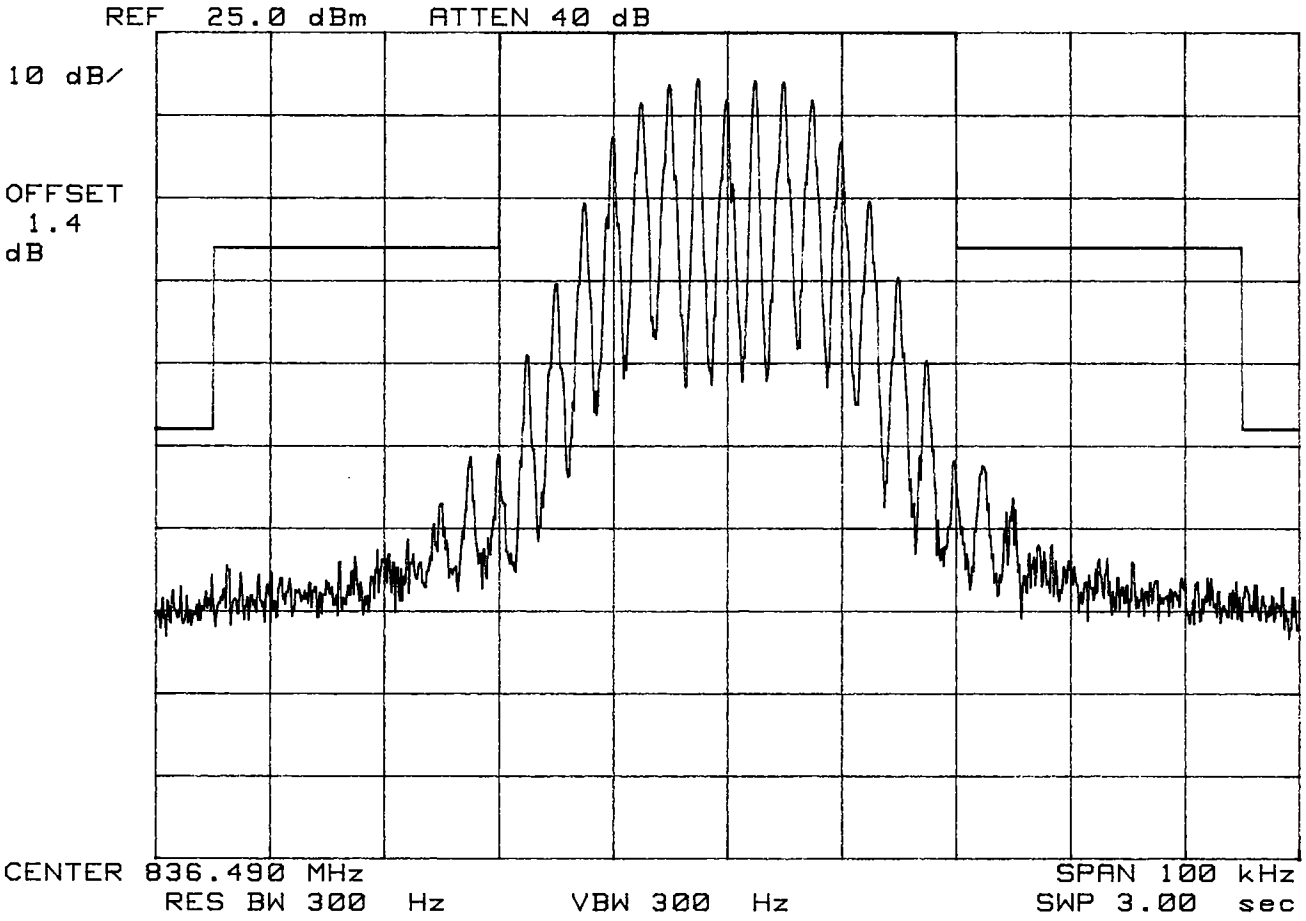
PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHN195
SAMSUNG
Dual-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:Voice

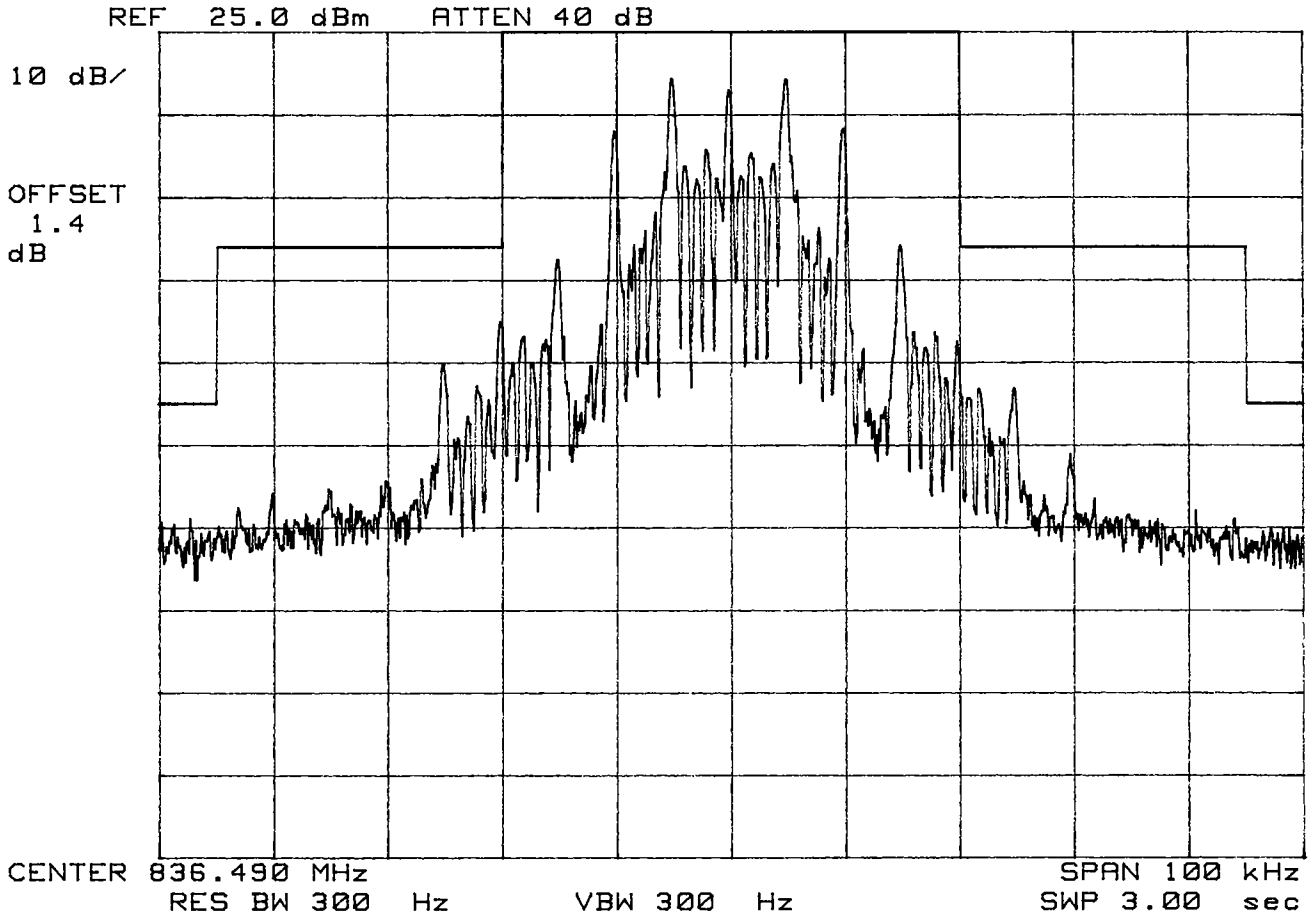


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHN195
SAMSUNG
Dual-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:Wide Band Data

