

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPH-T100

SAMSUNG Tri-Mode

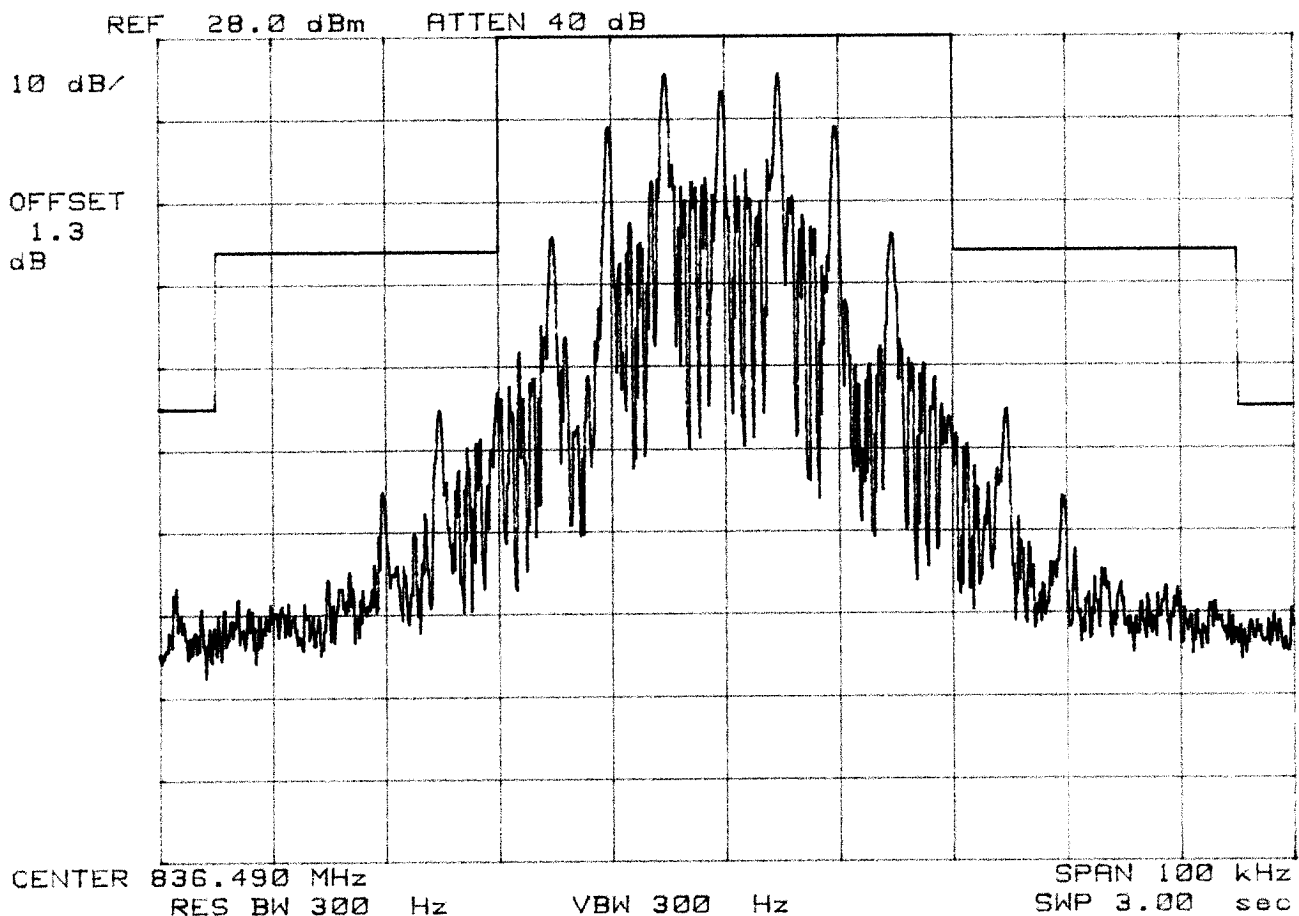
FM Mode

Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:Wide Band Data



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPH-T100

SAMSUNG Tri-Mode

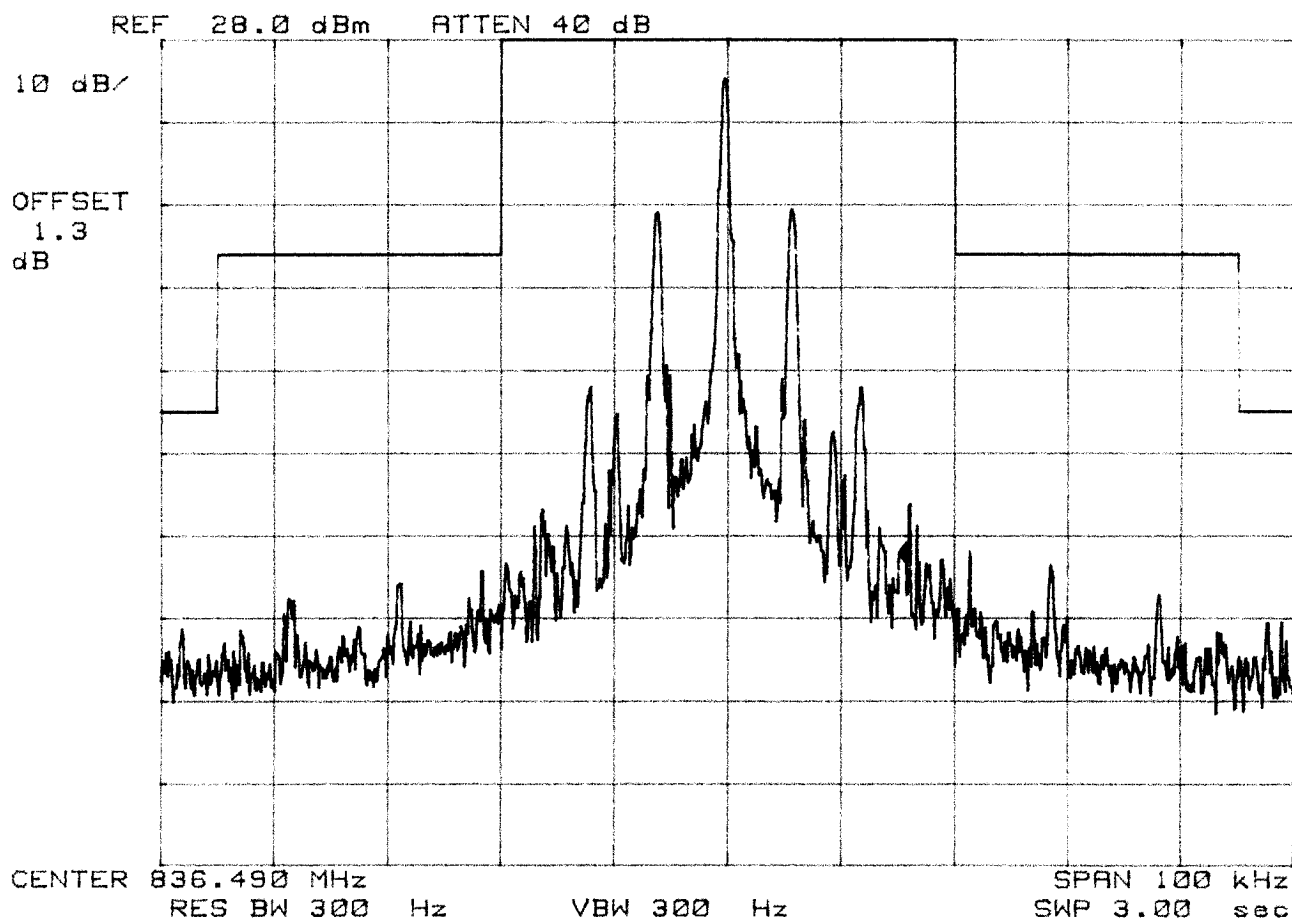
FM Mode

Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:SAT



