

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:BEJLX5450

LG Electronics

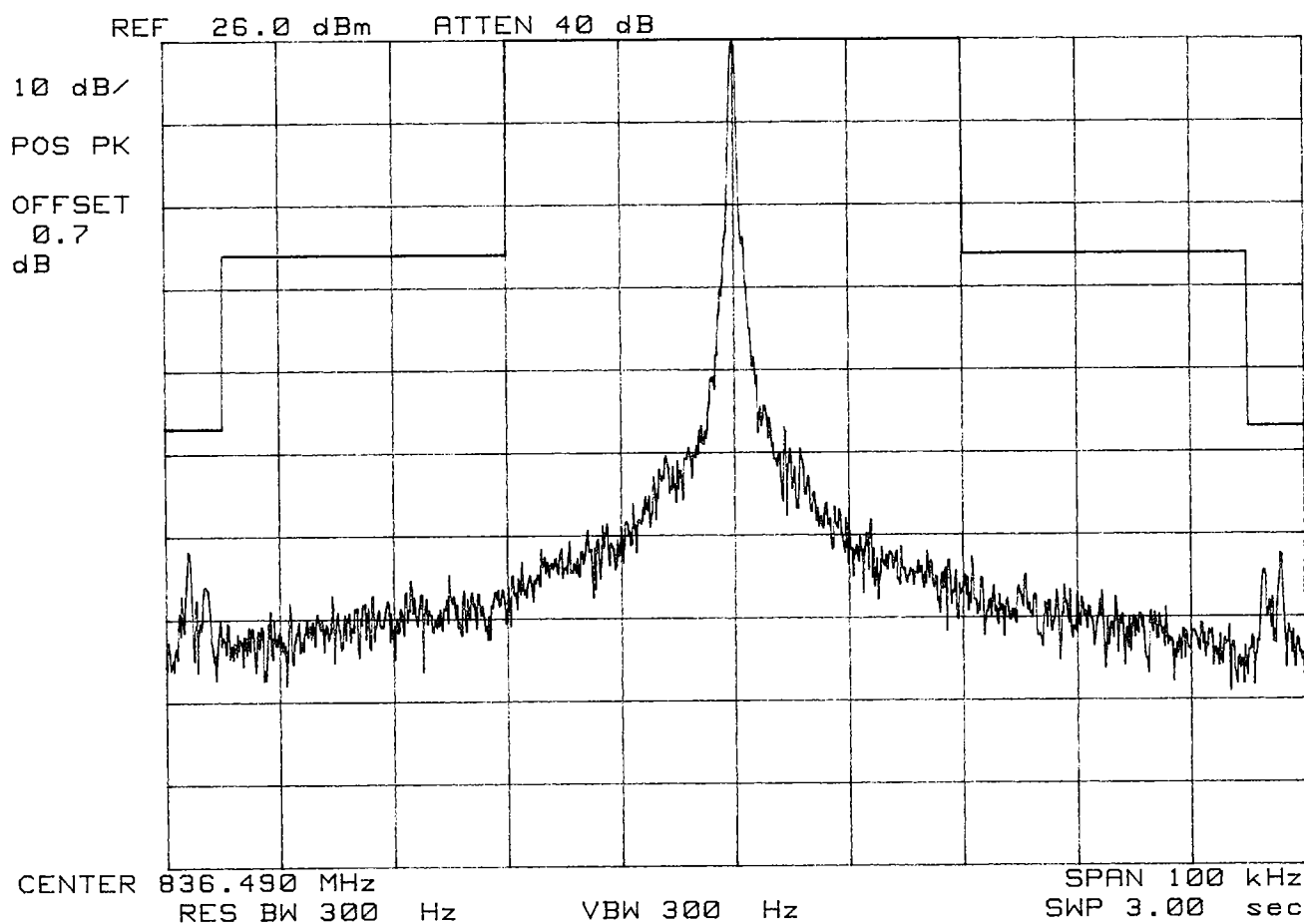
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.0 dBm

Test Mode:Unmodulated Signal



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:BEJLX5450

LG Electronics

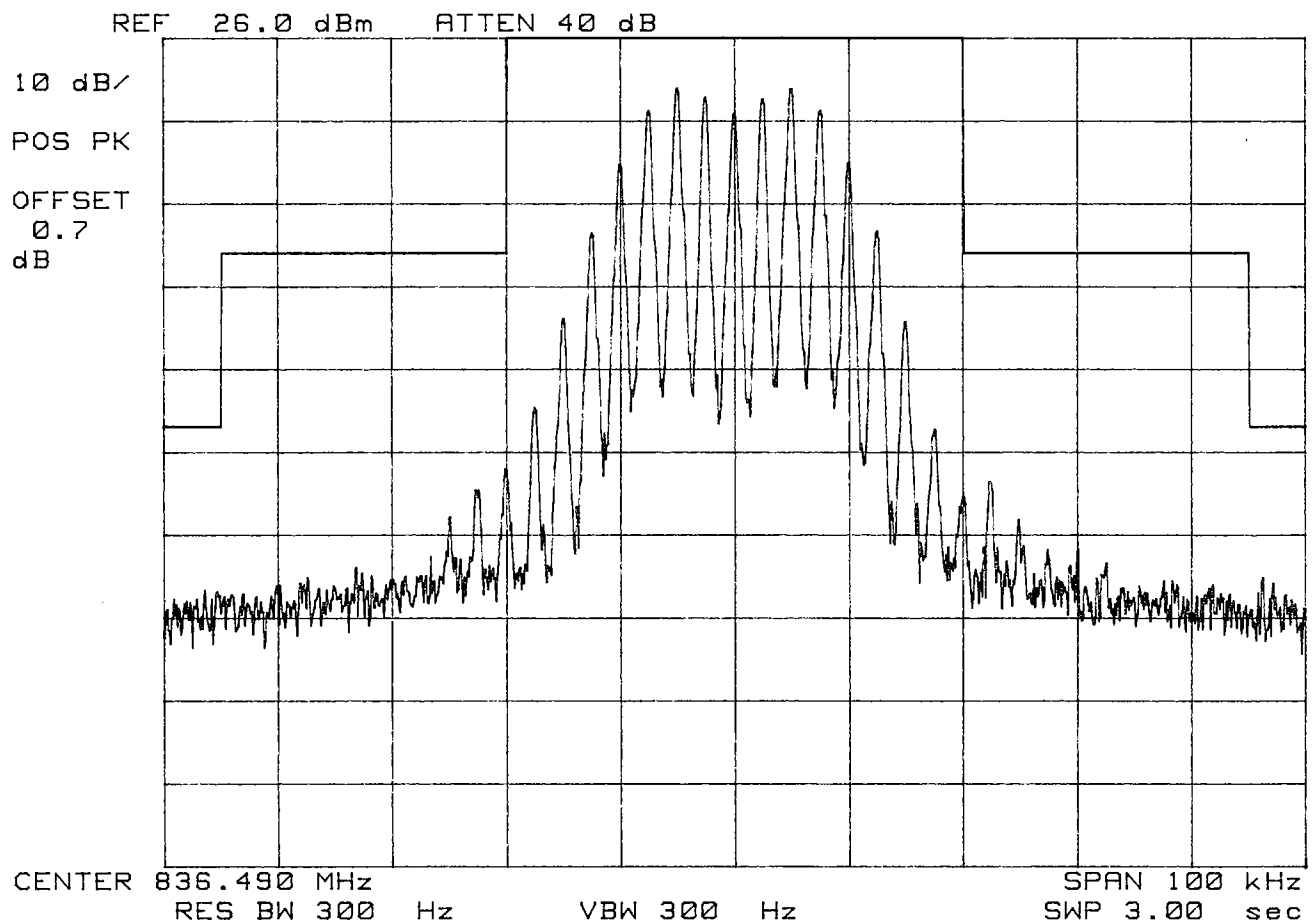
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.0 dBm

Test Mode:Voice



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:BEJLX5450

LG Electronics

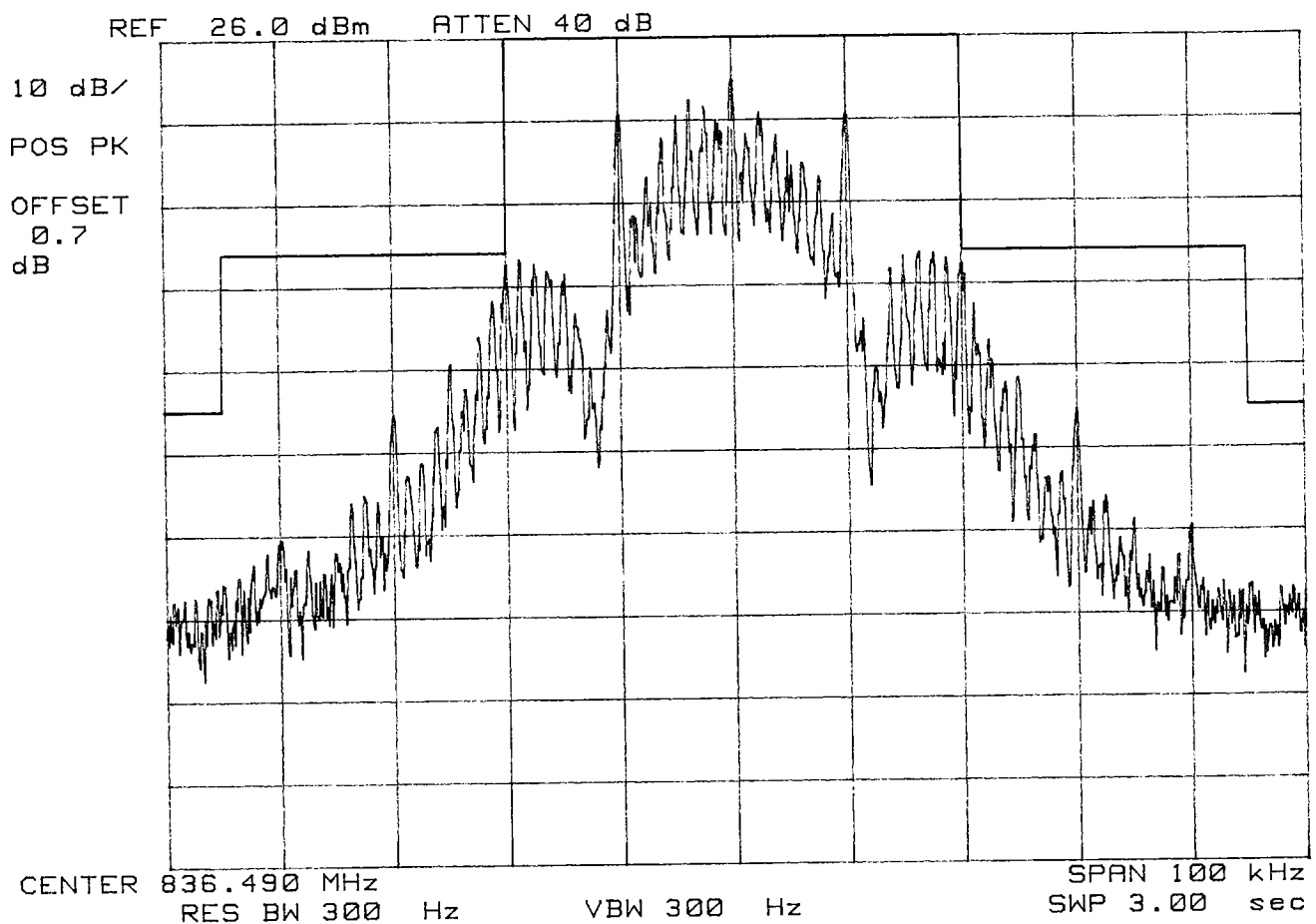
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.0 dBm