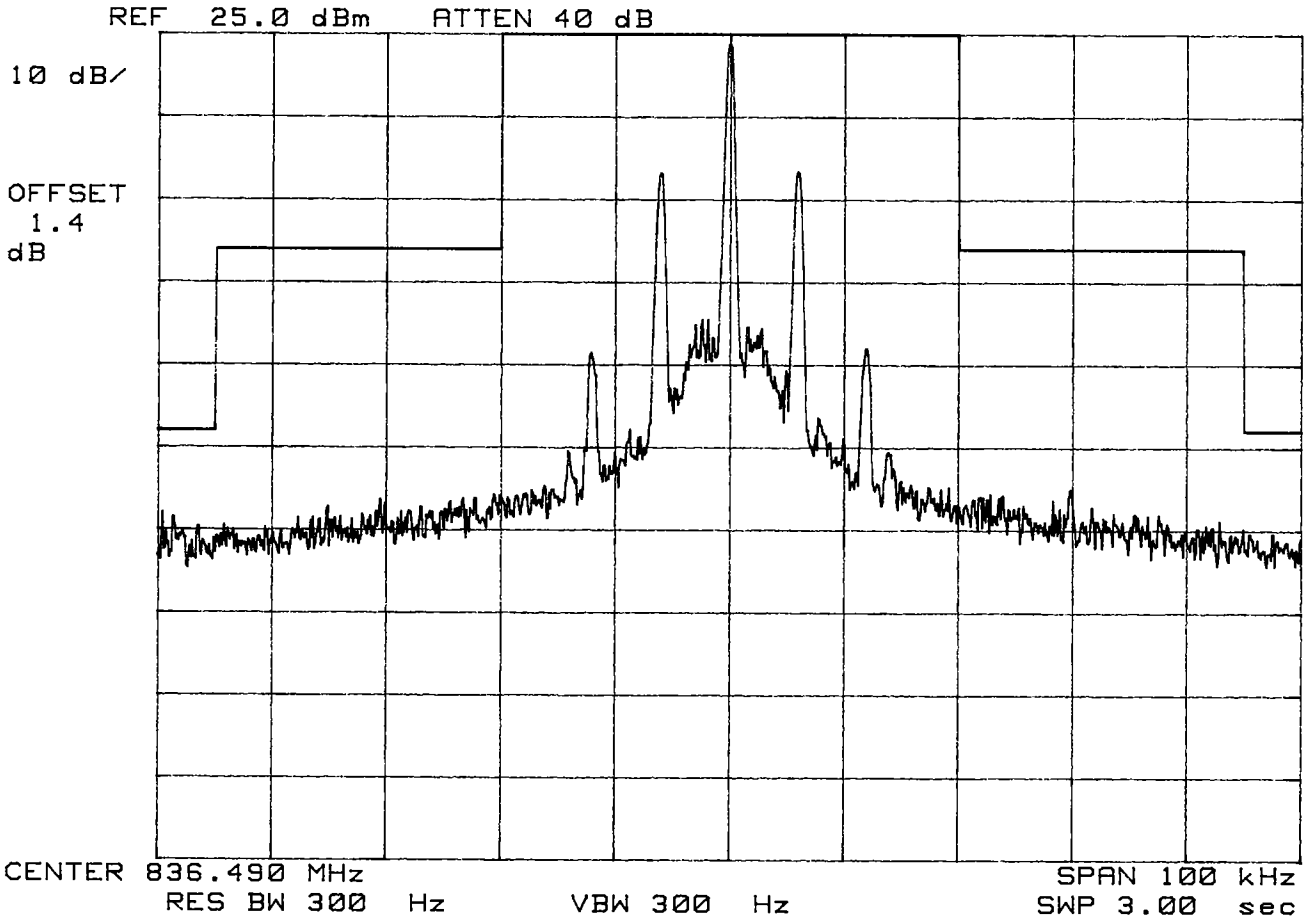


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHN195
SAMSUNG
Dual-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:SAT

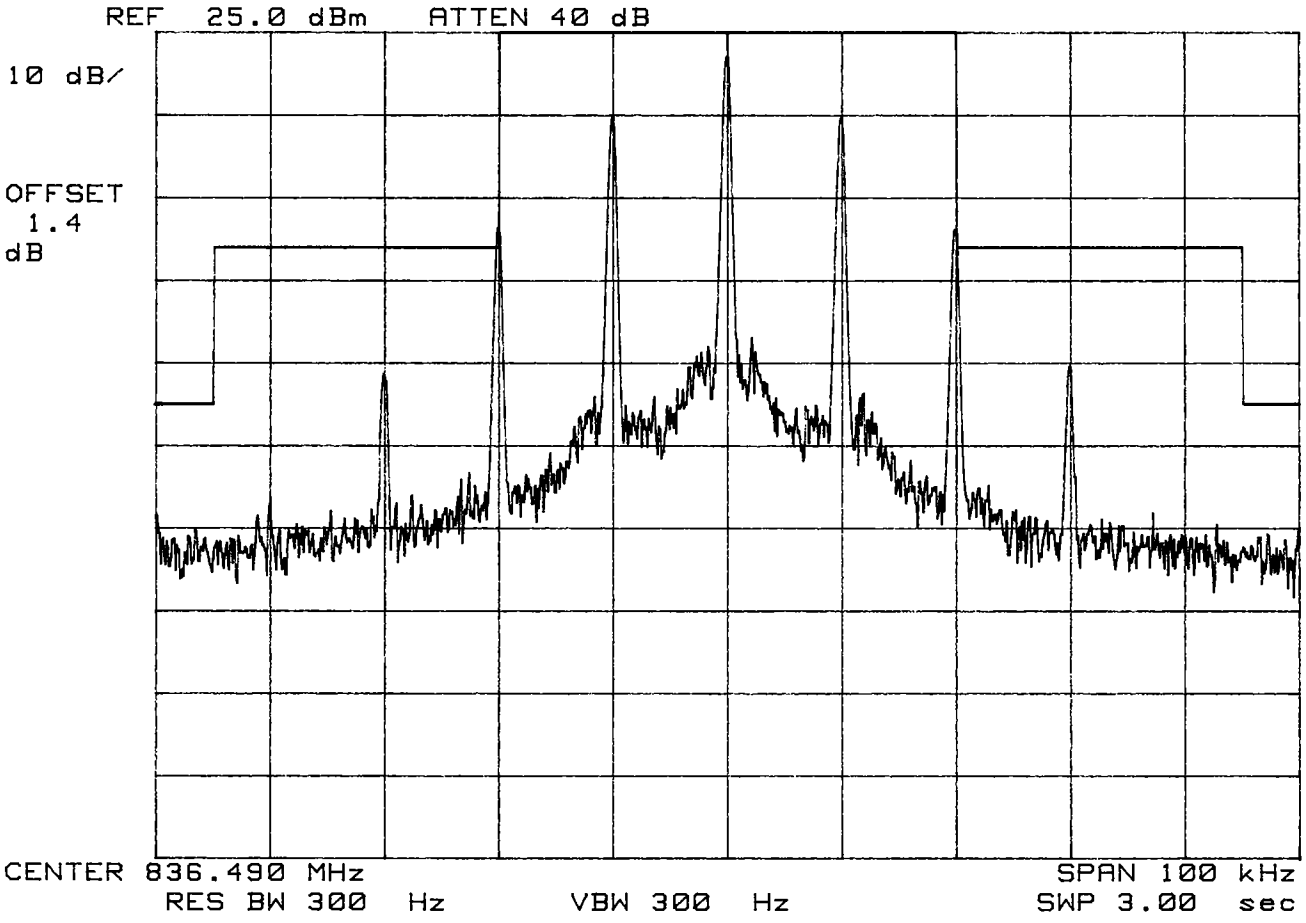


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHN195
SAMSUNG
Dual-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:ST

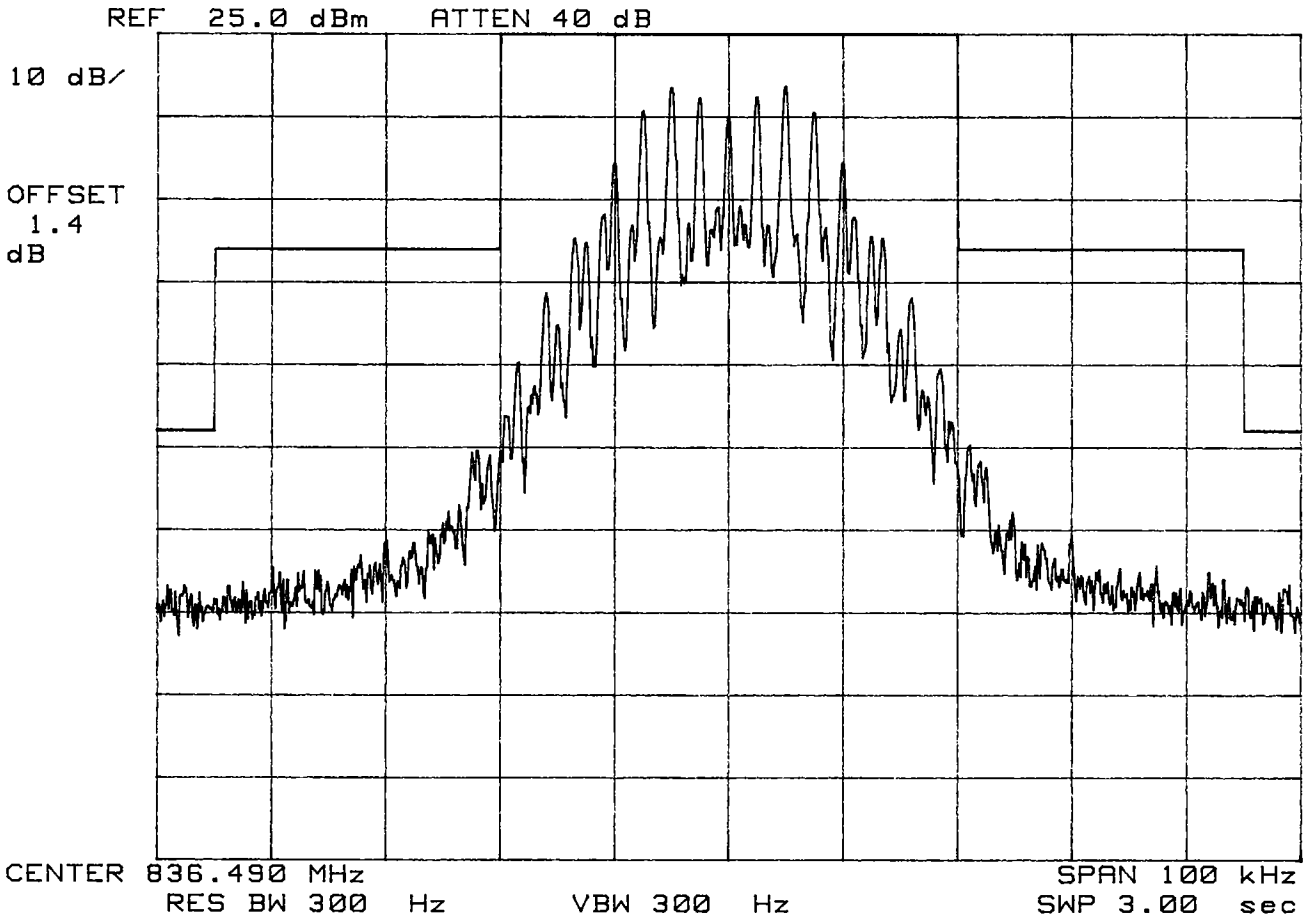


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHN195
SAMSUNG
Dual-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:SAT + Voice