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSFH-T100

SAMSUNG Tri-Mode

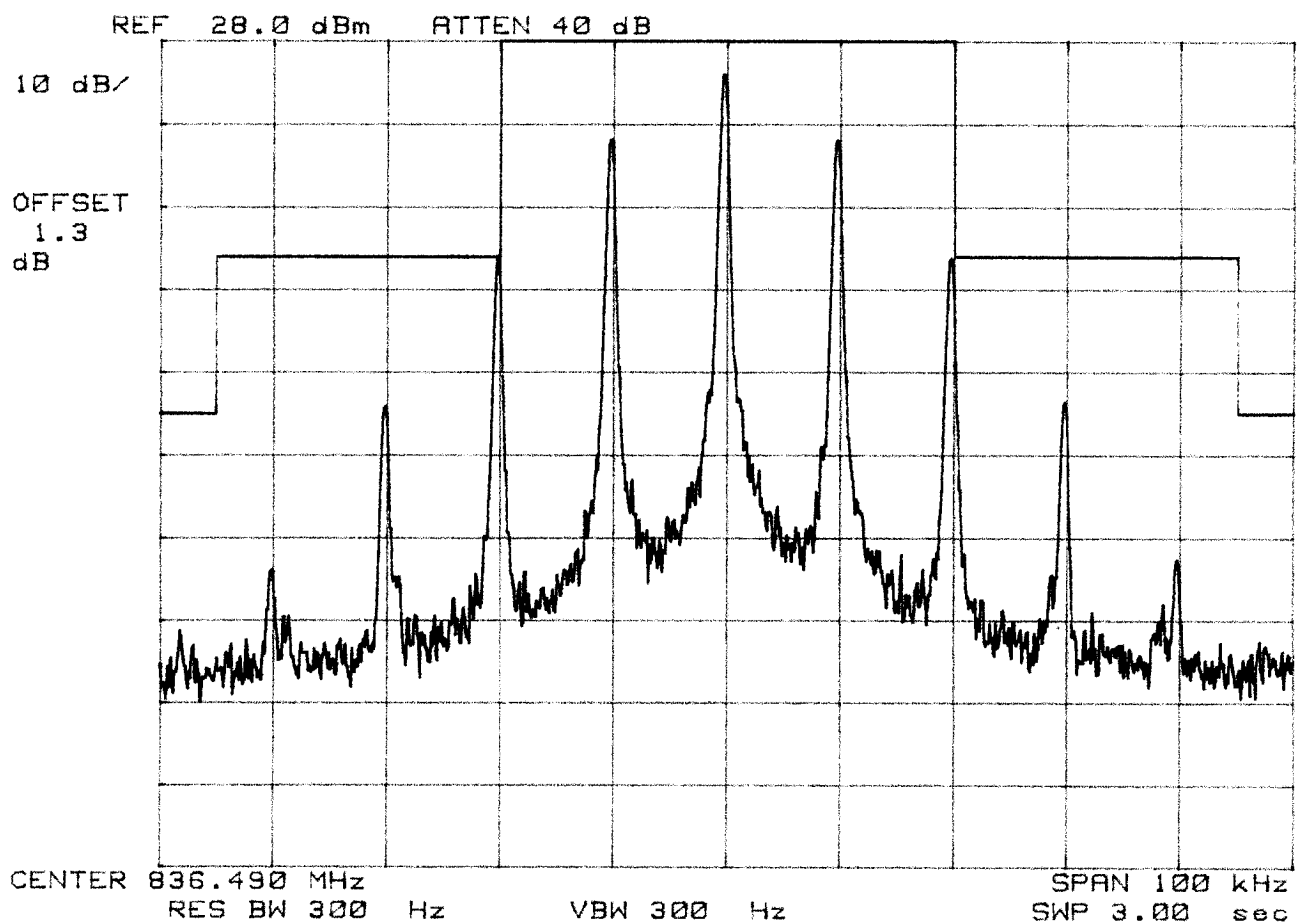
FM Mode

Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 28.0 dBm

Test Mode:ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSPH-T100

SAMSUNG Tri-Mode

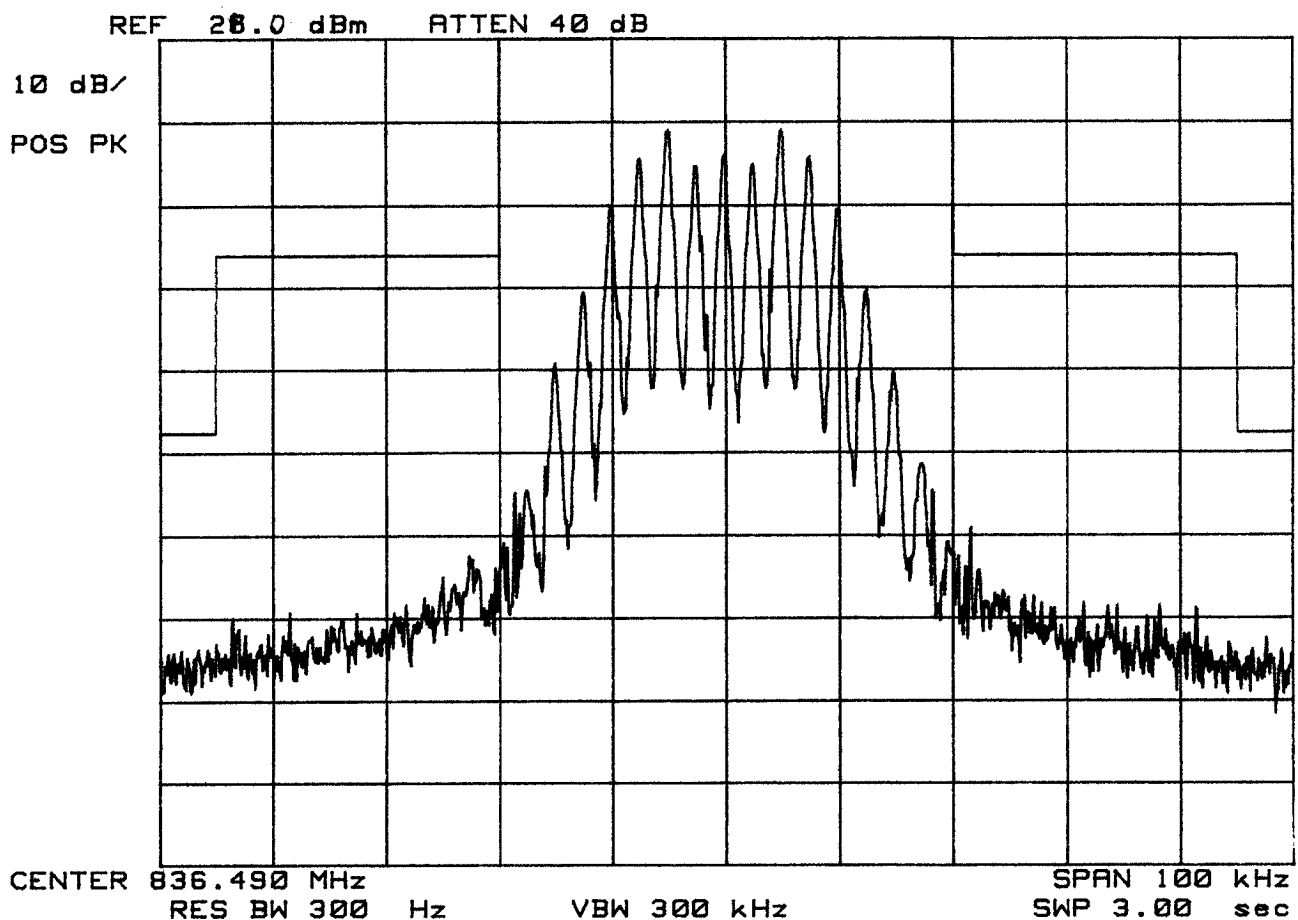
FM Mode

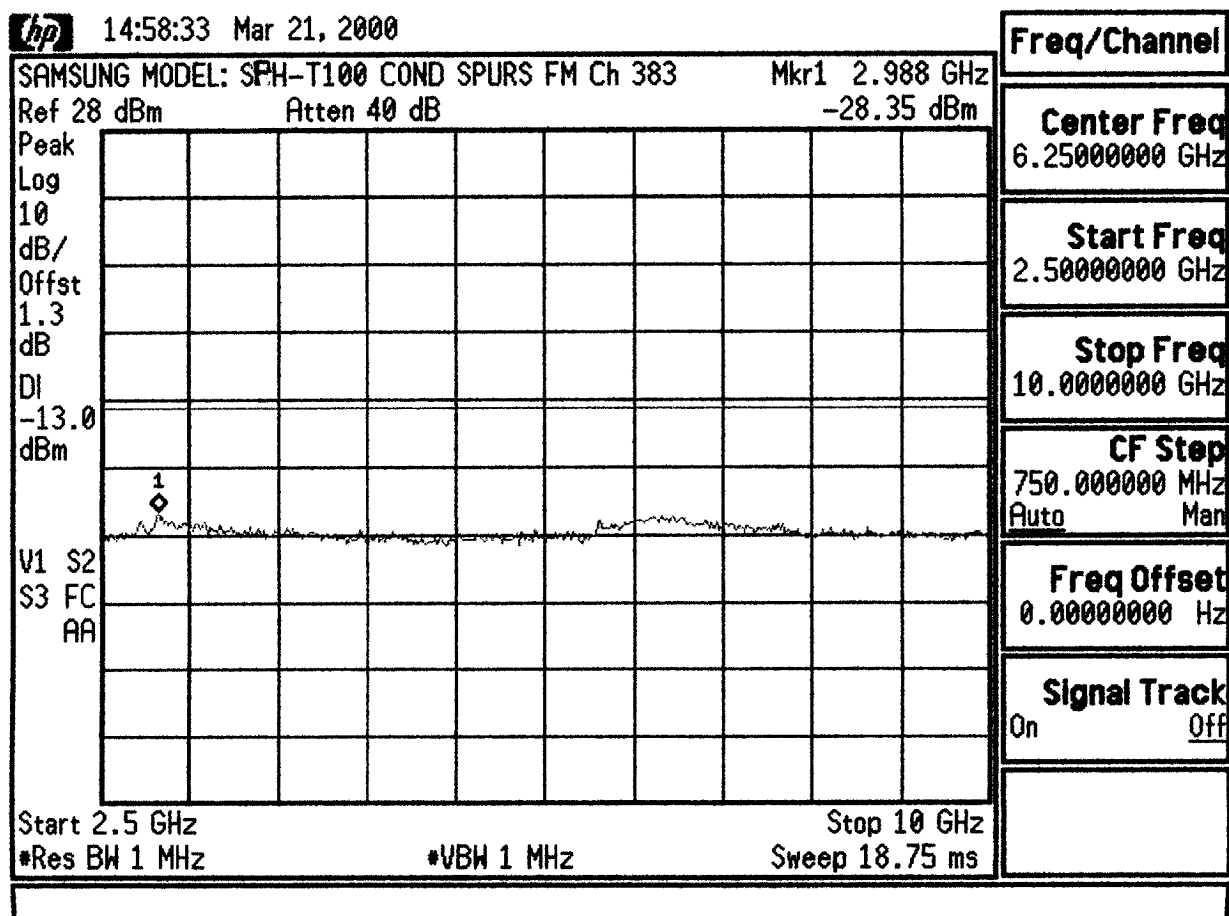
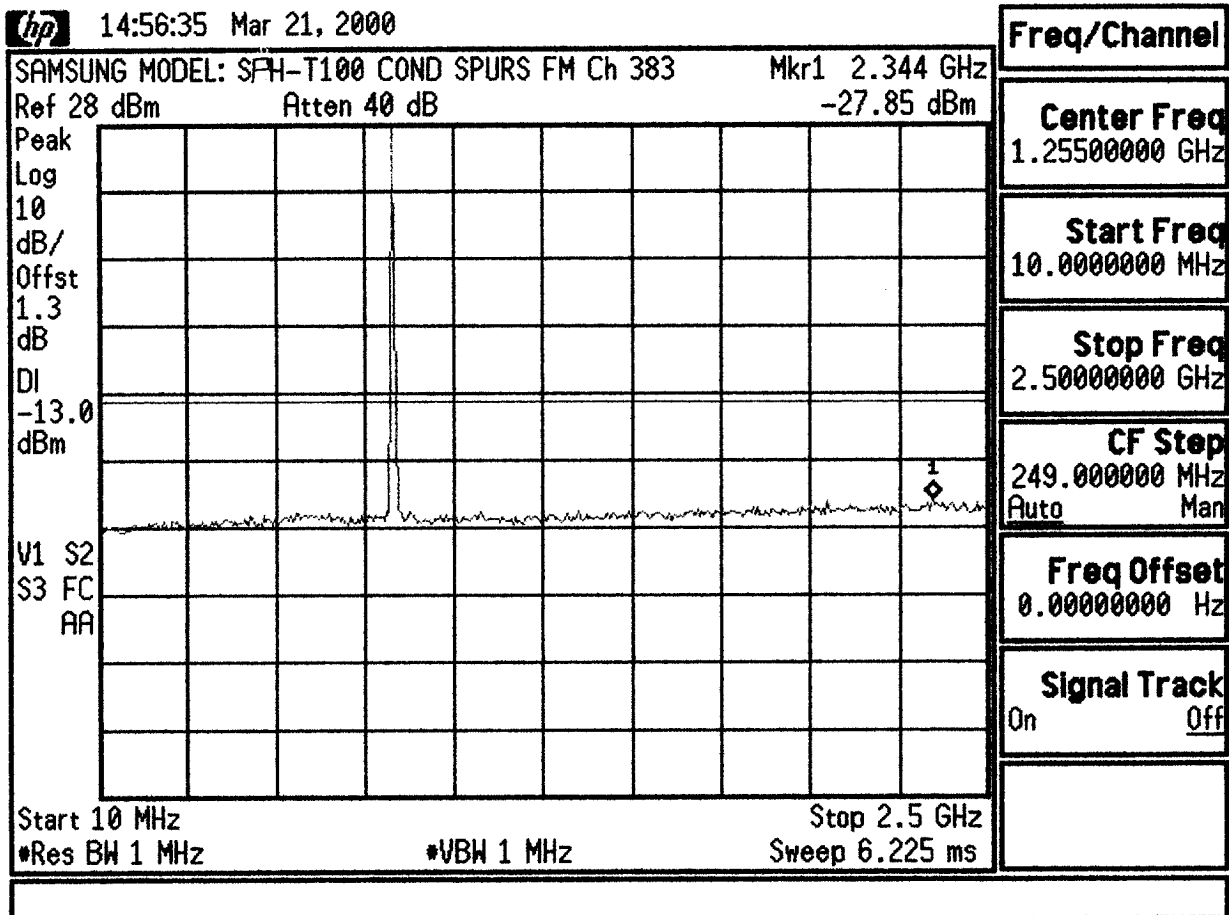
Channel 0383