Test Mode:Wide Band Data



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:BEJLX5450

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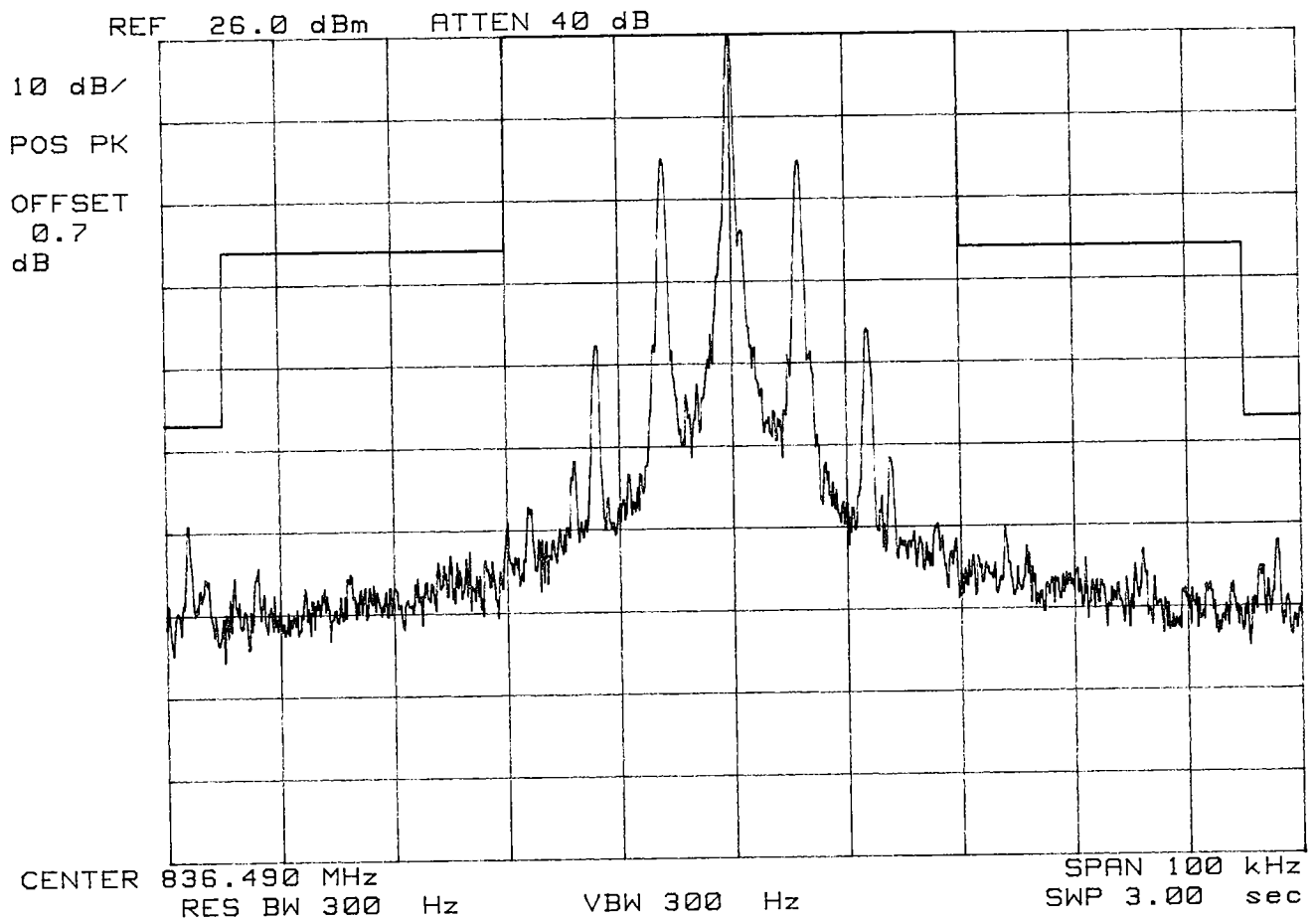
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.0 dBm

Test Mode:SAT



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:BEJLX5450

LG Electronics

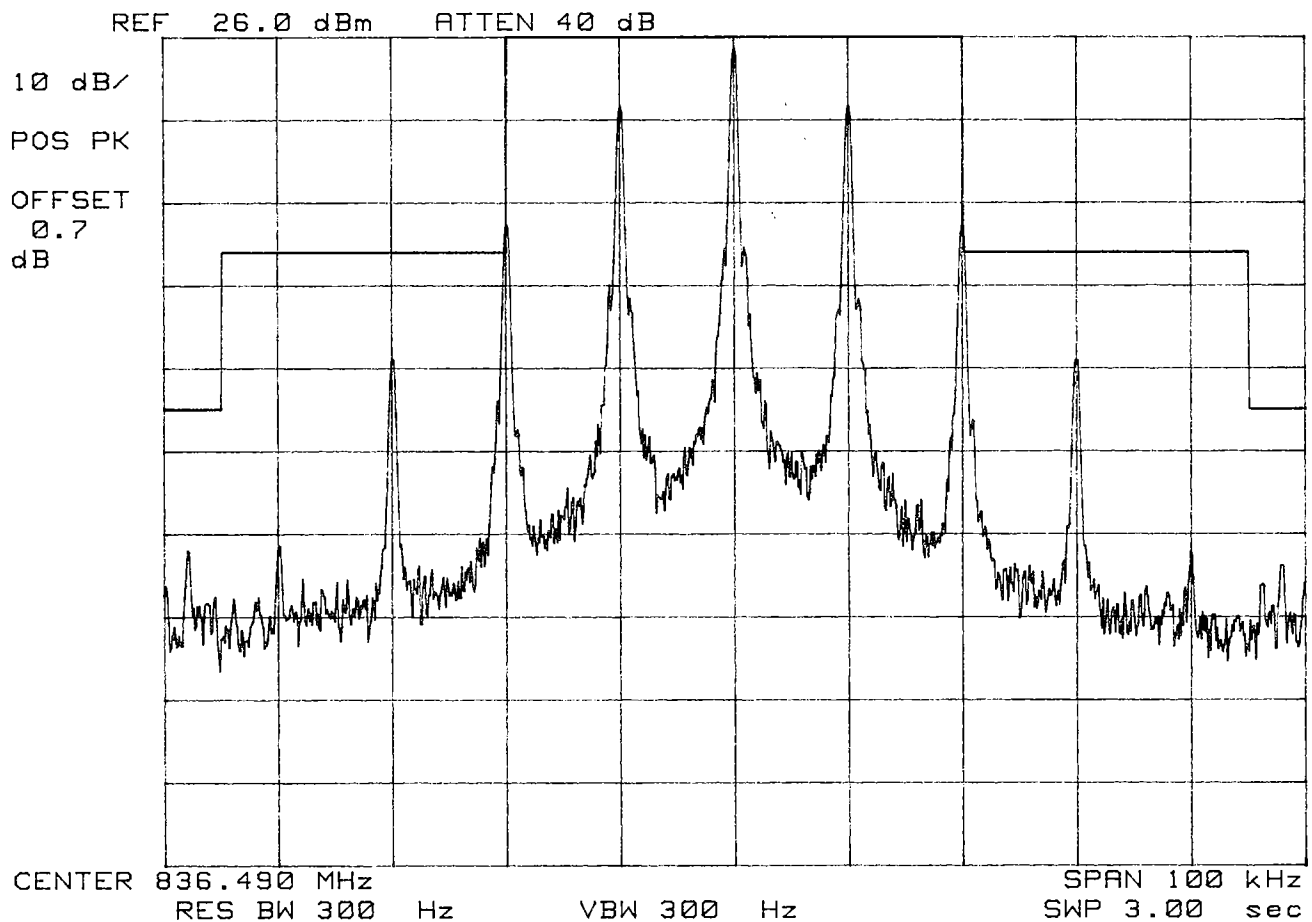
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.0 dBm

Test Mode:ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:BEJLX5450

LG Electronics

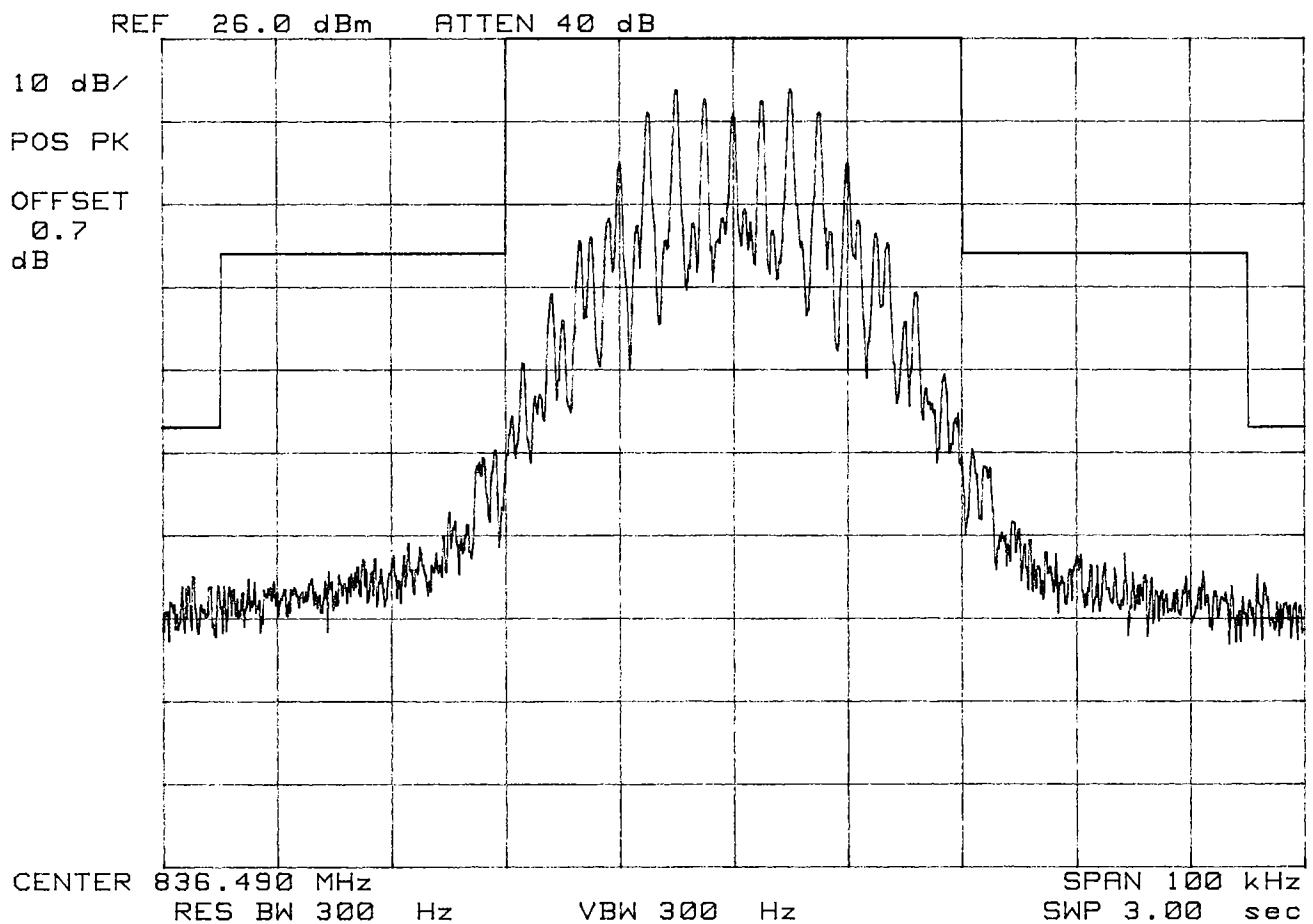
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.0 dBm