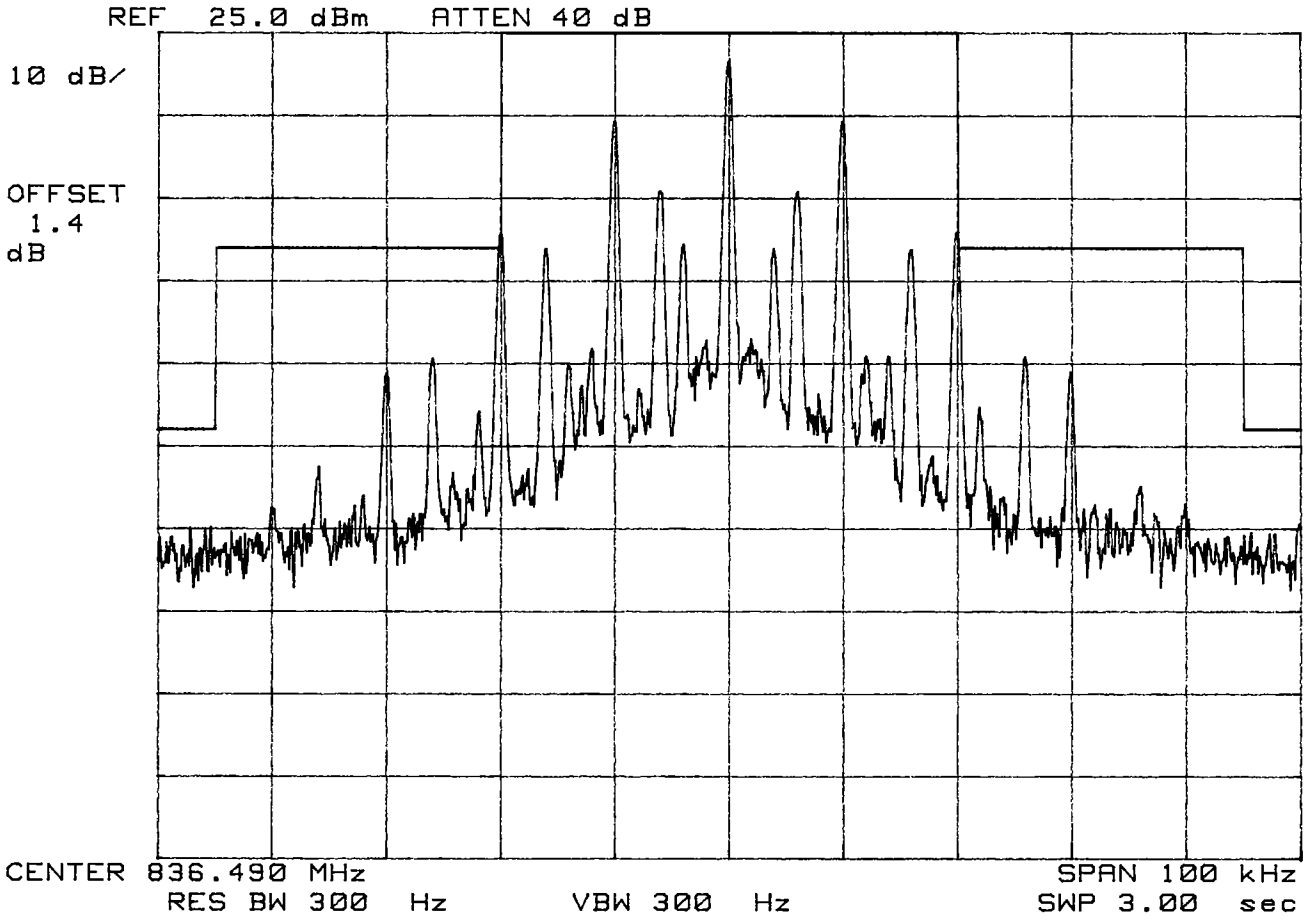


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:A3LSCHN195
SAMSUNG
Dual-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

Test Mode:SAT + ST

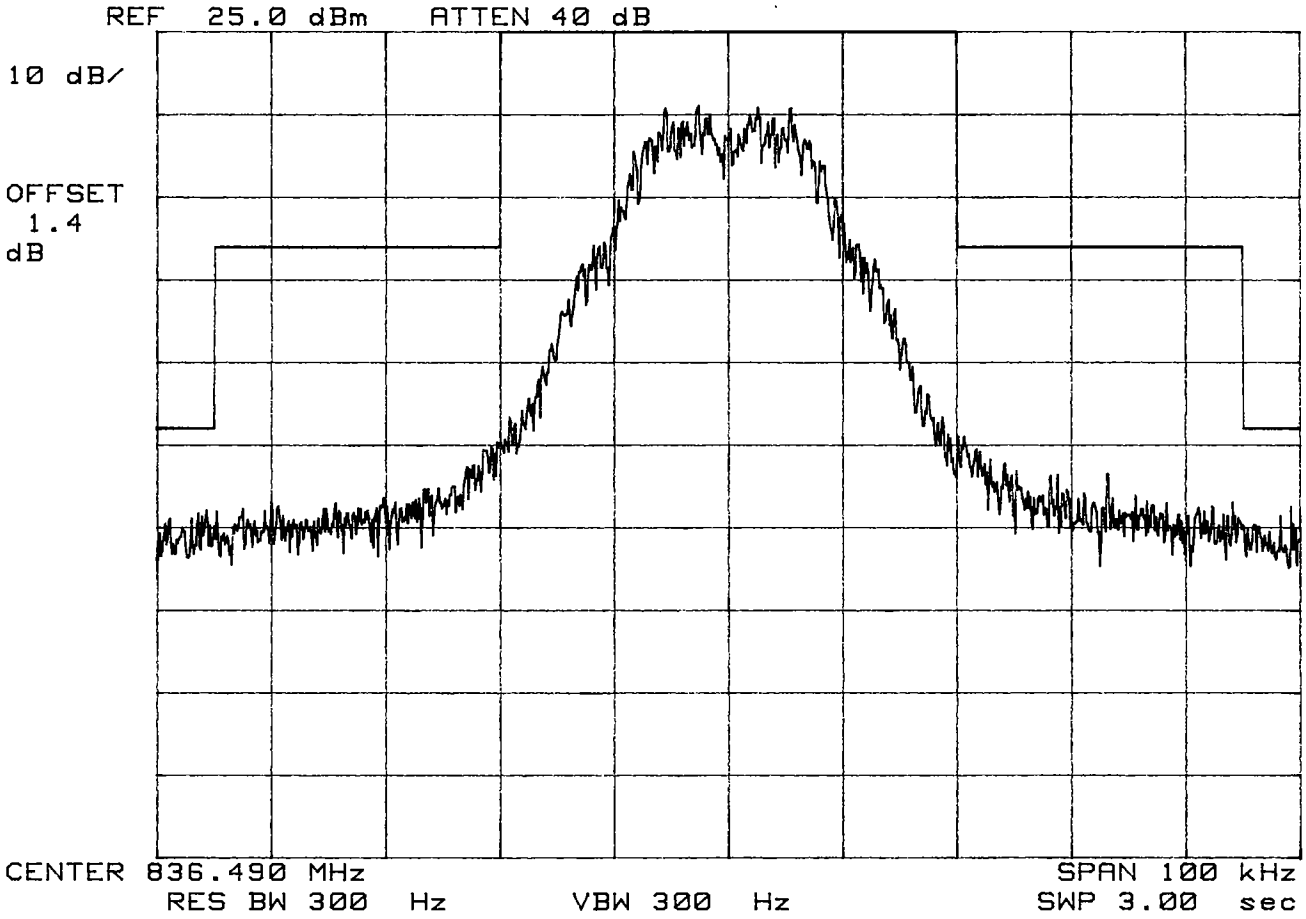


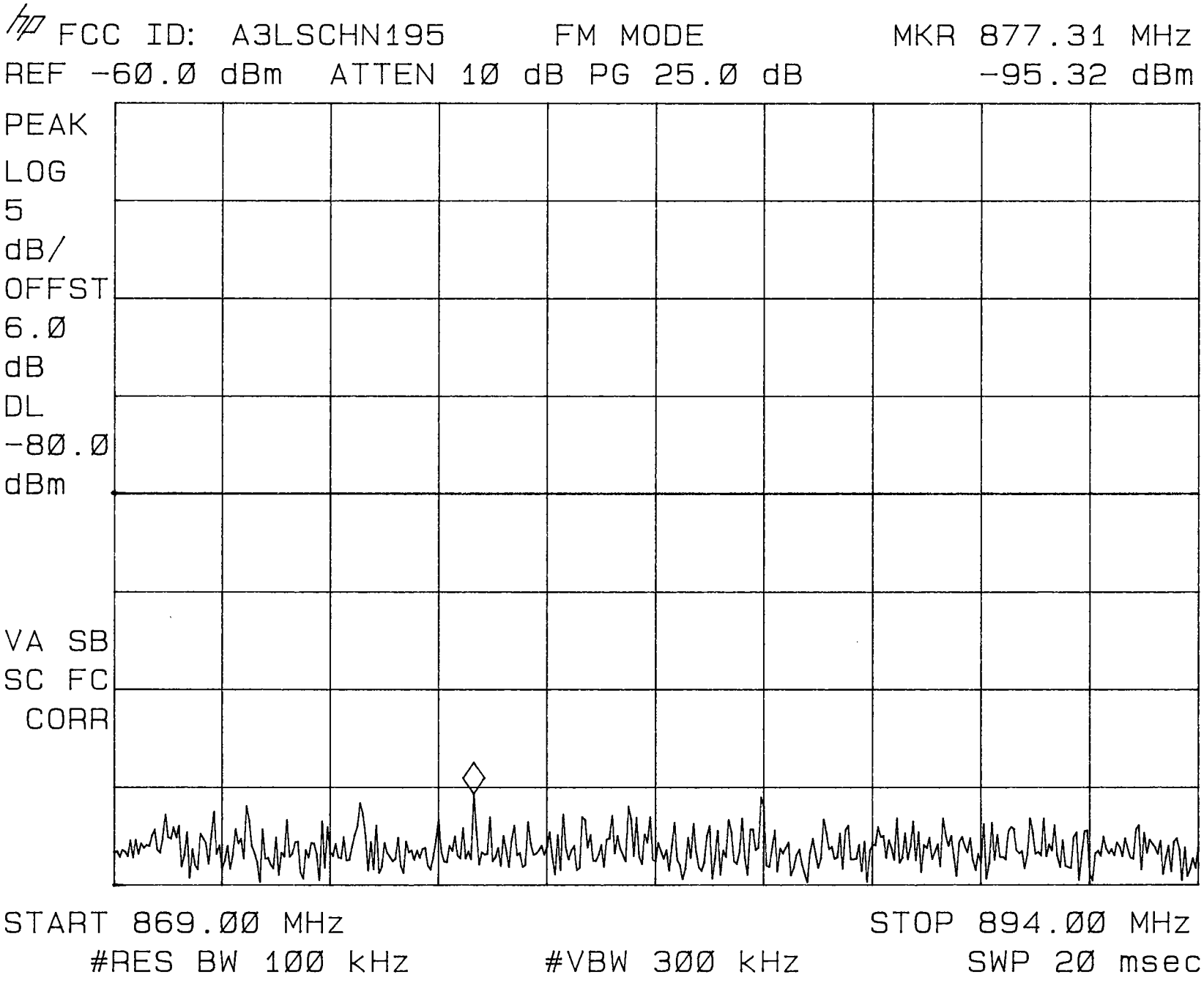
PCTEST Engineering Lab.

