000000 MHz

Start Freq
846.500000 MHz

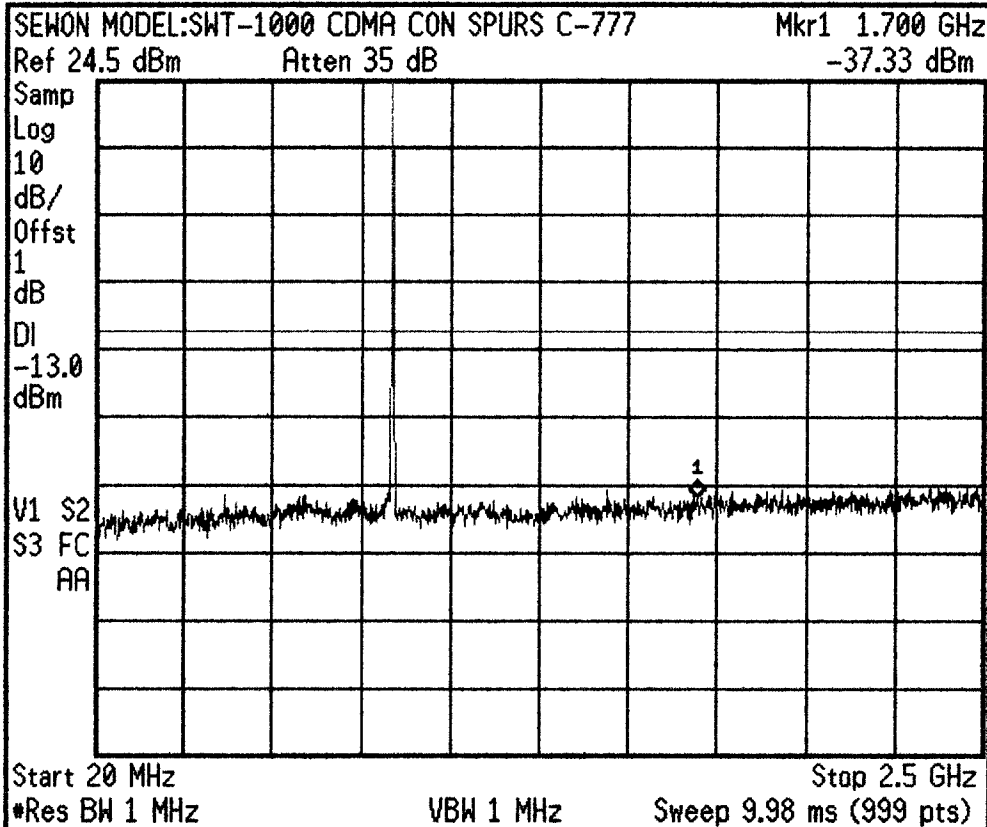
Stop Freq
851.500000 MHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

* Agilent 09:45:51 Jan 8, 2001



Freq/Channel

Center Freq
 1.26000000 GHz

Start Freq
 20.0000000 MHz

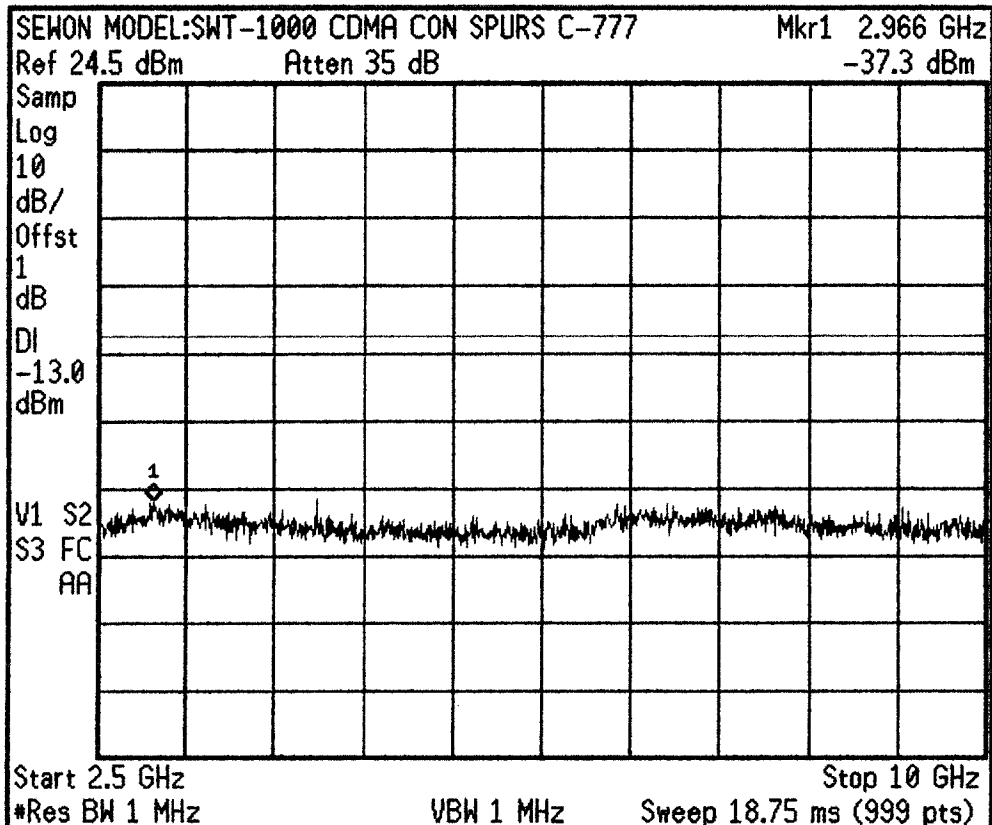
Stop Freq
 2.50000000 GHz

CF Step
 1.00000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 09:46:52 Jan 8, 2001



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

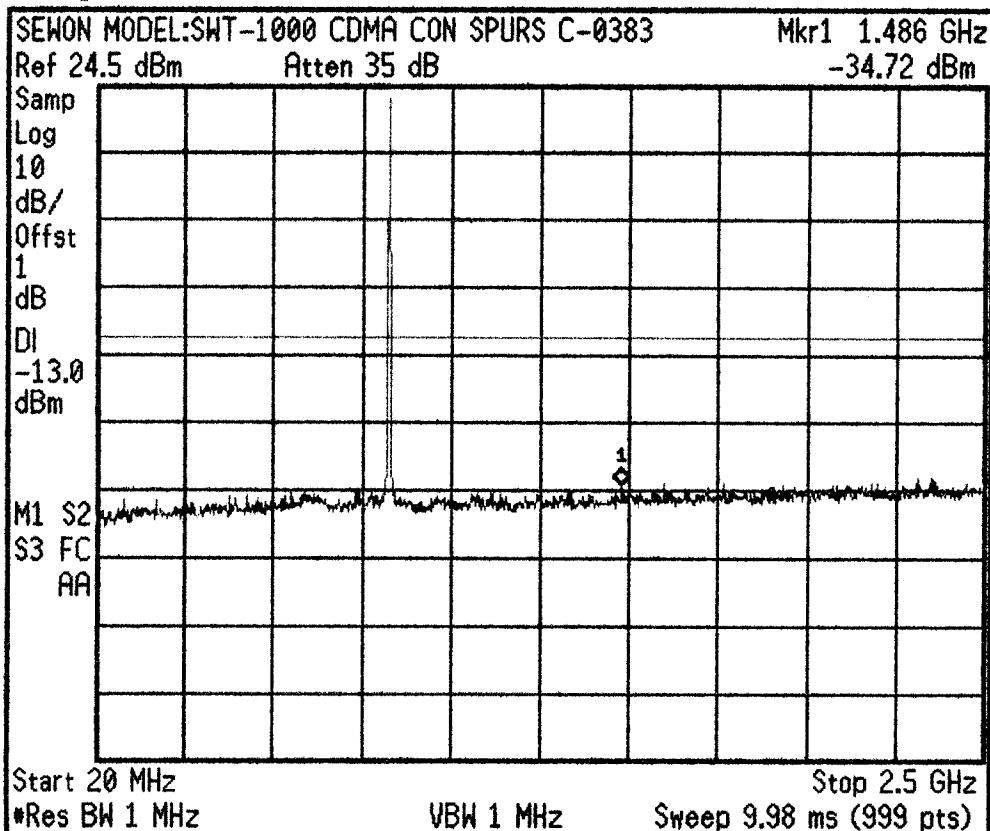
Stop Freq
 10.0000000 GHz

CF Step
 1.00000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 09:43:20 Jan 8, 2001



Freq/Channel

Center Freq
 1.26000000 GHz

Start Freq
 20.0000000 MHz

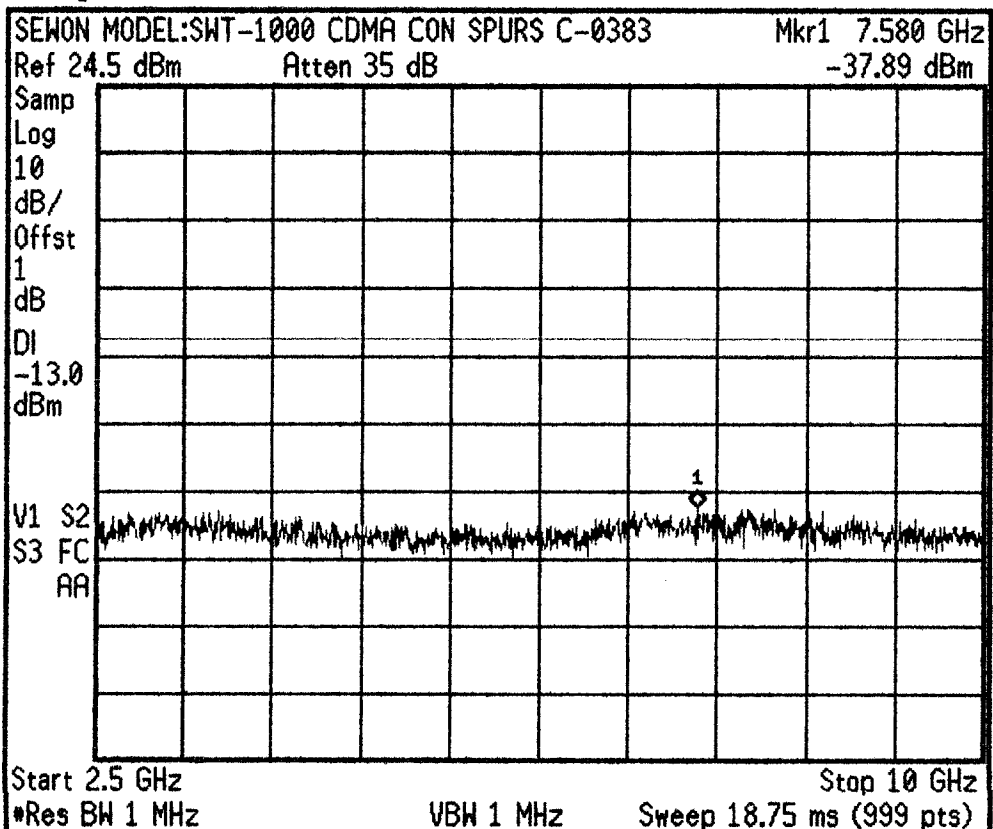
Stop Freq
 2.50000000 GHz

CF Step
 1.00000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 09:44:09 Jan 8, 2001



