

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:GMLNPD-1GW

NOKIA

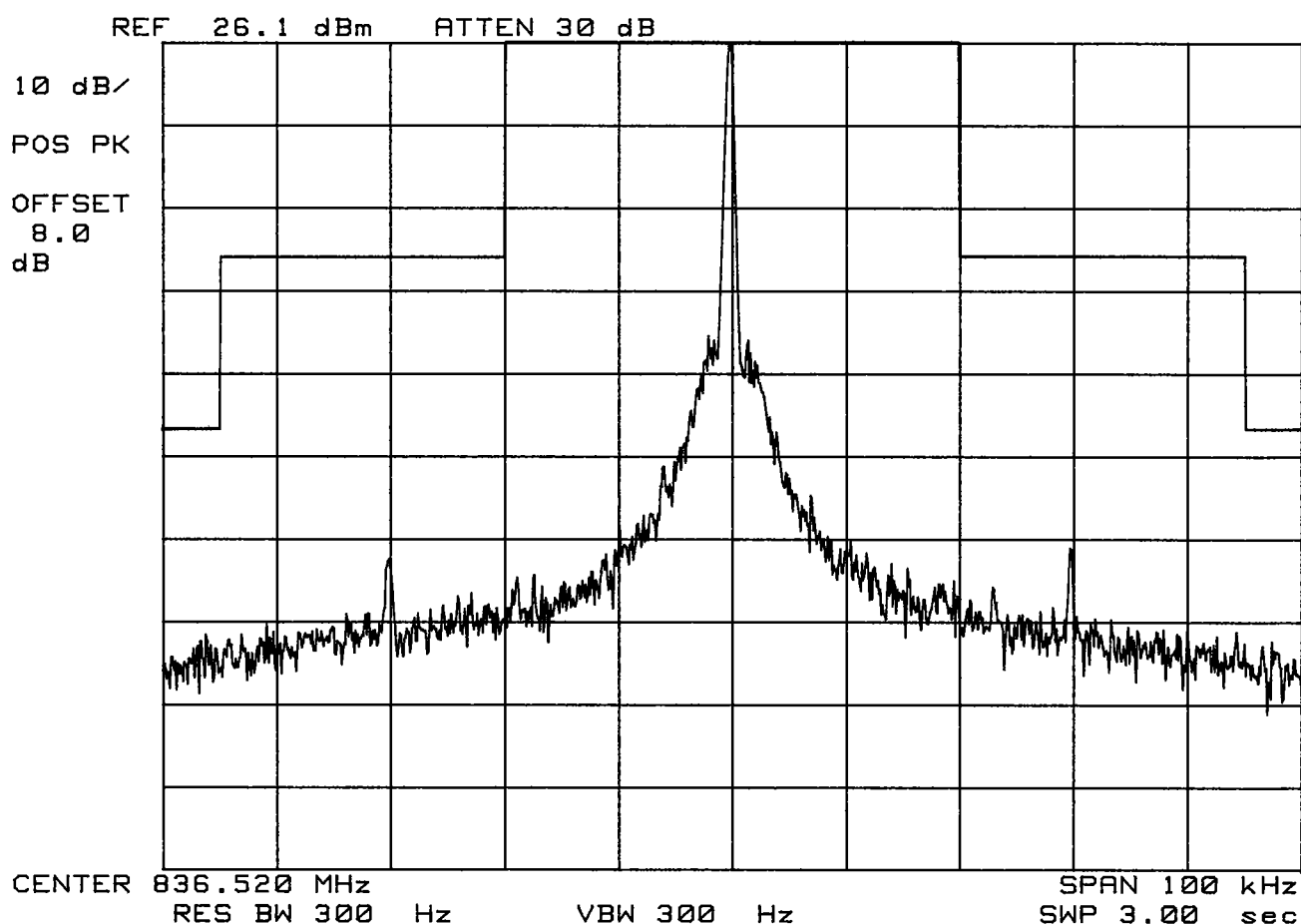
Dual-Mode Phone

FM Channel 384

Operating Frequency: 836.520 MHz

Output Power : 26.1 dBm

Test Mode:Unmodulated Signal



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:GMLNPD-1GW

NOKIA

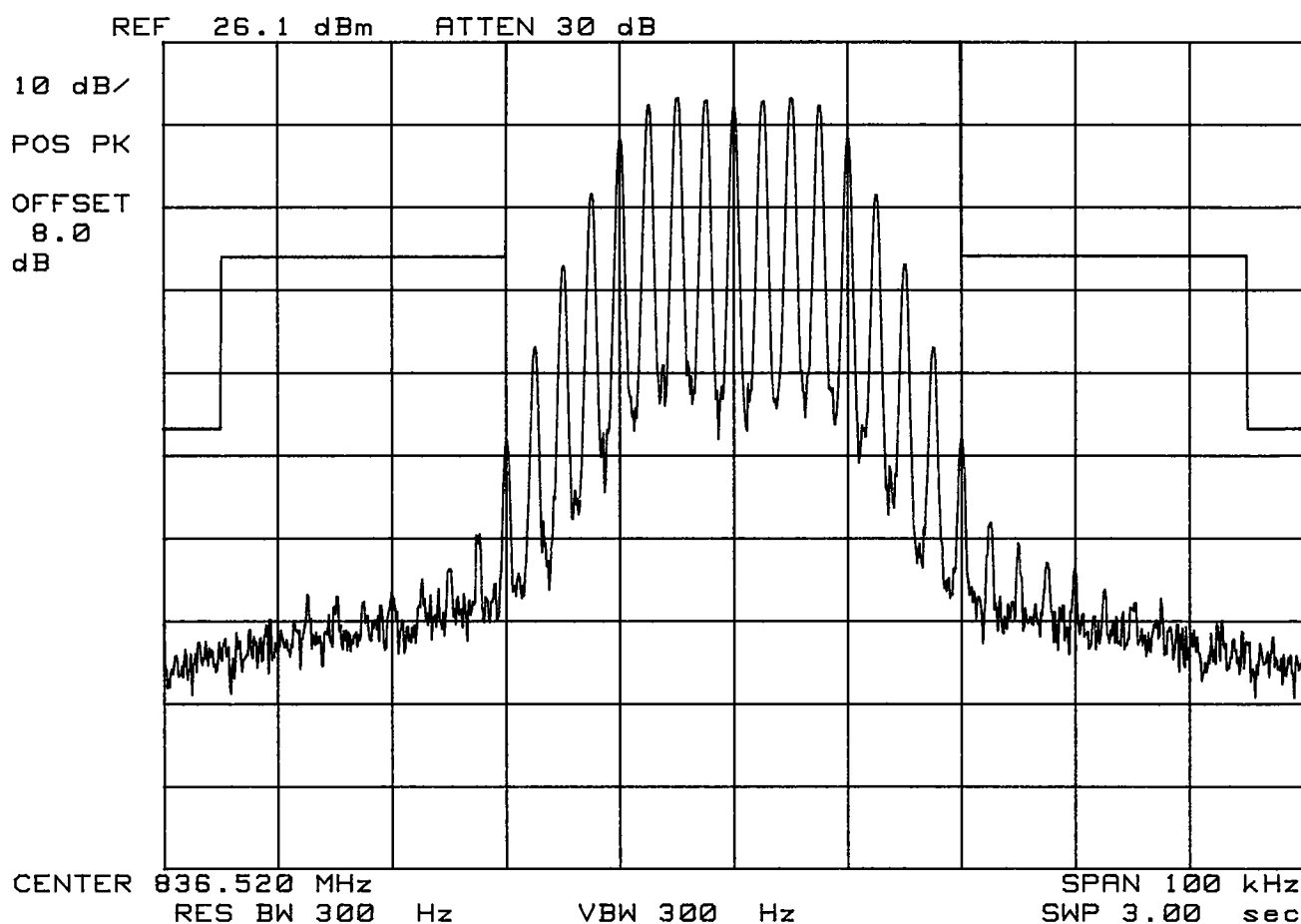
Dual-Mode Phone

FM Channel 384

Operating Frequency: 836.520 MHz

Output Power : 26.1 dBm

Test Mode:Voice



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:GMLNPD-1GW

NOKIA

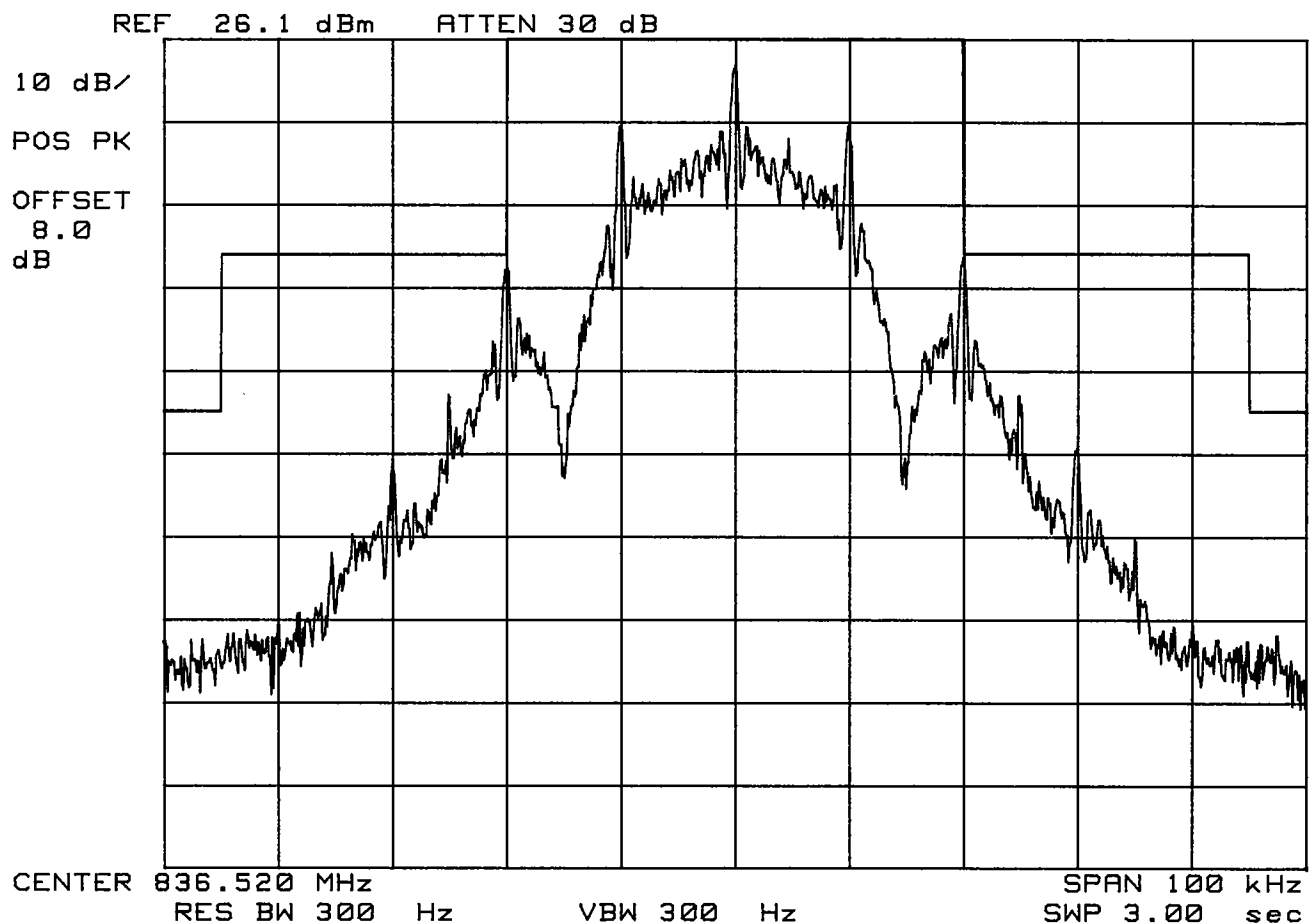
Dual-Mode Phone

FM Channel 384

Operating Frequency: 836.520 MHz

Output Power : 26.1 dBm

Test Mode:Wide Band Data