Operating Frequency: 836.490 MHz

Output Power : 25.4 dBm

Test Mode:Voice





hp 09:28:24 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 COND SPURS FM Ch 799

Mkr1 1.697 GHz

Ref 28 dBm

Atten 40 dB

-27.41 dBm

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0

dBm

V1 S2

S3 FC

AA

Start 10 MHz

*Res BW 1 MHz

VBW 1 MHz

Stop 2.5 GHz

Sweep 6.225 ms

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

hp 09:29:58 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 COND SPURS FM Ch 799

Mkr1 7.581 GHz

Ref 28 dBm

Atten 40 dB

-28.78 dBm

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0

dBm

V1 S2

S3 FC

AA

Start 2.5 GHz

*Res BW 1 MHz

VBW 1 MHz

Stop 10 GHz

Sweep 18.75 ms

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

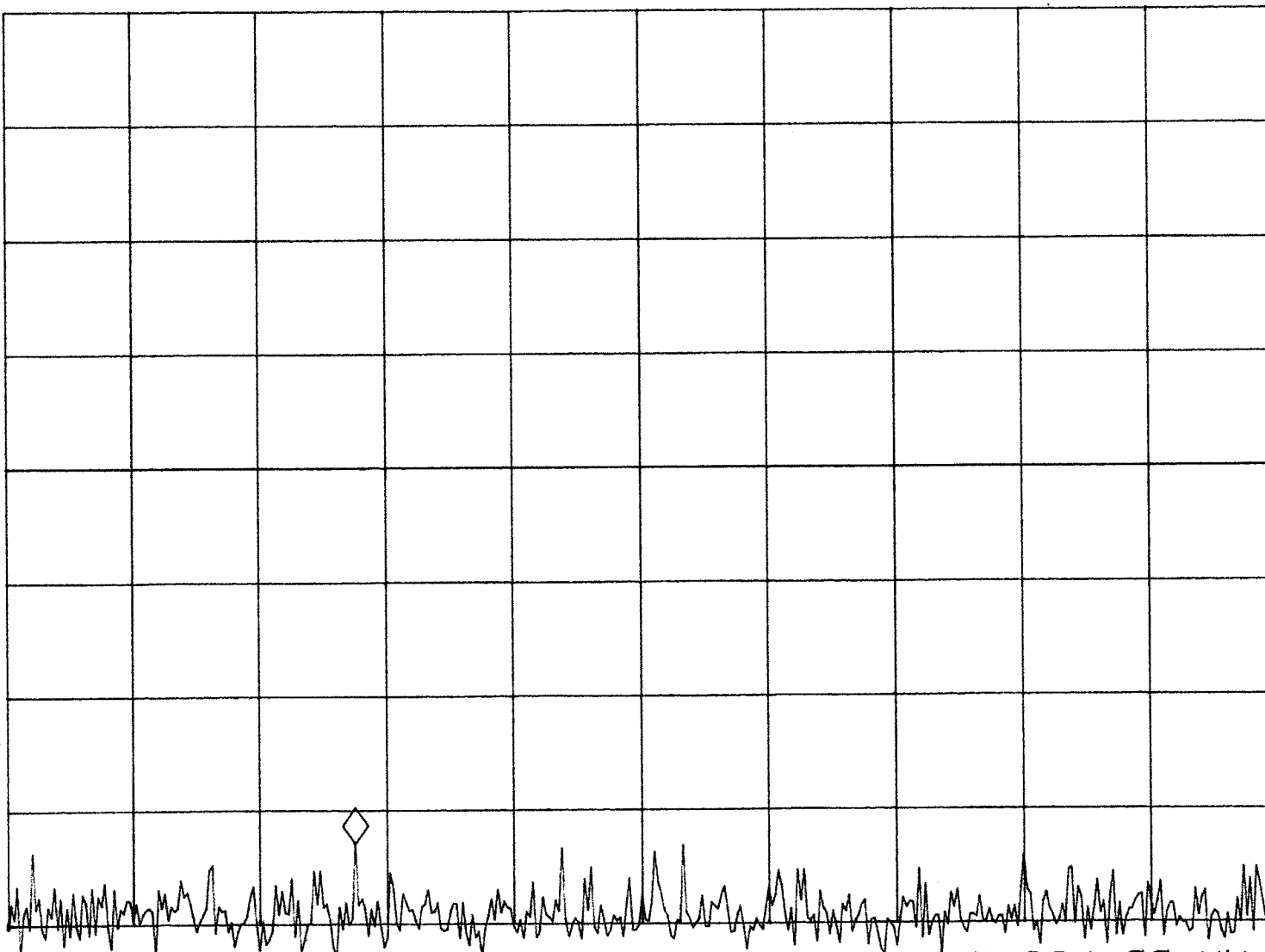
Signal Track

On Off

 SAMSUNG MODEL: SPH-T100 FM MODE MKR 875.87 MHz
REF -60.0 dBm ATTEN 10 dB PG 25.0 dB -96.45 dBm

PEAK
LOG
5
dB/
OFFST
6.0
dB
DL
-80.0
dBm

VA SB
SC FC
CORR



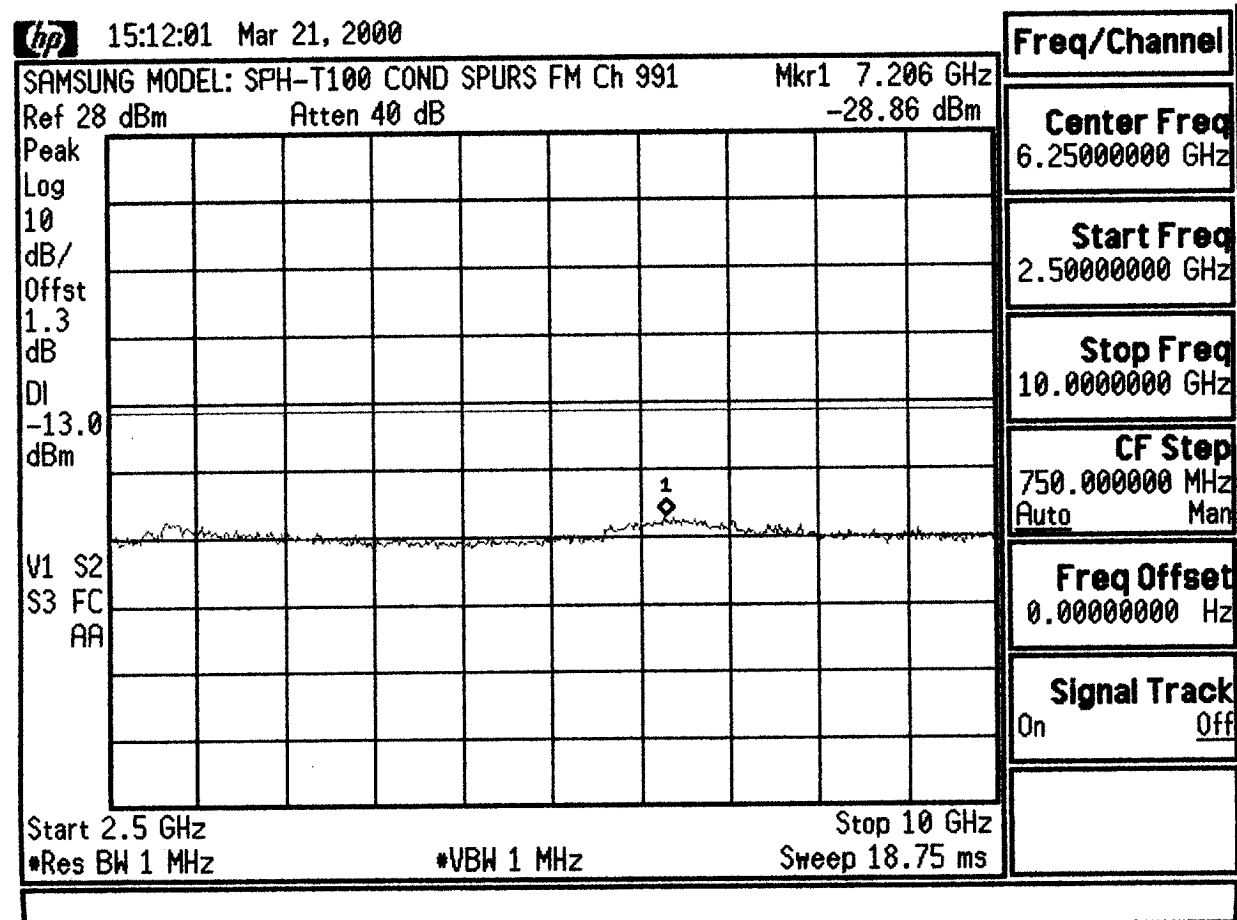
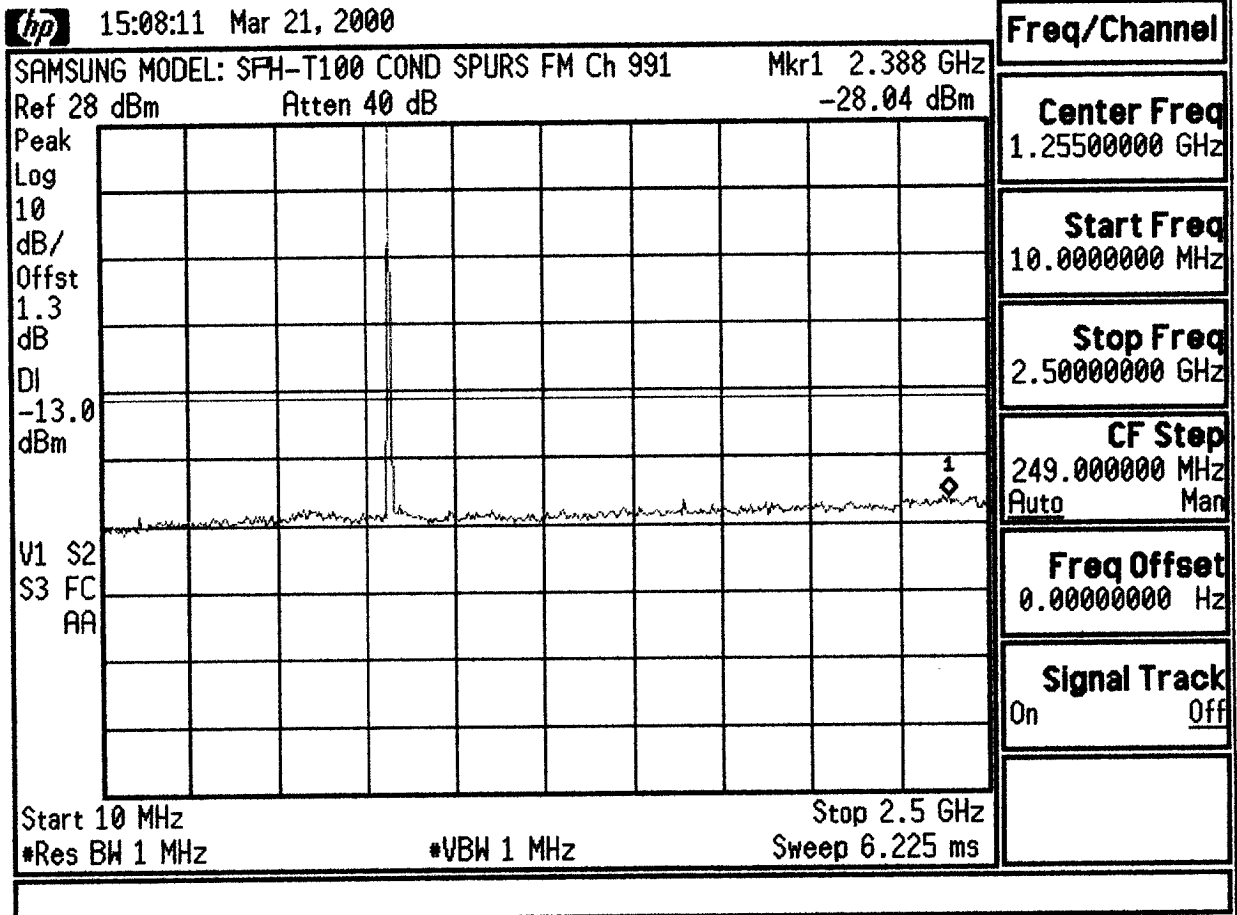
START 869.00 MHz