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

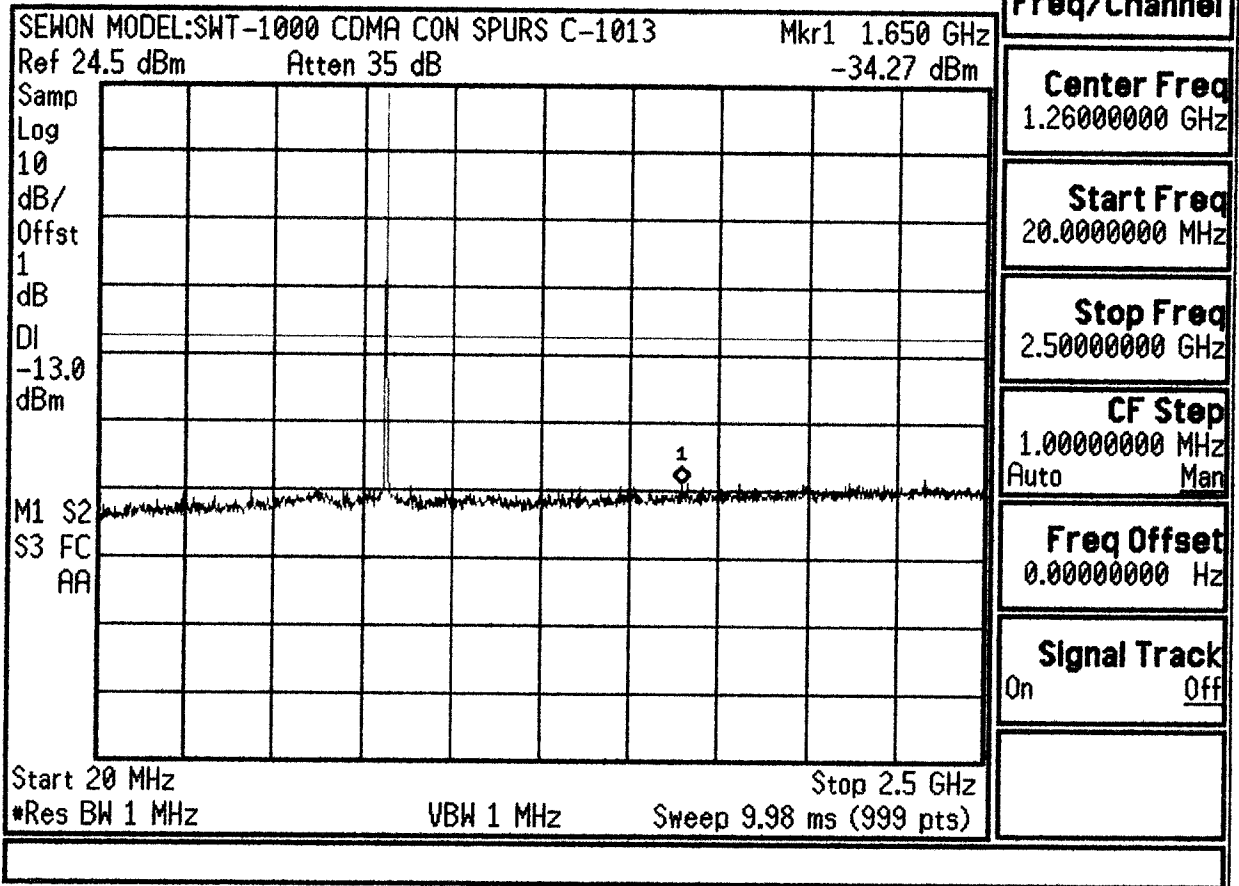
Stop Freq
 10.0000000 GHz

CF Step
 1.00000000 MHz
 Auto Man

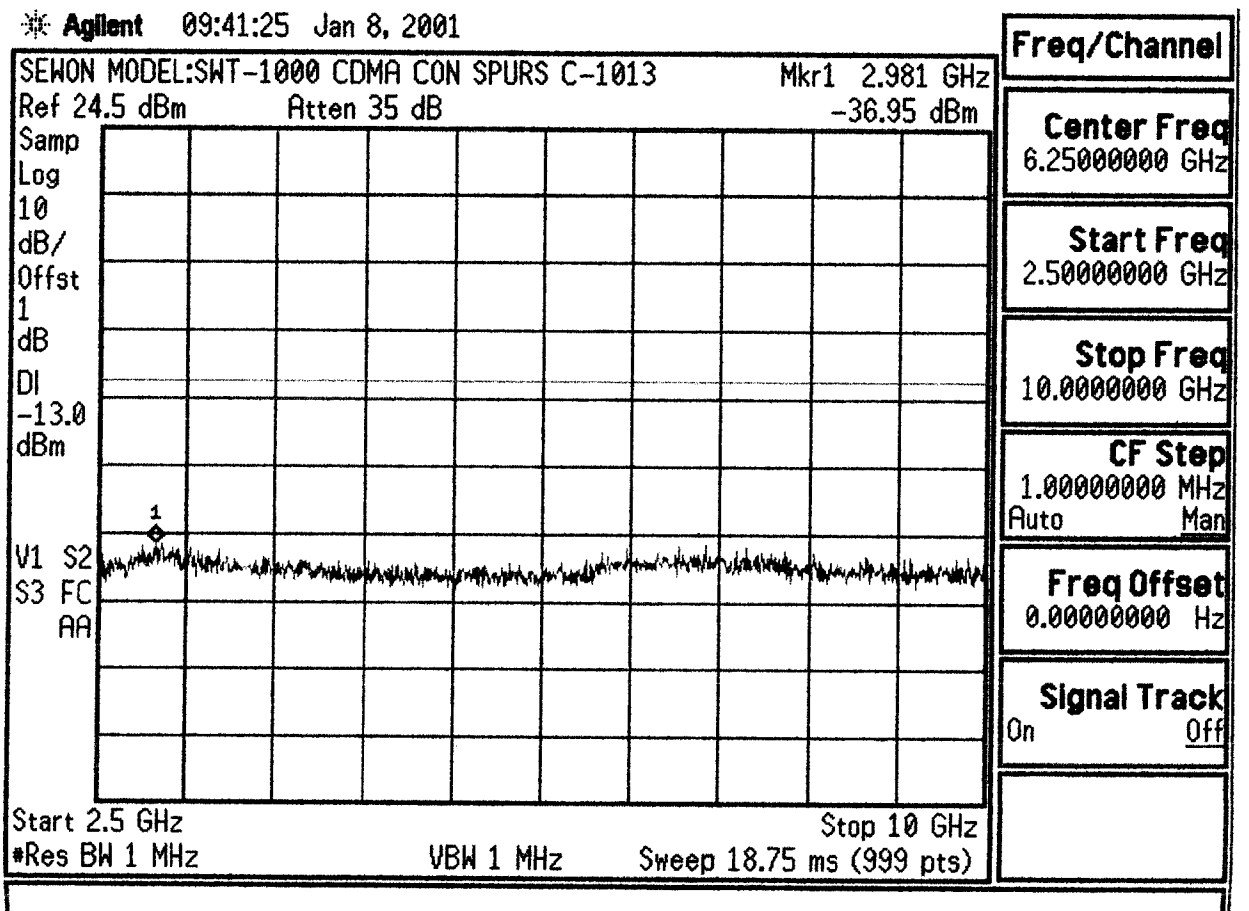
Freq Offset
 0.00000000 Hz

Signal Track
 On Off

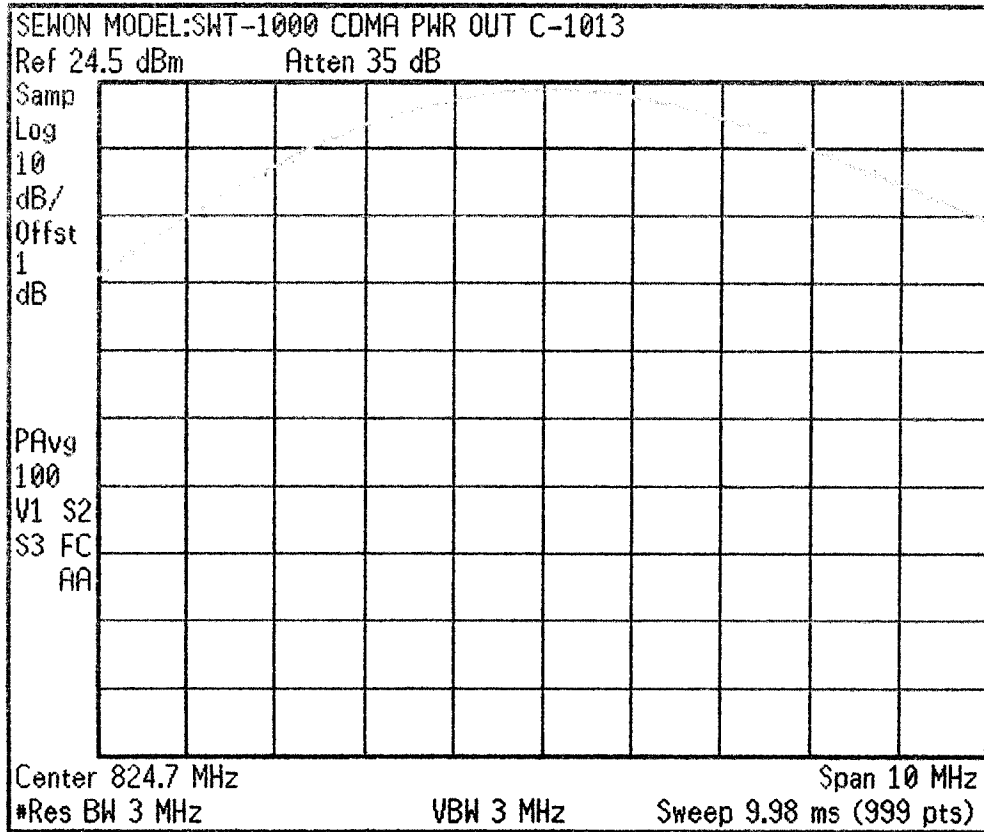
* Agilent 09:40:12 Jan 8, 2001



* Agilent 09:41:25 Jan 8, 2001



* Agilent 10:01:59 Jan 8, 2001



Freq/Channel

Center Freq
 824.700000 MHz

Start Freq
 819.700000 MHz

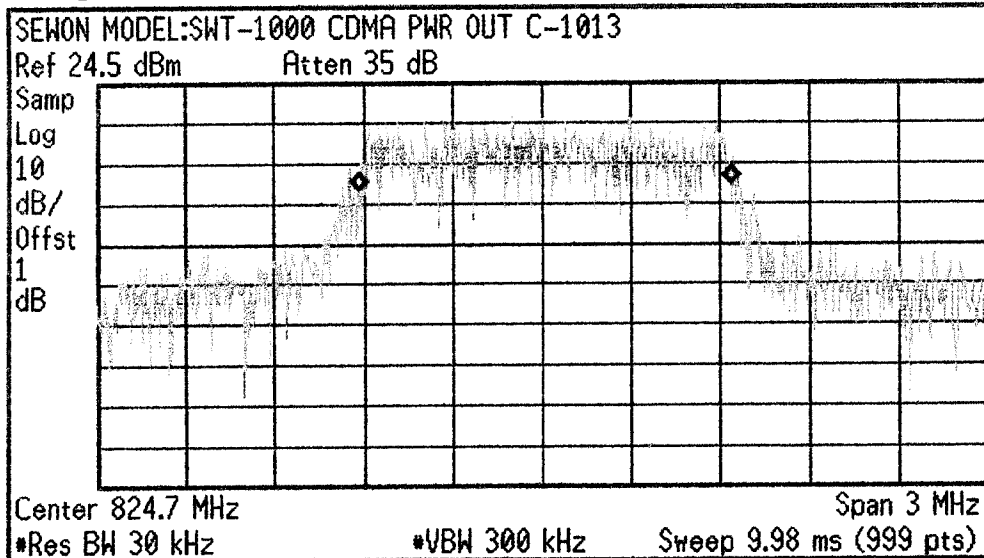
Stop Freq
 829.700000 MHz

CF Step
 1.00000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 10:15:47 Jan 8, 2001



Measure

Meas Off

ACP

Channel Power

Occupied BW

Emission BW

Harmonic Dist

Occupied Bandwidth Results (idle)

Occupied Bandwidth
 1.252 MHz

Occ BW % Pwr 99.00 %

Transmit Freq Error 7.396 kHz

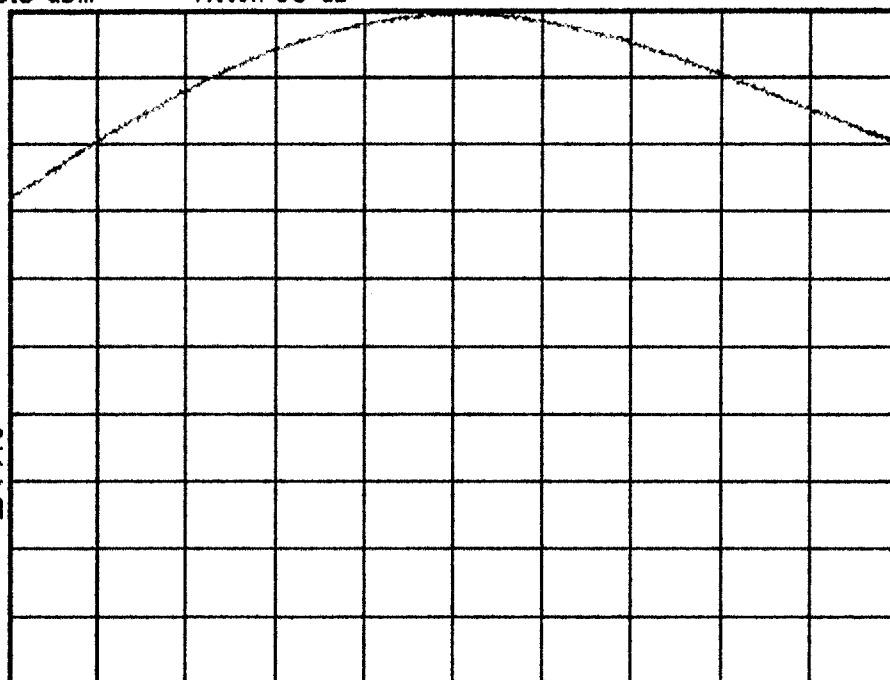
* Agilent 06:36:30 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS PWR OUT C-1175

Ref 23.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2
dB

PAvg
100