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:GMLNPD-1GW

NOKIA

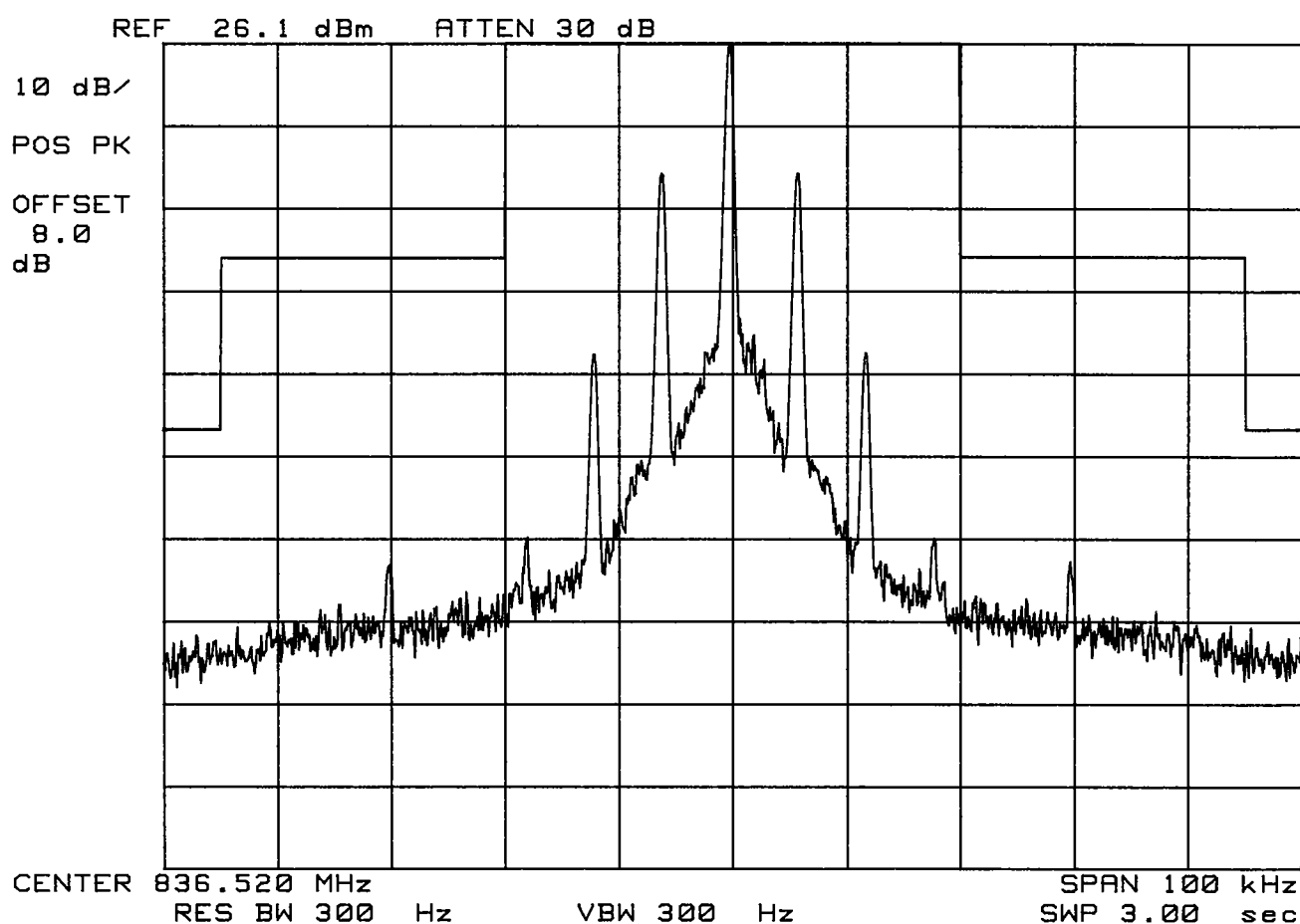
Dual-Mode Phone

FM Channel 384

Operating Frequency: 836.520 MHz

Output Power : 26.1 dBm

Test Mode:SAT



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:GMLNPD-1GW

NOKIA

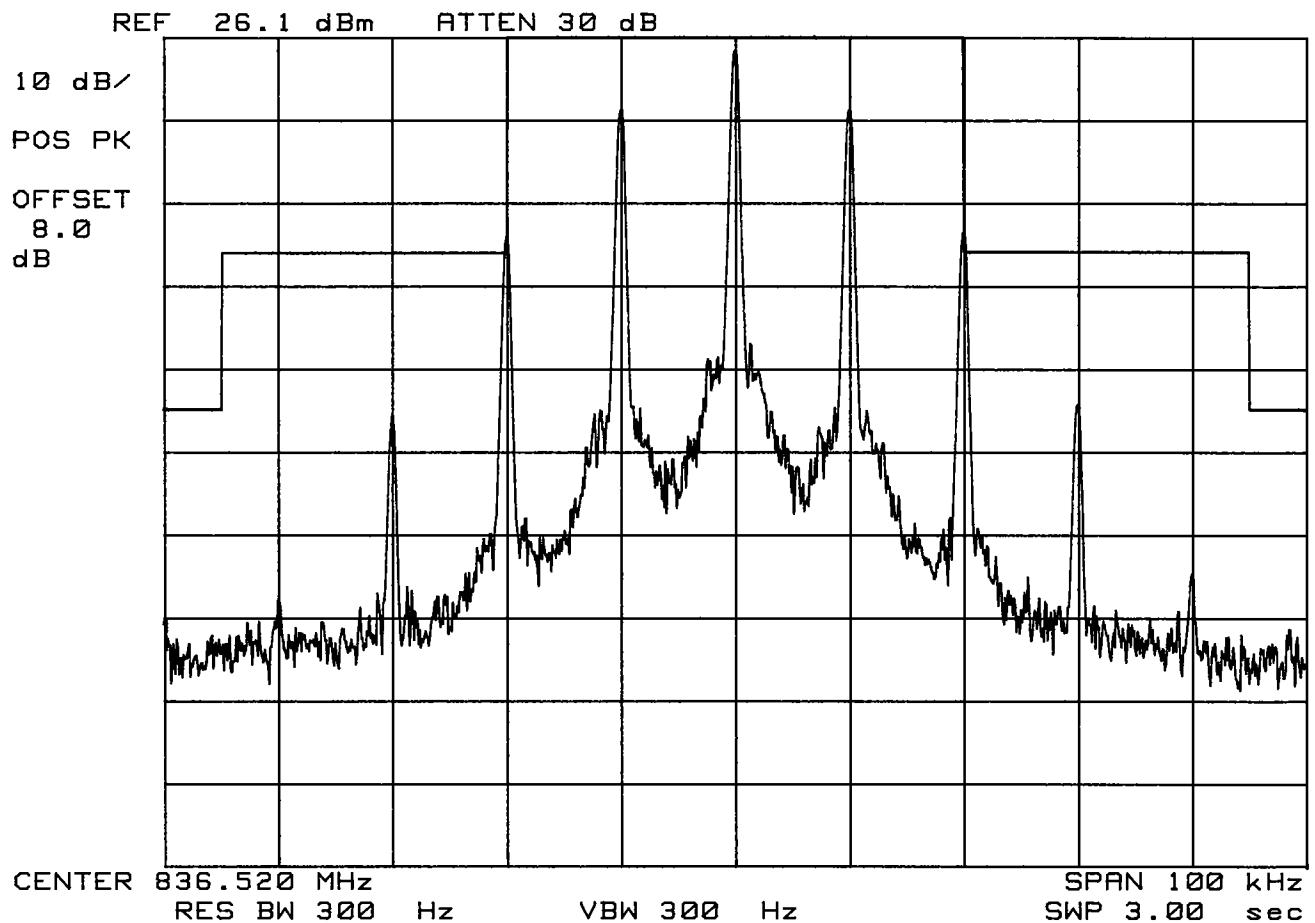
Dual-Mode Phone

FM Channel 384

Operating Frequency: 836.520 MHz

Output Power : 26.1 dBm

Test Mode:ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:GMLNPD-1GW

NOKIA

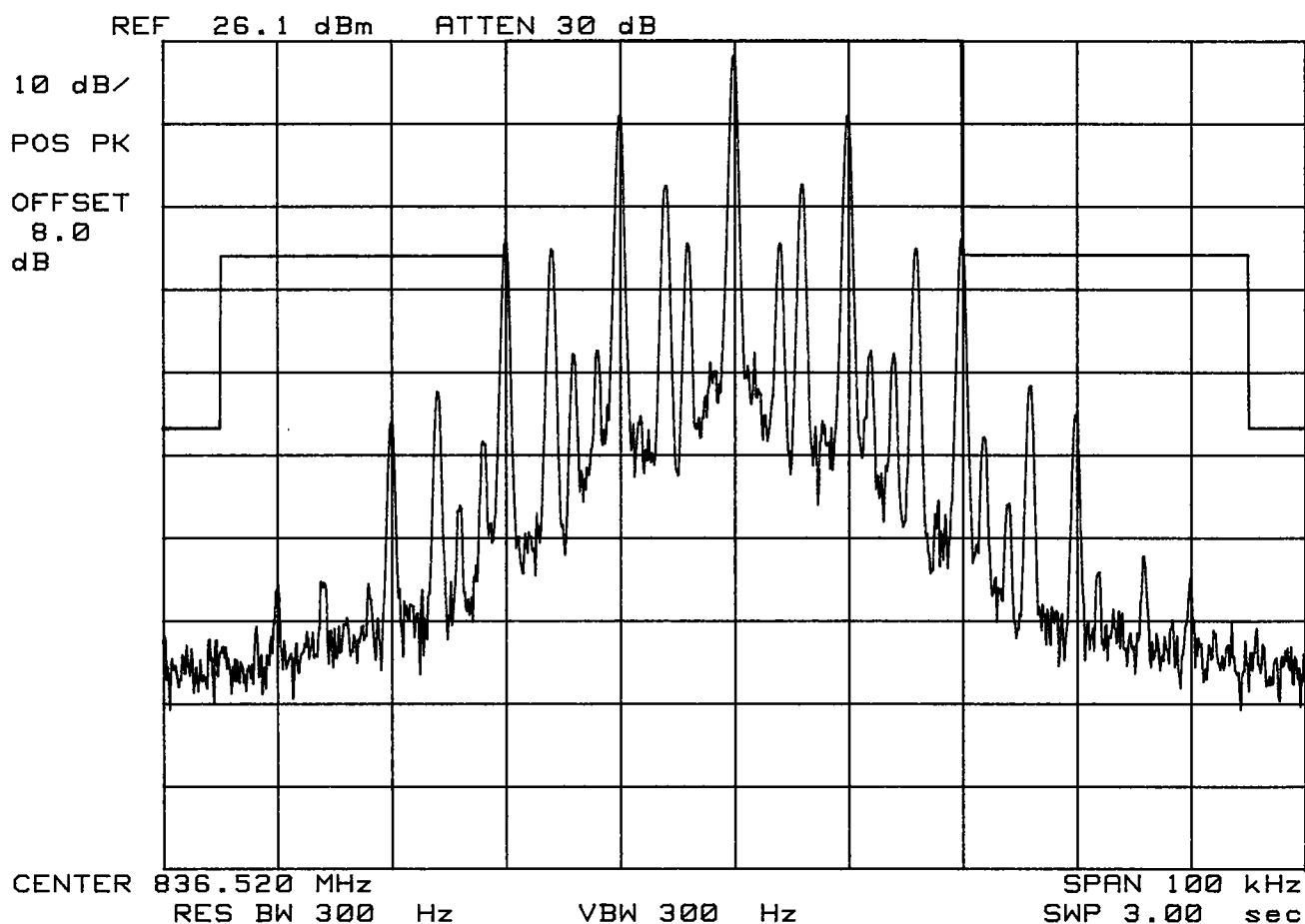
Dual-Mode Phone

FM Channel 384

Operating Frequency: 836.520 MHz

Output Power : 26.1 dBm

Test Mode:SAT + ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:GMLNPD-1GW