Test Mode:SAT + Voice



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:BEJLX5450

LG Electronics

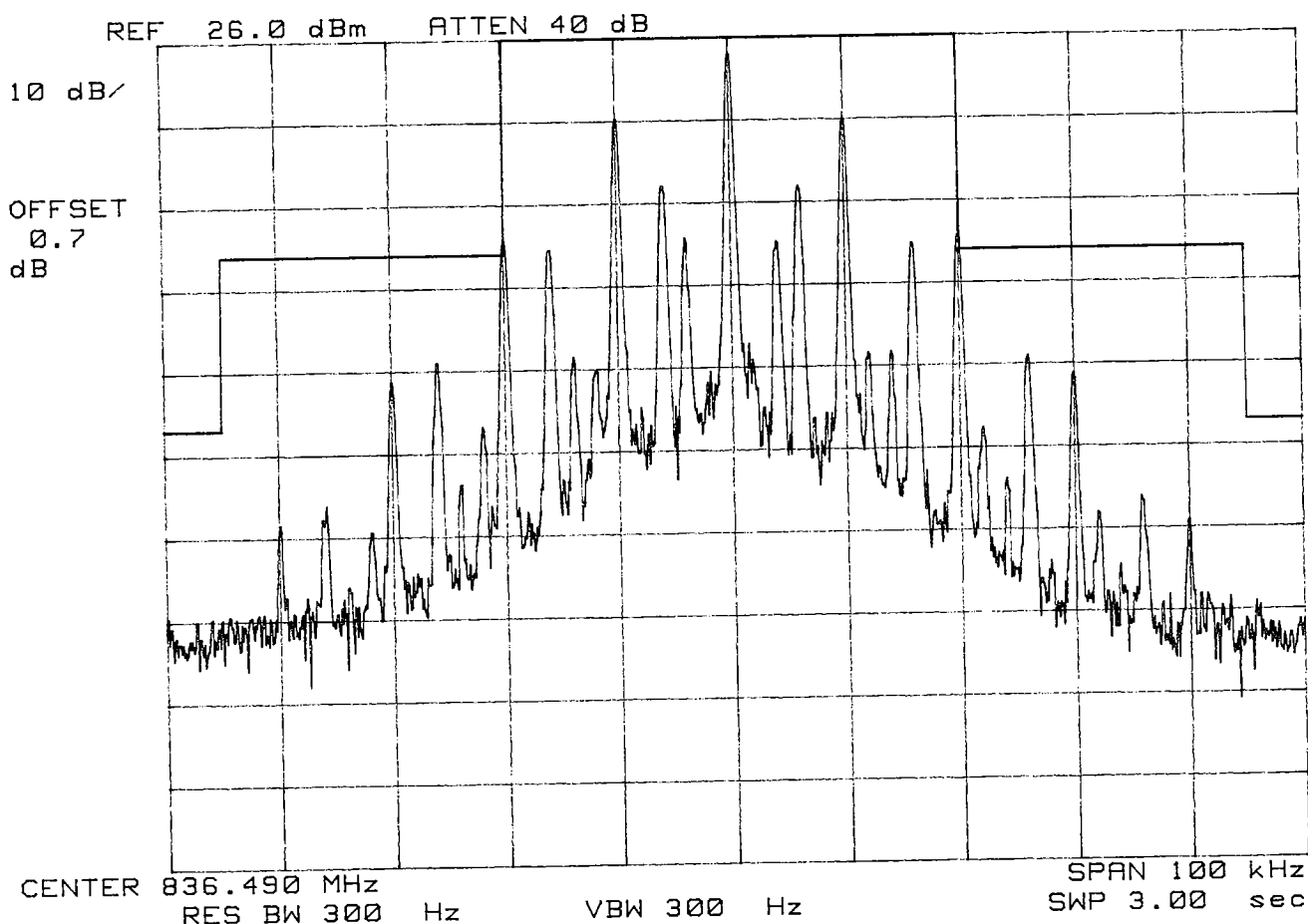
Tri-Mode Phone

FM Channel 383

Operating Frequency: 836.490 MHz

Output Power : 26.0 dBm

Test Mode:SAT + ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:BEJLX5450

LG Electronics

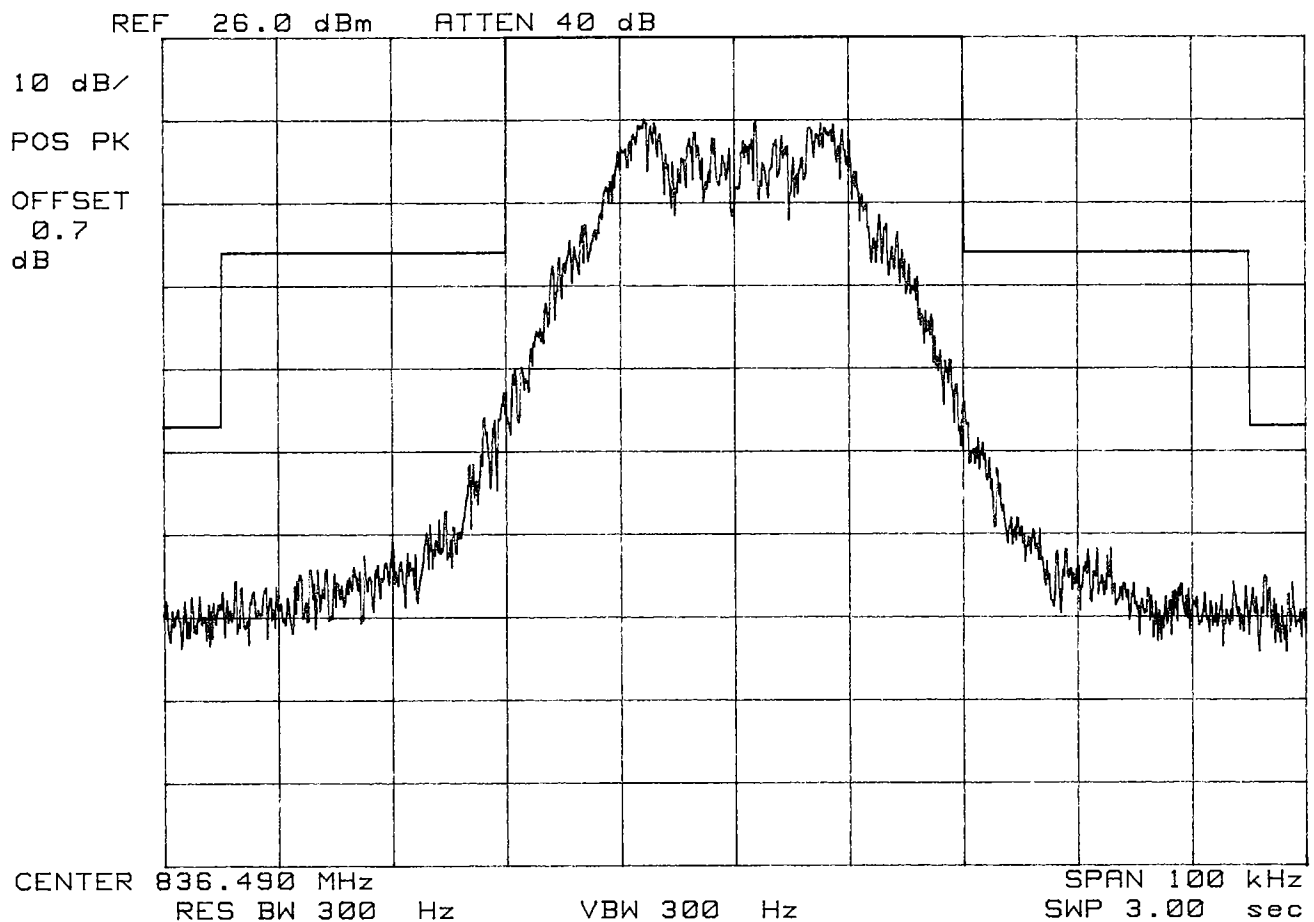
Tri-Mode Phone

FM Channel 383

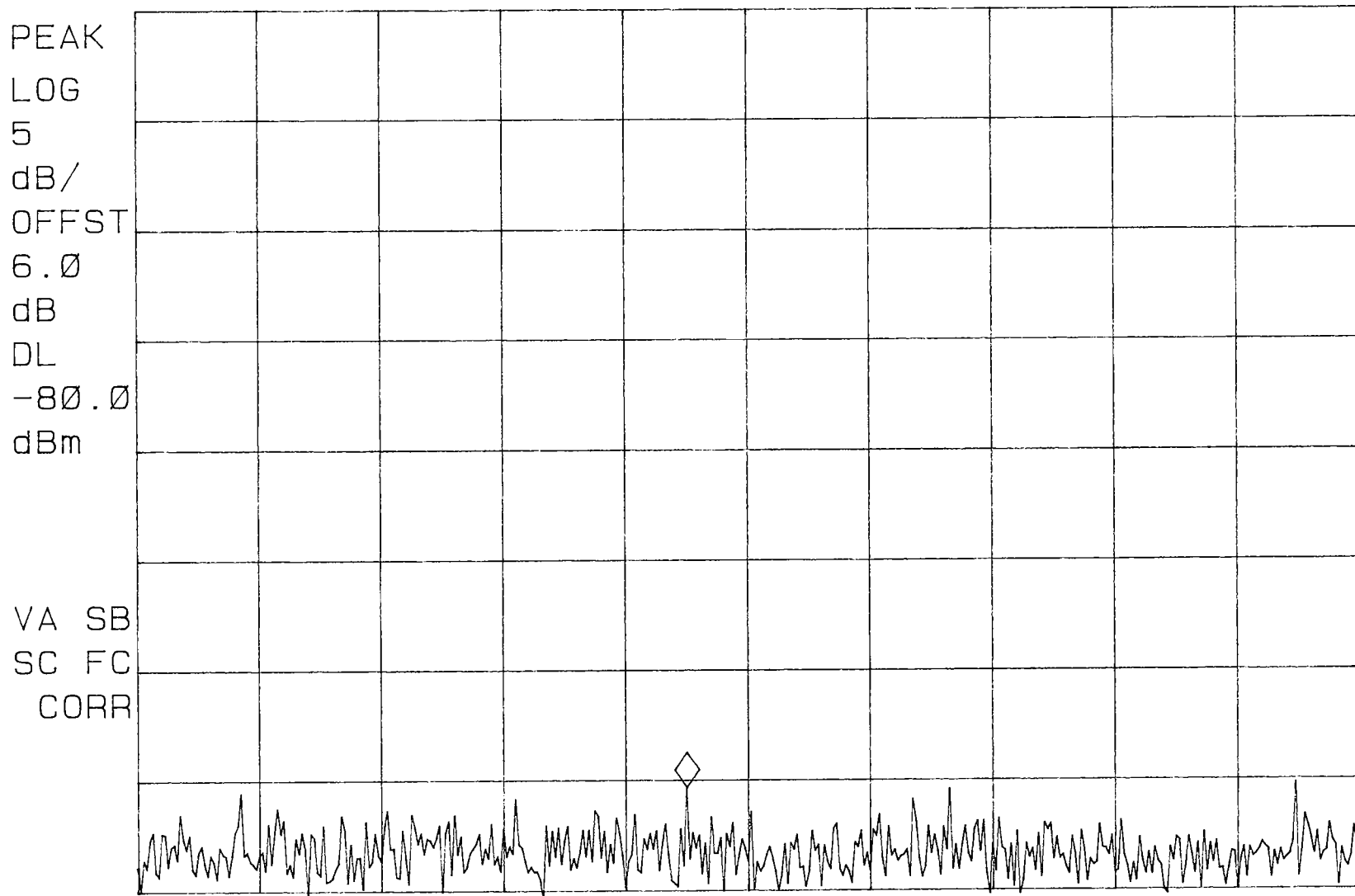
Operating Frequency: 836.490 MHz

Output Power : 26.0 dBm

Test Mode:SAT + DTMF



~~/~~ FCC ID: BEJLX5450 CDMA MODE MKR 880.25 MHz
REF -60.0 dBm ATTEN 10 dB PG 25.0 dB -95.32 dBm

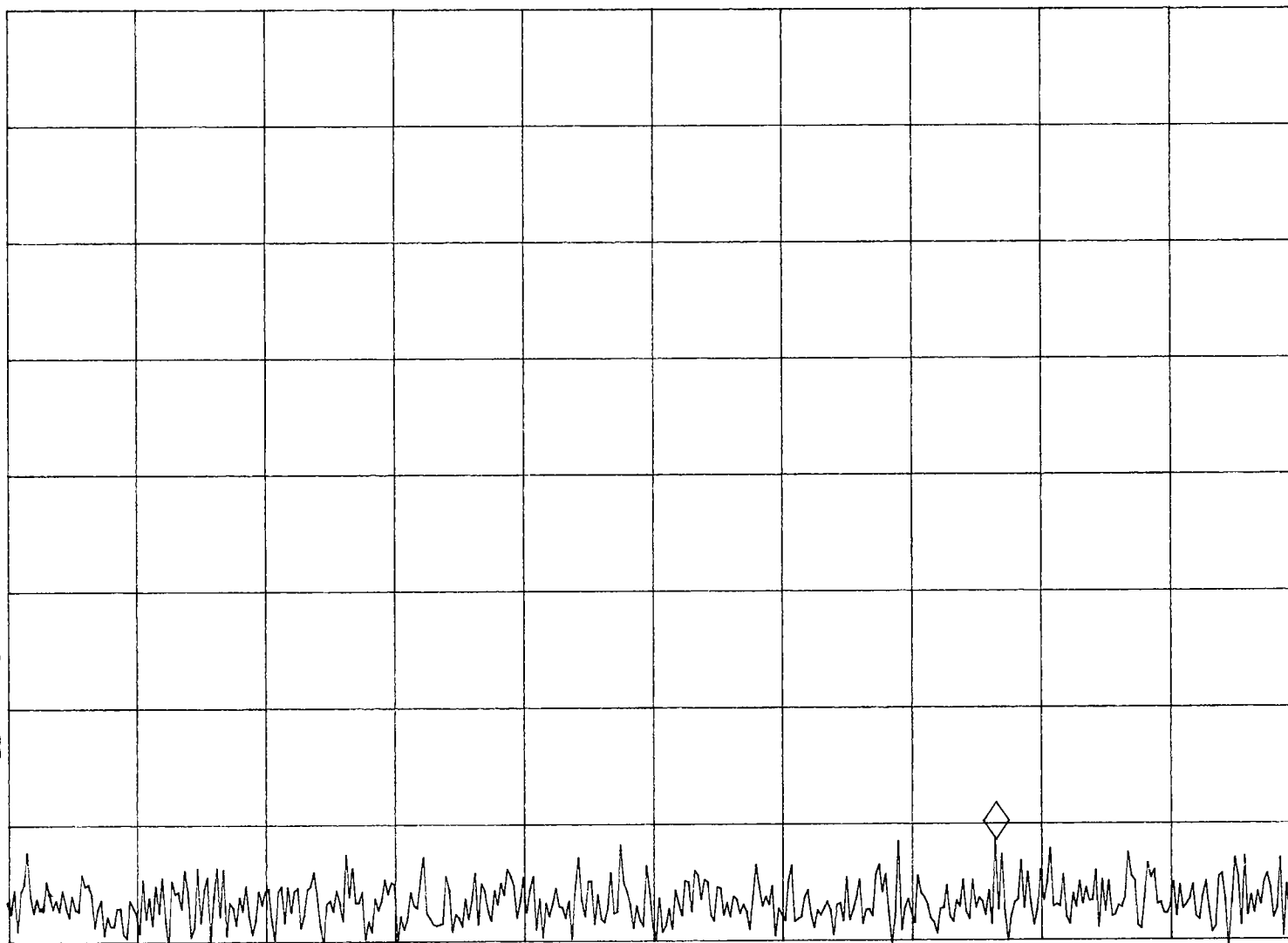


START 869.00 MHz STOP 894.00 MHz
#RES BW 100 kHz #VBW 300 kHz SWP 20 msec

~~h~~ FCC ID: BEJLX5450 FM MODE MKR 888.12 MHz
REF -60.0 dBm ATTEN 10 dB PG 25.0 dB -95.68 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