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
1.90875000 GHz

Start Freq
1.90375000 GHz

Stop Freq
1.91375000 GHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

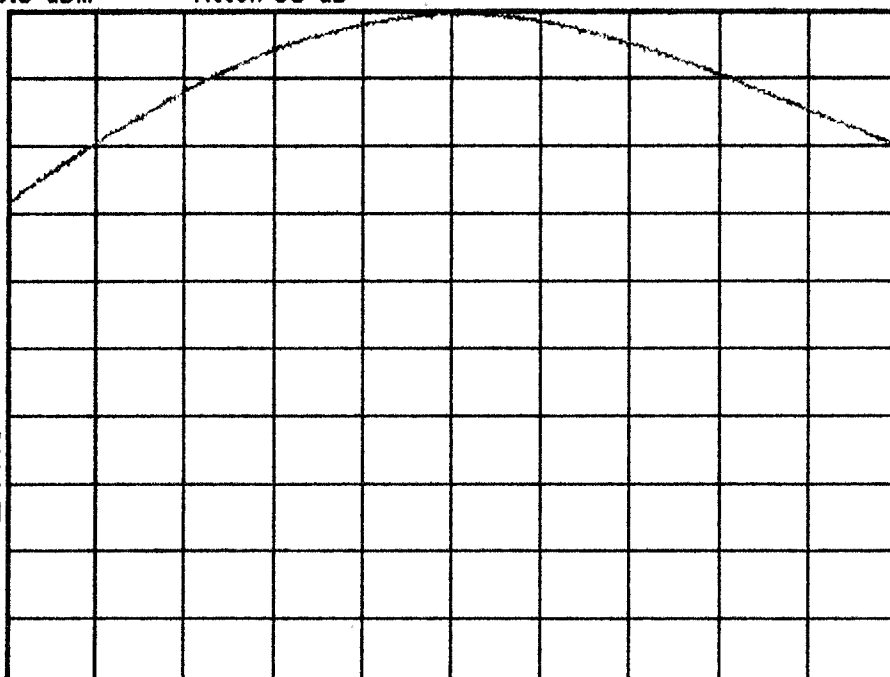
* Agilent 06:39:43 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS PWR OUT C-0600

Ref 23.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2
dB

PAvg
100
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

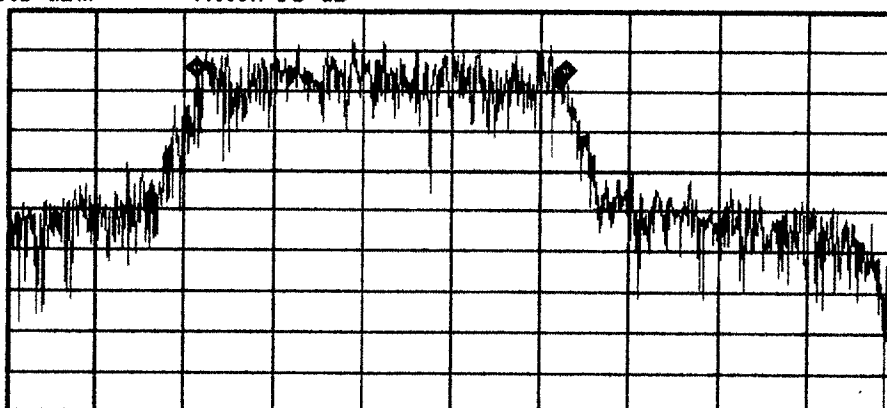
Signal Track
On Off

* Agilent 09:21:33 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS C-0025

Ref 23.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2
dB



Center 1.851 GHz

Span 3 MHz

*Res BW 30 kHz

*VBW 300 kHz

Sweep 9.98 ms (999 pts)

Occupied Bandwidth Results (Idle)

Occupied Bandwidth

Occ BW % Pwr 99.00 %

1.251 MHz

Transmit Freq Error -239.8 kHz

Display

Full Screen

Display Line

-13.00 dBm

On

Off

Limits

Title

Preferences

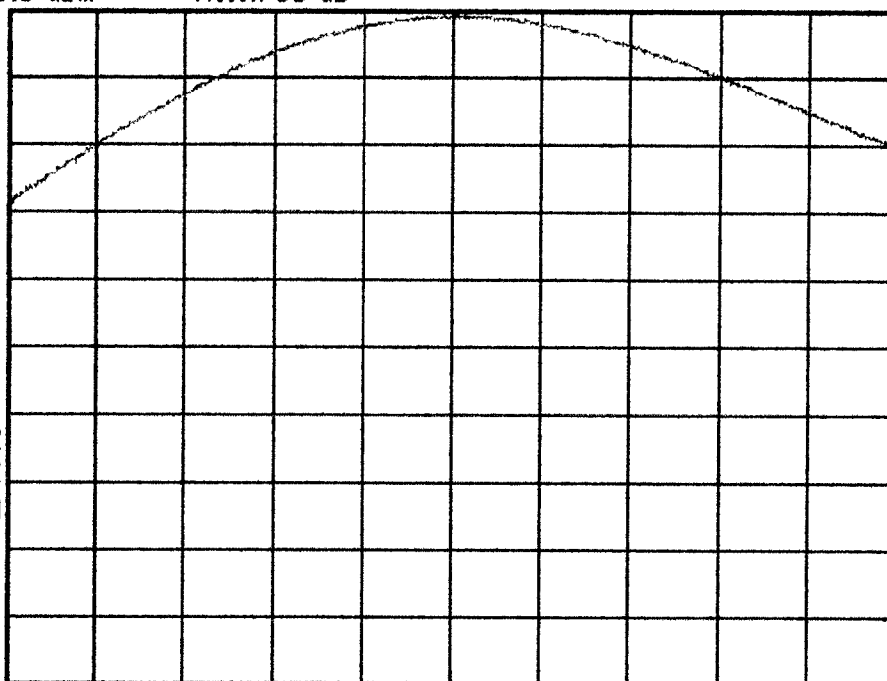
Agilent 06:44:18 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS PWR OUT C-0025