NOKIA

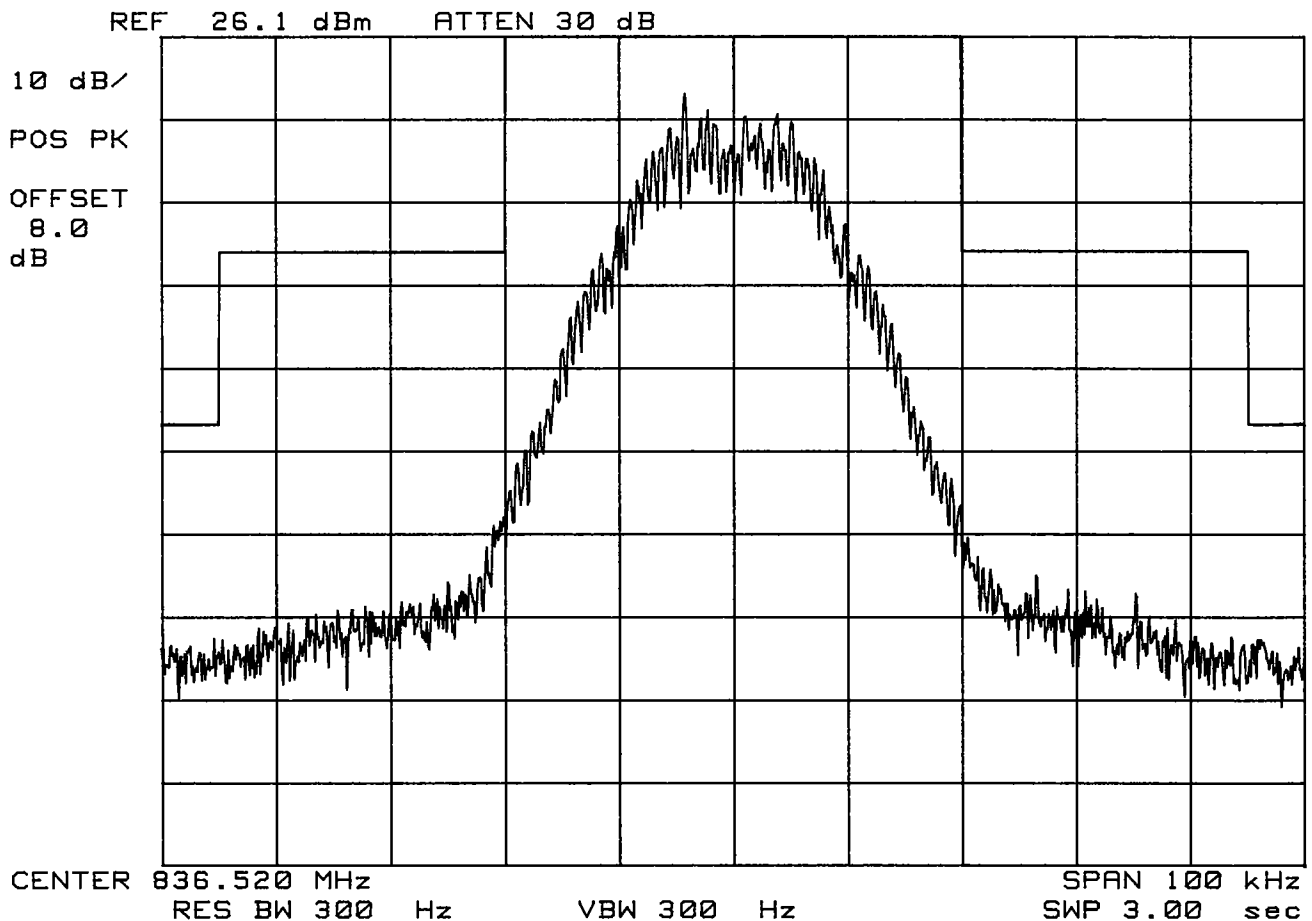
Dual-Mode Phone

FM Channel 384

Operating Frequency: 836.520 MHz

Output Power : 26.1 dBm

Test Mode:SAT + DTMF



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:GMLNPD-1GW

NOKIA

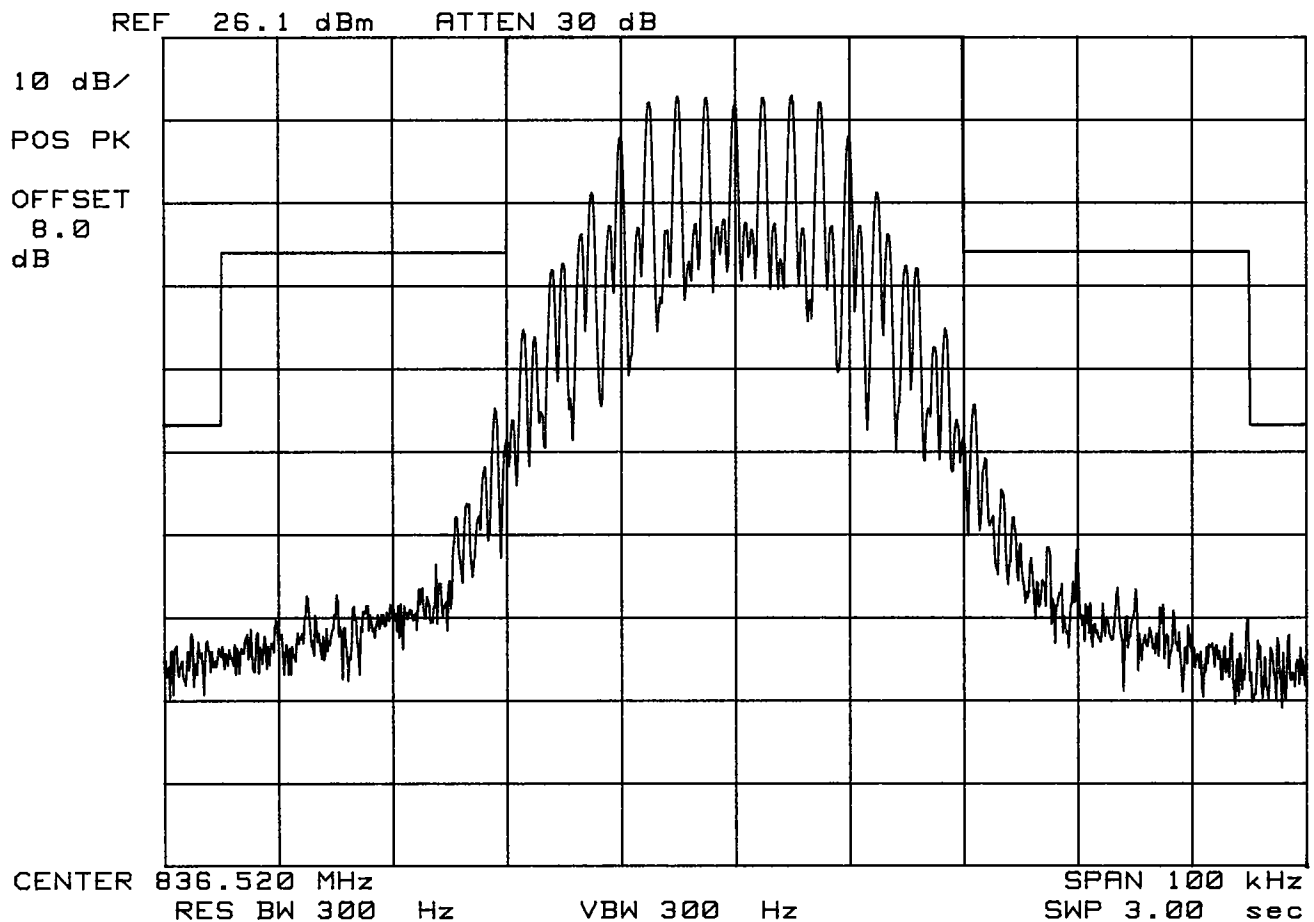
Dual-Mode Phone

FM Channel 384

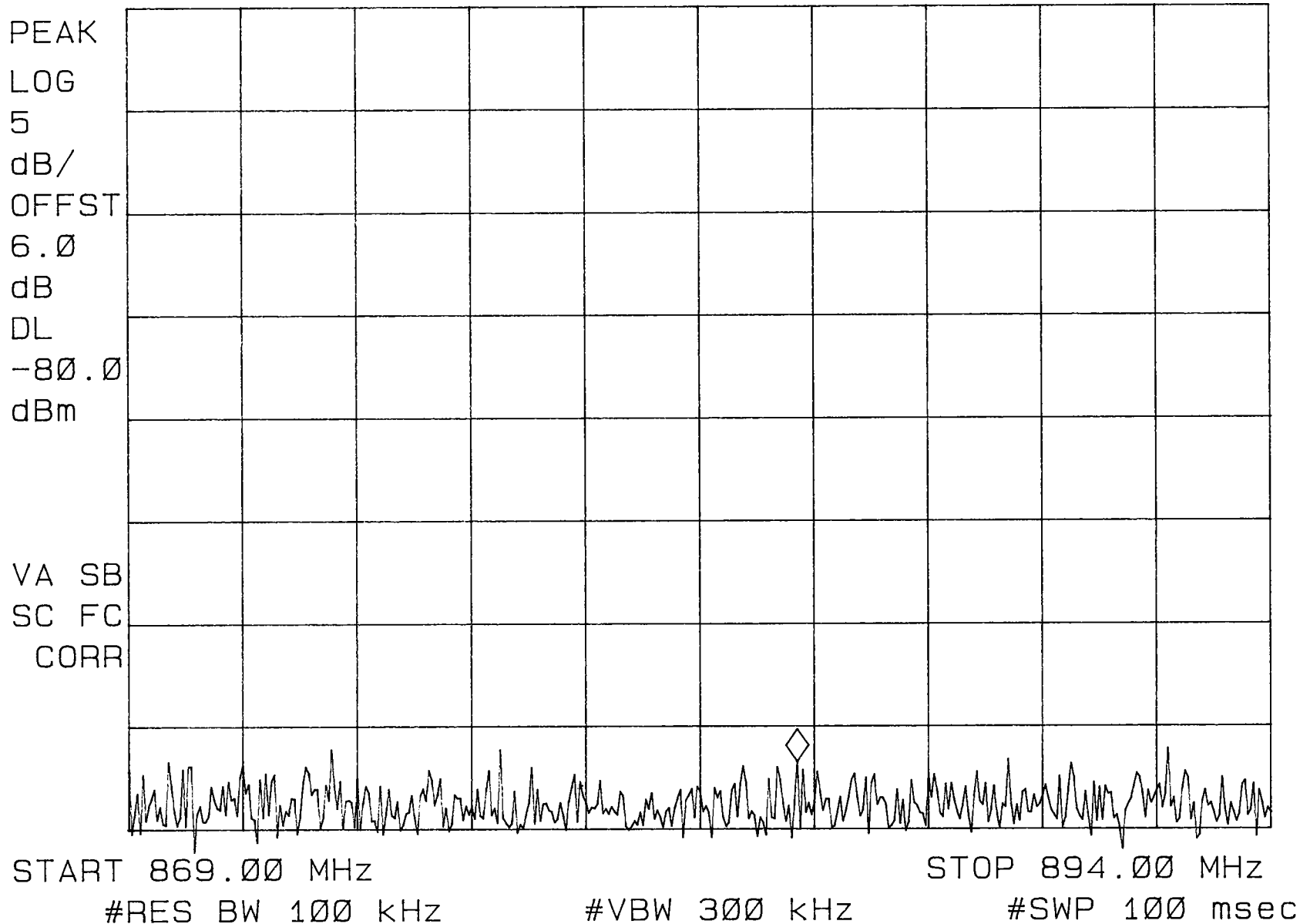
Operating Frequency: 836.520 MHz

Output Power : 26.1 dBm

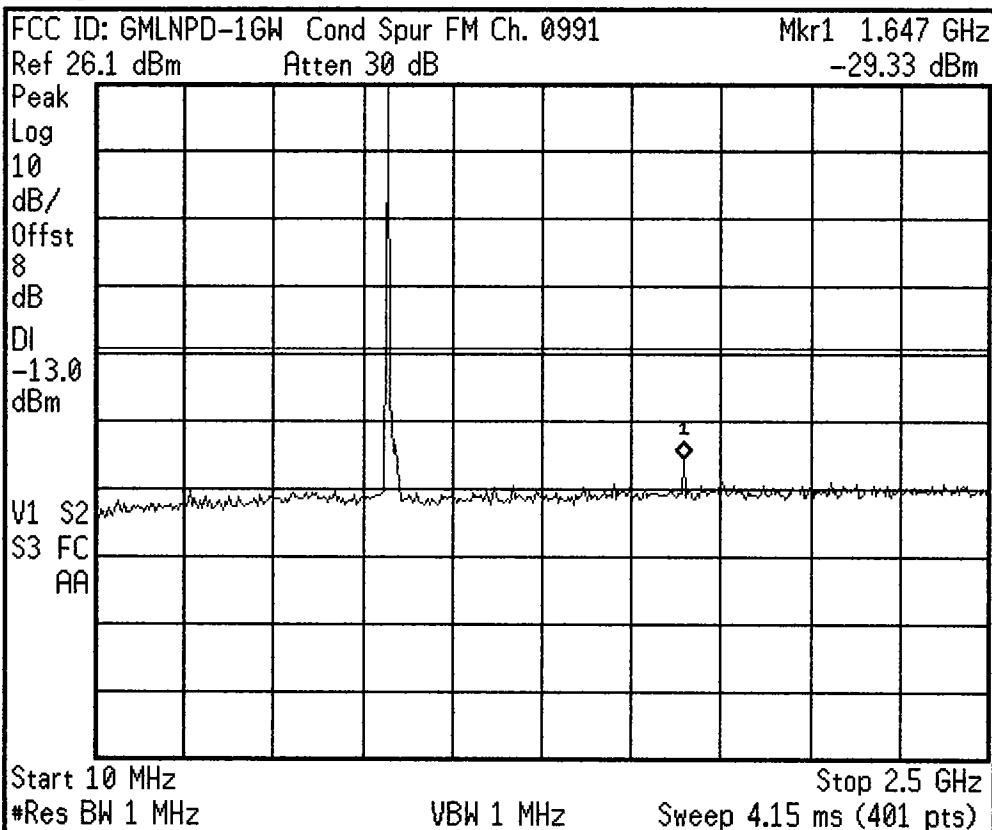
Test Mode:SAT + Voice



~~/~~ FCC ID: GMLNPD-1GW FM MODE MKR 883.62 MHz
REF -60.0 dBm ATTEN 10 dB PG 25.0 dB -96.72 dBm



Agilent



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

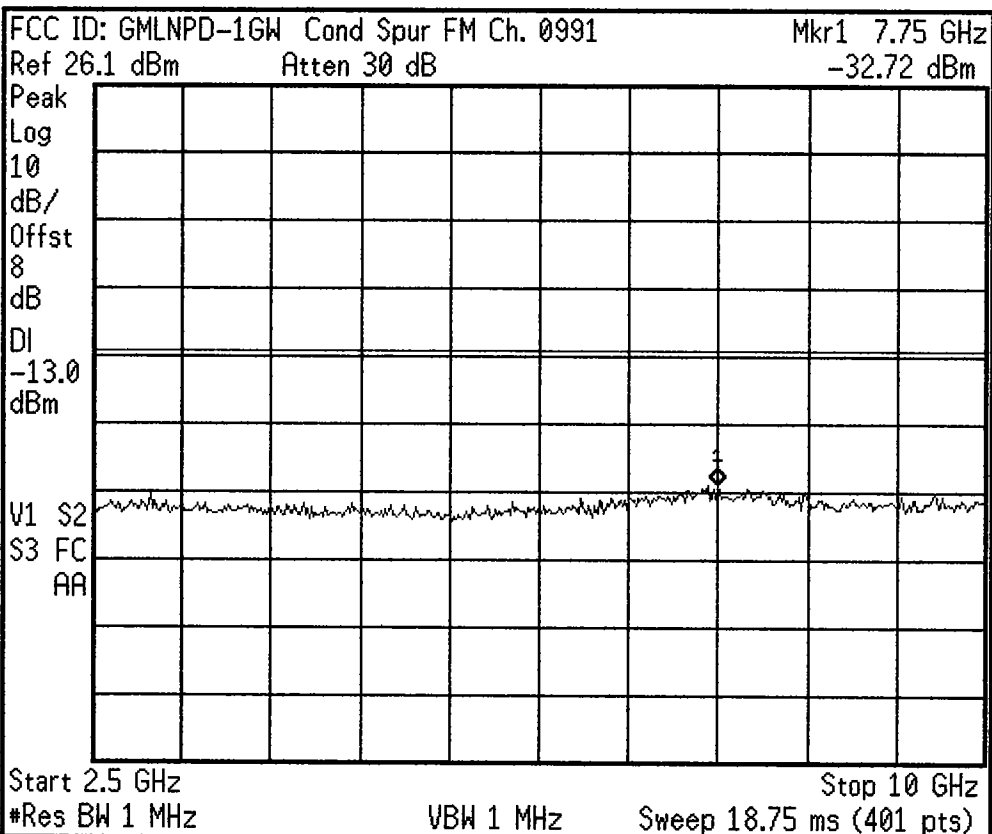
CF Step