STOP 894.00 MHz

#RES BW 100 kHz

#VBW 300 kHz

SWP 20 msec





09:59:23 Mar 23, 2000

SAMSUNG MODEL: SFH-T100 CON SPUR Ch 0363

Mkr1 1.672 GHz

Ref 26.3 dBm

Atten 35 dB

-31.7 dBm

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0

dBm

V1 S2

S3 FC

AA

Start 10 MHz

*Res BW 1 MHz

VBW 1 MHz

Stop 2.5 GHz

Sweep 6.225 ms

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



10:01:24 Mar 23, 2000

SAMSUNG MODEL: SFH-T100 CON SPUR Ch 0363

Mkr1 7.263 GHz

Ref 26.3 dBm

Atten 35 dB

-31.82 dBm

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0

dBm

V1 S2

S3 FC

AA

Start 2.5 GHz

*Res BW 1 MHz

VBW 1 MHz

Stop 10 GHz

Sweep 18.75 ms

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



10:08:14 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 CON SPUR Ch 0777

Mkr1 2.413 GHz

Ref 26.3 dBm

Atten 35 dB

-30.93 dBm

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0

dBm

V1 S2
S3 FC
AA

Start 10 MHz

*Res BW 1 MHz

VBW 1 MHz

Stop 2.5 GHz

Sweep 6.225 ms

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



10:09:44 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 CON SPUR Ch 0777

Mkr1 7.150 GHz