Agilent

MODEL: LG-LX5450 CON SPURS FM C-991

Mkr1 2.475 GHz

Ref 26 dBm

Atten 40 dB

-28.02 dBm

Peak

Log

10

dB/

Offst

0.7

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 4.15 ms (401 pts)

Freq/Channel

Center Freq

1.25500000 GHz

Start Freq

10.00000000 MHz

Stop Freq

2.50000000 GHz

CF Step

249.000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Scale Type

Log

Lin

Agilent

MODEL: LG-LX5450 CON SPURS FM C-991

Mkr1 7.54 GHz

Ref 26 dBm

Atten 40 dB

-32.36 dBm

Peak

Log

10

dB/

Offst

0.7

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 (401 pts)

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

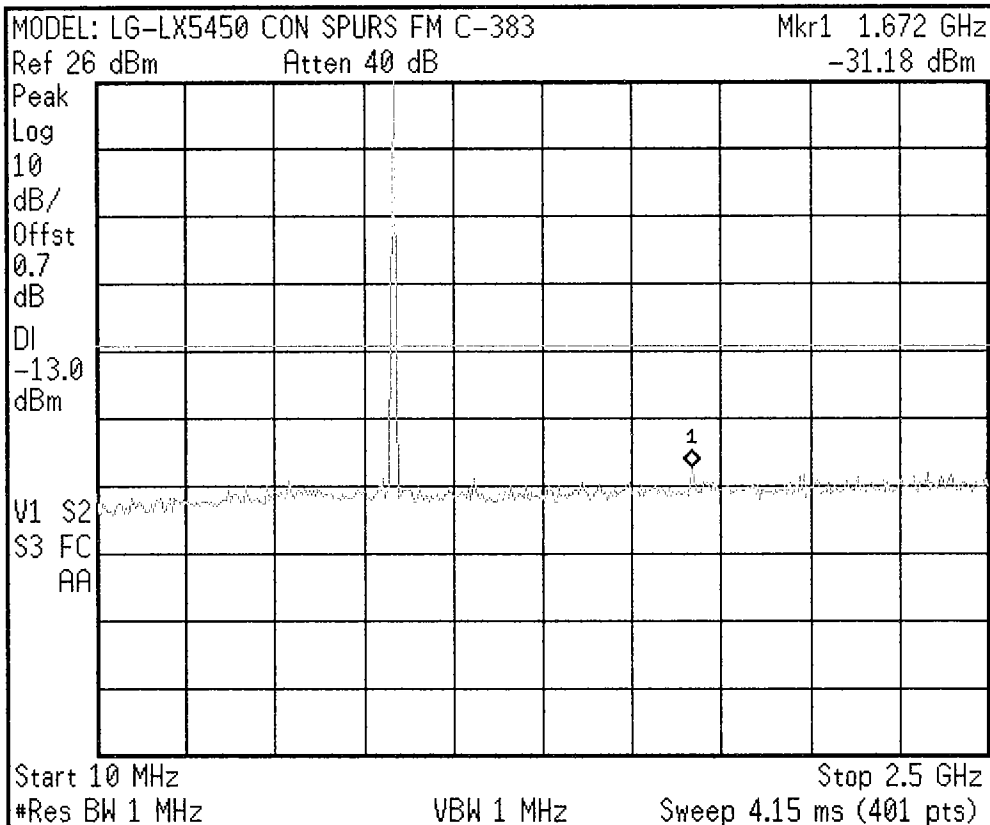
Off

Scale Type

Log

Lin

Agilent



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

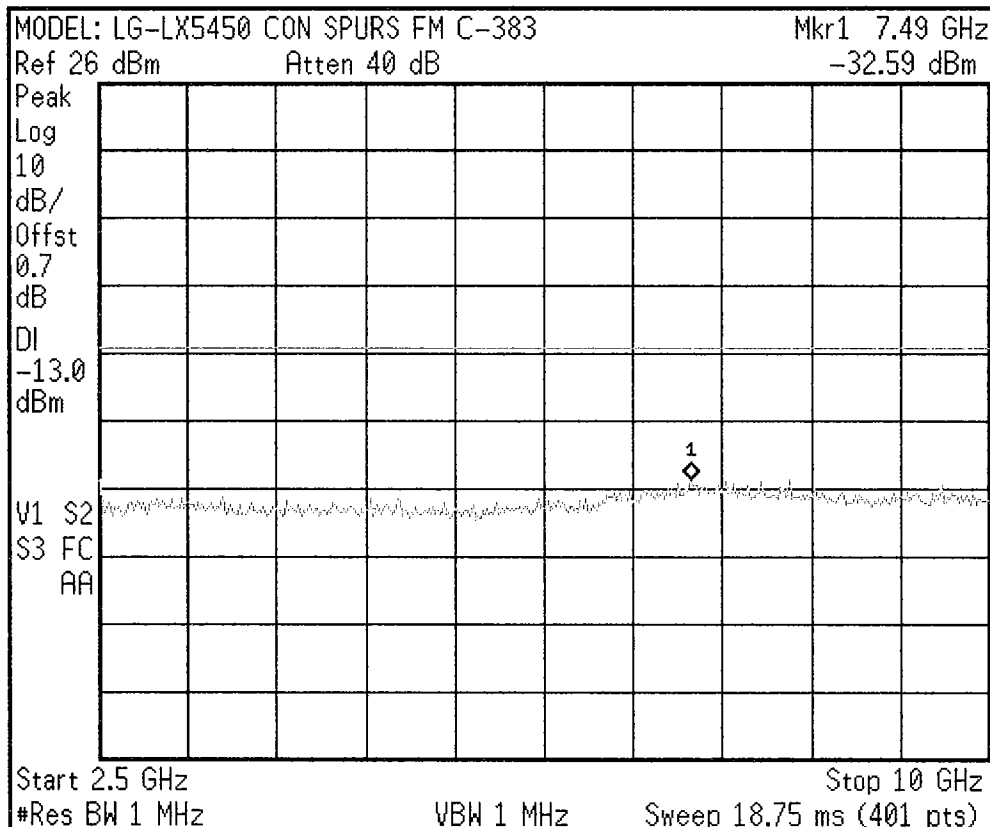
Signal Track

On Off

Scale Type

Log Lin

Agilent



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

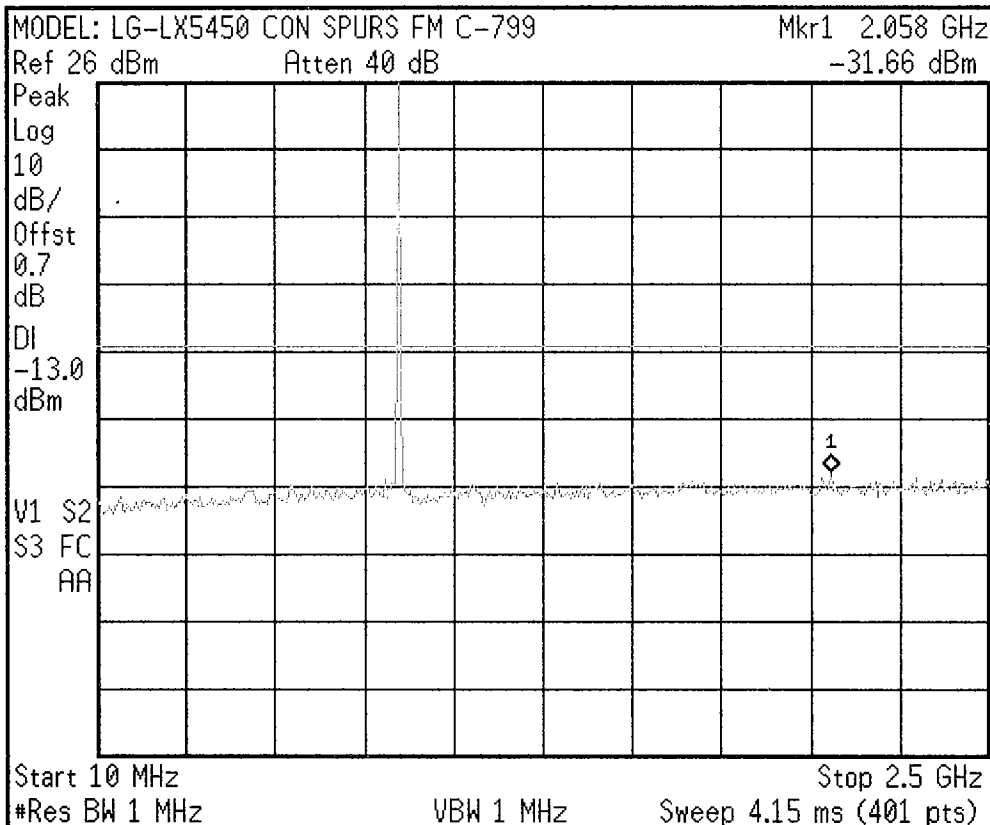
Signal Track

On Off

Scale Type

Log Lin

Agilent



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

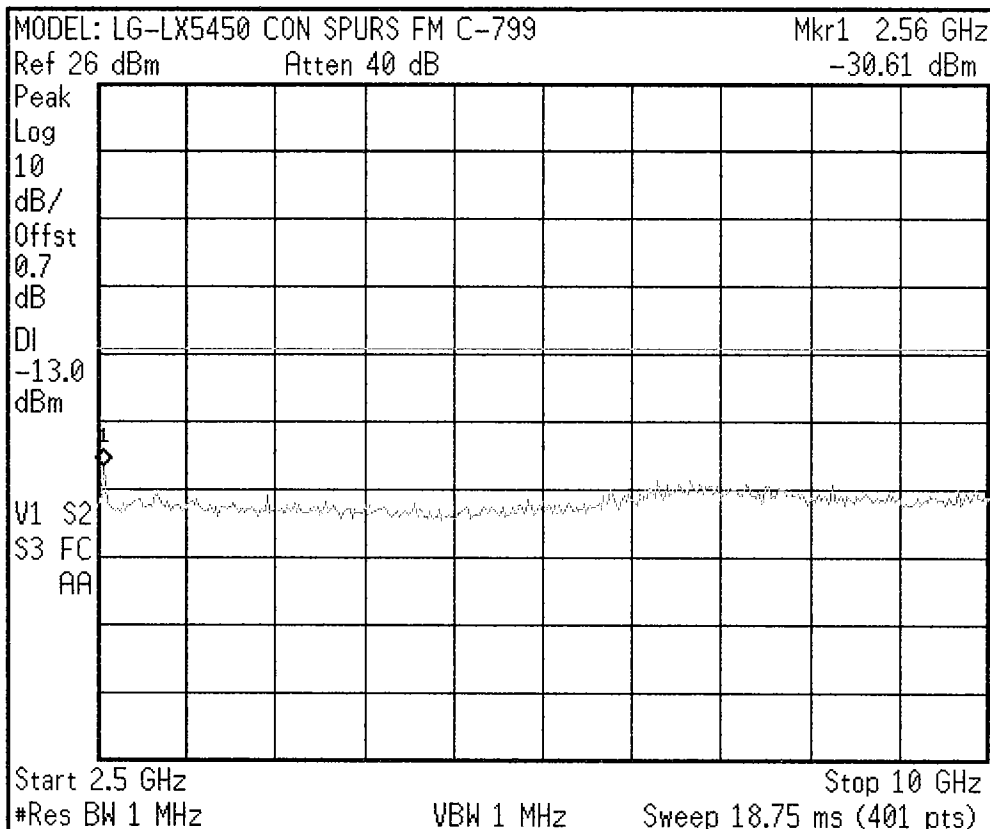
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