 249.000000 MHz
 Auto Man

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

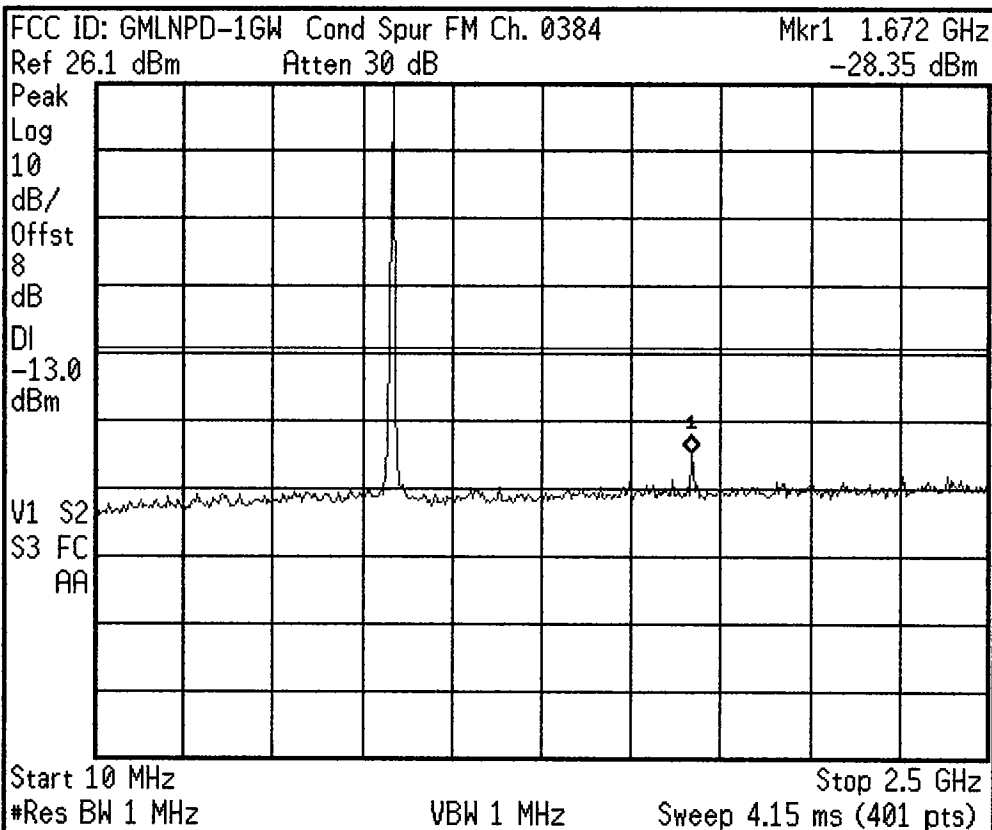
CF Step
 750.000000 MHz
 Auto Man

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

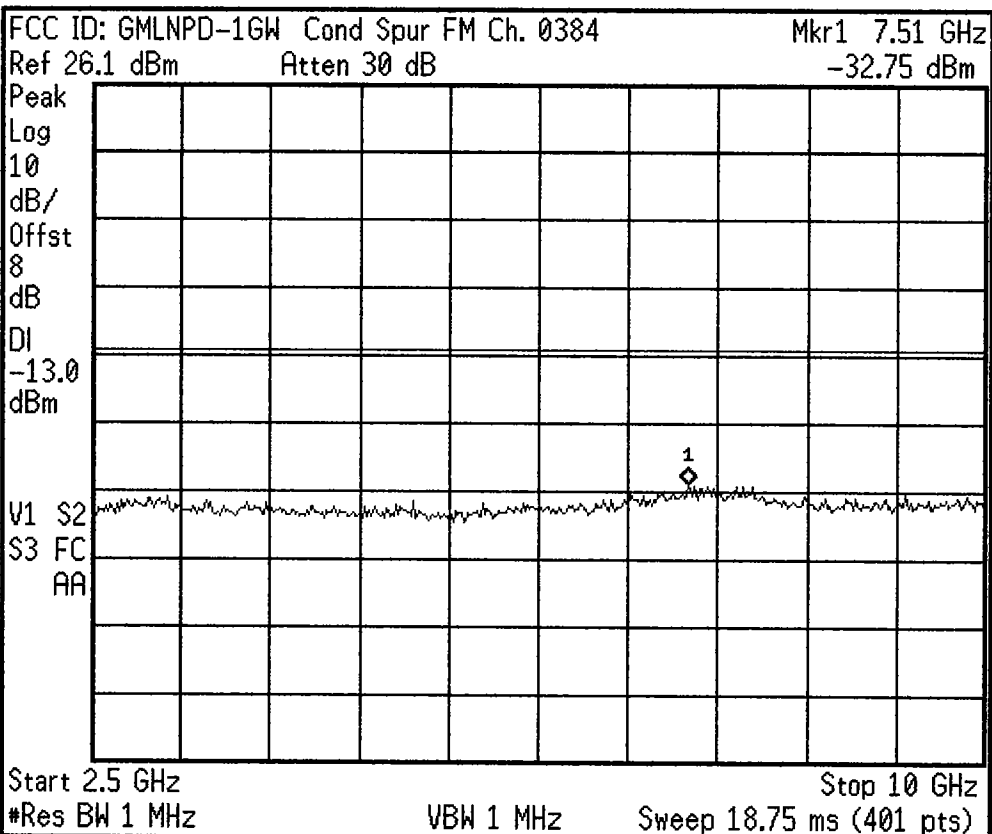
CF Step
 249.000000 MHz
 Auto Man

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

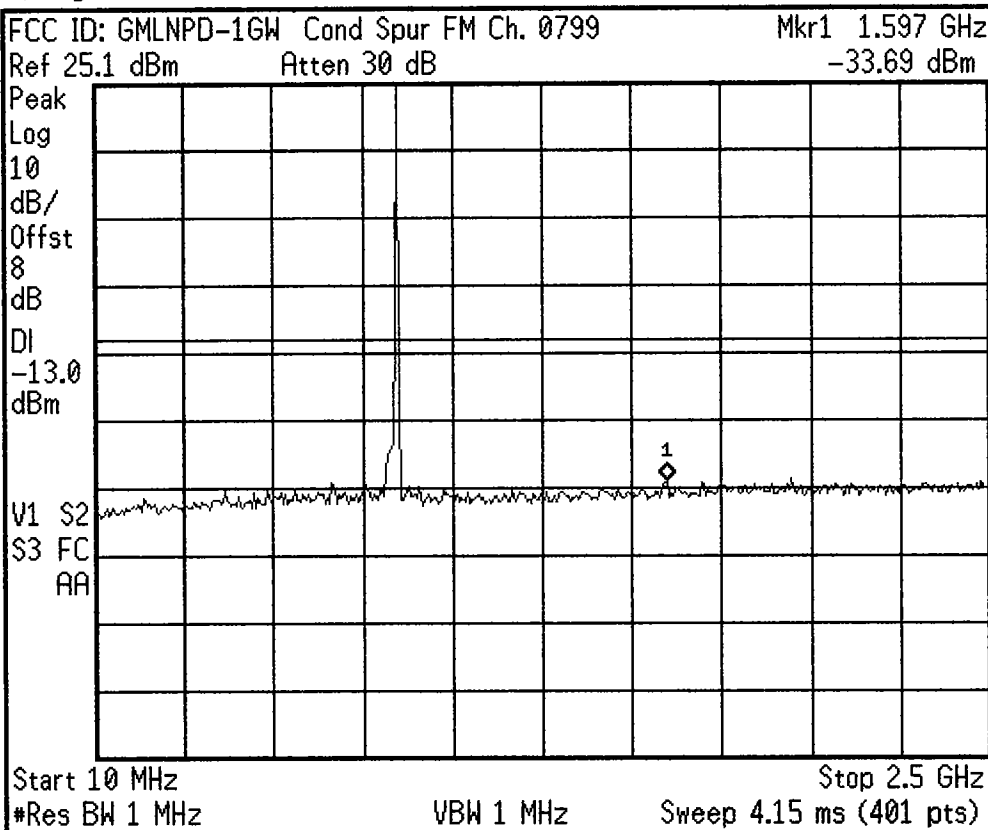
CF Step
 750.000000 MHz
 Auto Man

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

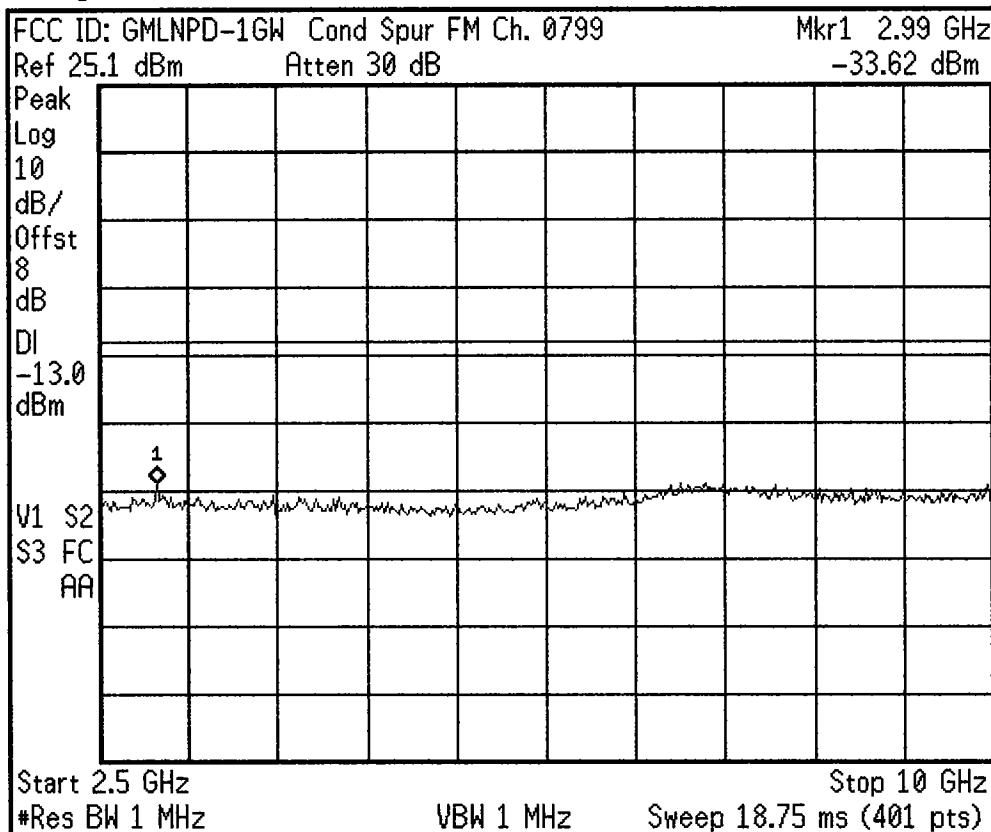
CF Step
 249.000000 MHz
 Auto Man

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

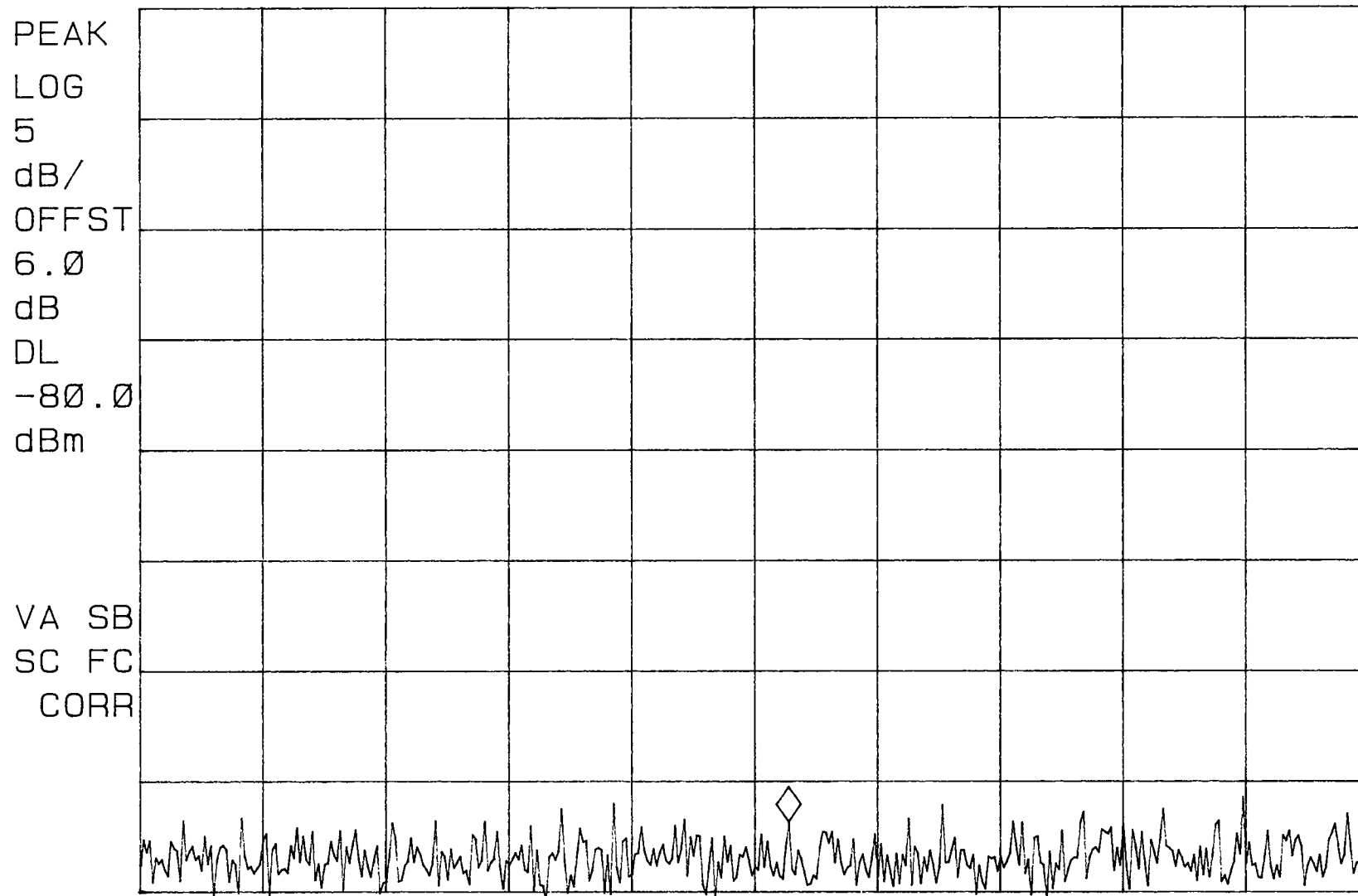
CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