Ref 23.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2
dB

PAvg
100
V1 S2
S3 FC
AA



Center 1.851 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz
Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq
1.85125000 GHz

Start Freq
1.84625000 GHz

Stop Freq
1.85625000 GHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

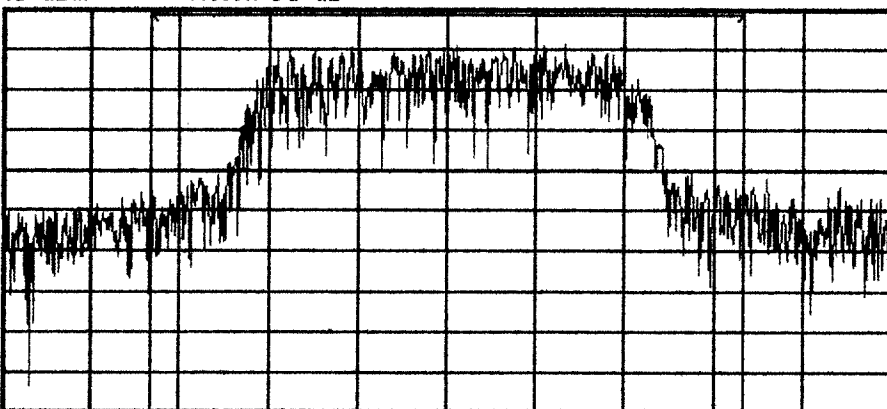
Signal Track
On Off

Agilent 06:45:23 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS PWR OUT C-0025

Ref 23.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2
dB



Center 1.851 GHz

*Res BW 30 kHz

*VBW 300 kHz

Span 3 MHz
Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq
1.85125000 GHz

Start Freq
1.84975000 GHz

Stop Freq
1.85275000 GHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Channel Power Results (Idle)

Channel Power
23.52 dBm

Integration BW 2.000 MHz

Density -39.49 dBm/Hz

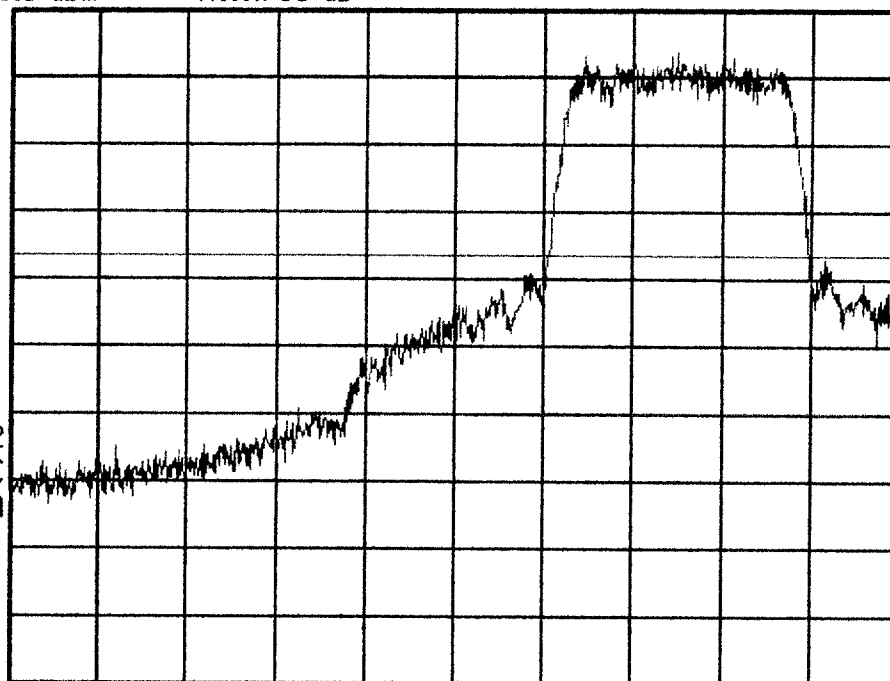
* Agilent 06:47:19 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS BAND EDGE C-0025

Ref 23.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2
dB
DI
-13.0
dBm

V1 S2
S3 FC
AA



Center 1.85 GHz

*Res BW 30 kHz

VBW 30 kHz

Span 5 MHz
Sweep 13.89 ms (999 pts)

Freq/Channel

Center Freq

1.8500000 GHz

Start Freq

1.8475000 GHz

Stop Freq

1.8525000 GHz

CF Step

500.000000 kHz

Auto

Man

Freq Offset

0.0000000 Hz

Signal Track

On

Off

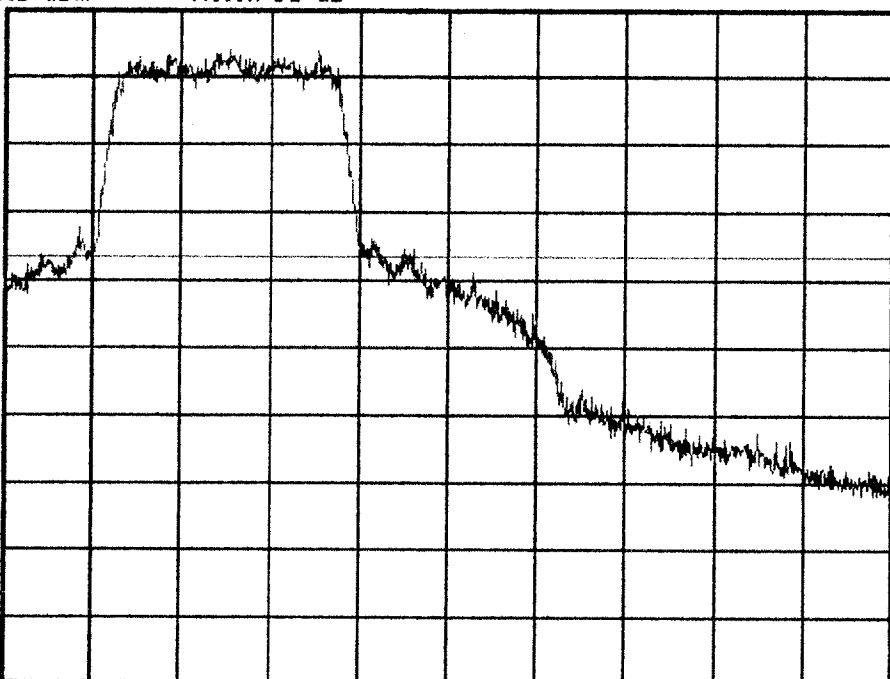
* Agilent 06:49:21 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS BAND EDGE C-1175

Ref 23.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2
dB
DI
-13.0
dBm

V1 S2
S3 FC
AA



Center 1.91 GHz

*Res BW 30 kHz

VBW 30 kHz

Span 5 MHz
Sweep 13.89 ms (999 pts)

Freq/Channel

Center Freq

1.9100000 GHz

Start Freq

1.9075000 GHz

Stop Freq

1.9125000 GHz

CF Step

500.000000 kHz

Auto

Man

Freq Offset

0.0000000 Hz

Signal Track

On

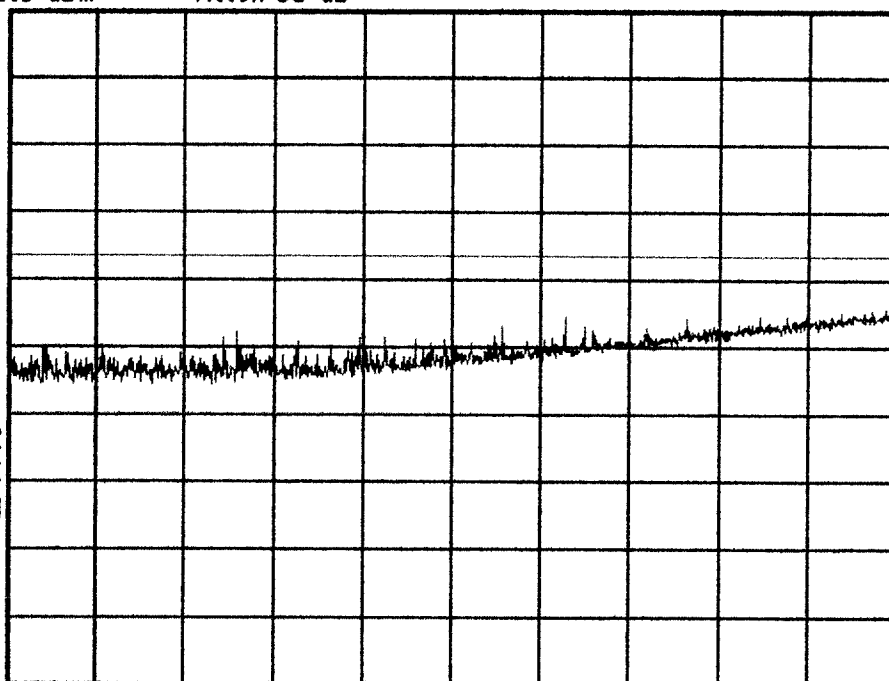
Off

* Agilent 09:15:50 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS BAND EDGE C-0025

Ref 23.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2
dB
DI
-13.0
dBm
PAvg
100
V1 S2
S3 FC
AA