Ref 26.3 dBm

Atten 35 dB

-31.78 dBm

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0

dBm

V1 S2
S3 FC
AA

Start 2.5 GHz

*Res BW 1 MHz

VBW 1 MHz

Stop 10 GHz

Sweep 18.75 ms

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

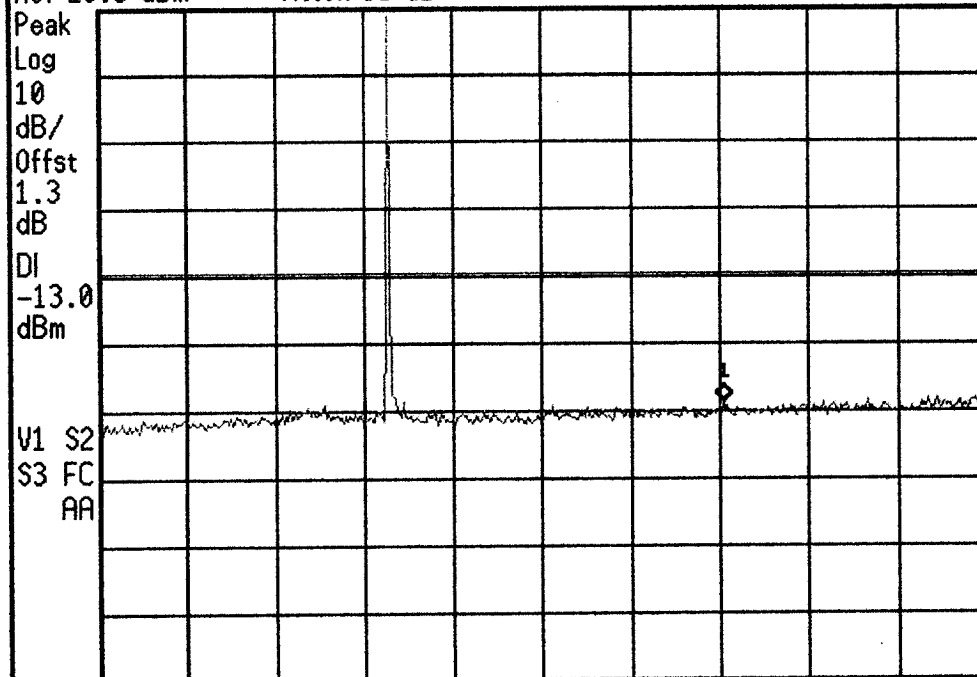
On

Off

hp 10:03:53 Mar 23, 2000

SAMSUNG MODEL: SFH-T100 CON SPUR Ch 1013 Mkr1 1.765 GHz

Ref 26.3 dBm Atten 35 dB -32.27 dBm



Start 10 MHz Stop 2.5 GHz
*Res BW 1 MHz VBW 1 MHz Sweep 6.225 ms

Freq/Channel

Center Freq
1.25500000 GHz

Start Freq
10.0000000 MHz

Stop Freq
2.50000000 GHz

CF Step
249.000000 MHz
Auto Man

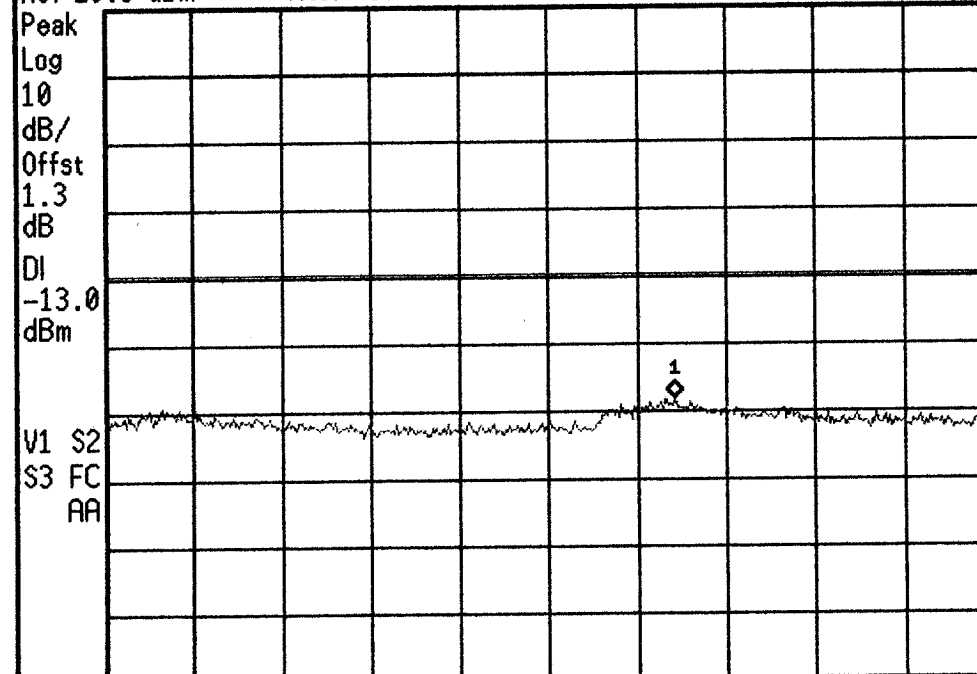
Freq Offset
0.00000000 Hz

Signal Track
On Off

hp 10:05:03 Mar 23, 2000

SAMSUNG MODEL: SFH-T100 CON SPUR Ch 1013 Mkr1 7.319 GHz

Ref 26.3 dBm Atten 35 dB -31.71 dBm



Start 2.5 GHz Stop 10 GHz
*Res BW 1 MHz VBW 1 MHz Sweep 18.75 ms

Freq/Channel

Center Freq
6.25000000 GHz

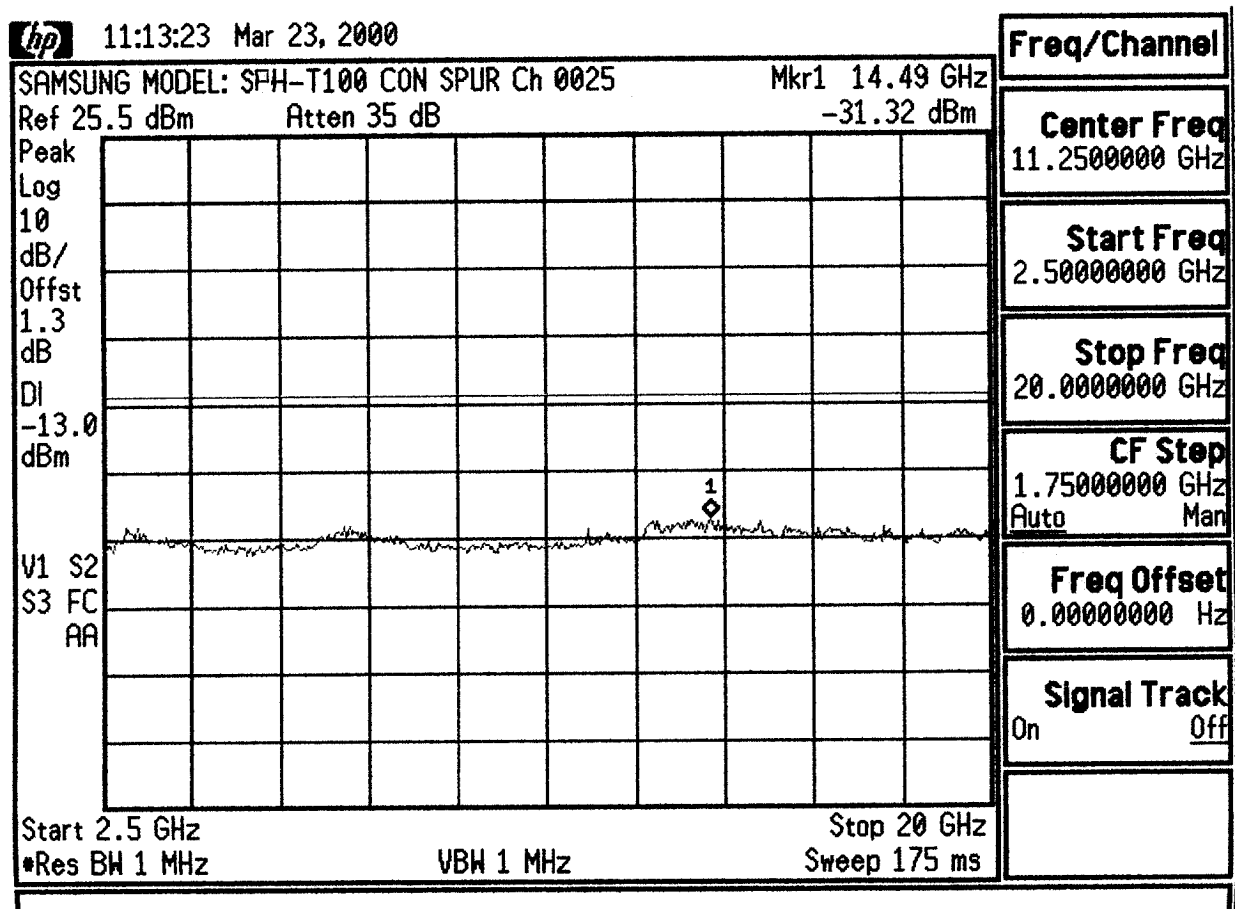
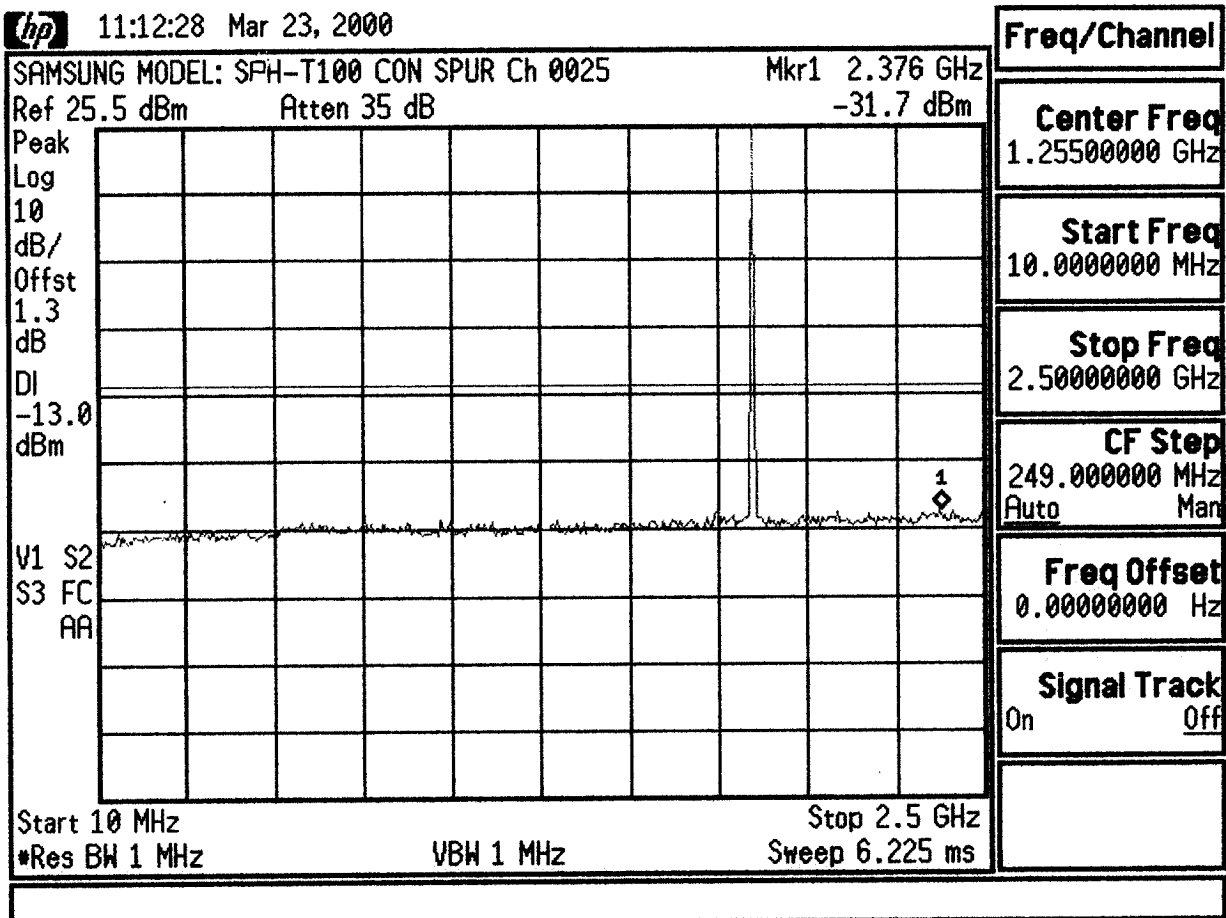
Start Freq
2.50000000 GHz

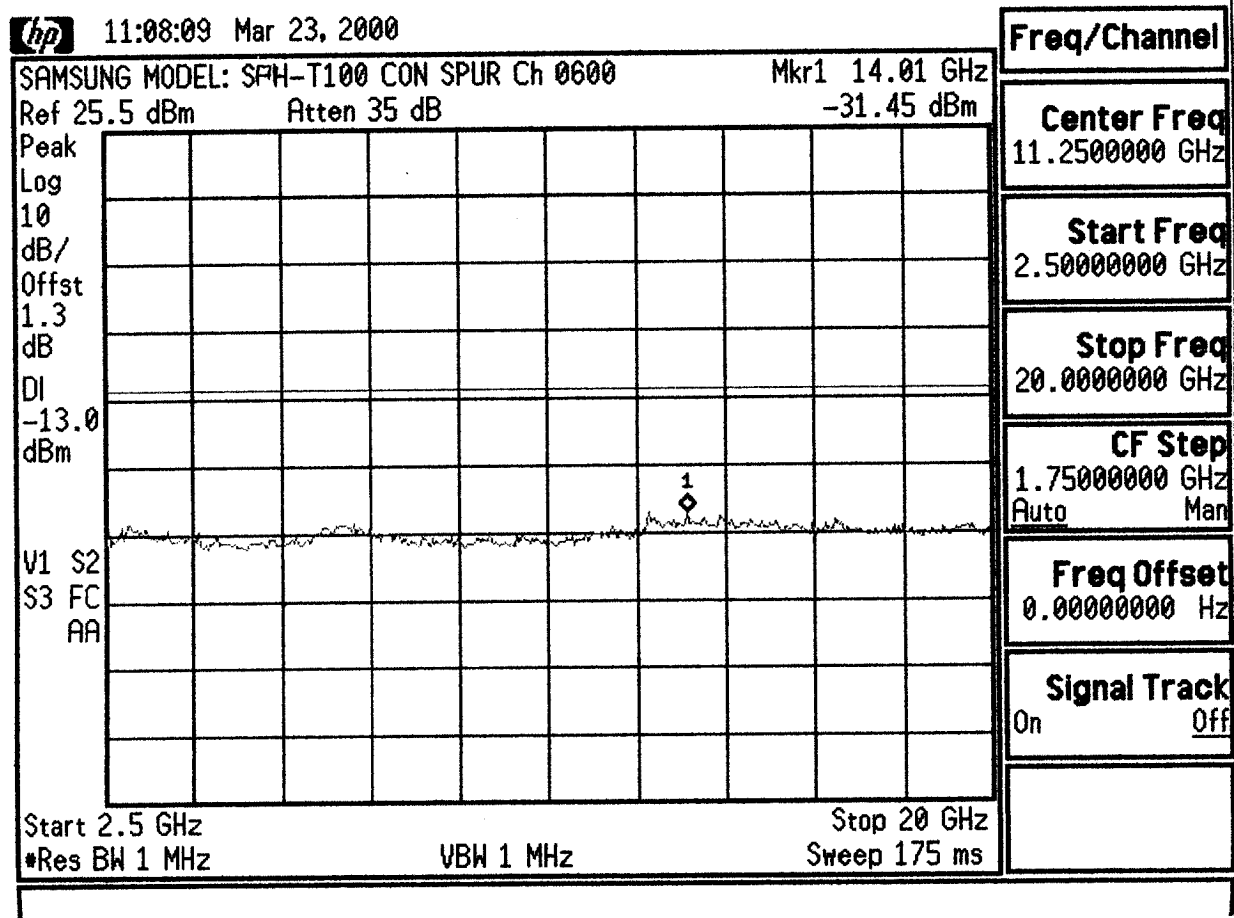
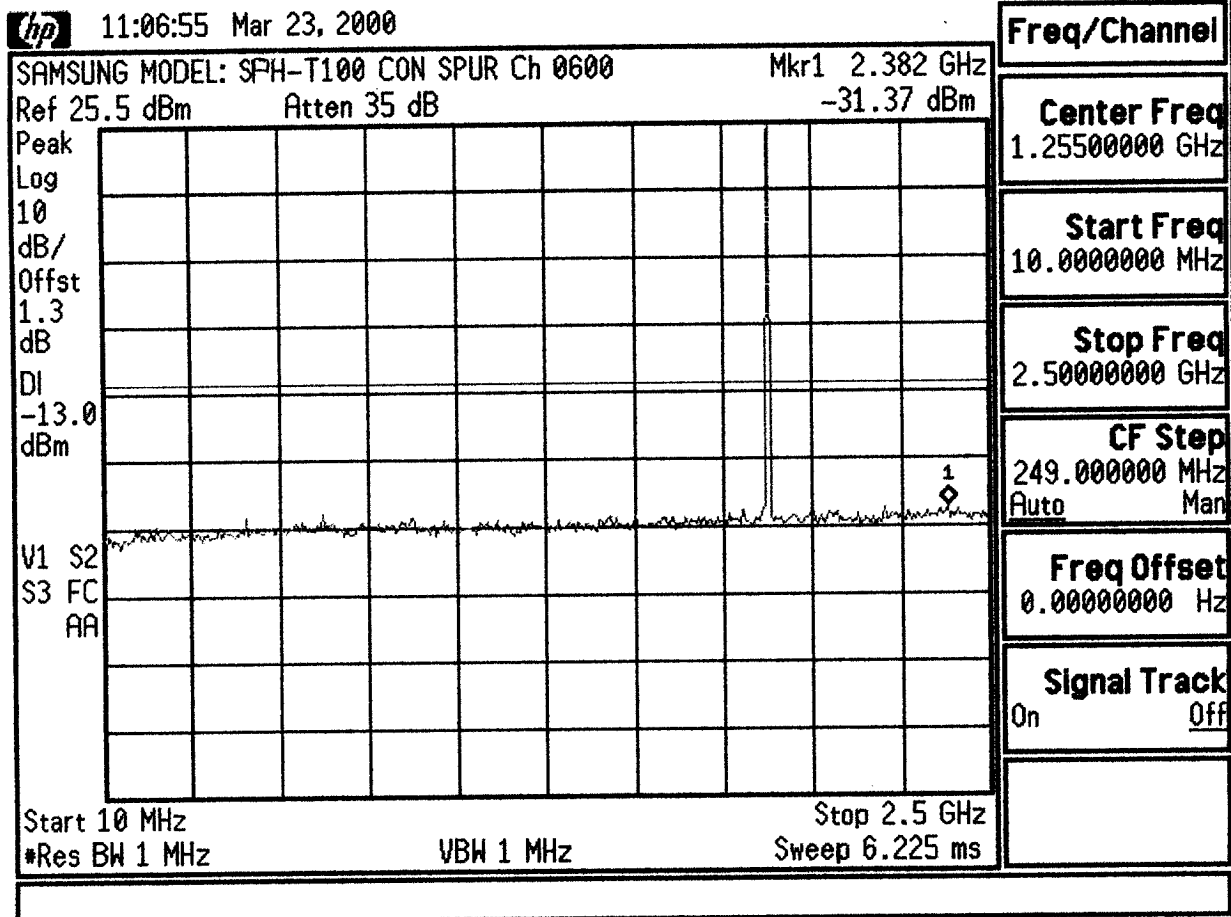
Stop Freq
10.00000000 GHz