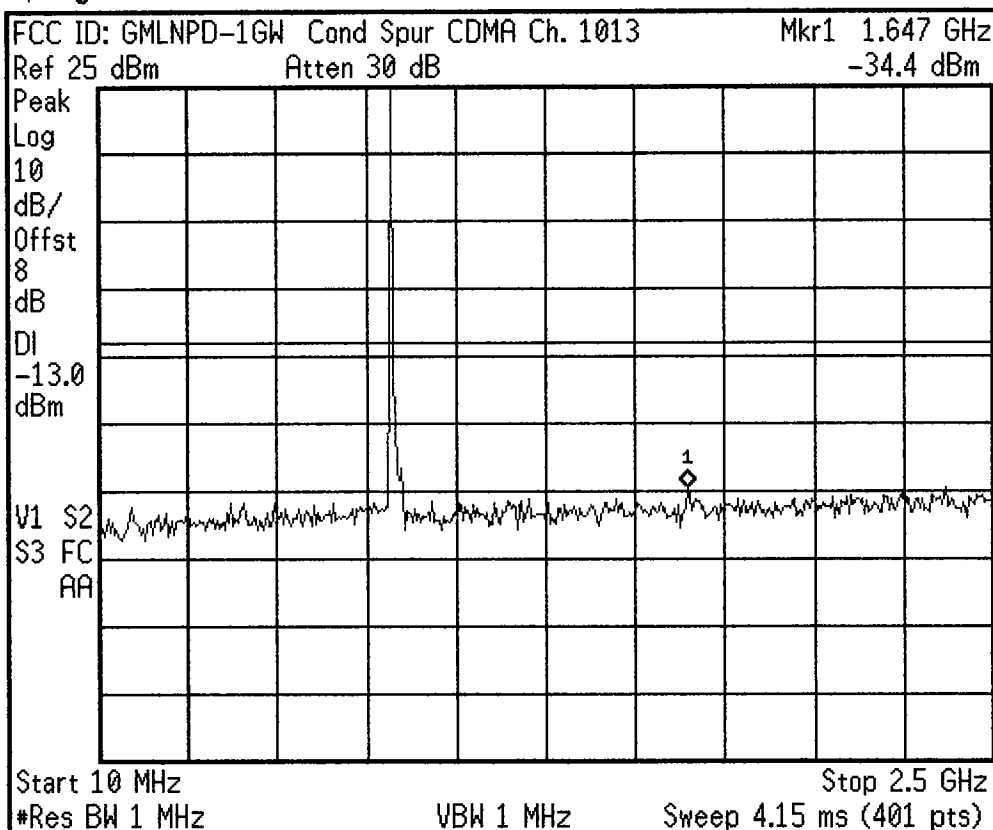
Scale Type
 Log Lin

~~/P~~ FCC ID: GMLNPD-1GW CDMA MODE MKR 882.19 MHz
REF -60.0 dBm ATTEN 10 dB PG 25.0 dB -96.83 dBm



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

Agilent



Freq/Channel

Center Freq
 1.25500000 GHz

Start Freq
 10.0000000 MHz

Stop Freq
 2.50000000 GHz

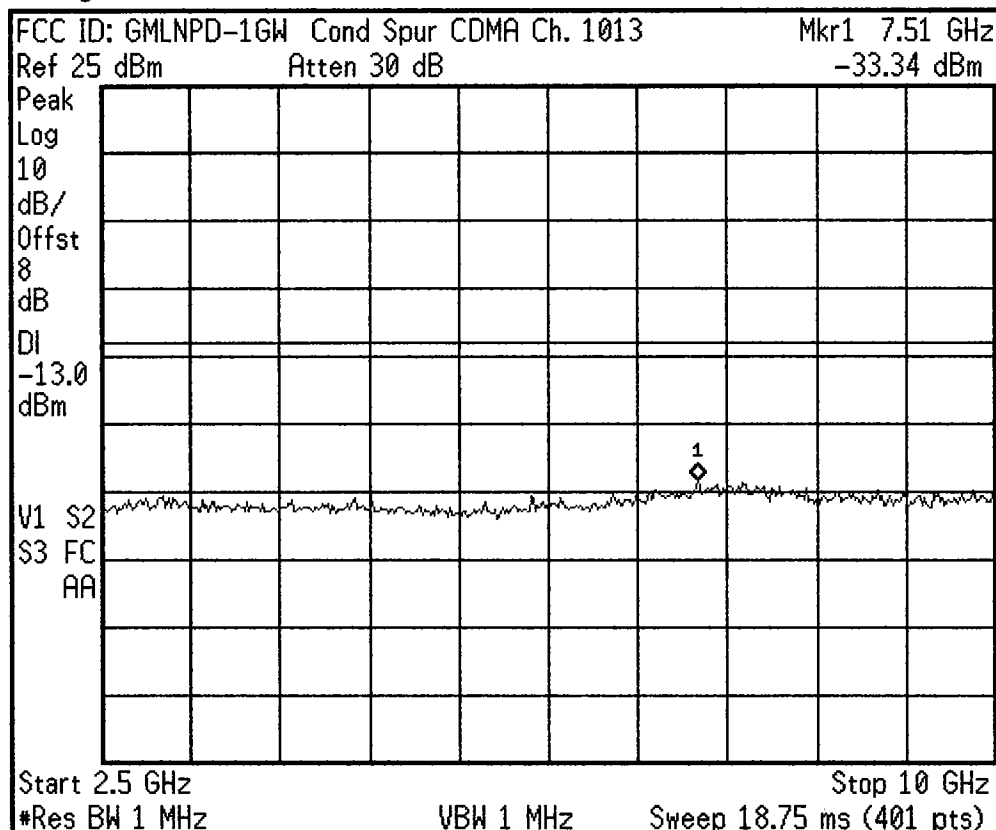
CF Step
 249.000000 MHz
 Auto Man

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

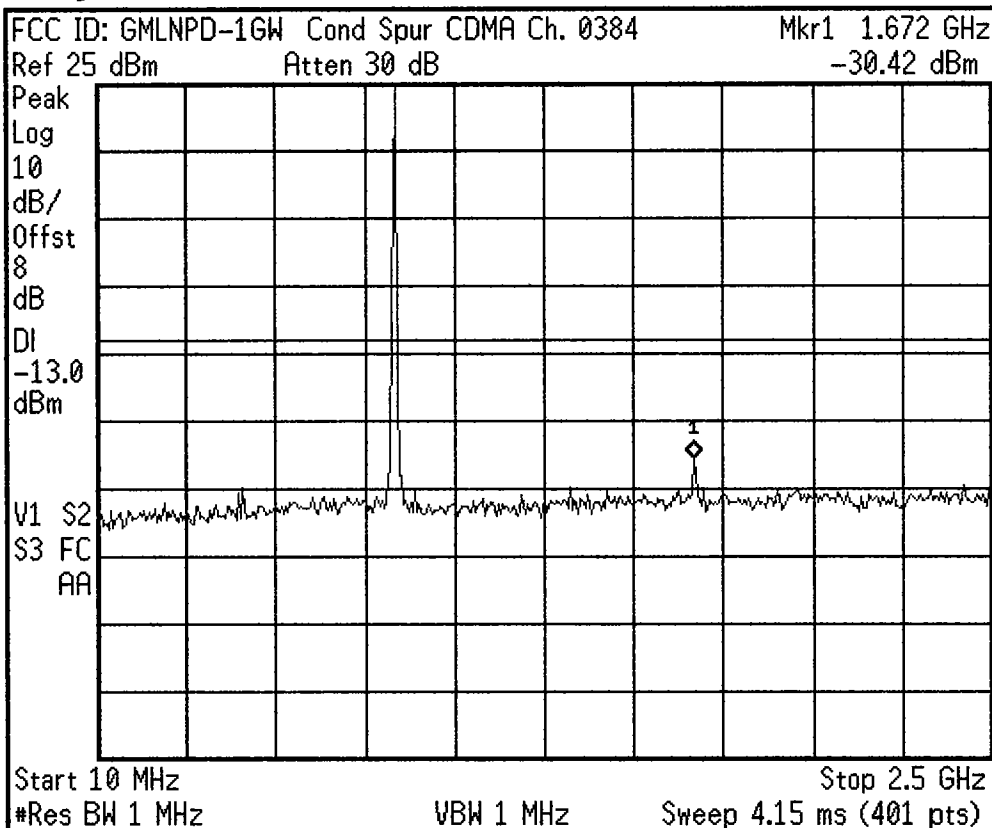
CF Step
 750.000000 MHz
 Auto Man

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

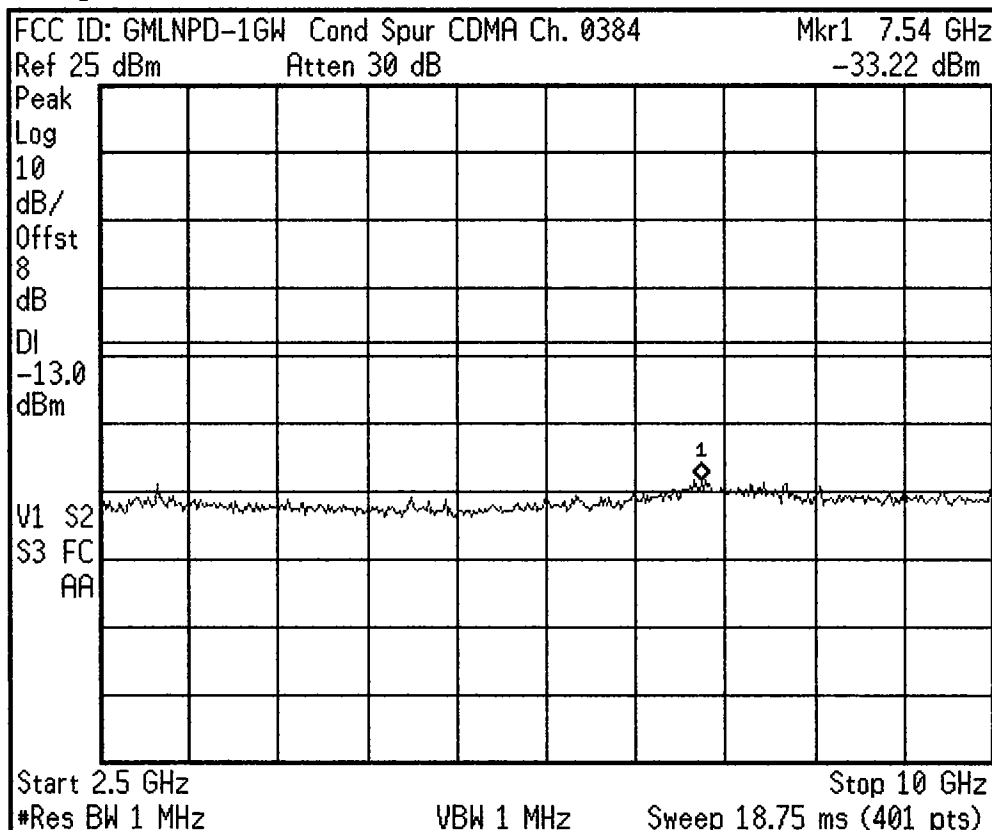
CF Step
 249.000000 MHz
 Auto Man

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

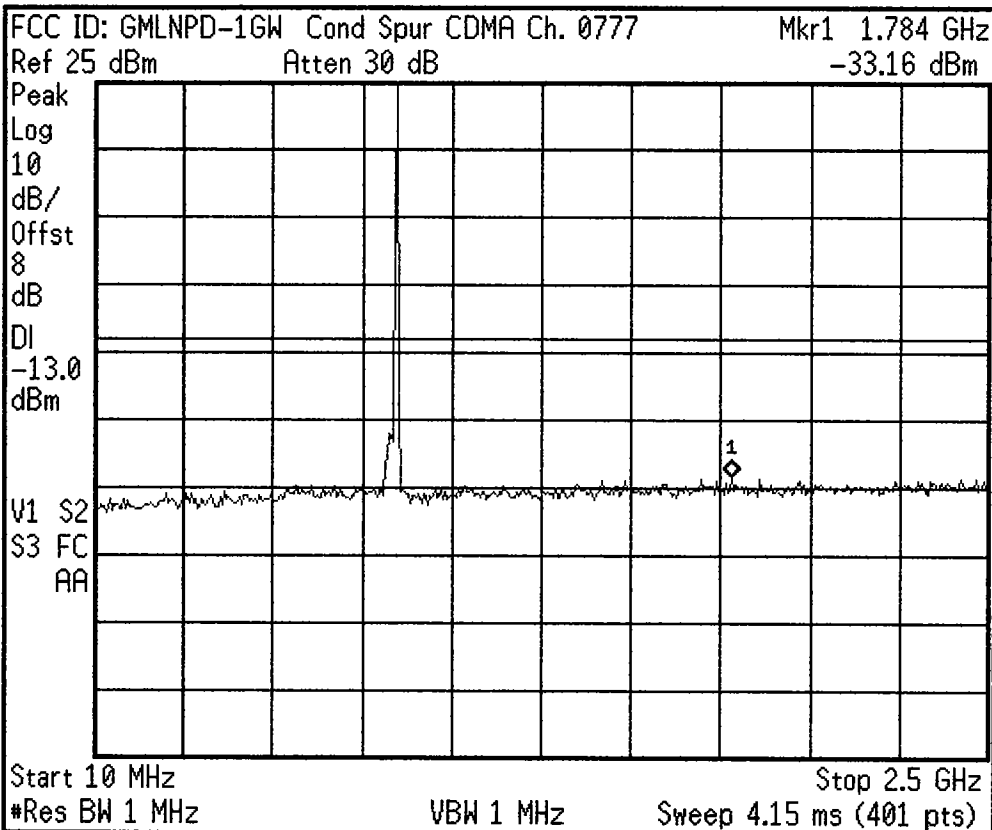
CF Step
 750.000000 MHz
 Auto Man

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

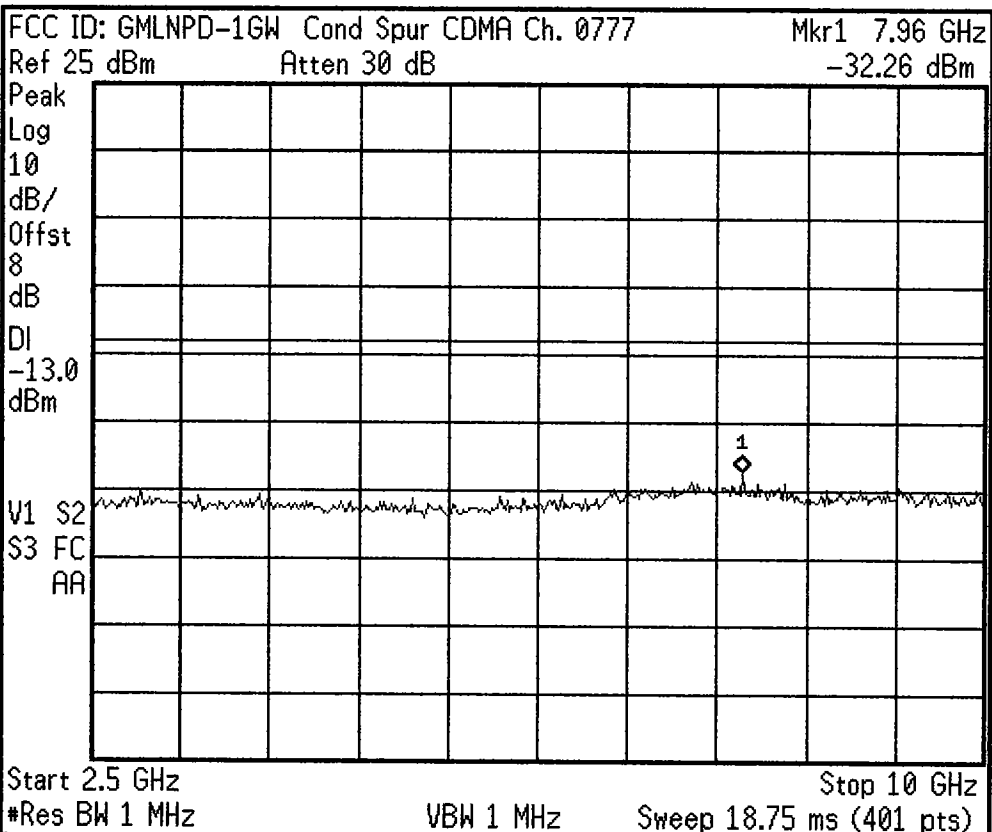
CF Step
 249.000000 MHz
 Auto Man

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

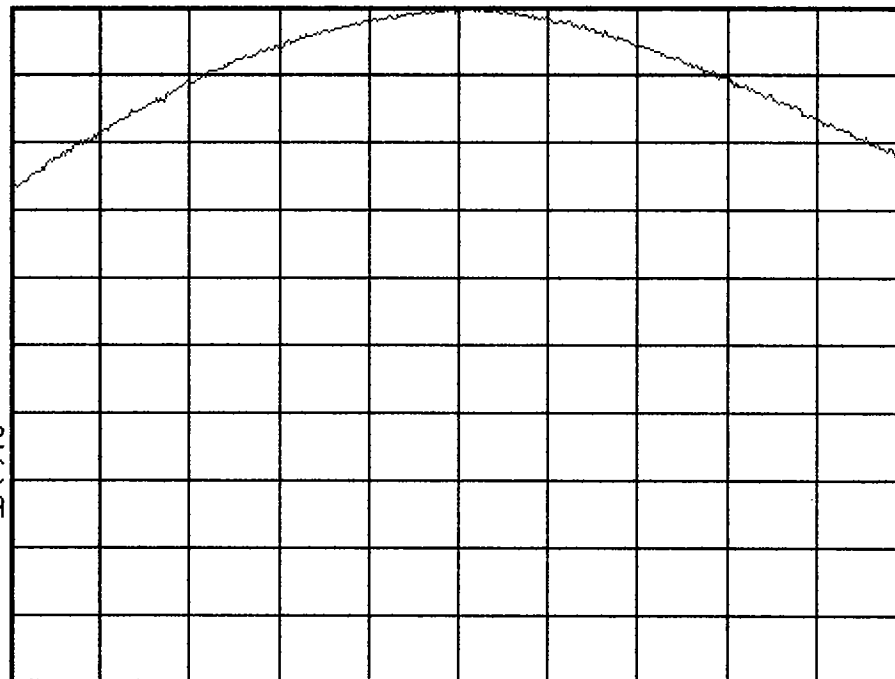
Agilent

FCC ID: GMLNPD-1GW Power Out CDMA Ch. 1013

Ref 25 dBm Atten 30 dB

Samp
Log
10
dB/
Offst
8
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

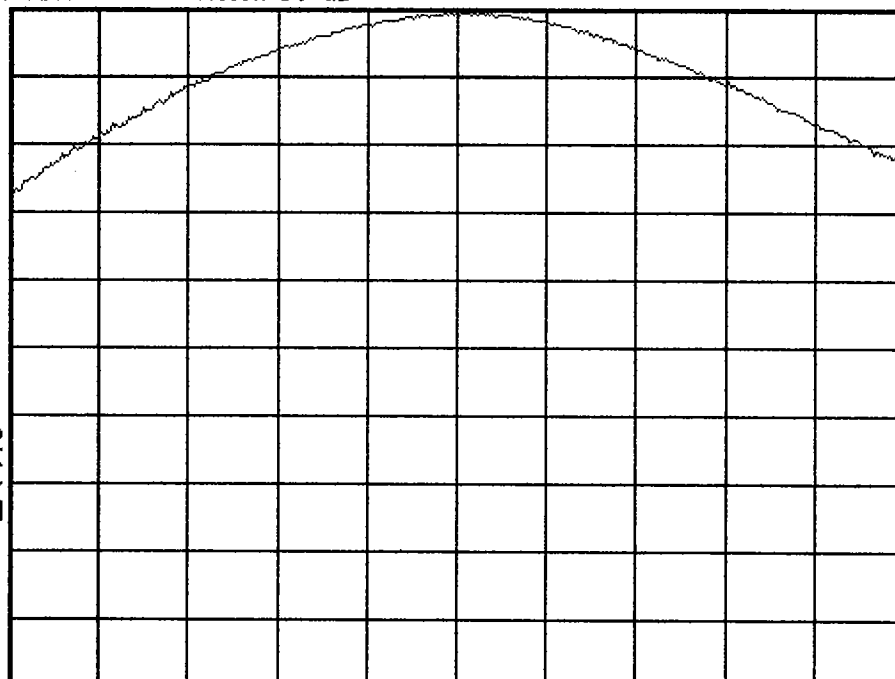
Agilent

FCC ID: GMLNPD-1GW Power Out CDMA Ch. 0777

Ref 25 dBm Atten 30 dB

Samp
Log
10
dB/