Start 1.847 GHz

*Res BW 1 MHz

VBW 3 MHz

Stop 1.847 GHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

1.84700000 GHz

Start Freq

1.84650000 GHz

Stop Freq

1.84750000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

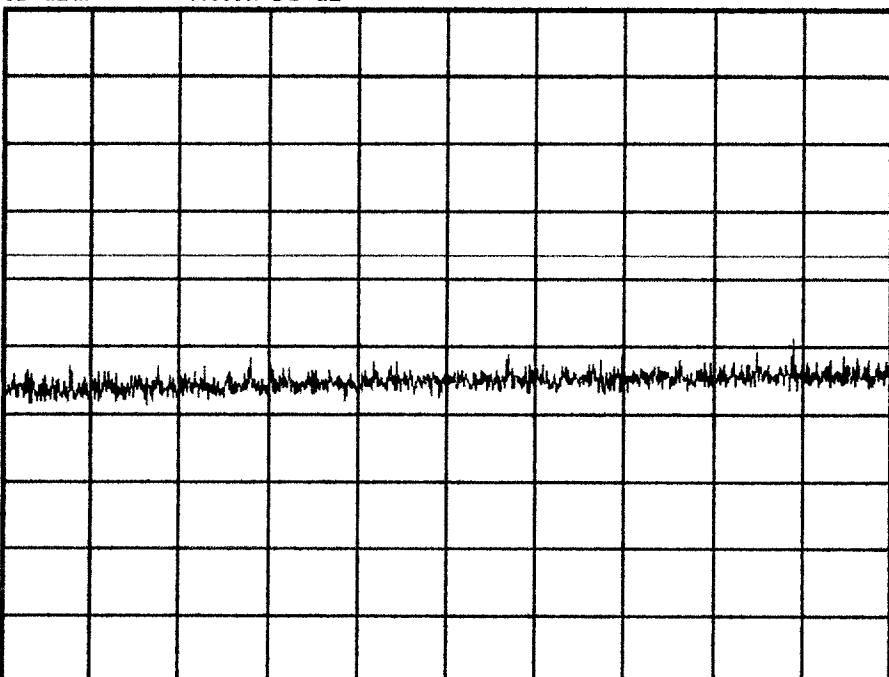
Off

* Agilent 09:16:50 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS BAND EDGE C-0025

Ref 23.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
2
dB
DI
-13.0
dBm
PAvg
100
V1 S2
S3 FC
AA



Center 1.846 GHz

*Res BW 1 MHz

VBW 3 MHz

Span 1 MHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

1.84600000 GHz

Start Freq

1.84550000 GHz

Stop Freq

1.84650000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

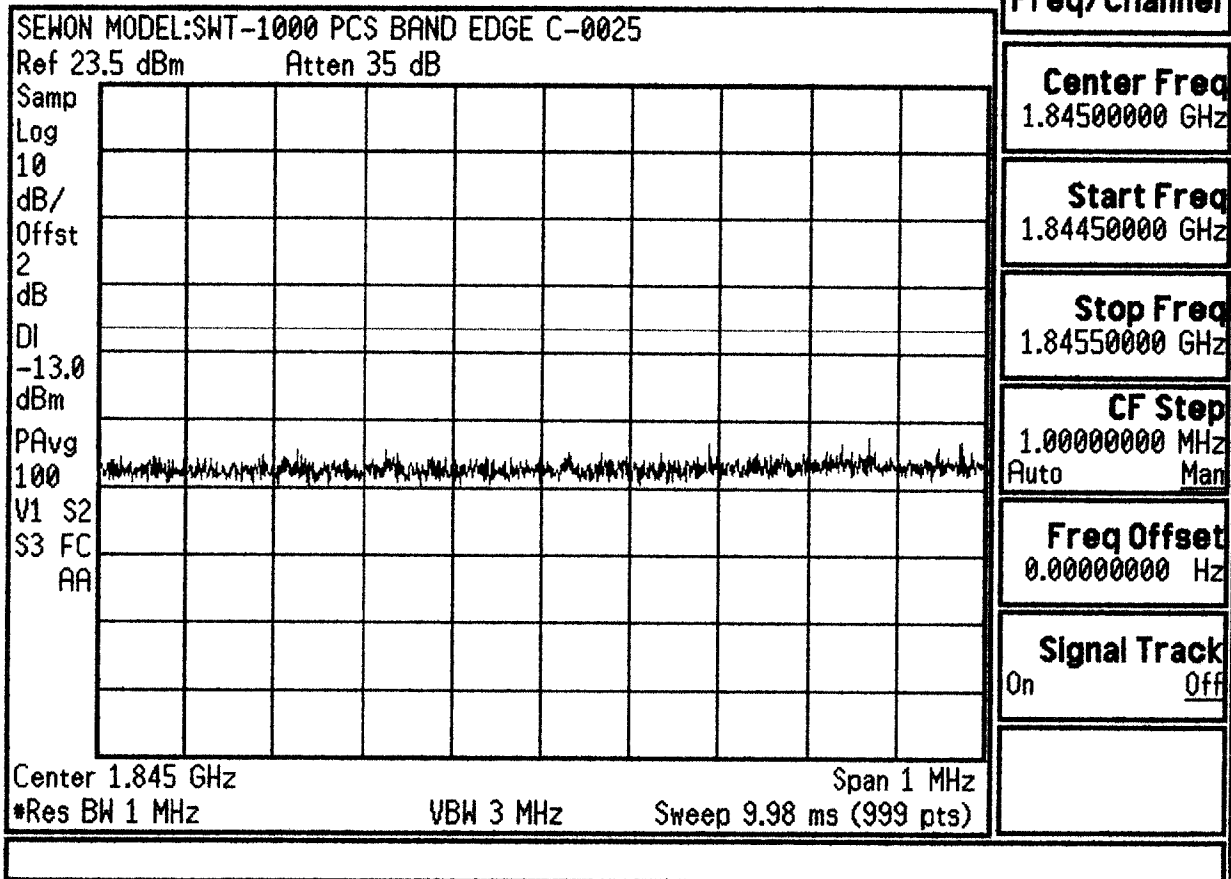
0.00000000 Hz

Signal Track

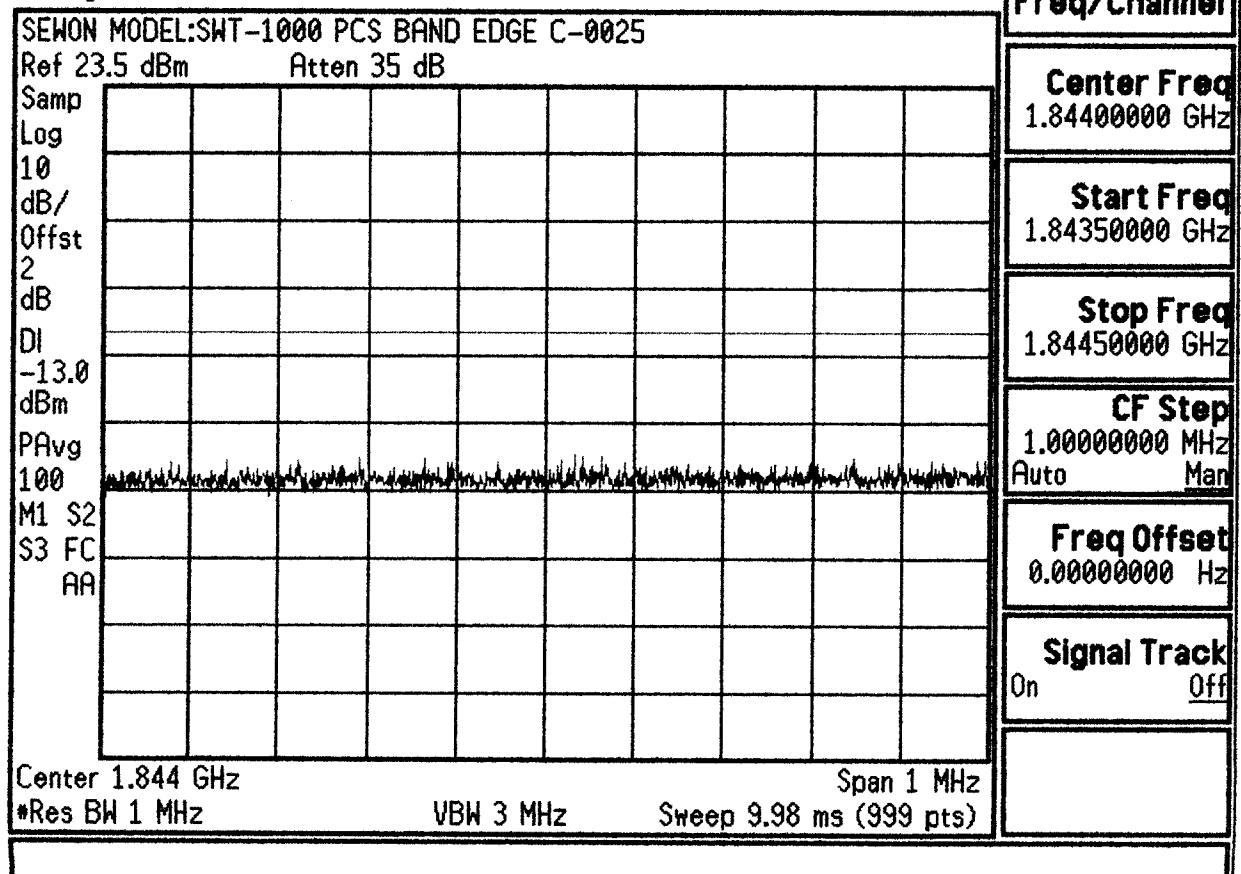
On

Off

* Agilent 09:17:46 Jan 8, 2001



* Agilent 09:18:32 Jan 8, 2001



Agilent 09:00:51 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS BAND EDGE C-1175

Ref 23.5 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

2

dB

DI

-13.0

dBm

PAvg

100

M1 S2

S3 FC

AA

Center 1.915 GHz

*Res BW 1 MHz

VBW 3 MHz

Span 1 MHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

1.91500000 GHz

Start Freq

1.91450000 GHz

Stop Freq

1.91550000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Agilent 09:02:05 Jan 8, 2001

SEWON MODEL:SWT-1000 PCS BAND EDGE C-1175

Ref 23.5 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

2

dB

DI

-13.0

dBm

PAvg

100

M1 S2

S3 FC

AA

Center 1.916 GHz

*Res BW 1 MHz

VBW 3 MHz

Span 1 MHz

Sweep 9.98 ms (999 pts)