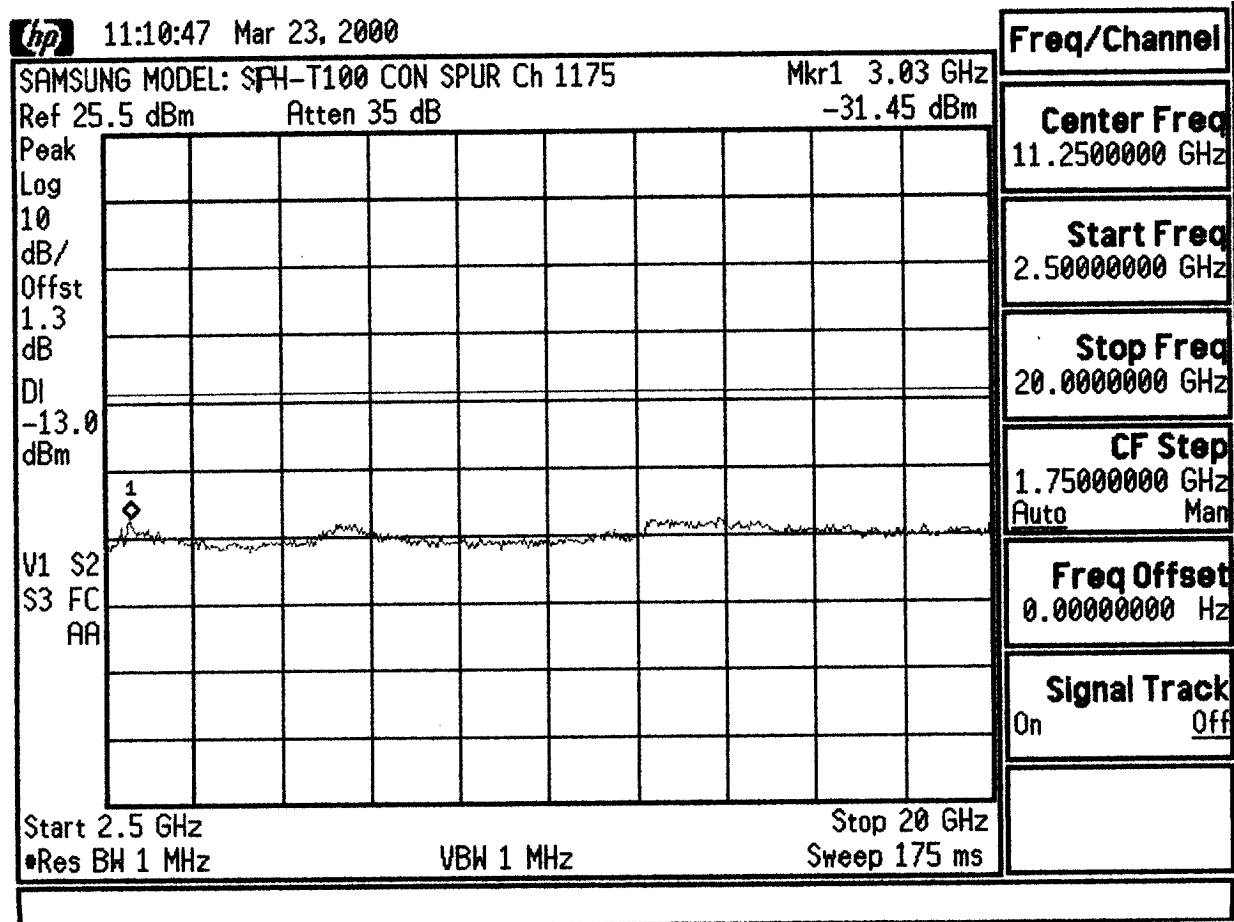
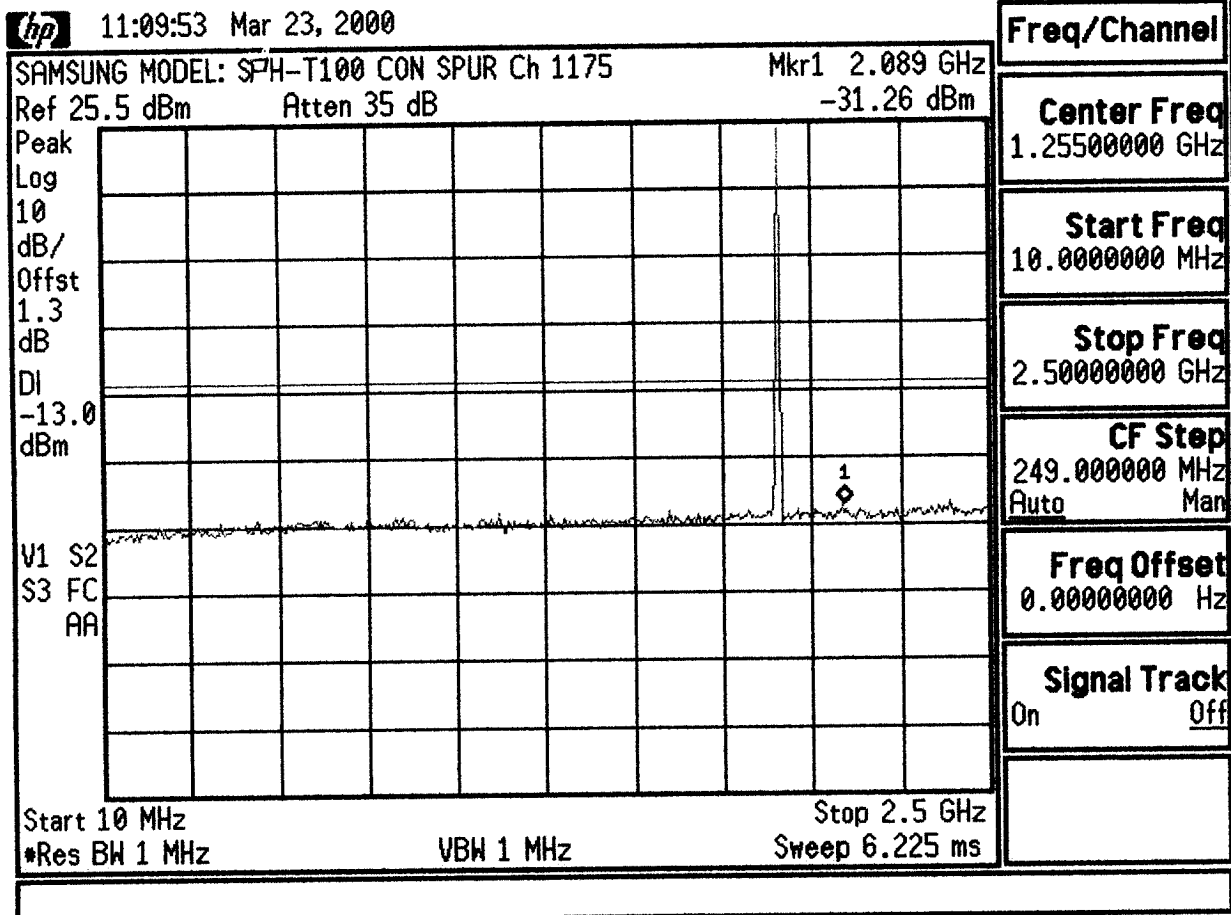
CF Step
750.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off







hp 15:14:01 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 PCS PWR OUT Ch 0025

Ref 25.5 dBm Atten 35 dB

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0

dBm

V1 S2

S3 FC

AA

Center 1.851 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 5 ms

Marker

Select Marker

1 2 3 4

Normal

Delta

Band Pair

Start

Stop

Span Pair

Span

Center

Off

More

1 of 2

hp 15:15:52 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 PCS PWR OUT Ch 0600

Ref 25.5 dBm Atten 35 dB

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0

dBm

V1 S2

S3 FC

AA

Center 1.88 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 5 ms

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

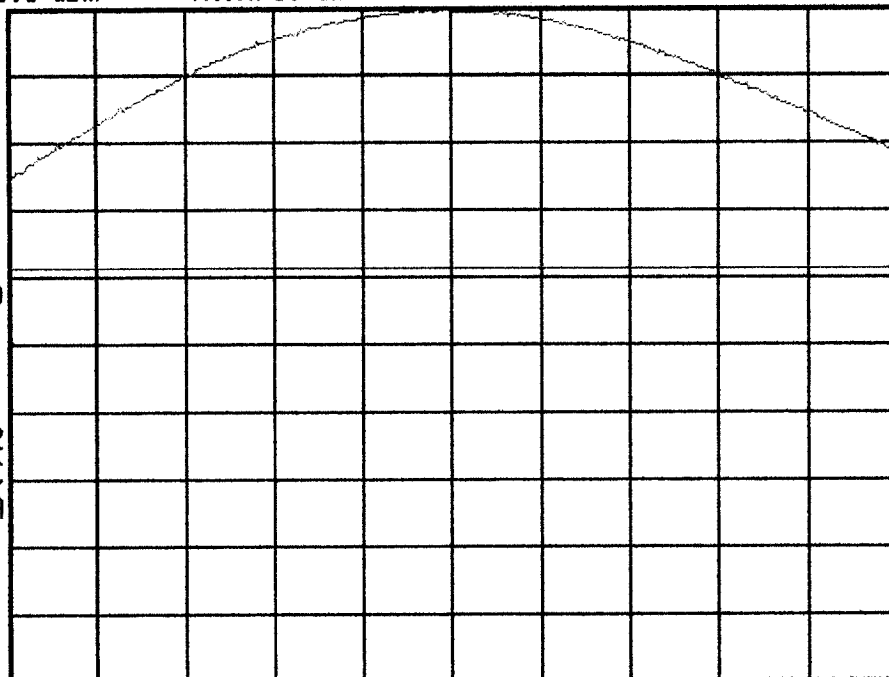
hp 15:18:02 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 PCS PWR OUT Ch 0600