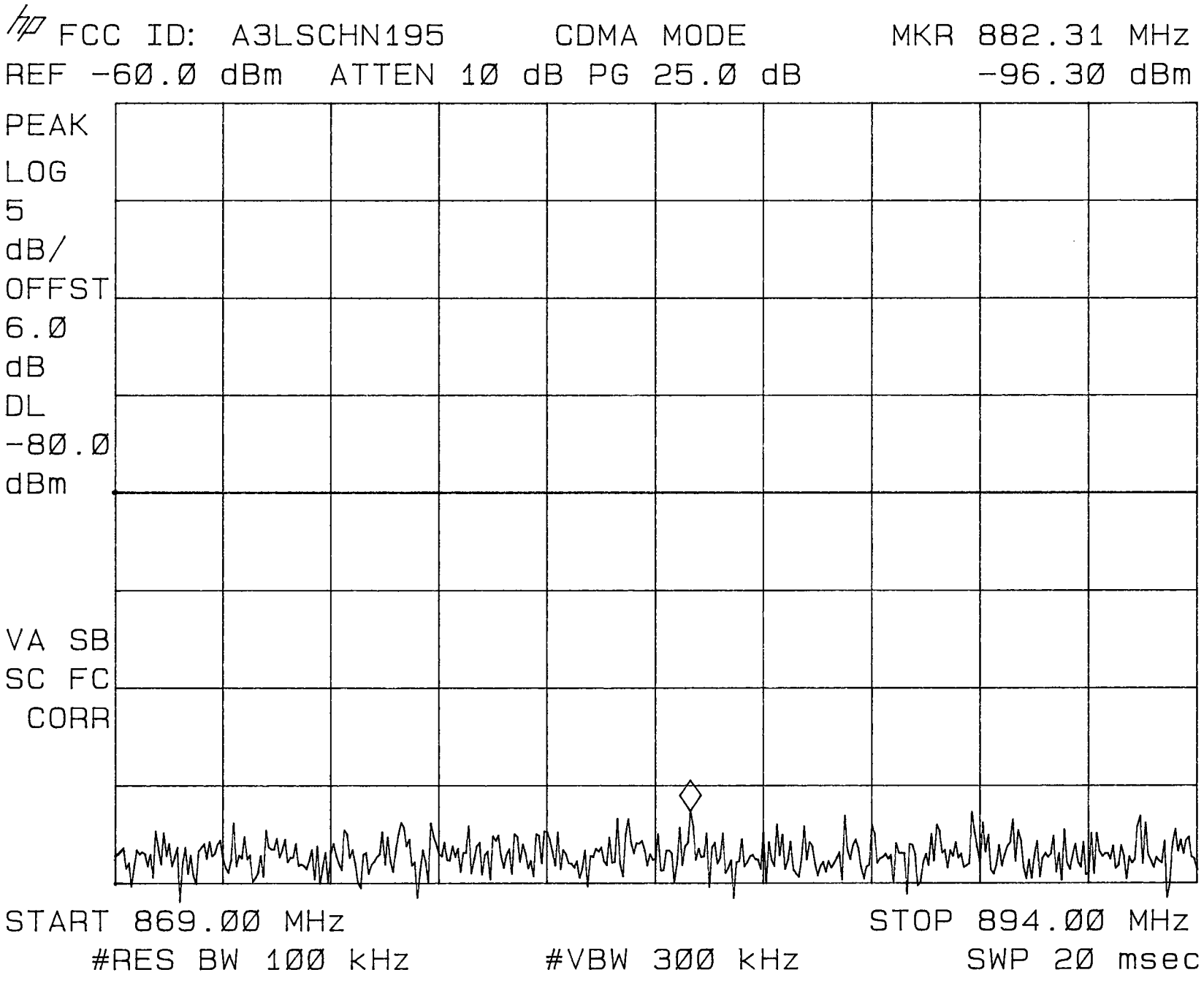
SPECTRUM ANALYZER PRESENTATION

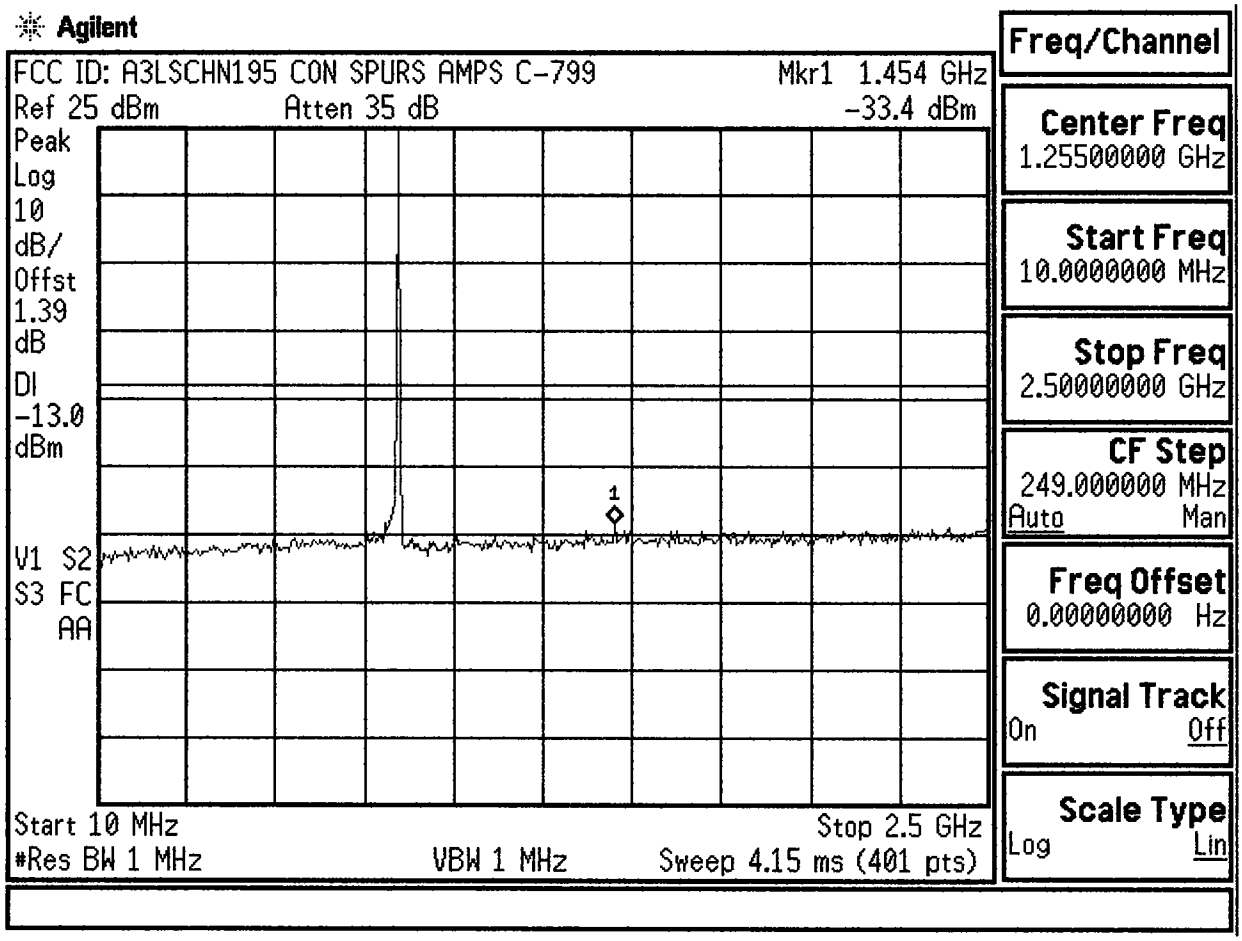
FCC ID:A3LSCHN195
SAMSUNG
Dual-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