Agilent



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 10.0000000 GHz

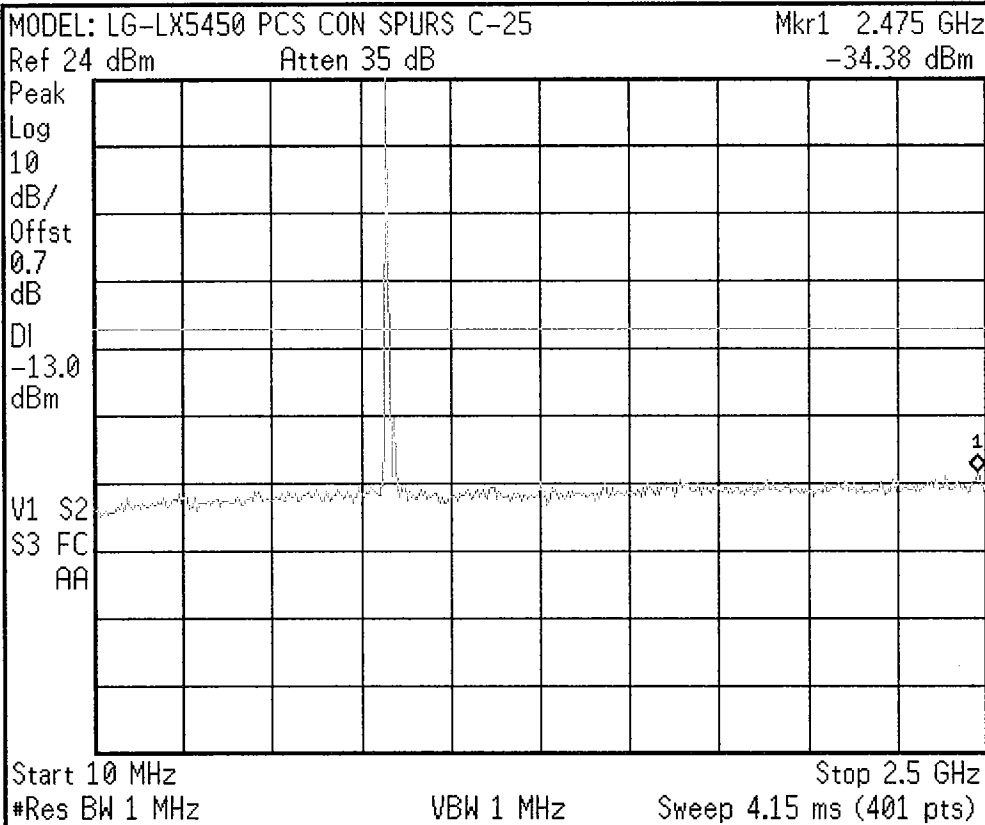
CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

Agilent



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

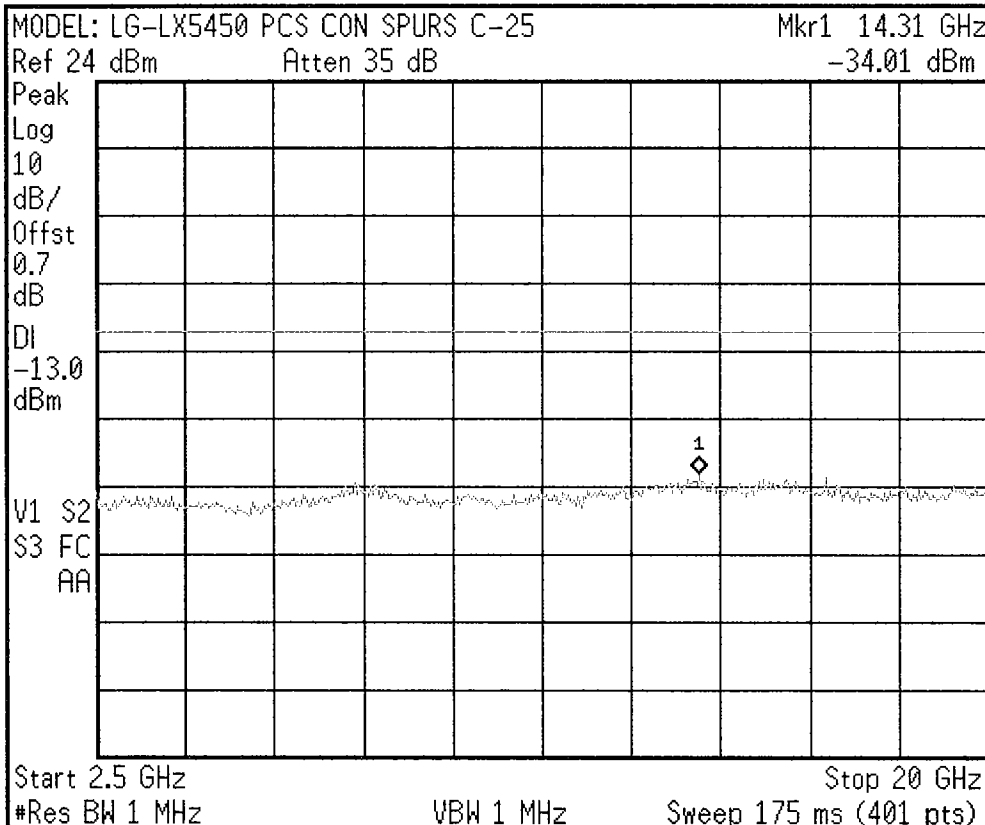
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

Agilent



Freq/Channel

Center Freq
 11.2500000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 20.0000000 GHz

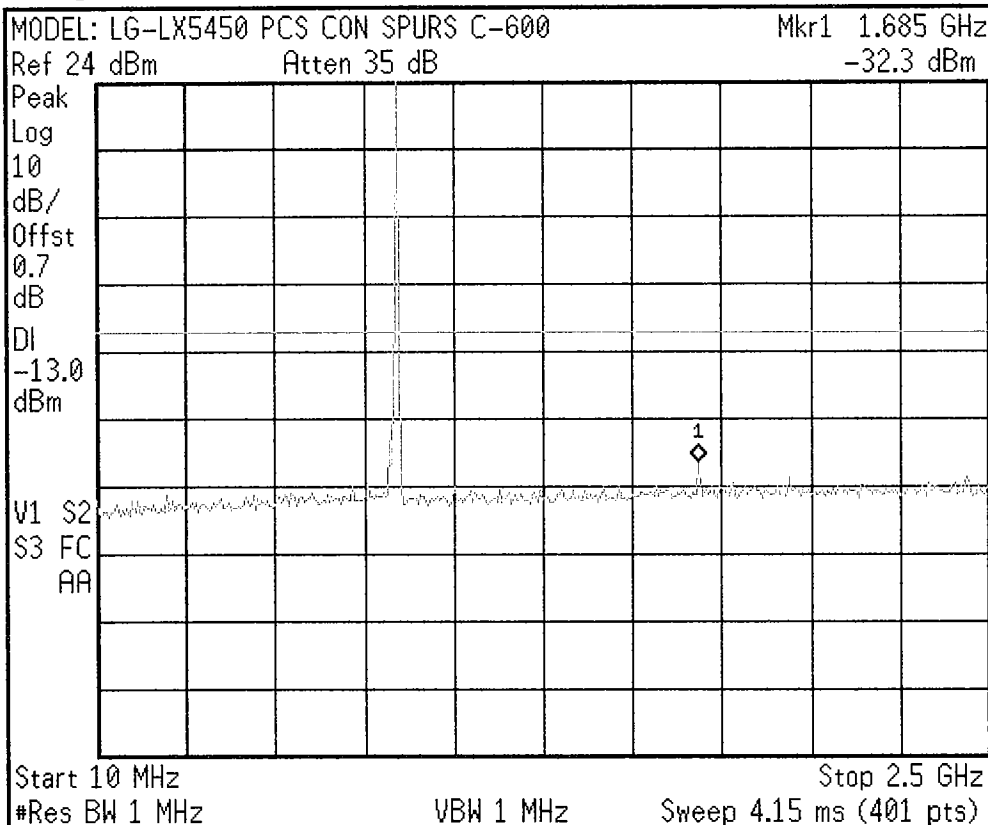
CF Step
 1.75000000 GHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