Freq/Channel

Center Freq

1.91600000 GHz

Start Freq

1.91550000 GHz

Stop Freq

1.91650000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

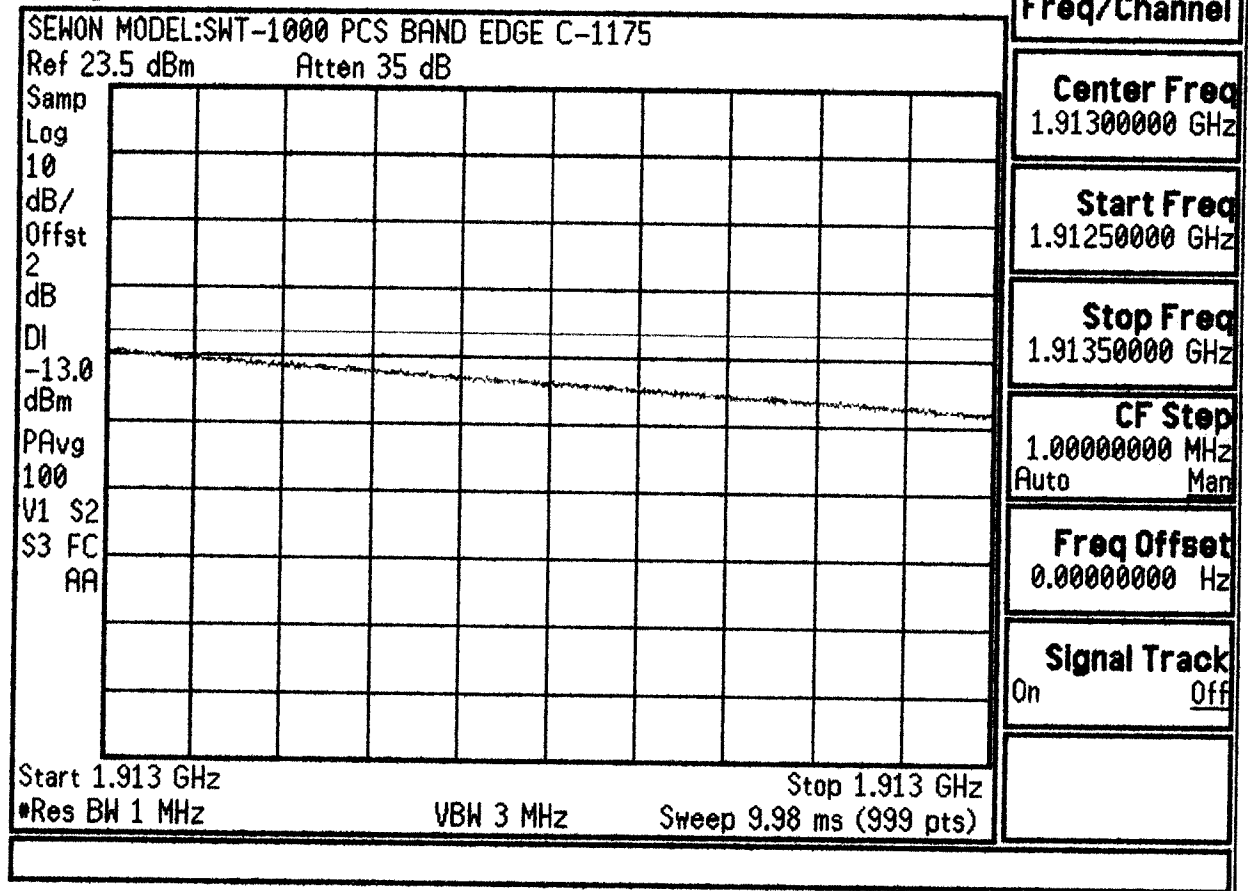
0.00000000 Hz

Signal Track

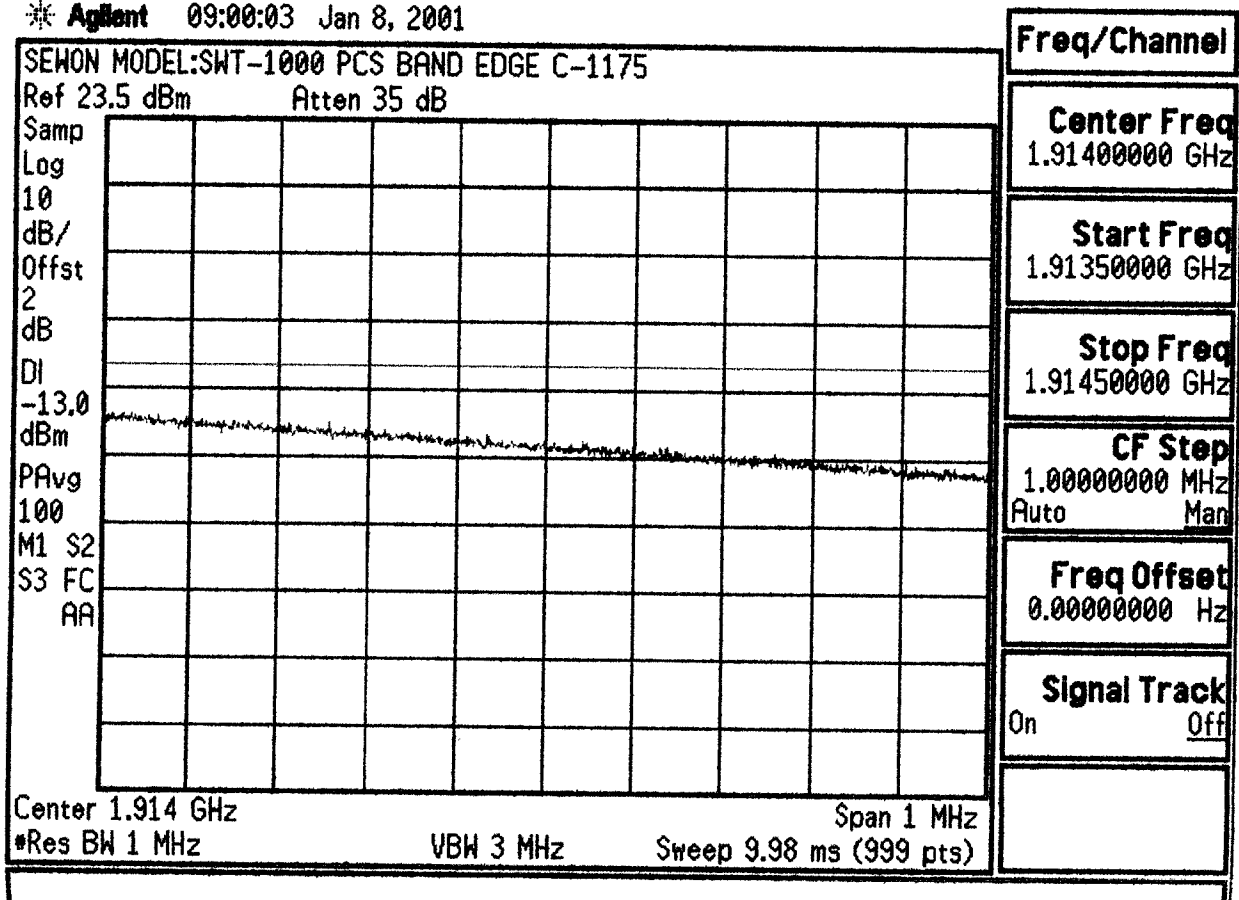
On

Off

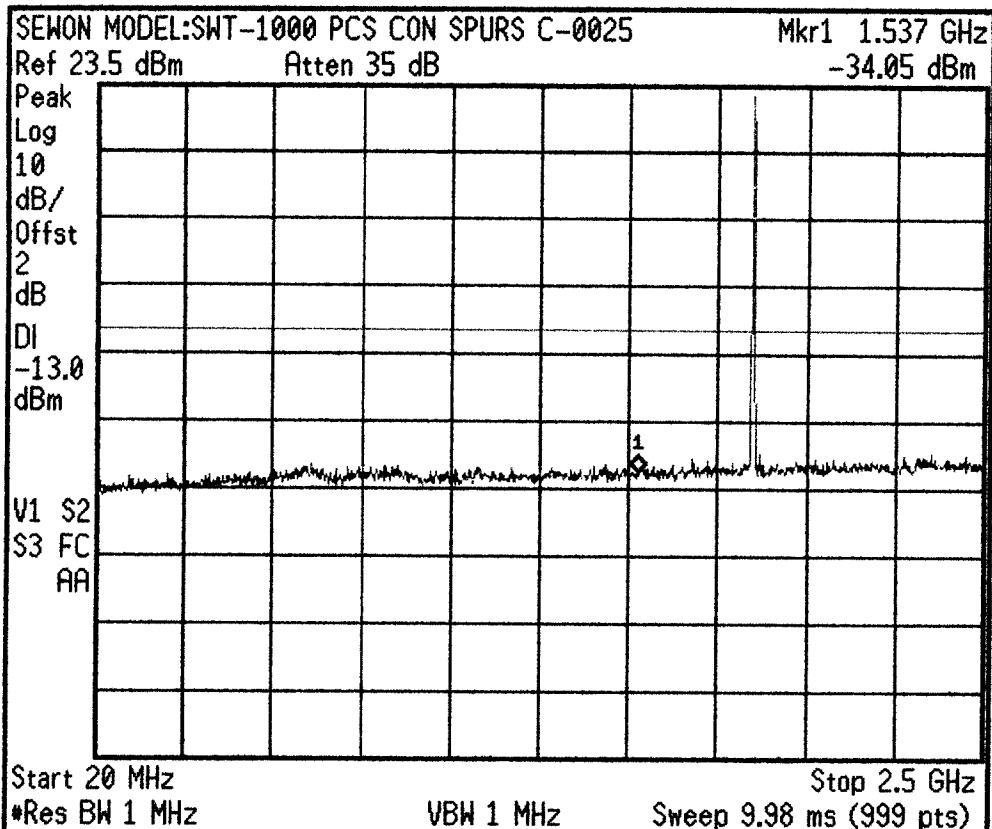
* Agilent 08:59:08 Jan 8, 2001



* Agilent 09:00:03 Jan 8, 2001



* Agilent 06:25:38 Jan 8, 2001



Freq/Channel

Center Freq
 1.26000000 GHz

Start Freq
 20.0000000 MHz

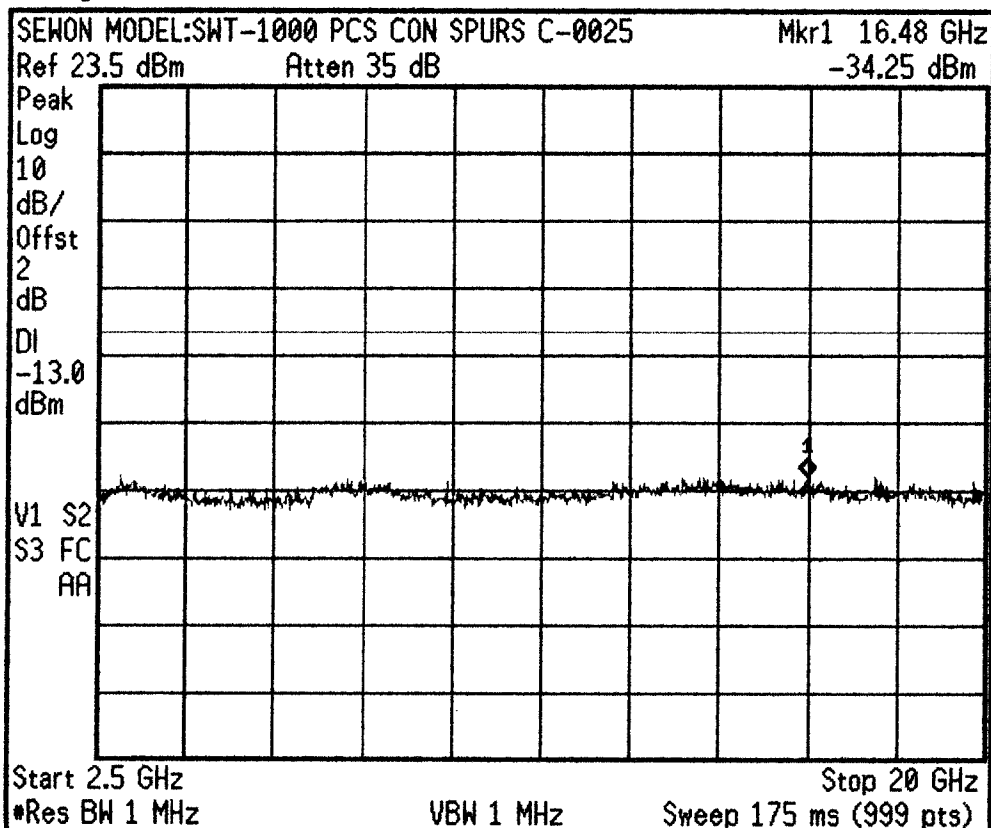
Stop Freq