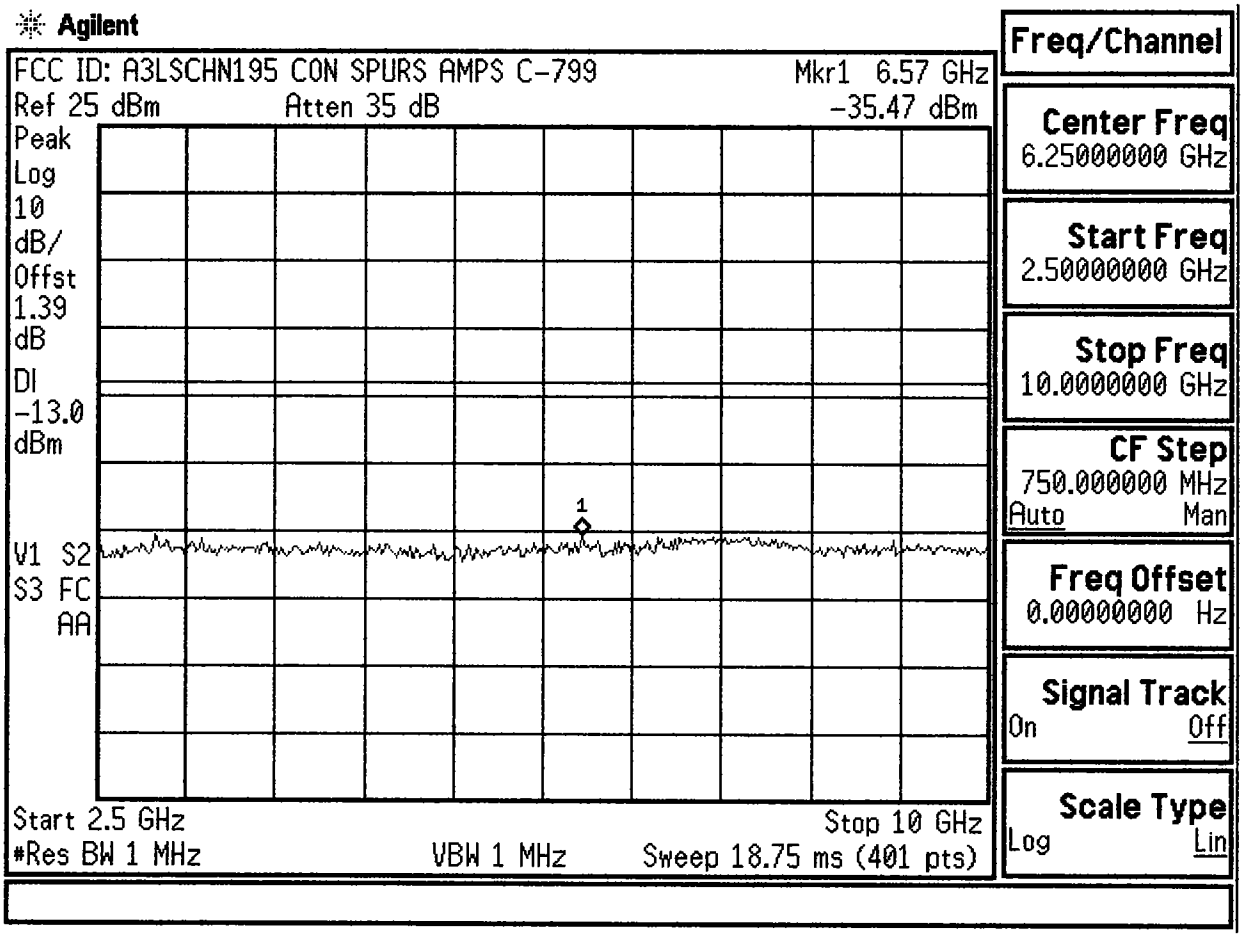
Test Mode:SAT + DTMF

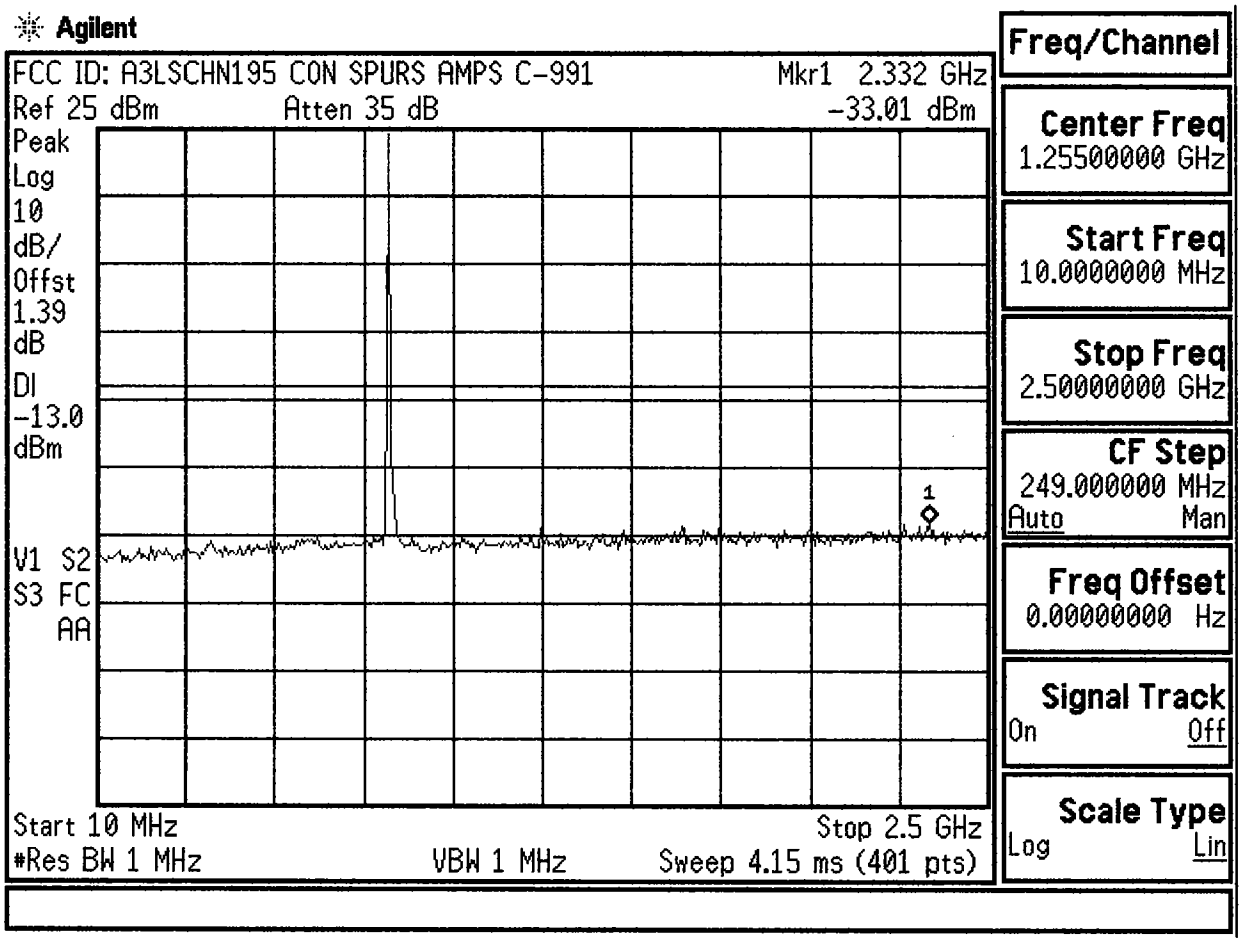


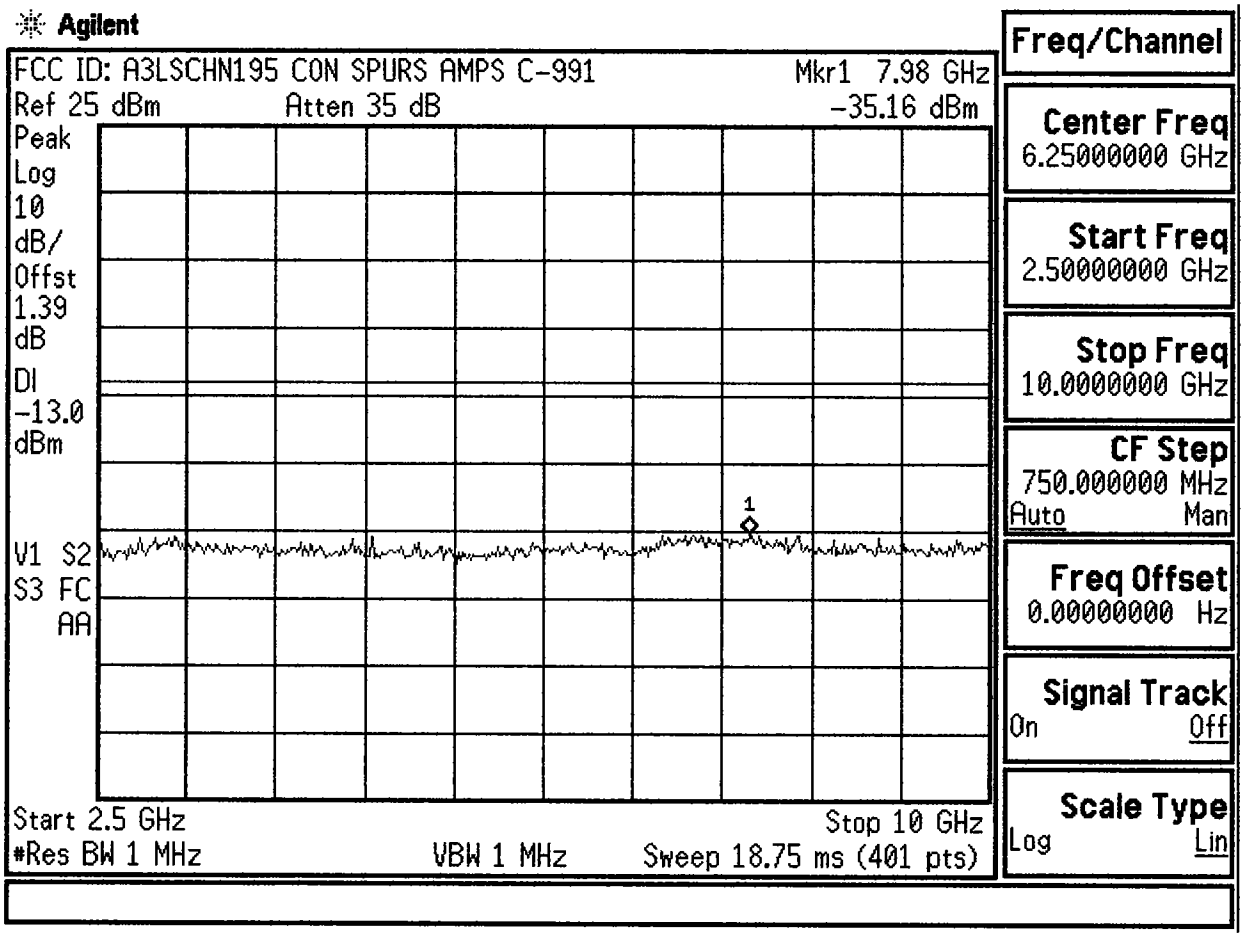

FCC ID: A3LSCHN195
FM MODE
MKR 877.31 MHz
REF -60.0 dBm
ATTEN 10 dB PG 25.0 dB
-95.32 dBm
PEAK
LOG
5
dB/
OFFST
6.0
dB
DL
-80.0
dBm
VA SB
SC FC
CORR
START 869.00 MHz
STOP 894.00 MHz
#RES BW 100 kHz
#VBW 300 kHz
SWP 20 msec