Ref 25.5 dBm Atten 35 dB

Peak
Log
10
dB/
Offst
1.3
dB
DI
-13.0
dBm

V1 S2
S3 FC
AA



VBW 3 MHz

Span 10 MHz
Sweep 5 ms

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

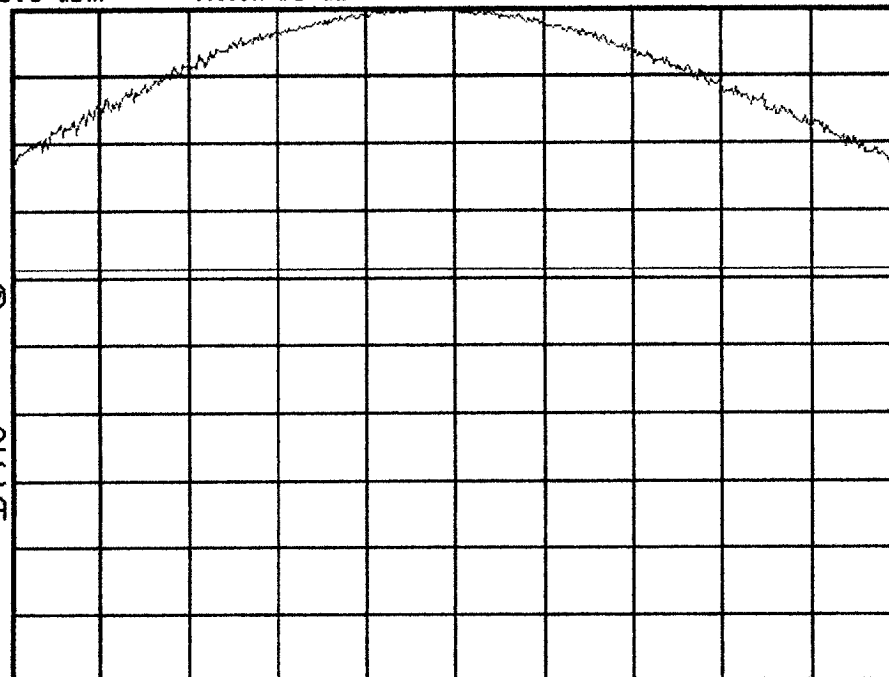
hp 15:19:51 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 PCS PWR OUT Ch 1175

Ref 25.5 dBm Atten 35 dB

Peak
Log
10
dB/
Offst
1.3
dB
DI
-13.0
dBm

V1 S2
S3 FC
AA



VBW 3 MHz

Span 10 MHz
Sweep 5 ms

Freq/Channel

Center Freq
1.90900000 GHz

Start Freq
1.90400000 GHz

Stop Freq
1.91400000 GHz

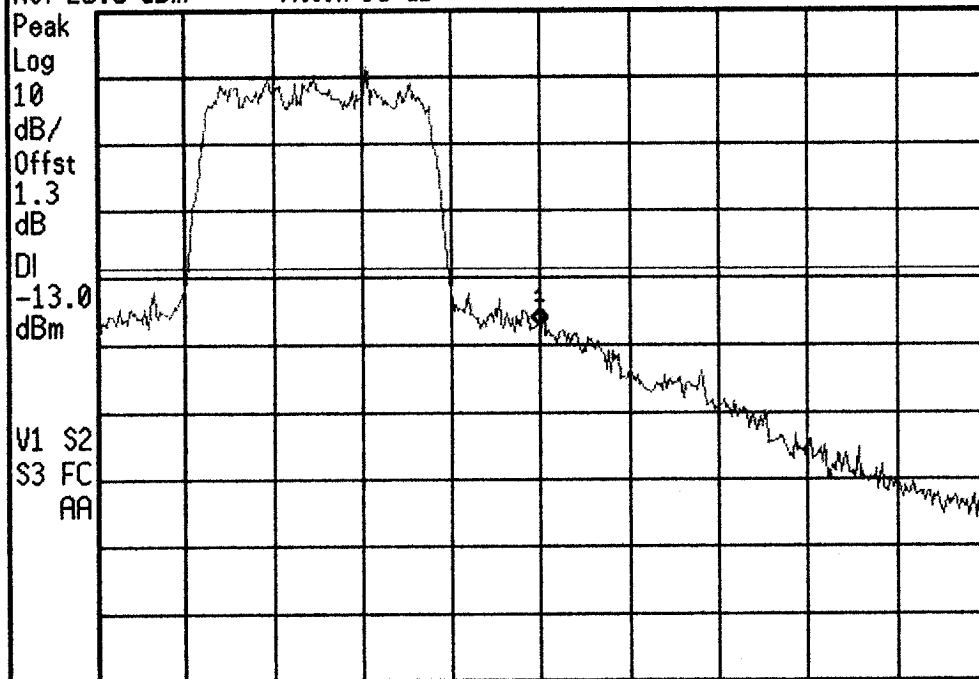
CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

hp 15:00:50 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 BAND EDGE PCS Ch1175 Mkr1 1.910000 GHz
Ref 25.5 dBm Atten 35 dB -21.59 dBm



Center 1.91 GHz Span 5 MHz
*Res BW 30 kHz VBW 30 kHz Sweep 13.89 ms

Print Setup

Print
Screen Report

Printer Type
Auto

Define
Custom

Orientation
Portrait

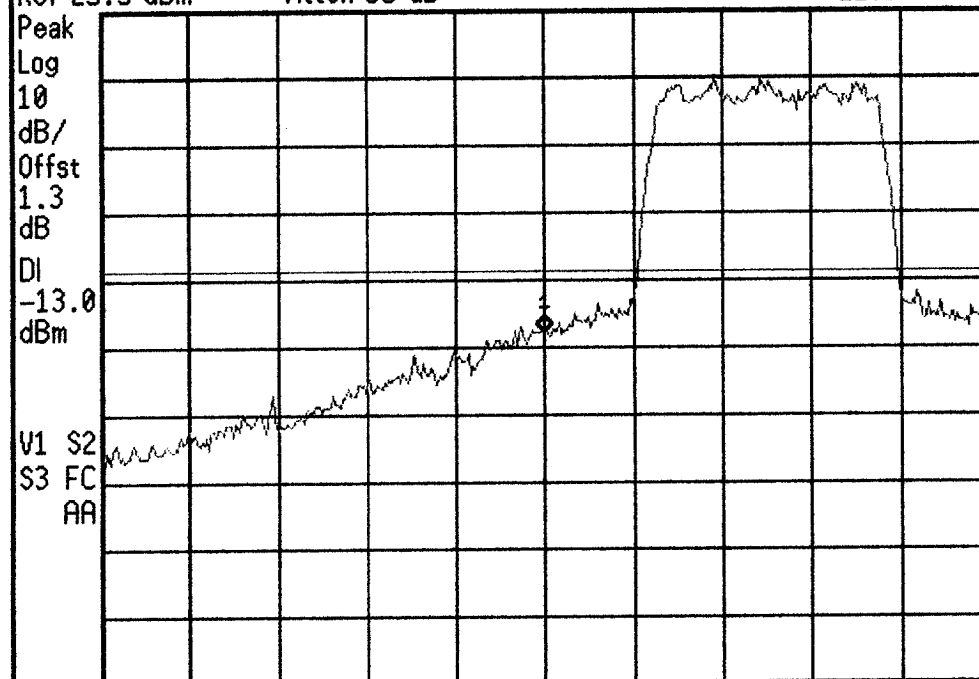
Color
On Off

Prints/Page
1 2

Eject Page

hp 15:05:22 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 BAND EDGE PCS Ch0025 Mkr1 1.850000 GHz
Ref 25.5 dBm Atten 35 dB -22.26 dBm



Center 1.85 GHz Span 5 MHz
*Res BW 30 kHz VBW 30 kHz Sweep 13.89 ms

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

hp 11:29:40 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 BAND EDGE PCS Ch1175 Mkr1 1.91250 GHz

Ref 25.5 dBm Atten 35 dB

-15.29 dBm

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0
dBm

V1 S2

S3 FC

AA

Center 1.913 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 1 MHz

Sweep 5 ms

Freq/Channel

Center Freq

1.91300500 GHz

Start Freq

1.91250500 GHz

Stop Freq

1.91350500 GHz

CF Step

100.000000 kHz

Auto Man

Freq Offset

0.00000000 Hz

Signal Track

On Off

hp 11:30:33 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 BAND EDGE PCS Ch1175 Mkr1 1.913510 GHz

Ref 25.5 dBm Atten 35 dB

-20.24 dBm

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0
dBm

V1 S2

S3 FC

AA

Center 1.914 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 1 MHz

Sweep 5 ms

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

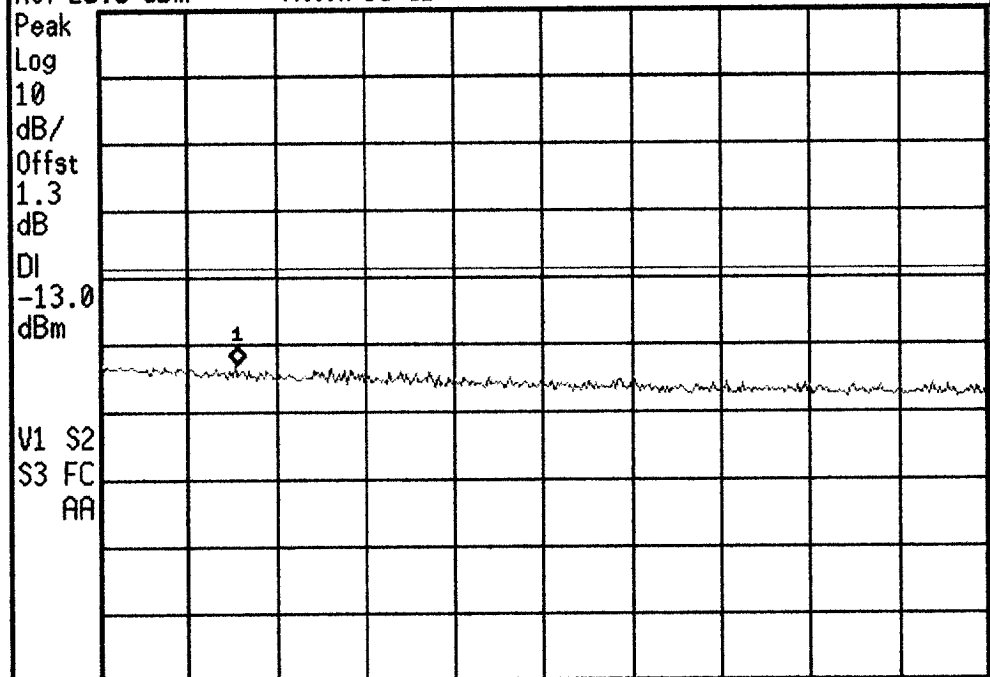
0.00000000 Hz

Signal Track

On Off

hp 11:31:33 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 BAND EDGE PCS Ch1175 Mkr1 1.914655 GHz
Ref 25.5 dBm Atten 35 dB -27.44 dBm