Offst
8
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

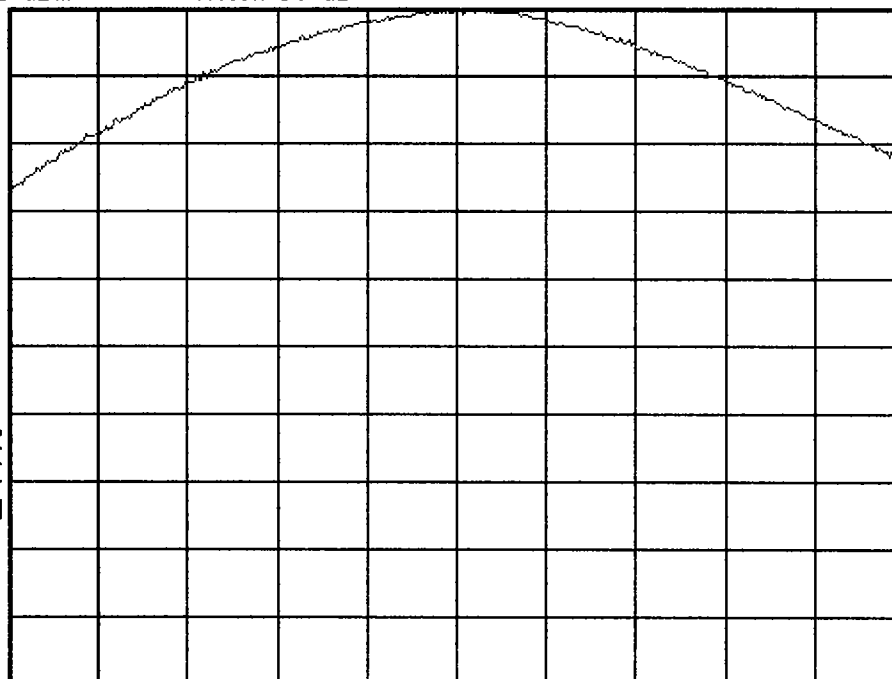
Agilent

FCC ID: GMLNPD-1GW Power Out CDMA Ch. 0384

Ref 25 dBm Atten 30 dB

Samp
Log
10
dB/
Offst
8
dB

VAvg
100
V1 S2
S3 FC
AA



Center 836.5 MHz

#Res BW 3 MHz

VBW 3 MHz

Span 10 MHz

Sweep 4 ms (401 pts)

Freq/Channel

Center Freq

836.520000 MHz

Start Freq

831.520000 MHz

Stop Freq

841.520000 MHz

CF Step

1.00000000 MHz

Auto Man

Freq Offset

0.00000000 Hz

Signal Track

On Off

Scale Type

Log Lin

Agilent

Ch Freq 836.52 MHz

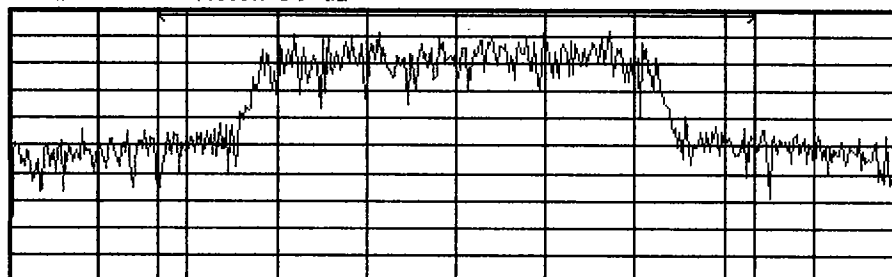
Trig Free

Channel Power

FCC ID: GMLNPD-1GW Power Out CDMA Ch. 0384

Ref 25 dBm Atten 30 dB

#Avg
Log
10
dB/
Offst
8
dB



Center 836.5 MHz

Res BW 30 kHz

VBW 300 kHz

Span 3 MHz

Sweep 8 ms (401 pts)

Freq/Channel

Center Freq

836.520000 MHz

Start Freq

835.020000 MHz

Stop Freq

838.020000 MHz

CF Step

300.000000 kHz

Auto Man

Freq Offset

0.00000000 Hz

Signal Track

On Off

Scale Type

Log Lin

Channel Power

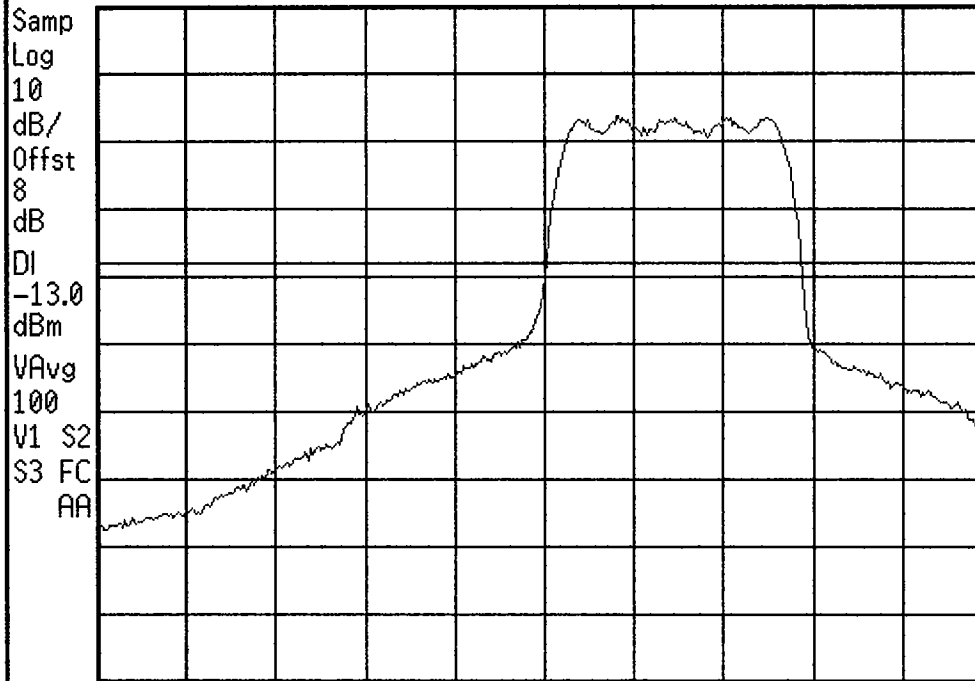
25.06 dBm /2.0000 MHz

Power Spectral Density

-37.95 dBm/Hz

Agilent

FCC ID: GMLNPD-1GW Band Edge CDMA Ch. 1013
Ref 25 dBm Atten 30 dB



Center 824 MHz Span 5 MHz
#Res BW 30 kHz VBW 30 kHz Sweep 11.32 ms (401 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