Agilent



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

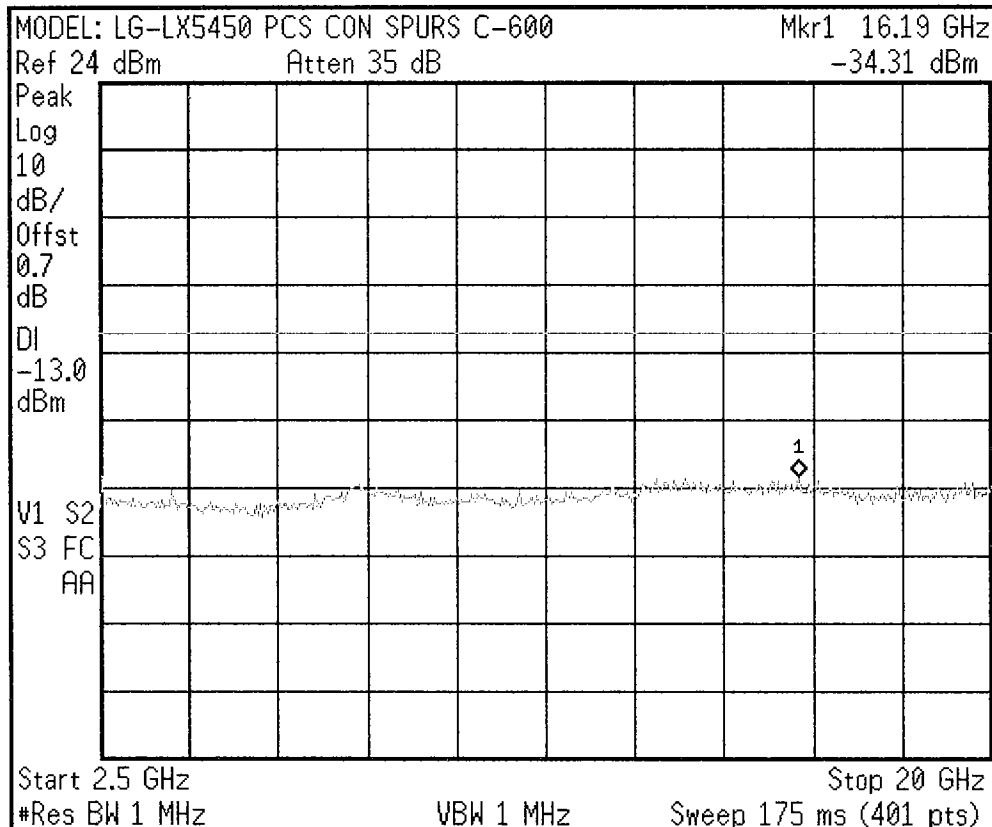
Signal Track

On Off

Scale Type

Log Lin

Agilent



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

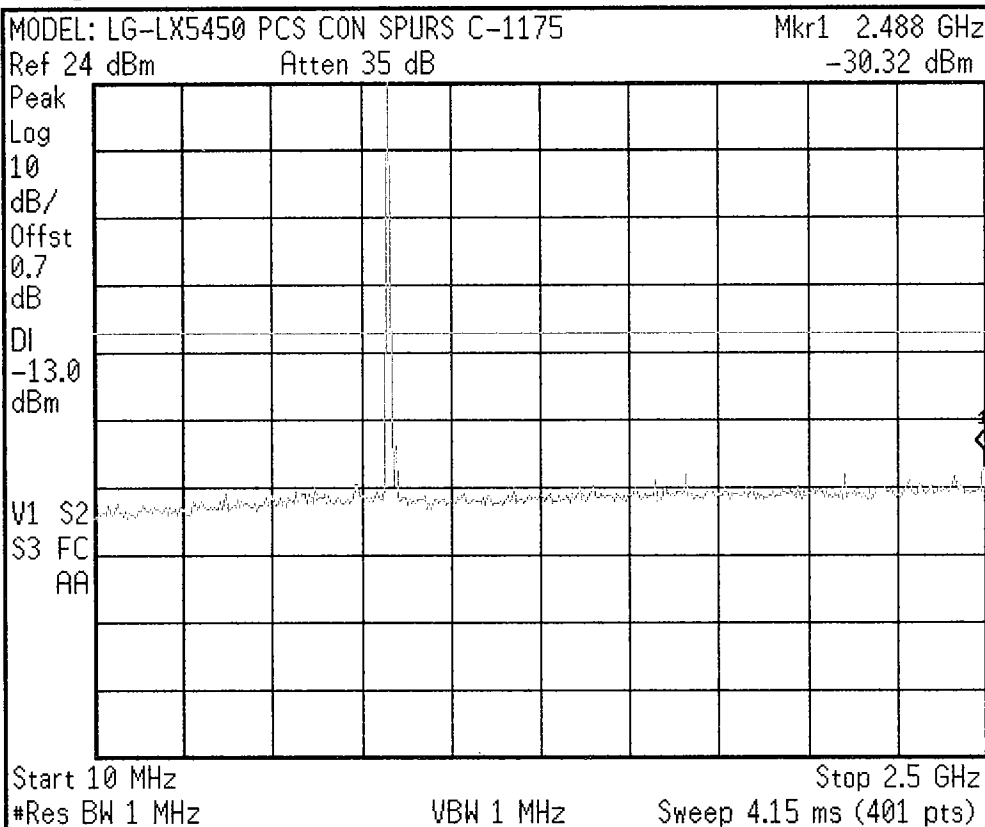
Signal Track

On Off

Scale Type

Log Lin

Agilent



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

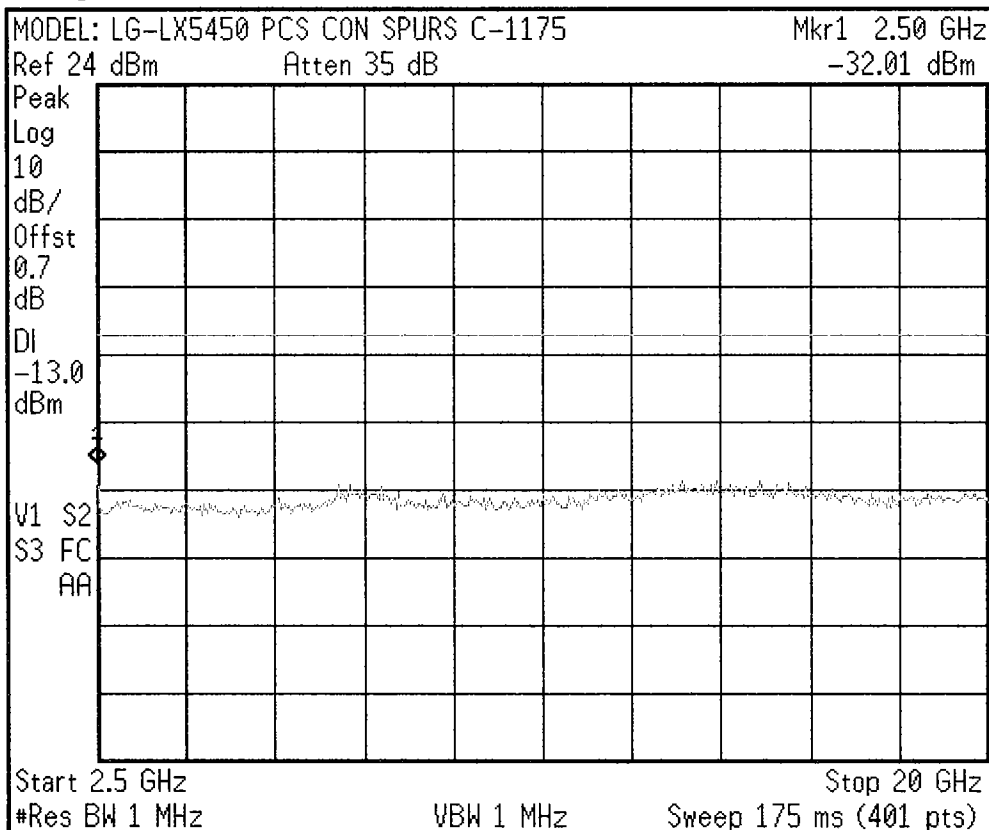
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

Agilent



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

Scale Type
 Log Lin

✱ Agilent

MODEL: LG-LX5450 PCS PWR OUT C-600 Mkr1 1.87500 GHz

Ref 24 dBm

Atten 35 dB

-4.102 dBm

Samp

Log

10

dB/

Offst

0.7

dB

VAvg

100

V1 S2

S3 FC

AA

Center 1.88 GHz

#Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 4 ms (401 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

Scale Type

Log

Lin

✱ Agilent

MODEL: LG-LX5450 PCS PWR OUT C-1175

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

VAvg

100

V1 S2

S3 FC

AA

Center 1.909 GHz

#Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 4 ms (401 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

Scale Type

Log

Lin

✱ Agilent

MODEL: LG-LX5450 PCS PWR OUT C-1175

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

VAvg

100

V1 S2

S3 FC

AA

Center 1.909 GHz

#Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 4 ms (401 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

Scale Type

Log

Lin

✱ Agilent

MODEL: LG-LX5450 PCS PWR OUT C-25

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

VAvg

100

V1 S2

S3 FC

AA

Center 1.851 GHz

#Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 4 ms (401 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

Scale Type

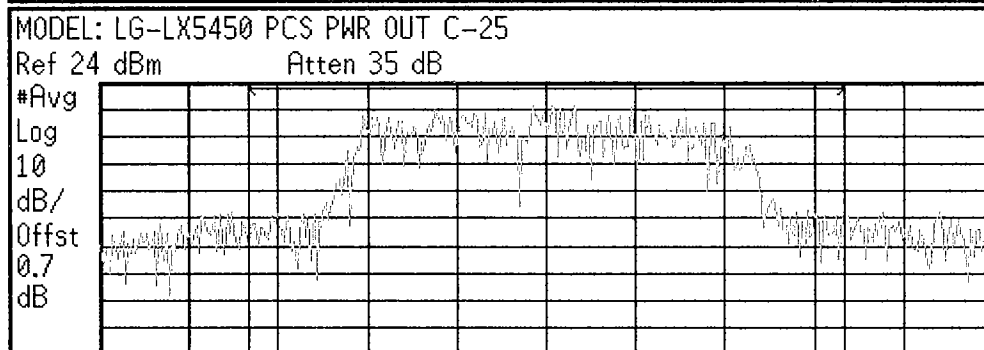
Log

Lin

Agilent

Ch Freq 1.85125 GHz Trig Free

Channel Power



Center 1.851 GHz Span 3 MHz

Res BW 30 kHz VBW 300 kHz Sweep 8 ms (401 pts)

Channel Power Power Spectral Density

24.01 dBm /2.0000 MHz -39.00 dBm/Hz

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

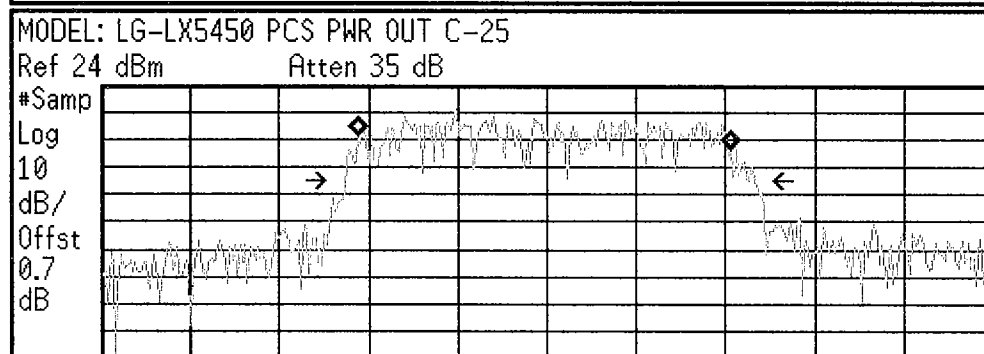
Signal Track On Off

Scale Type Log Lin

Agilent

Ch Freq 1.85125 GHz Trig Free

Occupied Bandwidth



Center 1.851 GHz Span 3 MHz

#Res BW 30 kHz #VBW 300 kHz Sweep 5.288 ms (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

1.2493 MHz x dB -26.00 dB

Transmit Freq Error -13.332 kHz

x dB Bandwidth 1.380 MHz*

Freq/Channel

Center Freq 1.85125000 GHz

Start Freq 1.84975000 GHz

Stop Freq 1.85275000 GHz

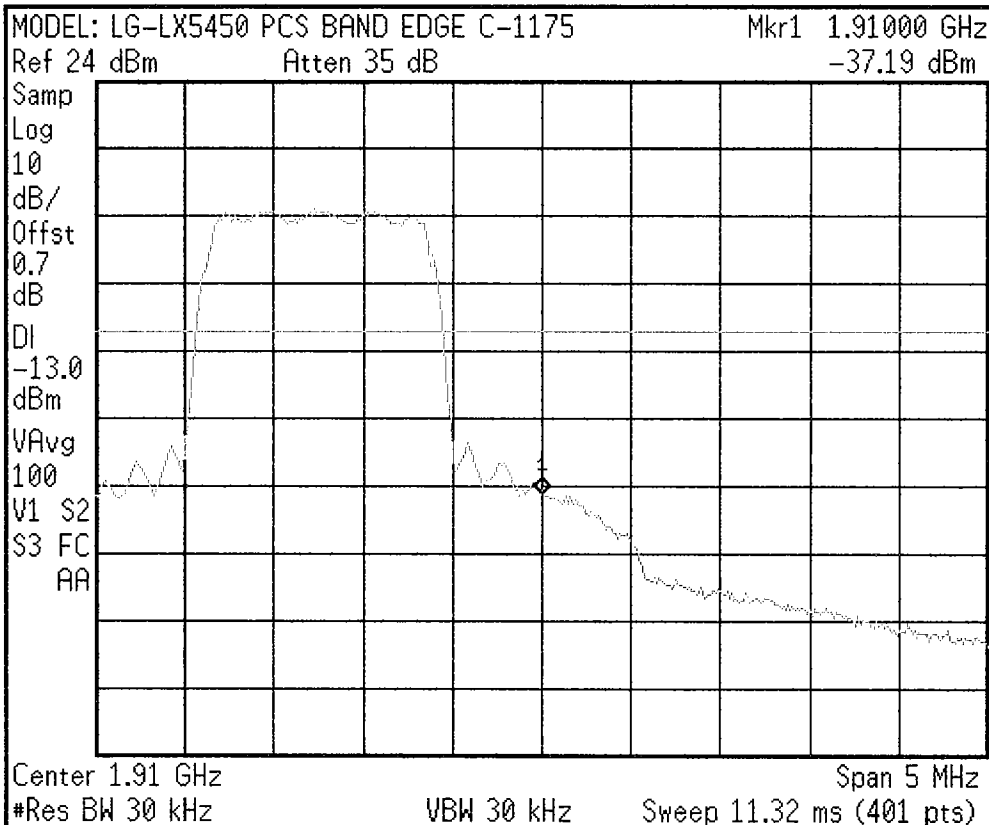
CF Step 300.000000 kHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

Scale Type Log Lin

✱ Agilent



Freq/Channel

Center Freq
 1.91000000 GHz

Start Freq
 1.90750000 GHz

Stop Freq
 1.91250000 GHz

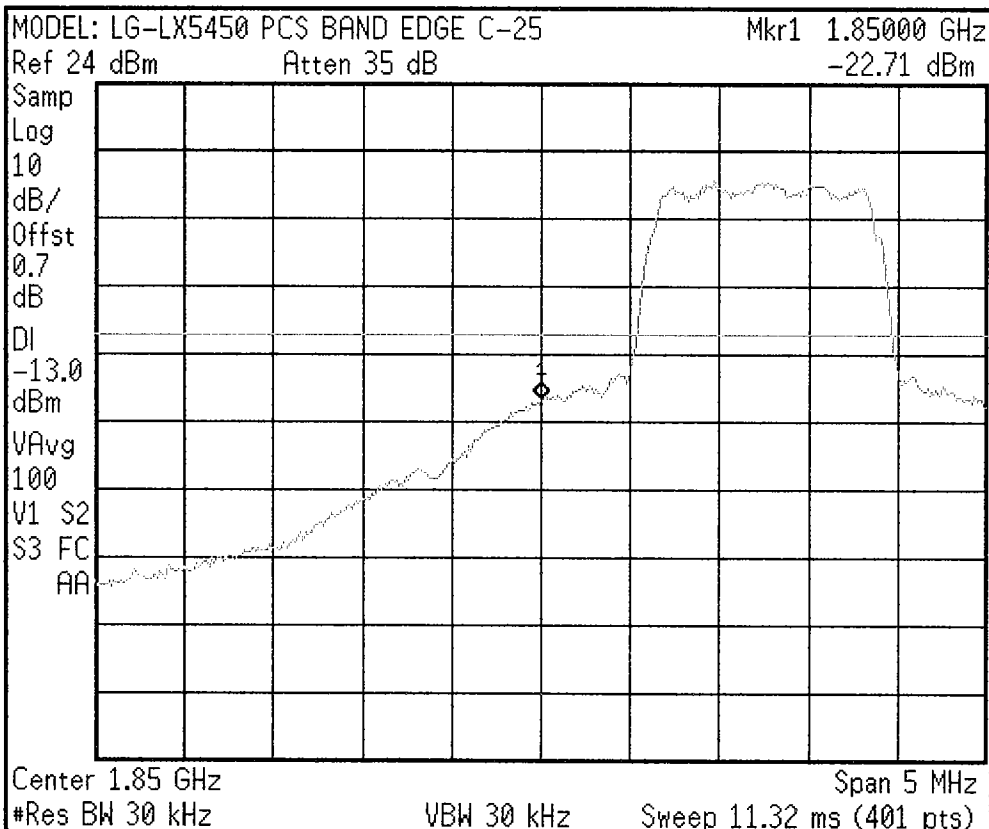
CF Step
 500.000000 kHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

✱ Agilent



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

Scale Type
 Log Lin

✱ Agilent

MODEL: LG-LX5450 PCS BAND EDGE C-25

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

DI

-13.0

dBm

VAvg

100

V1 S2

S3 FC

AA

Center 1.847 GHz

Span 1 MHz

*Res BW 1 MHz

VBW 1 MHz

Sweep 5 ms (401 pts)