Center 1.915 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 1 MHz

Sweep 5 ms

Freq/Channel

Center Freq
1.91500000 GHz

Start Freq
1.91450000 GHz

Stop Freq
1.91550000 GHz

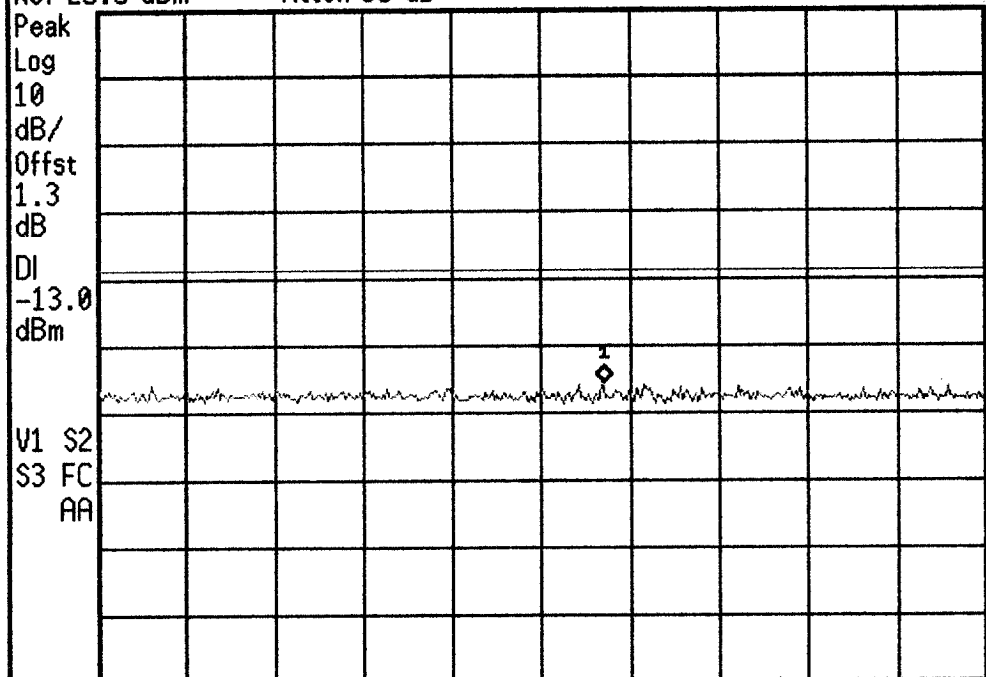
CF Step
100.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

hp 11:32:27 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 BAND EDGE PCS Ch1175 Mkr1 1.916070 GHz
Ref 25.5 dBm Atten 35 dB -30.07 dBm



Center 1.916 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 1 MHz

Sweep 5 ms

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

hp 11:21:16 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 BAND EDGE PCS Ch0025 Mkr1 1.847498 GHz

Ref 25.5 dBm

Atten 35 dB

-16.18 dBm

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0

dBm

V1 S2

S3 FC

AA

Center 1.847 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 1 MHz

Sweep 5 ms

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

hp 11:22:18 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 BAND EDGE PCS Ch0025 Mkr1 1.846453 GHz

Ref 25.5 dBm

Atten 35 dB

-26.18 dBm

Peak

Log

10

dB/

Offst

1.3

dB

DI

-13.0

dBm

V1 S2

S3 FC

AA

Center 1.846 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 1 MHz

Sweep 5 ms

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

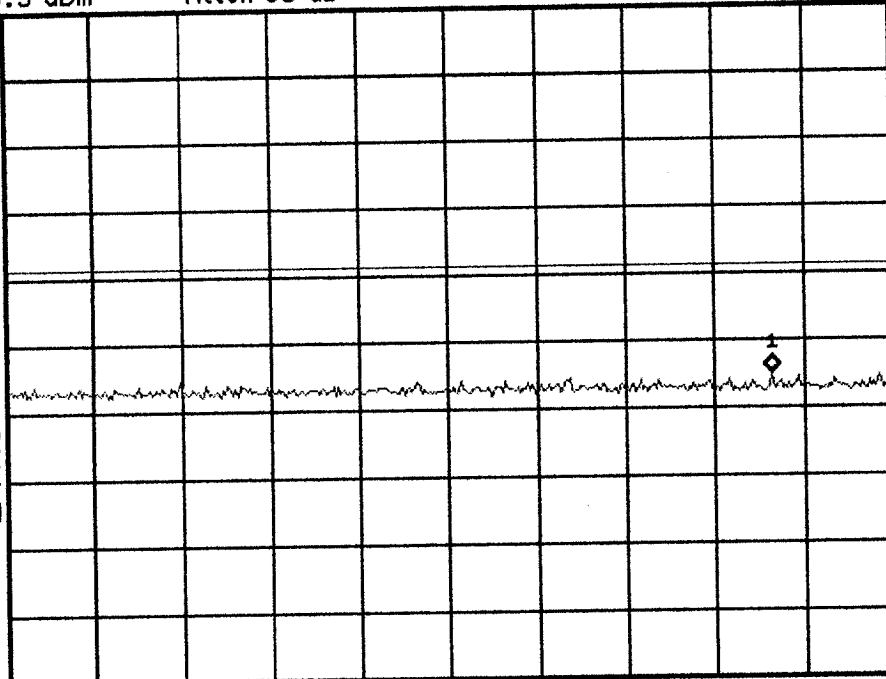
Signal Track

On

Off



11:23:59 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 BAND EDGE PCS Ch0025 Mkr1 1.845365 GHz
Ref 25.5 dBm Atten 35 dB -29.48 dBmPeak
Log
10
dB/
Offst
1.3
dB
DI
-13.0
dBmV1 S2
S3 FC
AA

Center 1.845 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 1 MHz

Sweep 5 ms

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

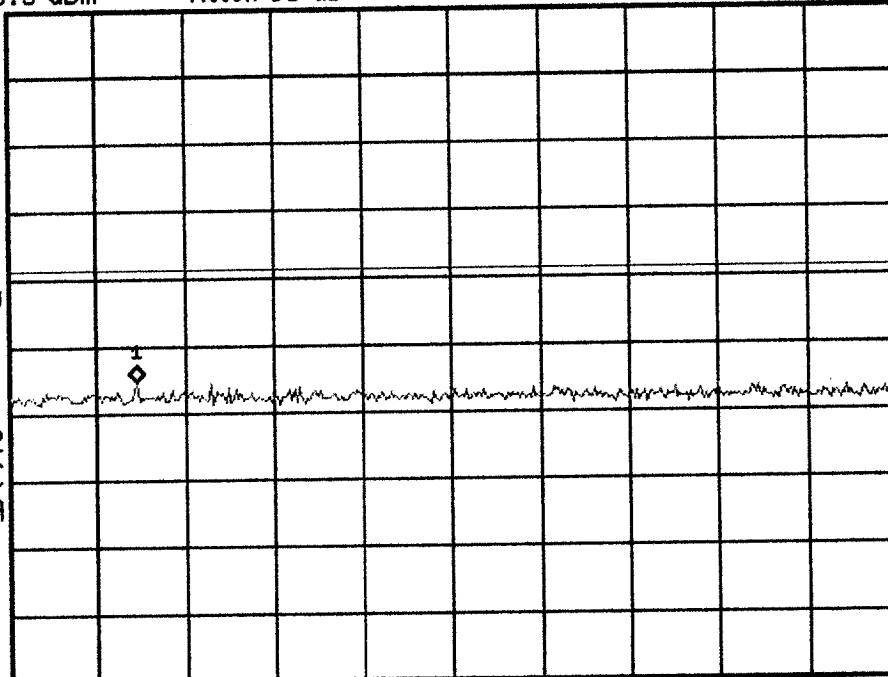
0.00000000 Hz

Signal Track

On Off



11:24:58 Mar 23, 2000

SAMSUNG MODEL: SPH-T100 BAND EDGE PCS Ch0025 Mkr1 1.843645 GHz
Ref 25.5 dBm Atten 35 dB -29.67 dBmPeak
Log
10
dB/
Offst
1.3
dB
DI
-13.0
dBmV1 S2
S3 FC
AA

Center 1.844 GHz

*Res BW 3 MHz

VBW 3 MHz

Span 1 MHz

Sweep 5 ms

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

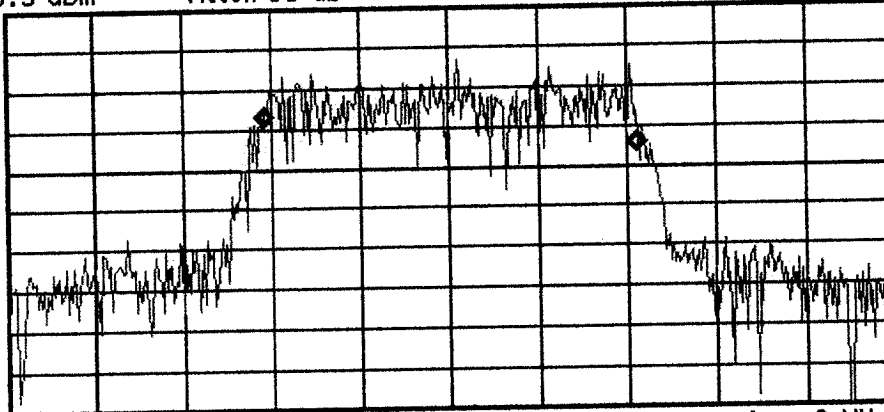
On Off

hp 10:49:12 Mar 24, 2000

SAMSUNG MODEL: SPH-T100 PWR OUT PCS Ch 0600

Ref 25.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
1.3
dB



Center 1.88 GHz

*Res BW 30 kHz

*VBW 300 kHz

Span 3 MHz

Sweep 9.167 ms

Occupied Bandwidth Results (idle)

Occupied Bandwidth

1.251 MHz

Occ BW % Pwr 99.00 %

Transmit Freq Error 2.313 kHz

Freq/Channel

Center Freq

1.88000000 GHz

Start Freq

1.87850000 GHz

Stop Freq

1.88150000 GHz

CF Step

300.000000 kHz

Auto Man

Freq Offset

0.00000000 Hz

Signal Track

On Off