 2.50000000 GHz

CF Step
 248.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:27:20 Jan 8, 2001



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

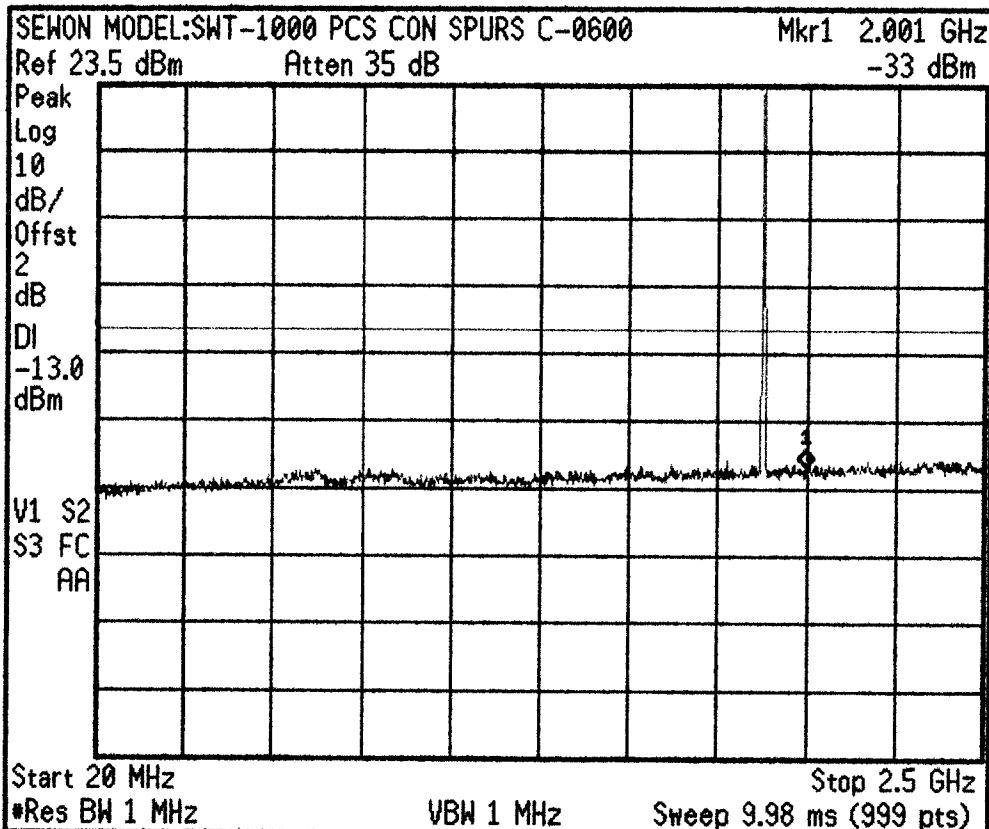
Stop Freq
 20.0000000 GHz

CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:29:21 Jan 8, 2001



Freq/Channel

Center Freq
 1.26000000 GHz

Start Freq
 20.0000000 MHz

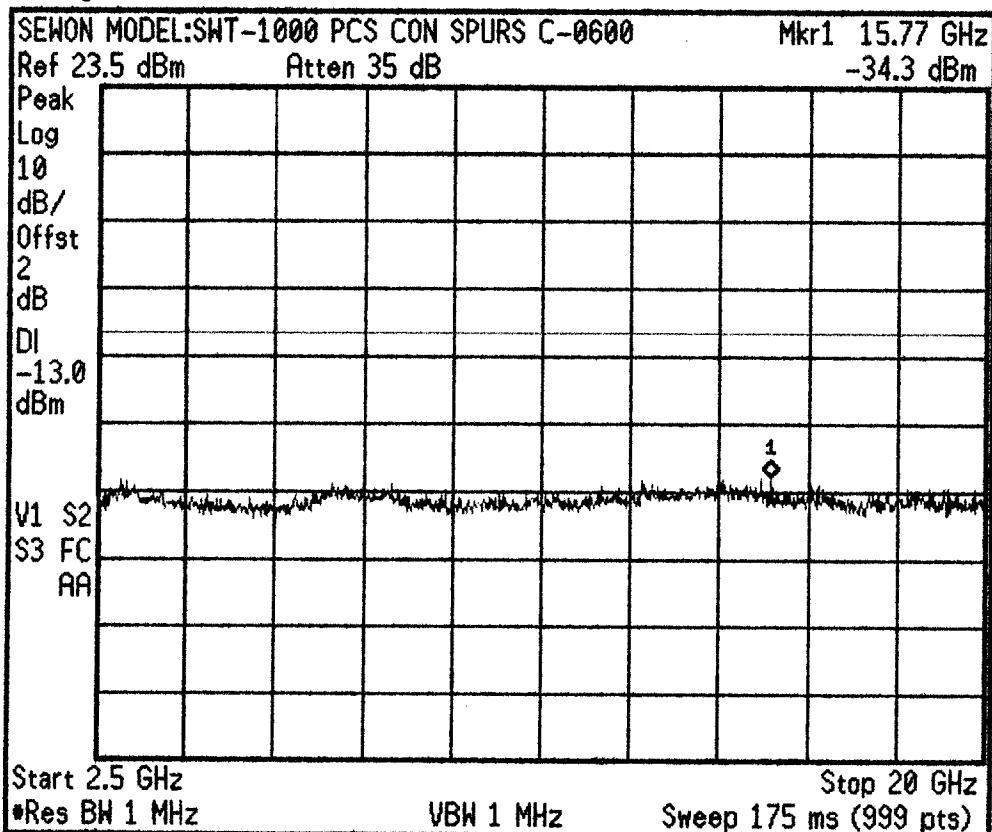
Stop Freq
 2.50000000 GHz

CF Step
 248.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:30:04 Jan 8, 2001