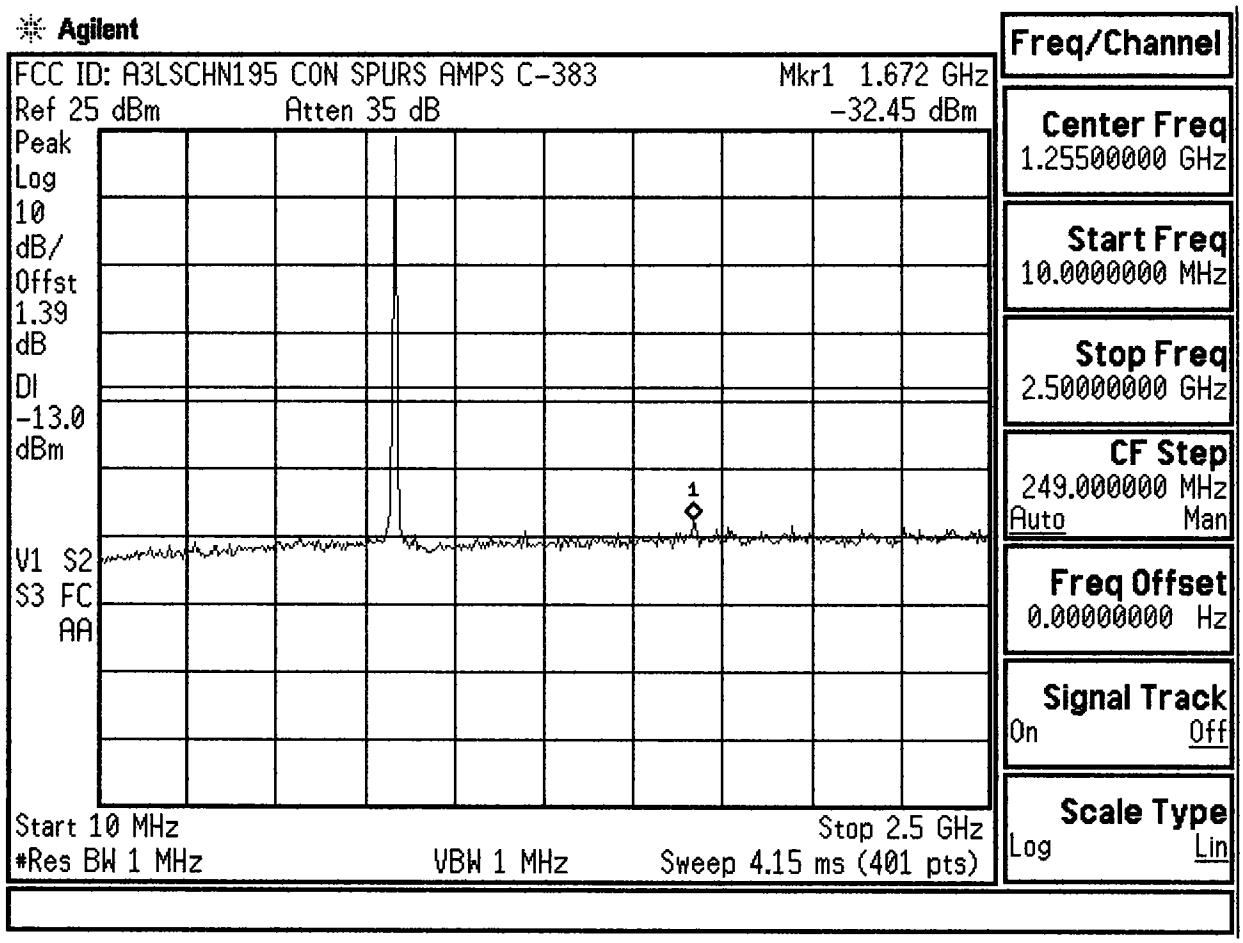

FCC ID: A3LSCHN195
CDMA MODE
MKR 882.31 MHz
REF -60.0 dBm
ATTEN 10 dB PG 25.0 dB
-96.30 dBm
PEAK
LOG
5
dB/
OFFST
6.0
dB
DL
-80.0
dBm
VA SB
SC FC
CORR
START 869.00 MHz
STOP 894.00 MHz
#RES BW 100 kHz
#VBW 300 kHz
SWP 20 msec

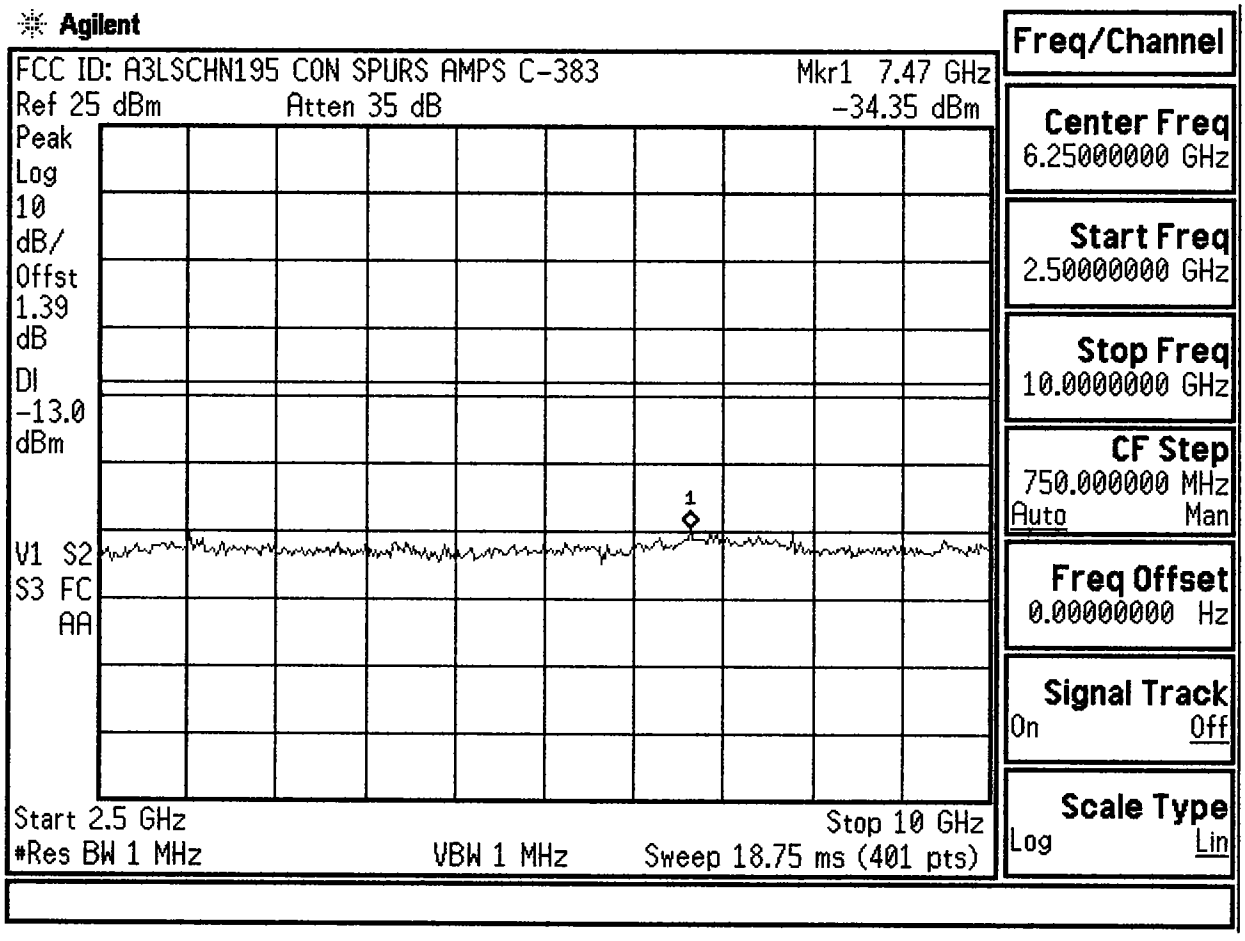

Agilent
FCC ID: A3LSCHN195 CON SPURS AMPS C-799
Mkr1 1.454 GHz
Ref 25 dBm
Atten 35 dB
-33.4 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 4.15 ms (401 pts)
Freq/Channel
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Scale Type
Log Lin


Agilent
FCC ID: A3LSCHN195 CON SPURS AMPS C-799
Mkr1 6.57 GHz
Ref 25 dBm
Atten 35 dB
-35.47 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 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
Scale Type
Log Lin


Agilent
FCC ID: A3LSCHN195 CON SPURS AMPS C-991
Mkr1 2.332 GHz
Ref 25 dBm
Atten 35 dB
-33.01 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 4.15 ms (401 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
Scale Type
Log Lin


Agilent
FCC ID: A3LSCHN195 CON SPURS AMPS C-991
Mkr1 7.98 GHz
Ref 25 dBm
Atten 35 dB
-35.16 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 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
Scale Type
Log Lin