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

Scale Type

Log

Lin

✱ Agilent

MODEL: LG-LX5450 PCS BAND EDGE C-25

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

DI

-13.0

dBm

VAvg

100

V1 S2

S3 FC

AA

Center 1.846 GHz

Span 1 MHz

*Res BW 1 MHz

VBW 1 MHz

Sweep 5 ms (401 pts)

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

Scale Type

Log

Lin

✱ Agilent

MODEL: LG-LX5450 PCS BAND EDGE C-25

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

DI

-13.0

dBm

VAvg

100

V1 S2

S3 FC

AA

Center 1.845 GHz

#Res BW 1 MHz

VBW 1 MHz

Span 1 MHz

Sweep 5 ms (401 pts)

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

Scale Type

Log

Lin

✱ Agilent

MODEL: LG-LX5450 PCS BAND EDGE C-25

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

DI

-13.0

dBm

VAvg

100

V1 S2

S3 FC

AA

Center 1.844 GHz

#Res BW 1 MHz

VBW 1 MHz

Span 1 MHz

Sweep 5 ms (401 pts)

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

Scale Type

Log

Lin

Agilent

MODEL: LG-LX5450 PCS BAND EDGE C-1175

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

DI

-13.0

dBm

VAvg

100

V1 S2

S3 FC

AA

Center 1.913 GHz

#Res BW 1 MHz

VBW 1 MHz

Span 1 MHz

Sweep 5 ms (401 pts)

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

Scale Type

Log

Lin

Agilent

MODEL: LG-LX5450 PCS BAND EDGE C-1175

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

DI

-13.0

dBm

VAvg

100

V1 S2

S3 FC

AA

Center 1.914 GHz

#Res BW 1 MHz

VBW 1 MHz

Span 1 MHz

Sweep 5 ms (401 pts)

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

Scale Type

Log

Lin

✱ Agilent

MODEL: LG-LX5450 PCS BAND EDGE C-1175

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

DI

-13.0

dBm

VAvg

100

V1 S2

S3 FC

AA

Center 1.915 GHz

*Res BW 1 MHz

VBW 1 MHz

Span 1 MHz

Sweep 5 ms (401 pts)

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

Scale Type

Log

Lin

✱ Agilent

MODEL: LG-LX5450 PCS BAND EDGE C-1175

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

DI

-13.0

dBm

VAvg

100

V1 S2

S3 FC

AA

Center 1.916 GHz

*Res BW 1 MHz

VBW 1 MHz

Span 1 MHz

Sweep 5 ms (401 pts)

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

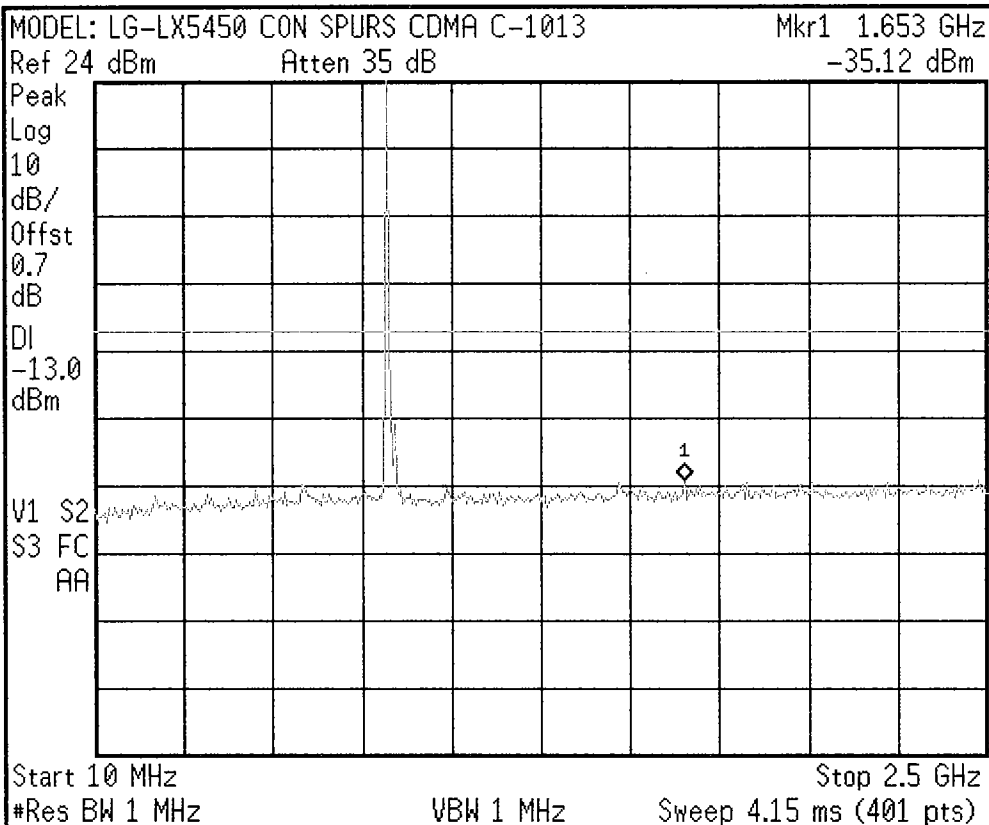
Off

Scale Type

Log

Lin

Agilent



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

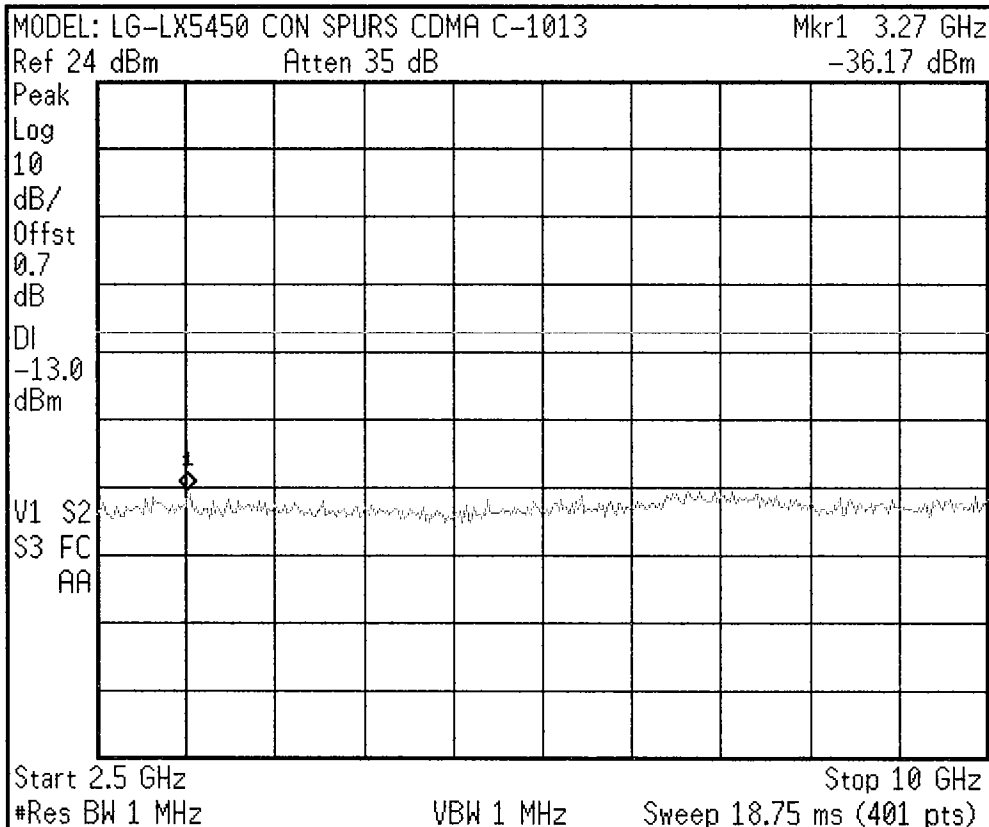
CF Step
 249.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

Agilent



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 10.0000000 GHz

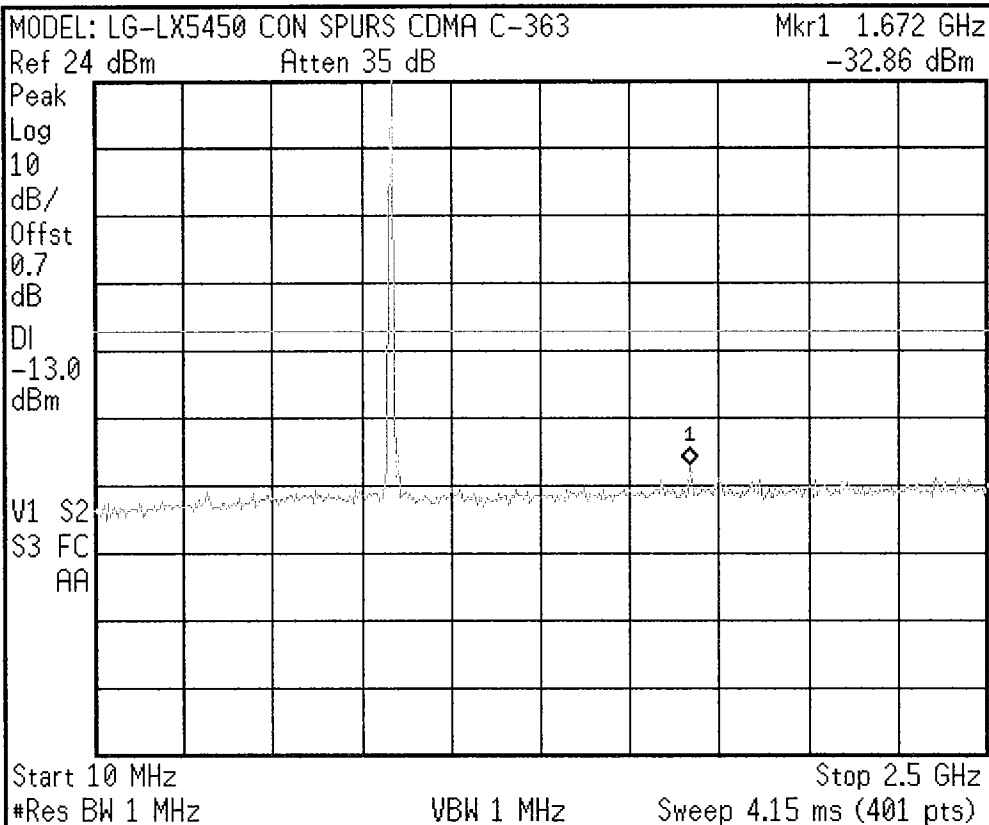
CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