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

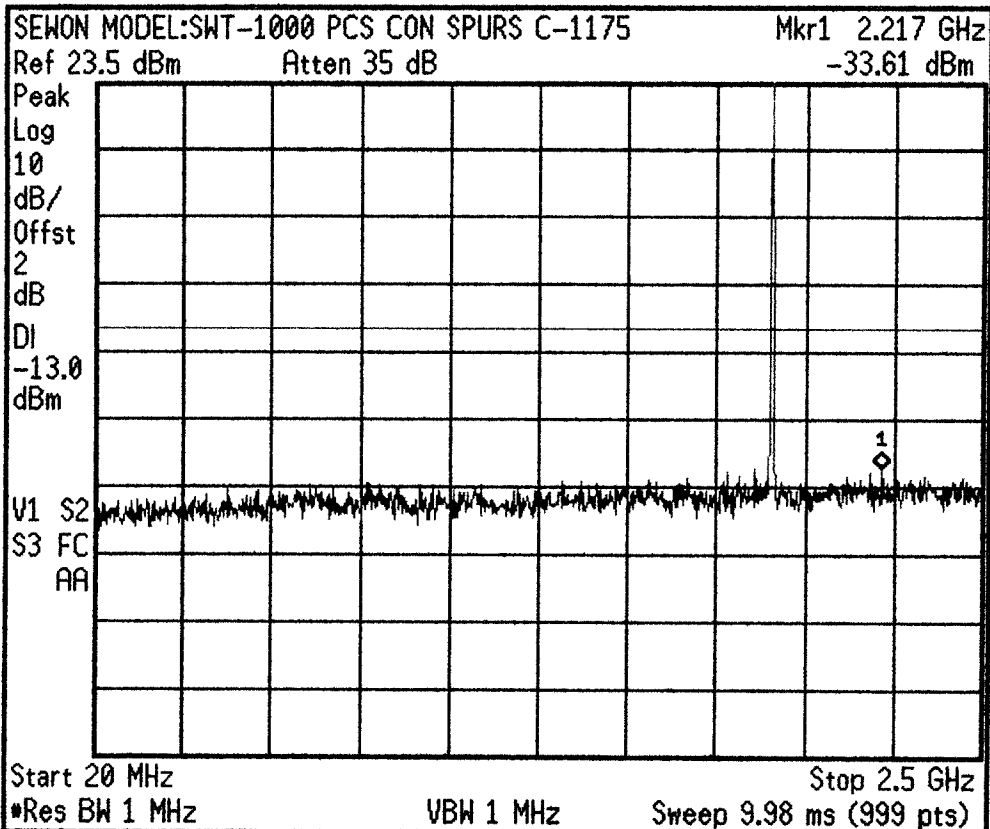
Stop Freq
 20.0000000 GHz

CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:31:39 Jan 8, 2001



Freq/Channel

Center Freq
 1.26000000 GHz

Start Freq
 20.0000000 MHz

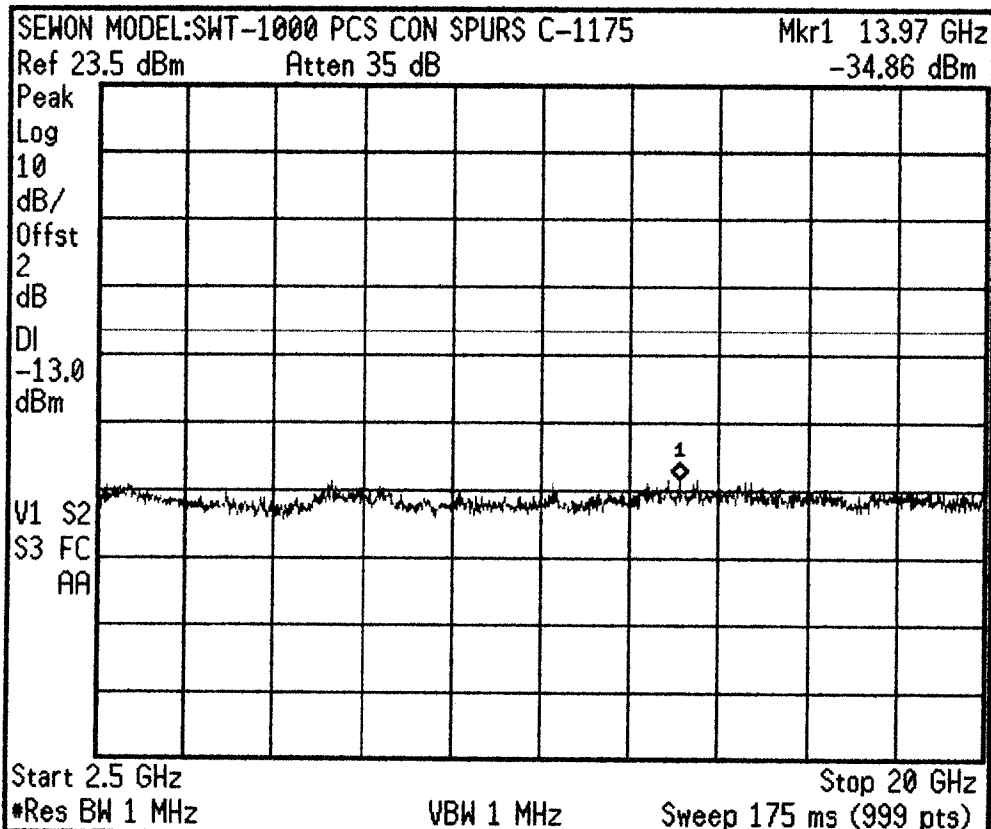
Stop Freq
 2.50000000 GHz

CF Step
 248.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 06:32:31 Jan 8, 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

SUBJECT: Modulation Characteristics
FCC Part 22/24

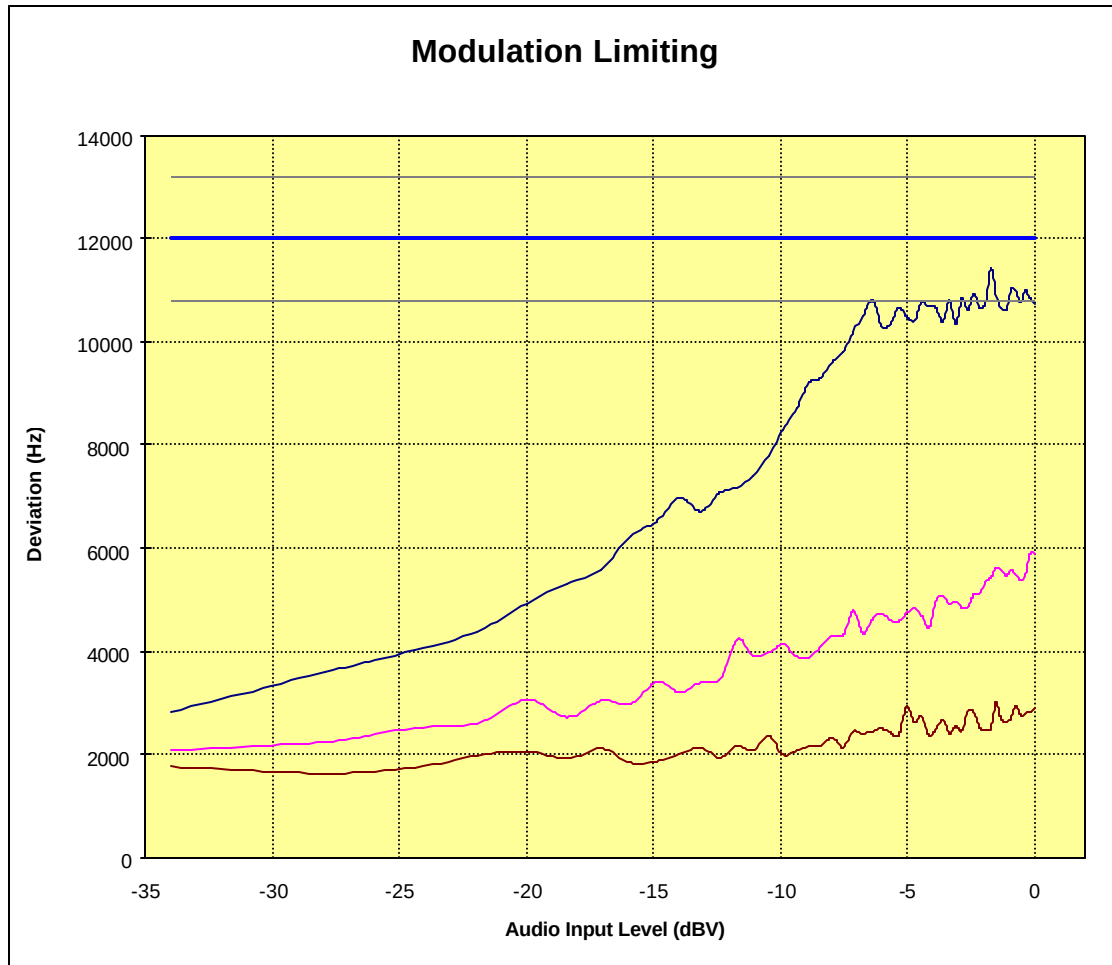
Test Report No.: 22/24.210104005.PFZ
Test Date: 01.04.2001

EUT: SEWON Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)

Model: SWT-1000

FCC ID: PFZSWT-1000

REFERENCE: 1 kHz = 0 dB

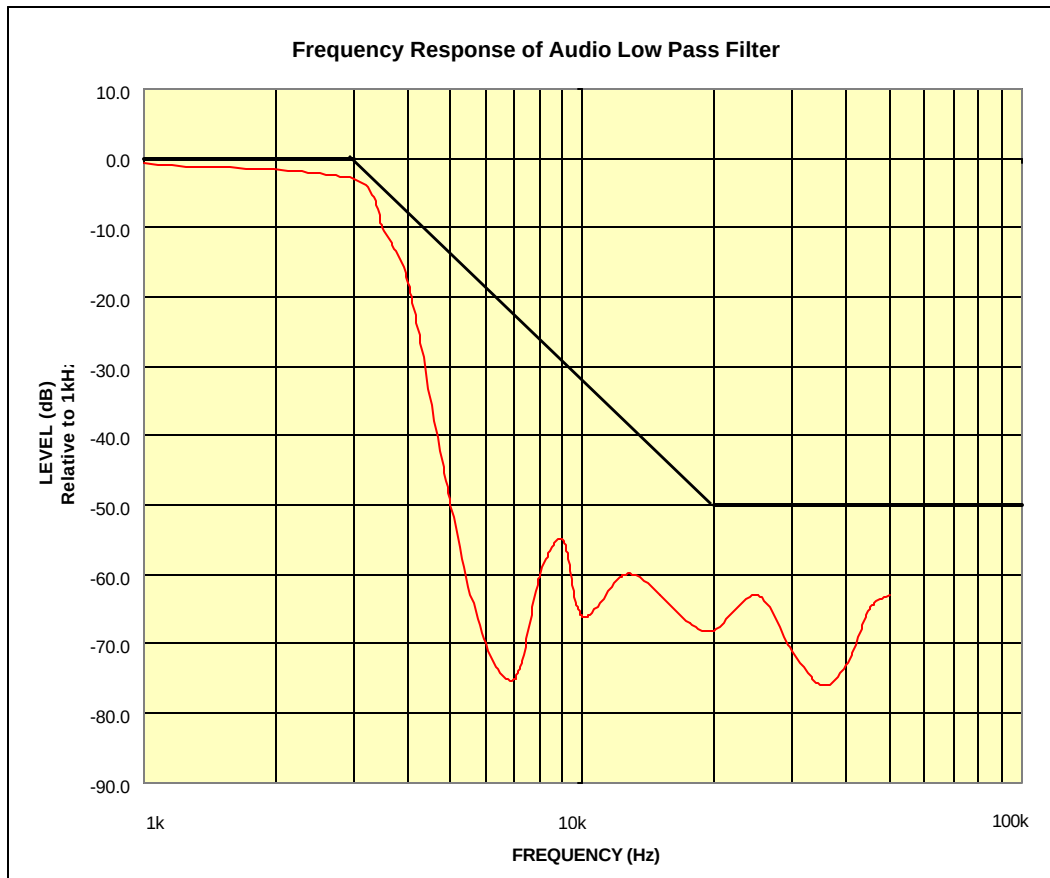


SUBJECT: Modulation Characteristics
FCC Part 22/24

Test Report No.: 22.24.210104005.PFZ
Test Date: 01.04.2001

EUT: SEWON Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
Model: SWT-1000
FCC ID: PFZSWT-1000

REFERENCE: 1 kHz = 0 dB



SUBJECT: Modulation Characteristics
FCC Part 22/24

Test Report No.: 22.24.210104005.PFZ
Test Date: 01.04.2001

EUT: SEWON Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
Model: SWT-1000
FCC ID: PFZSWT-1000

REFERENCE: 1 kHz = 0 dB