Agilent
FCC ID: A3LSCHN195 CON SPURS AMPS C-383
Mkr1 1.672 GHz
Ref 25 dBm
Atten 35 dB
-32.45 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 4.15 ms (401 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
Scale Type
Log Lin

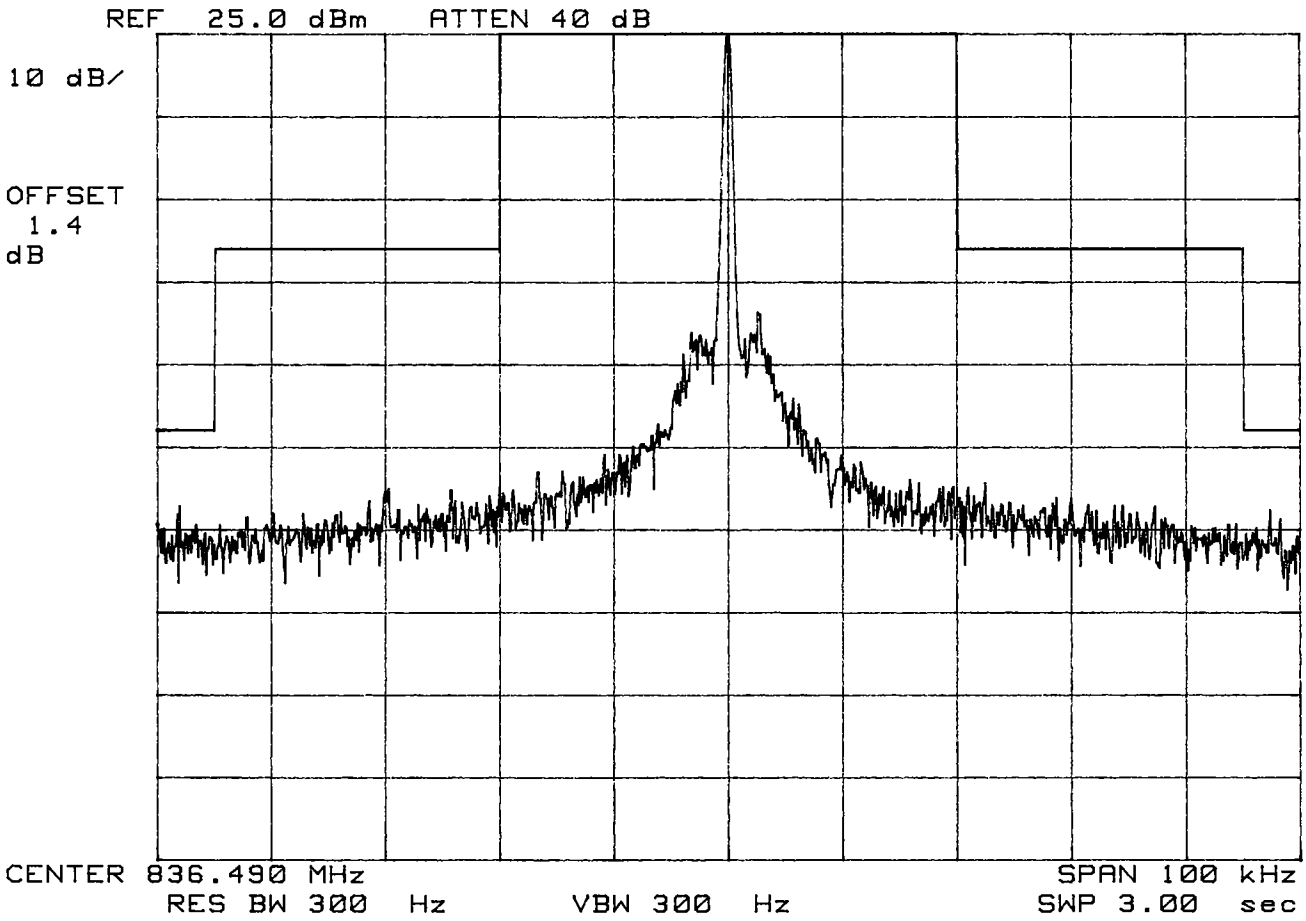

Agilent
FCC ID: A3LSCHN195 CON SPURS AMPS C-383
Mkr1 7.47 GHz
Ref 25 dBm
Atten 35 dB
-34.35 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 pts)
Freq/Channel
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Scale Type
Log Lin

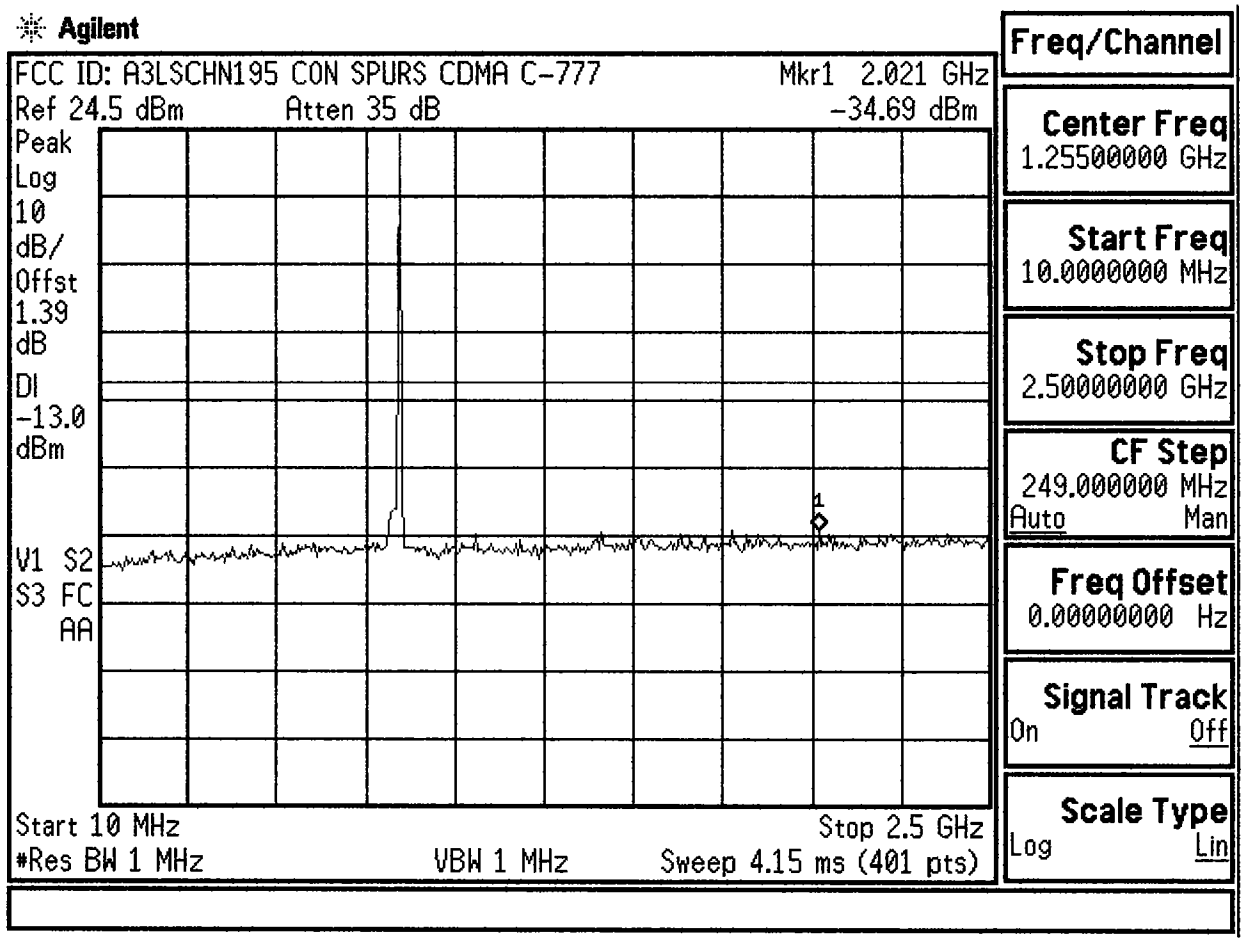
PCTEST Engineering Lab.