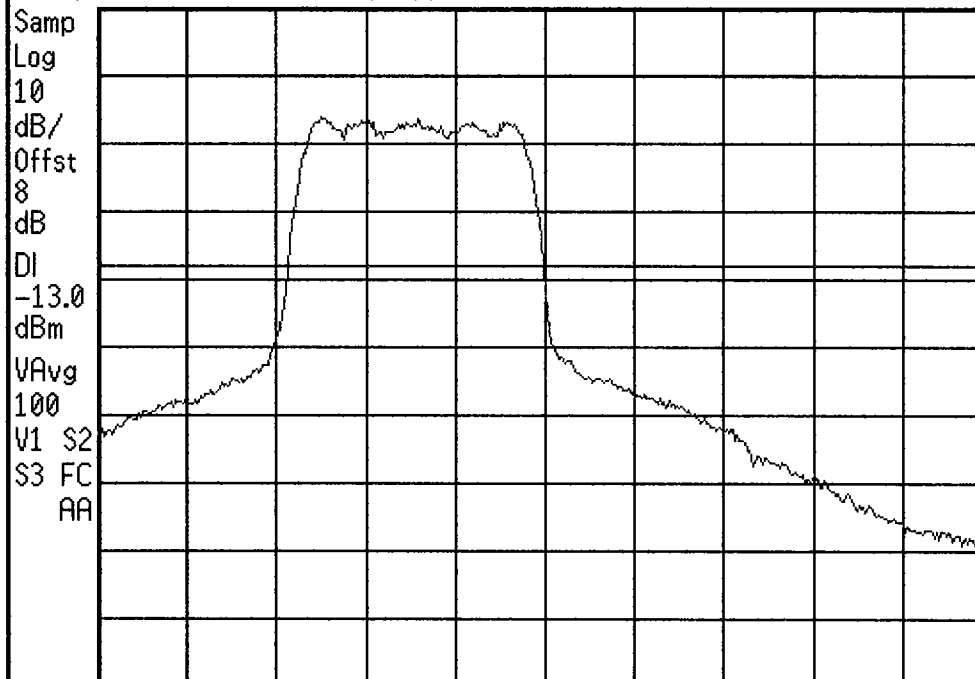
Freq Offset
0.00000000 Hz

Signal Track
On Off

Scale Type
Log Lin

Agilent

FCC ID: GMLNPD-1GW Band Edge CDMA Ch. 0777
Ref 25 dBm Atten 30 dB



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

FCC ID: GMLNPD-1GW RC3 CDMA1X Ch. 1013

Ref 25 dBm

Atten 30 dB

Samp

Log

10

dB/

Offst

8

dB

DI

-13.0

dBm

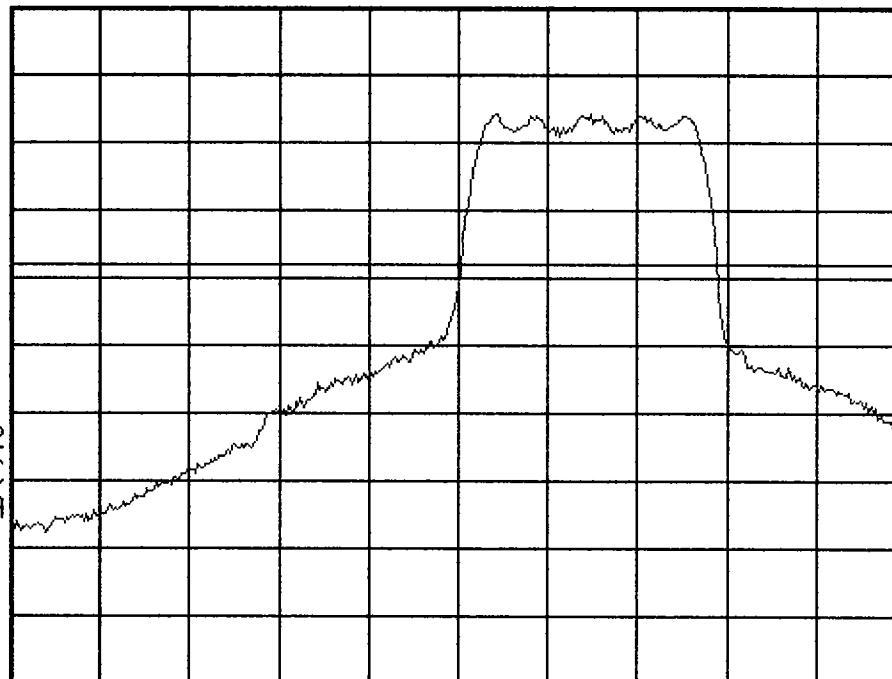
VAvg

100

V1 S2

S3 FC

AA



Center 824 MHz

Span 5 MHz

*Res BW 30 kHz

VBW 30 kHz

Sweep 11.32 ms (401 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

Scale Type

Log

Lin

Agilent

FCC ID: GMLNPD-1GW RC3 CDMA1X Ch. 0777

Ref 25 dBm

Atten 30 dB

Samp

Log

10

dB/

Offst

8

dB

DI

-13.0

dBm

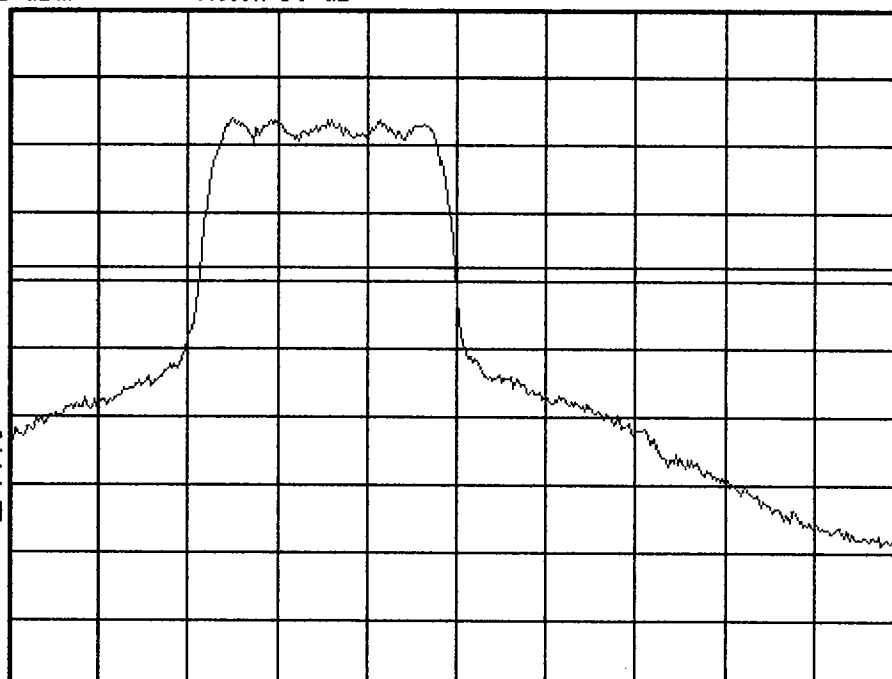
VAvg

100

V1 S2

S3 FC

AA



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

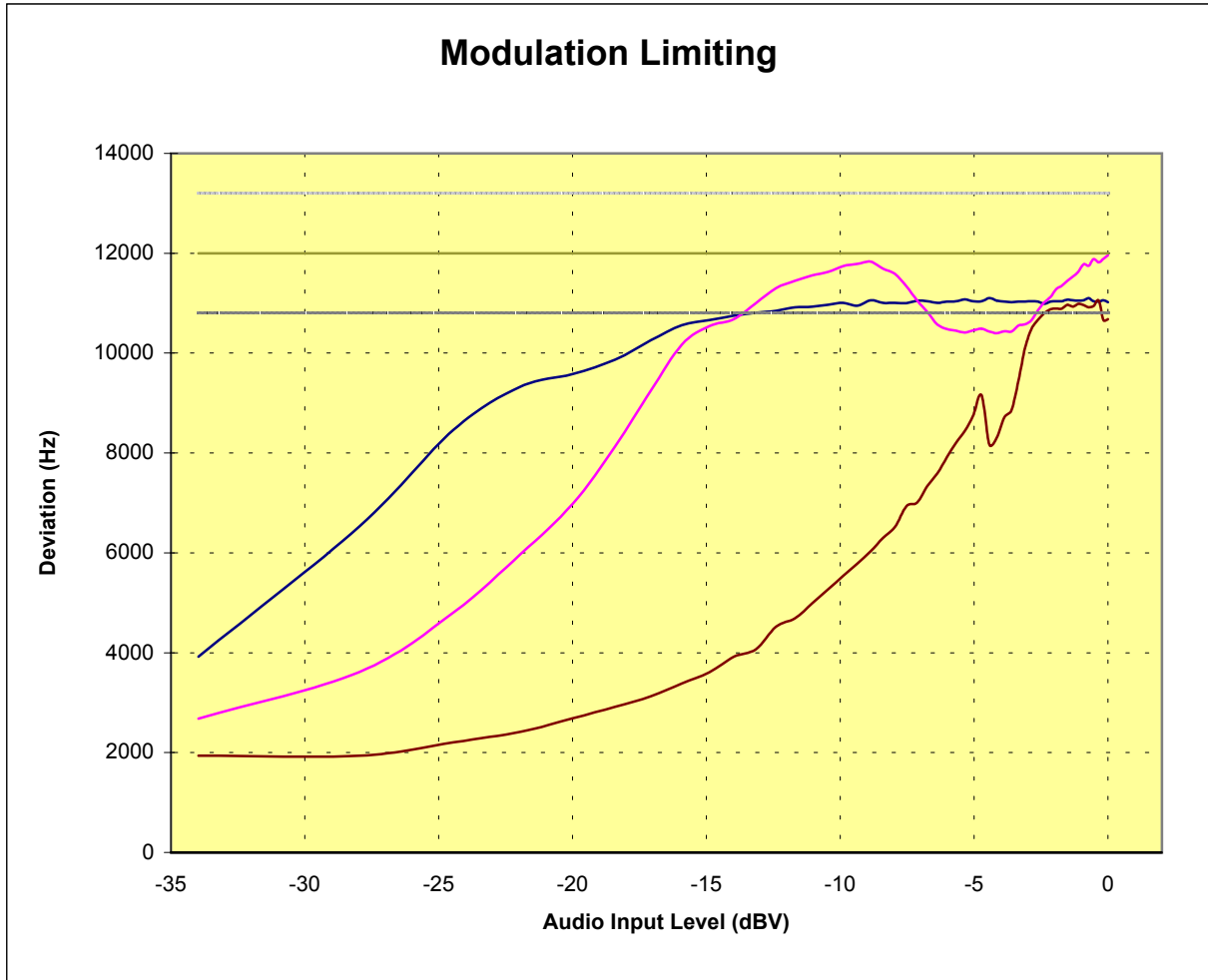
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 22

Test Report No.: 22.0710354.GML
Test Date: 07.11.2002

EUT: NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
Model: 3580
FCC ID: GMLNPD-1GW

REFERENCE: 1 kHz = 0 dB



NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
FCC ID: GMLNPD-1GW

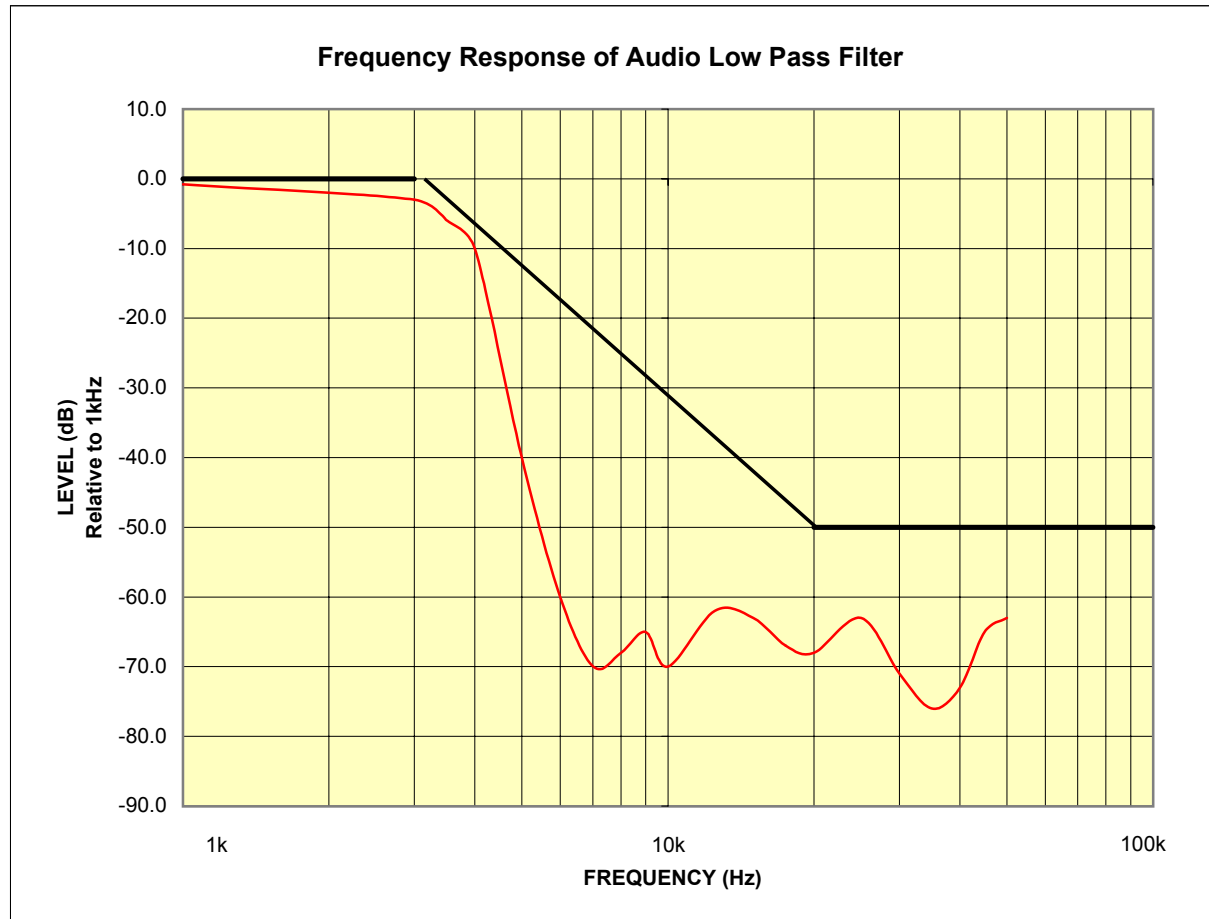
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 22

Test Report No.: 22.0710354.GML
Test Date: 07.11.2002

EUT: NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
Model: 3580
FCC ID: GMLNPD-1GW