Scale Type
 Log Lin

✱ Agilent



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

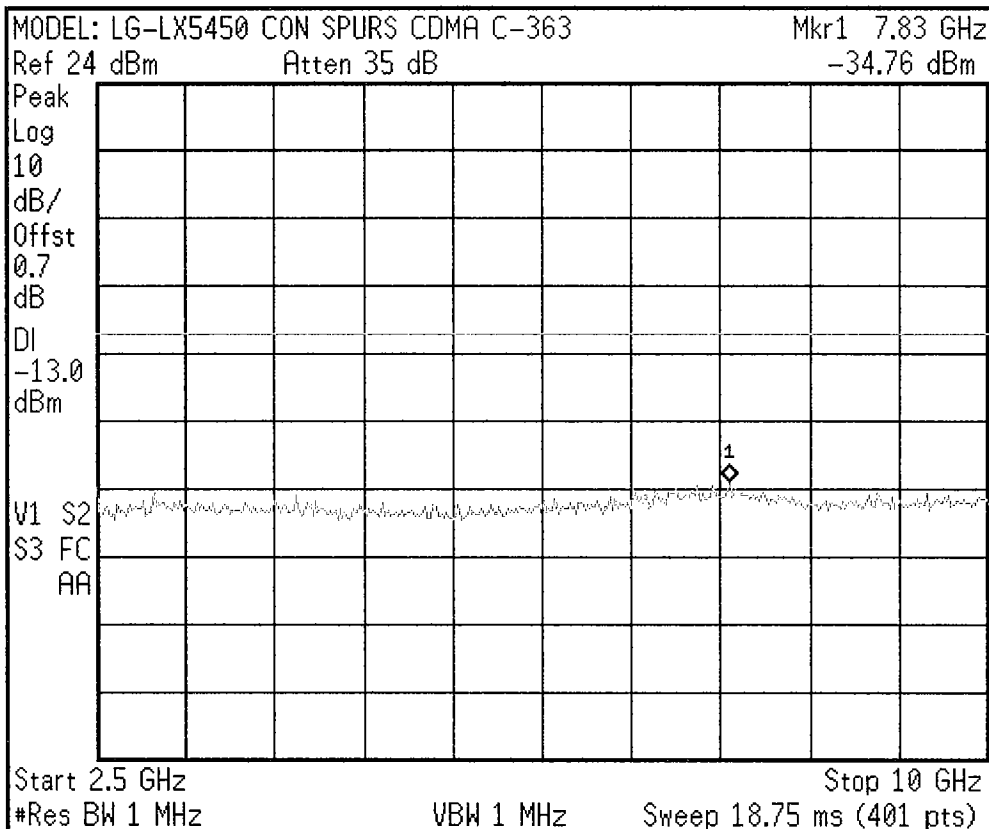
Signal Track

On Off

Scale Type

Log Lin

✱ Agilent



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

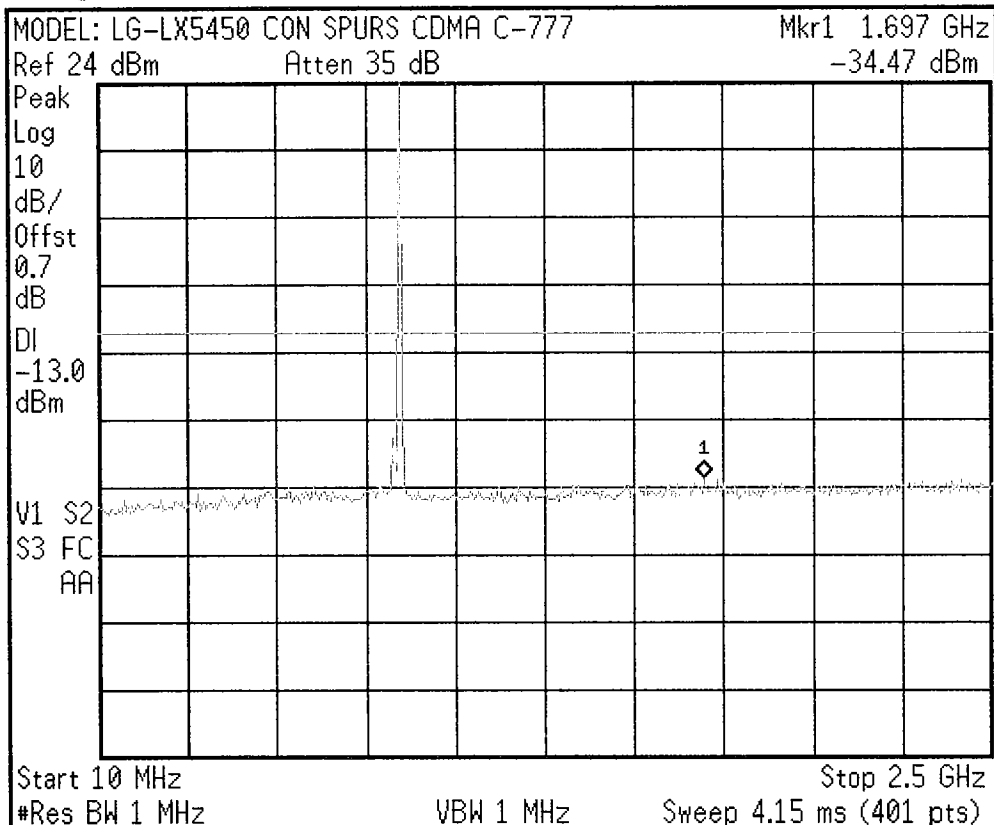
Signal Track

On Off

Scale Type

Log Lin

Agilent



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

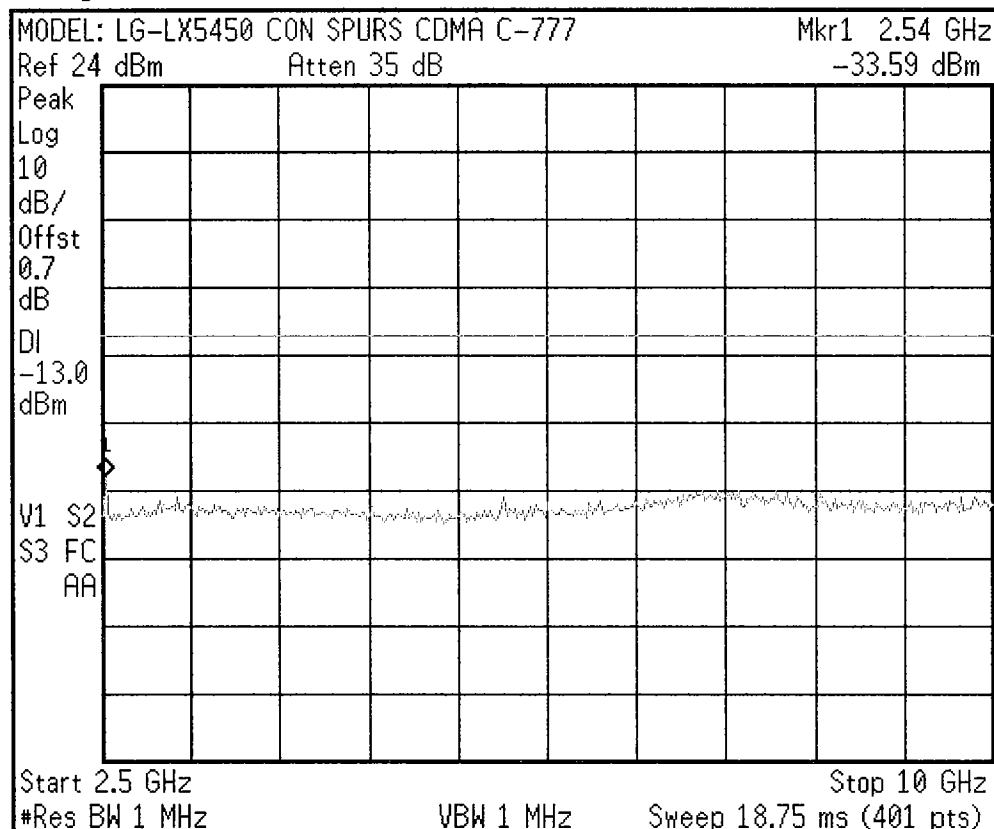
Signal Track

On Off

Scale Type

Log Lin

Agilent



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

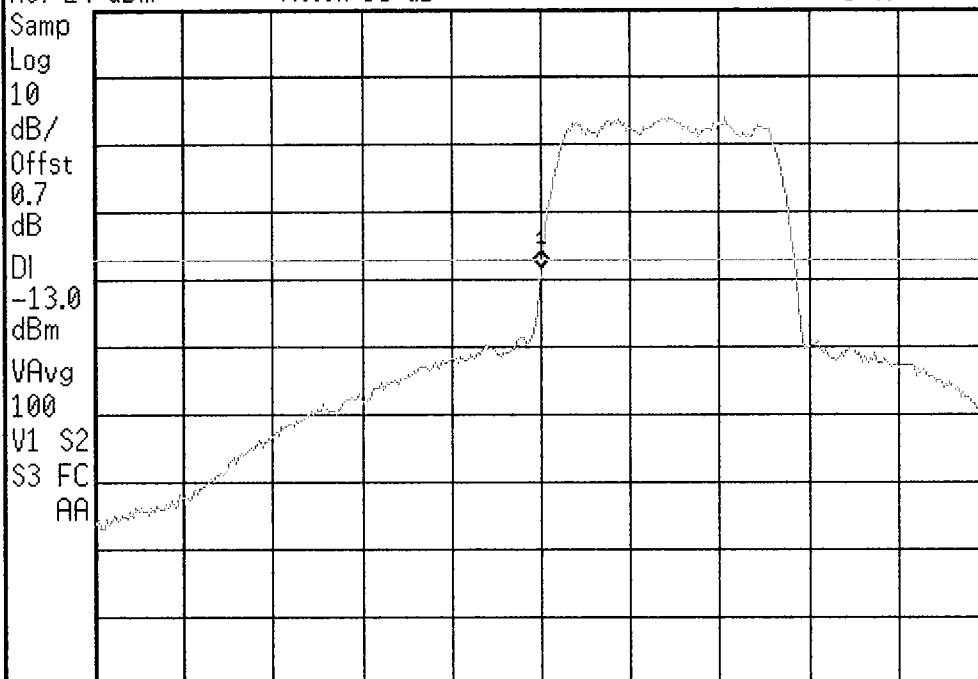
Scale Type

Log Lin

✱ Agilent

MODEL: LG-LX5450 CDMA BAND EDGE C-1013 Mkr1 824.00 MHz

Ref 24 dBm Atten 35 dB -14.38 dBm



Center 824 MHz Span 5 MHz

#Res BW 30 kHz VBW 30 kHz Sweep 11.32 ms (401 pts)

Trace/View

Trace

1 2 3

Clear Write

Max Hold

Min Hold

View

Blank

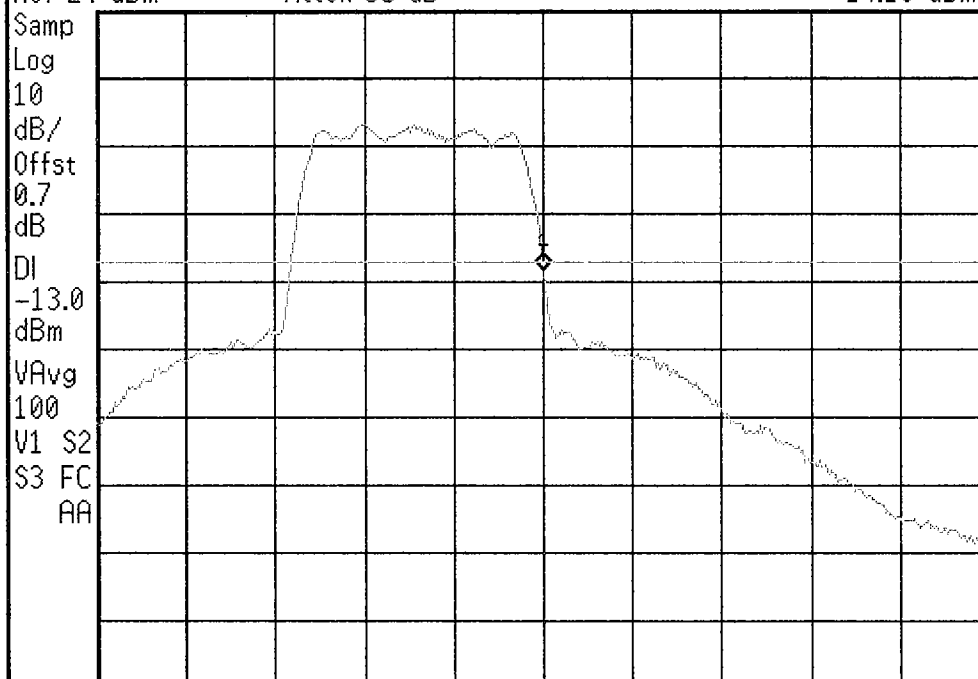
More

1 of 2

✱ Agilent

MODEL: LG-LX5450 CDMA BAND EDGE C-777 Mkr1 849.00 MHz

Ref 24 dBm Atten 35 dB -14.19 dBm



Center 849 MHz Span 5 MHz

#Res BW 30 kHz VBW 30 kHz Sweep 11.32 ms (401 pts)

Freq/Channel

Center Freq

849.000000 MHz

Start Freq

846.500000 MHz

Stop Freq

851.500000 MHz

CF Step

500.000000 kHz

Auto Man

Freq Offset

0.00000000 Hz

Signal Track

On Off

Scale Type

Log Lin

✱ Agilent

MODEL: LG-LX5450 CDMA PWR OUT C-1013

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

VAvg

100

V1 S2

S3 FC

AA

Center 824.7 MHz

#Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 4 ms (401 pts)

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

Scale Type

Log

Lin

✱ Agilent

MODEL: LG-LX5450 CDMA PWR OUT C-777

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

VAvg

100

V1 S2

S3 FC

AA

Center 848.3 MHz

#Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 4 ms (401 pts)

Freq/Channel

Center Freq

848.300000 MHz

Start Freq

843.300000 MHz

Stop Freq

853.300000 MHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Scale Type

Log

Lin

Agilent

MODEL: LG-LX5450 CDMA PWR OUT C-363

Ref 24 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.7

dB

VAvg

100

V1 S2

S3 FC

AA

Center 835.9 MHz

*Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 4 ms (401 pts)

Freq/Channel

Center Freq

835.900000 MHz

Start Freq

830.900000 MHz

Stop Freq

840.900000 MHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Scale Type

Log

Lin

Agilent

Ch Freq 835.9 MHz

Trig Free

Channel Power

MODEL: LG-LX5450 CDMA PWR OUT C-363

Ref 24 dBm

Atten 35 dB

#Avg

Log

10

dB/

Offst

0.7

dB

Center 835.9 MHz

Res BW 30 kHz

VBW 300 kHz

Span 3 MHz

Sweep 8 ms (401 pts)

Freq/Channel

Center Freq

835.900000 MHz

Start Freq

834.400000 MHz

Stop Freq

837.400000 MHz

CF Step

300.000000 kHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Scale Type

Log

Lin

Channel Power

24.03 dBm /2.0000 MHz

Power Spectral Density

-38.98 dBm/Hz