REFERENCE: 1 kHz = 0 dB



NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
FCC ID: GMLNPD-1GW

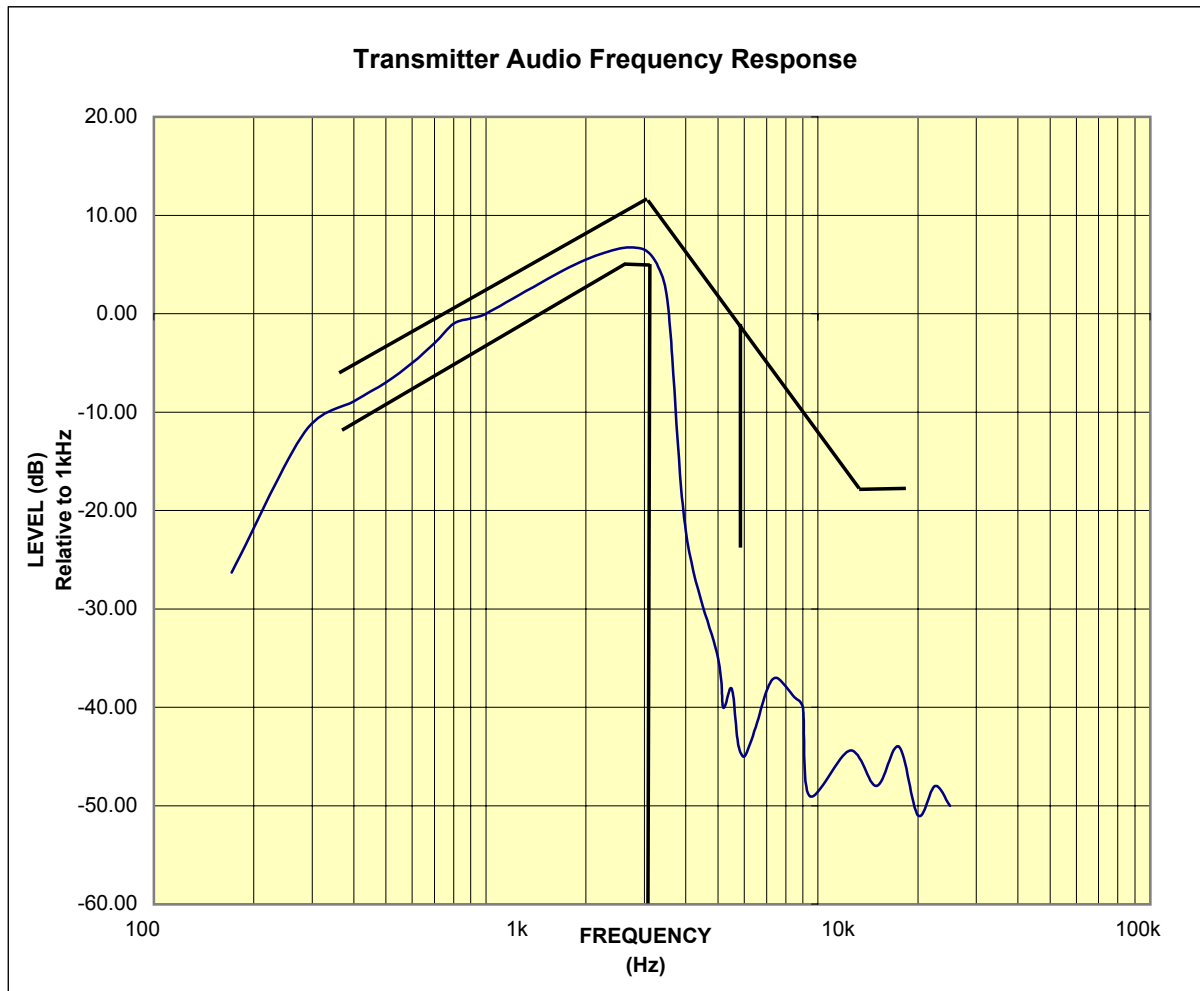
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 22

Test Report No.: 22.0710354.GML
Test Date: 07.11.2002

EUT: NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
Model: 3580
FCC ID: GMLNPD-1GW

REFERENCE: 1 kHz = 0 dB



NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
FCC ID: GMLNPD-1GW

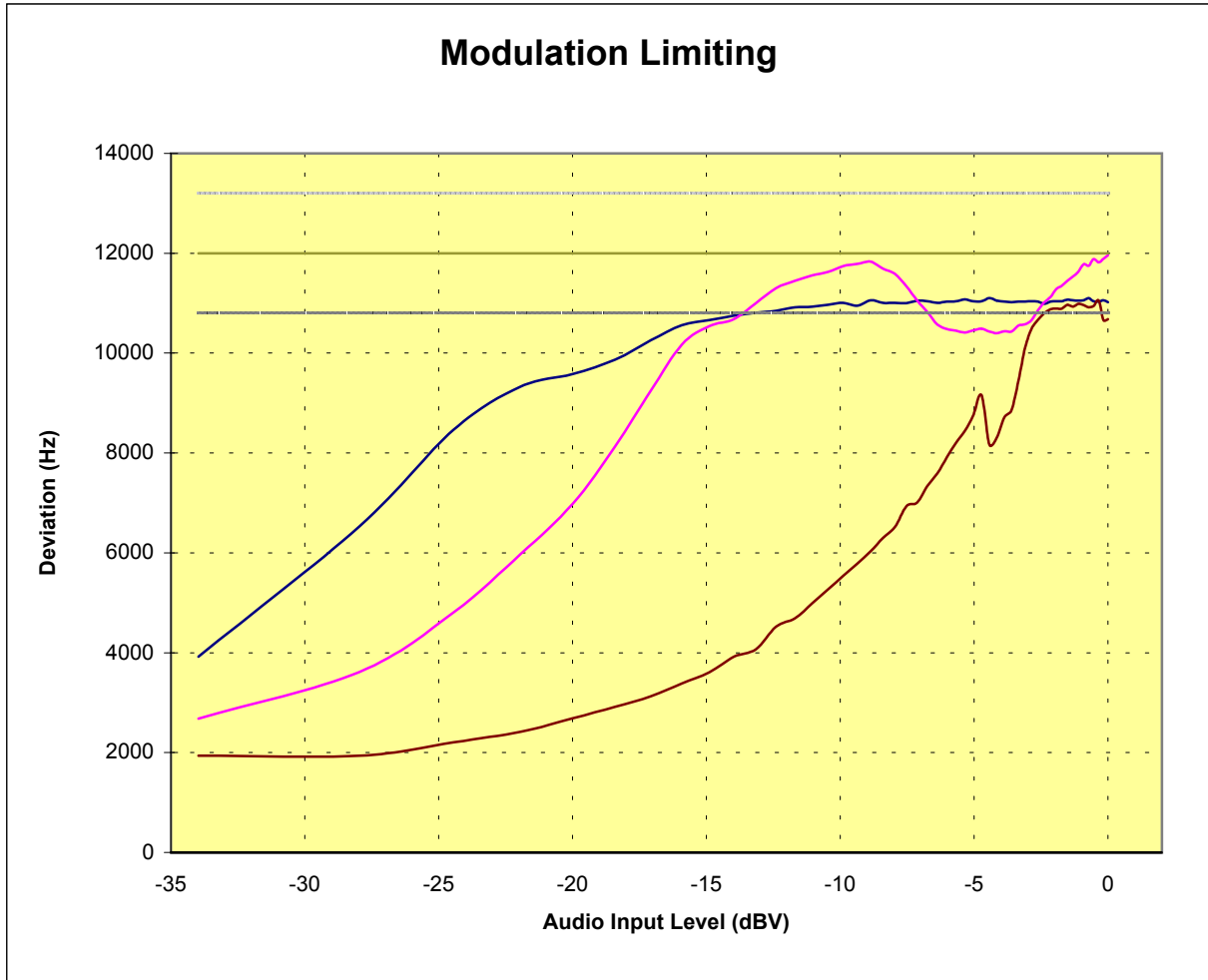
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 22

Test Report No.: 22.0710354.GML
Test Date: 07.11.2002

EUT: NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
Model: 3580
FCC ID: GMLNPD-1GW

REFERENCE: 1 kHz = 0 dB



NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
FCC ID: GMLNPD-1GW

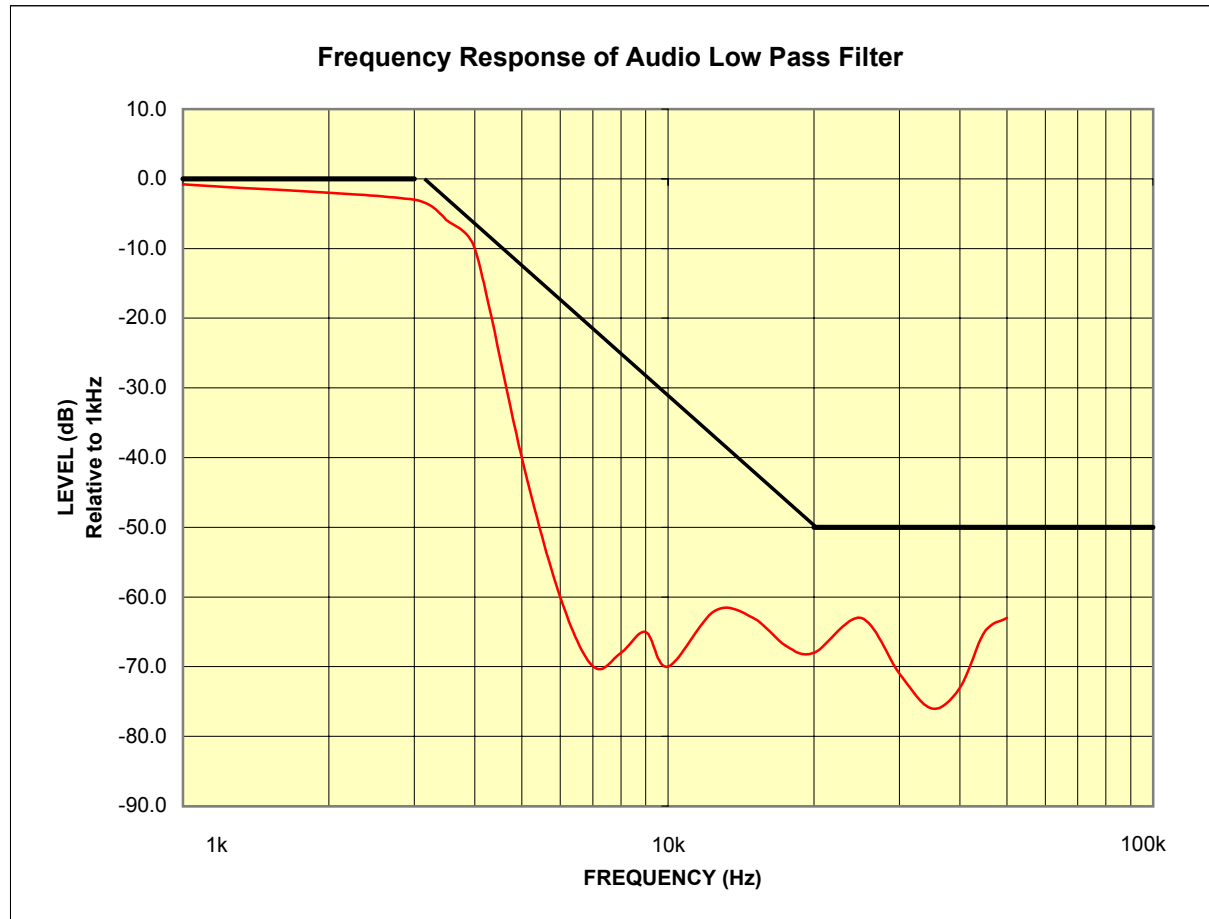
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SUBJECT: Modulation Characteristics
FCC Part 22

Test Report No.: 22.0710354.GML
Test Date: 07.11.2002

EUT: NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
Model: 3580
FCC ID: GMLNPD-1GW

REFERENCE: 1 kHz = 0 dB



NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
FCC ID: GMLNPD-1GW

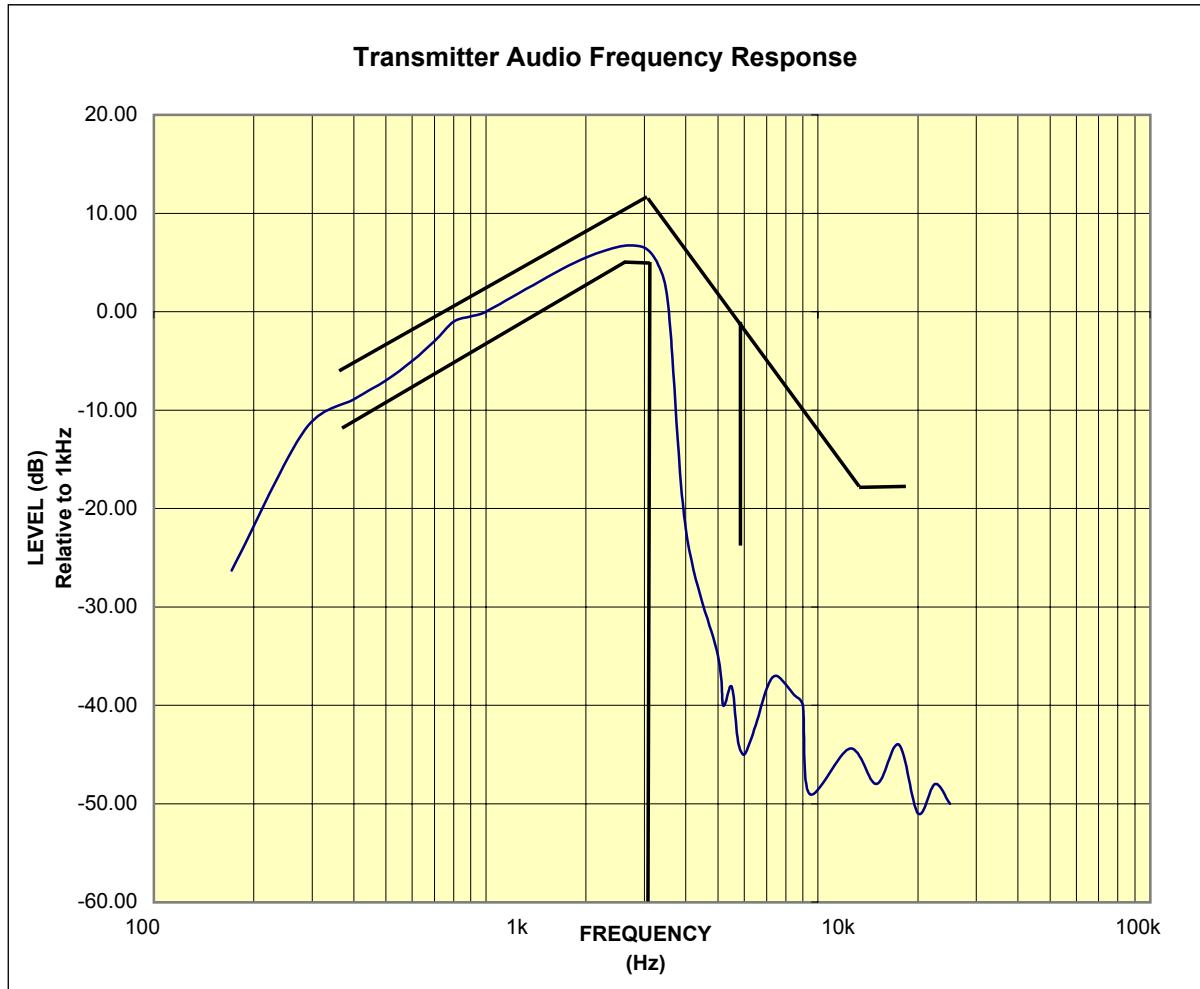
PCTEST Engineering Lab., Inc.

SUBJECT: Modulation Characteristics
FCC Part 22

Test Report No.: 22.0710354.GML
Test Date: 07.11.2002

EUT: NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
Model: 3580
FCC ID: GMLNPD-1GW

REFERENCE: 1 kHz = 0 dB



NOKIA Dual-Mode Cellular Phone (AMPS/CDMA)
FCC ID: GMLNPD-1GW