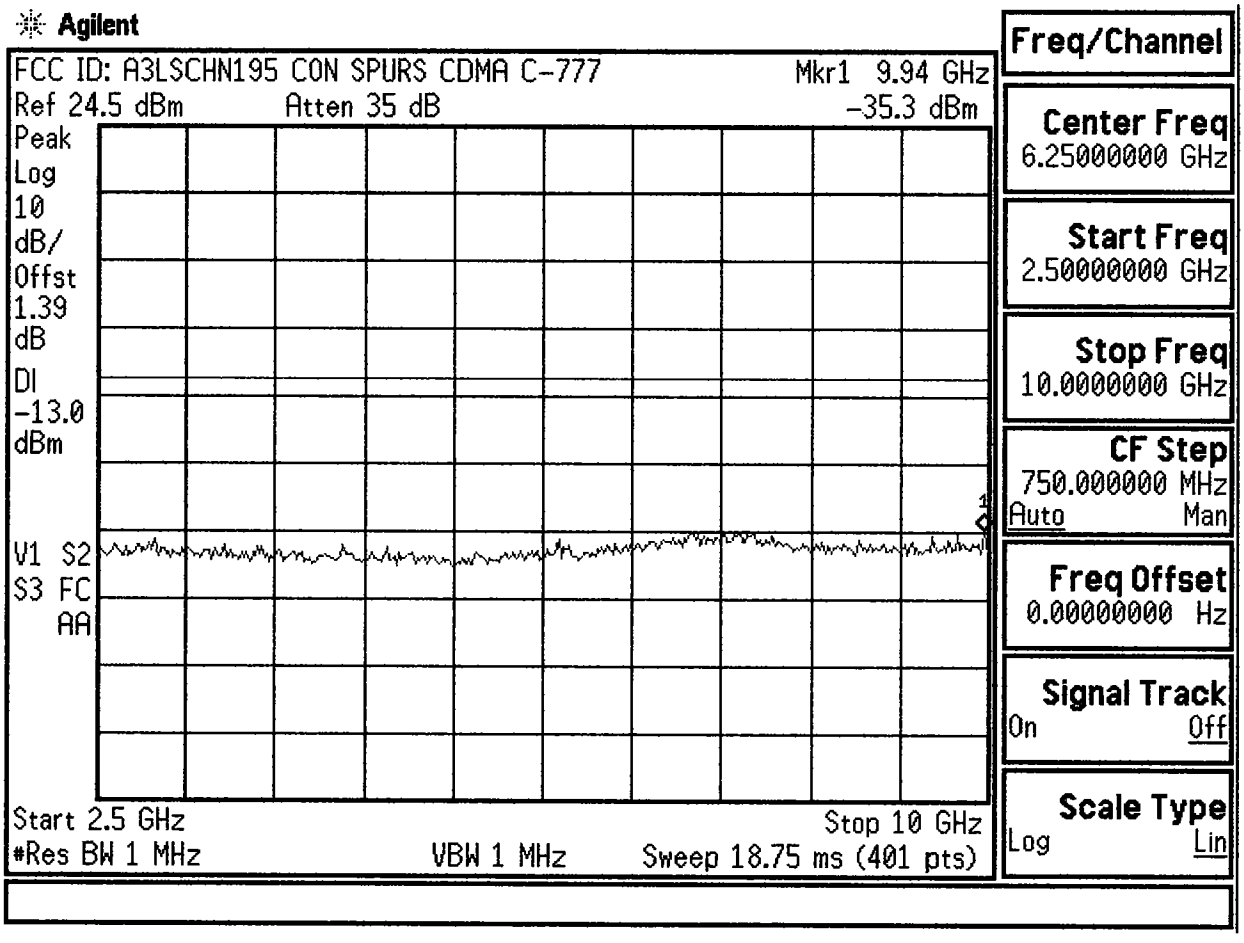
SPECTRUM ANALYZER PRESENTATION

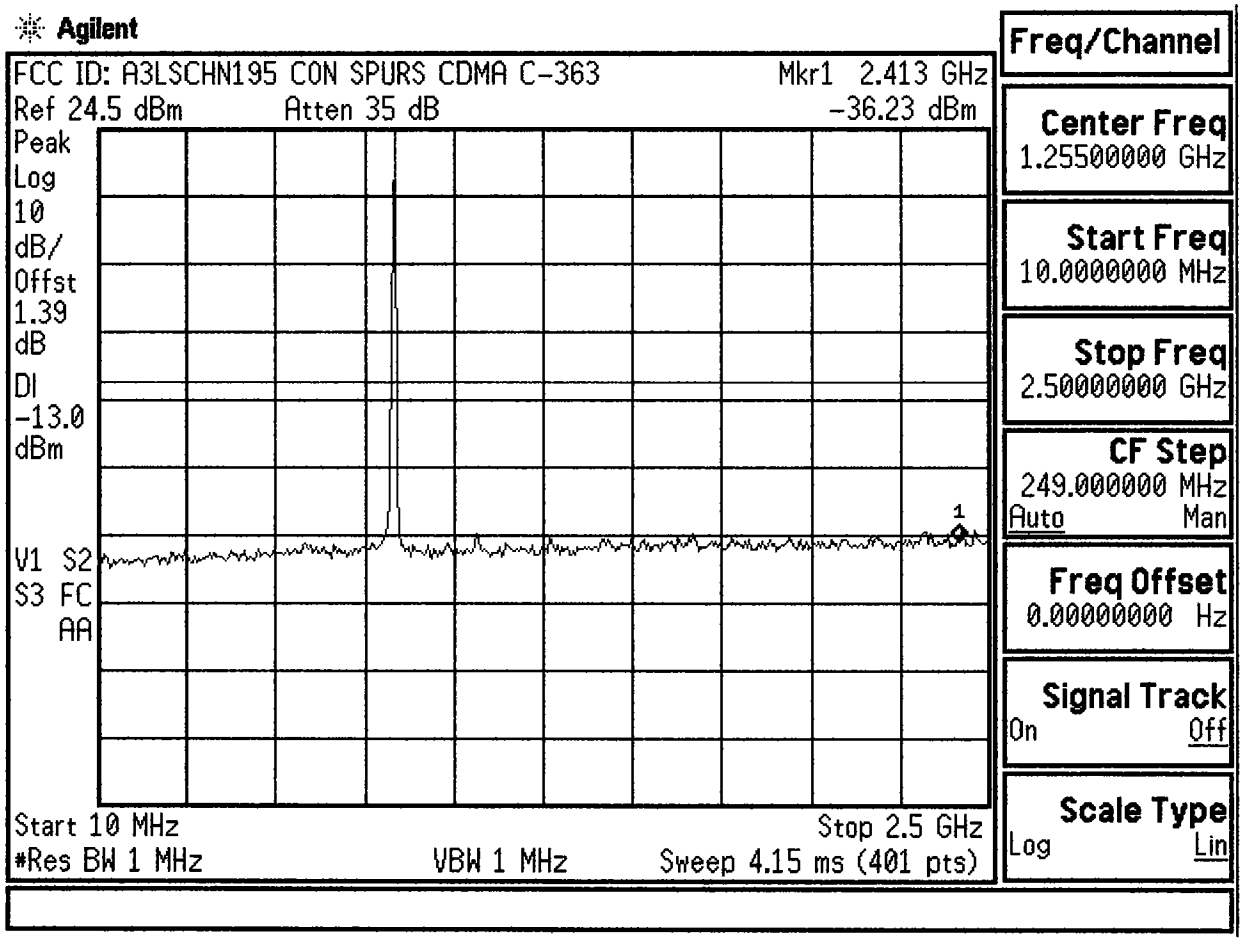
FCC ID:A3LSCHN195
SAMSUNG
Dual-Mode Phone
FM Channel 383
Operating Frequency: 836.490 MHz
Output Power : 25.0 dBm

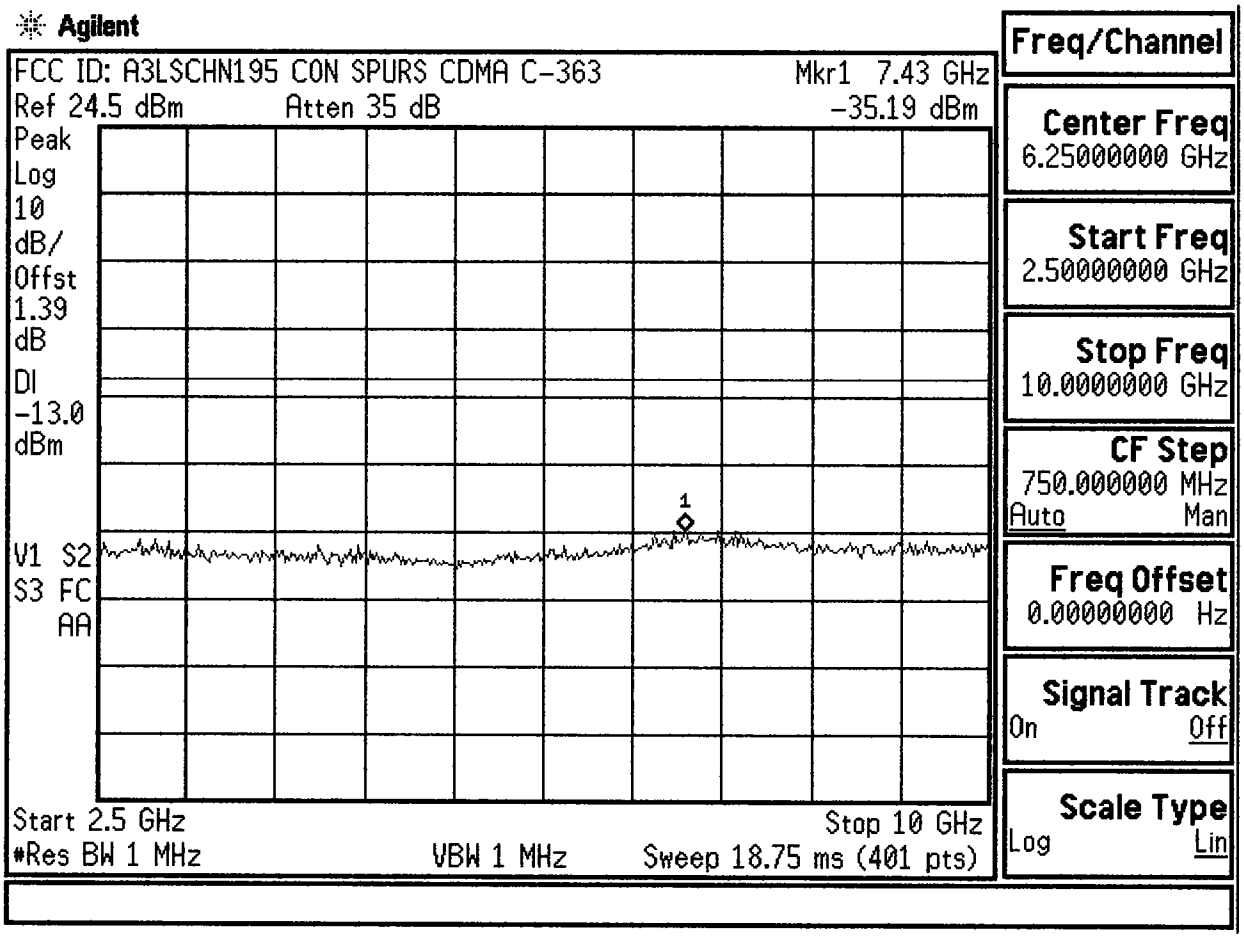
Test Mode:Unmodulated Signal

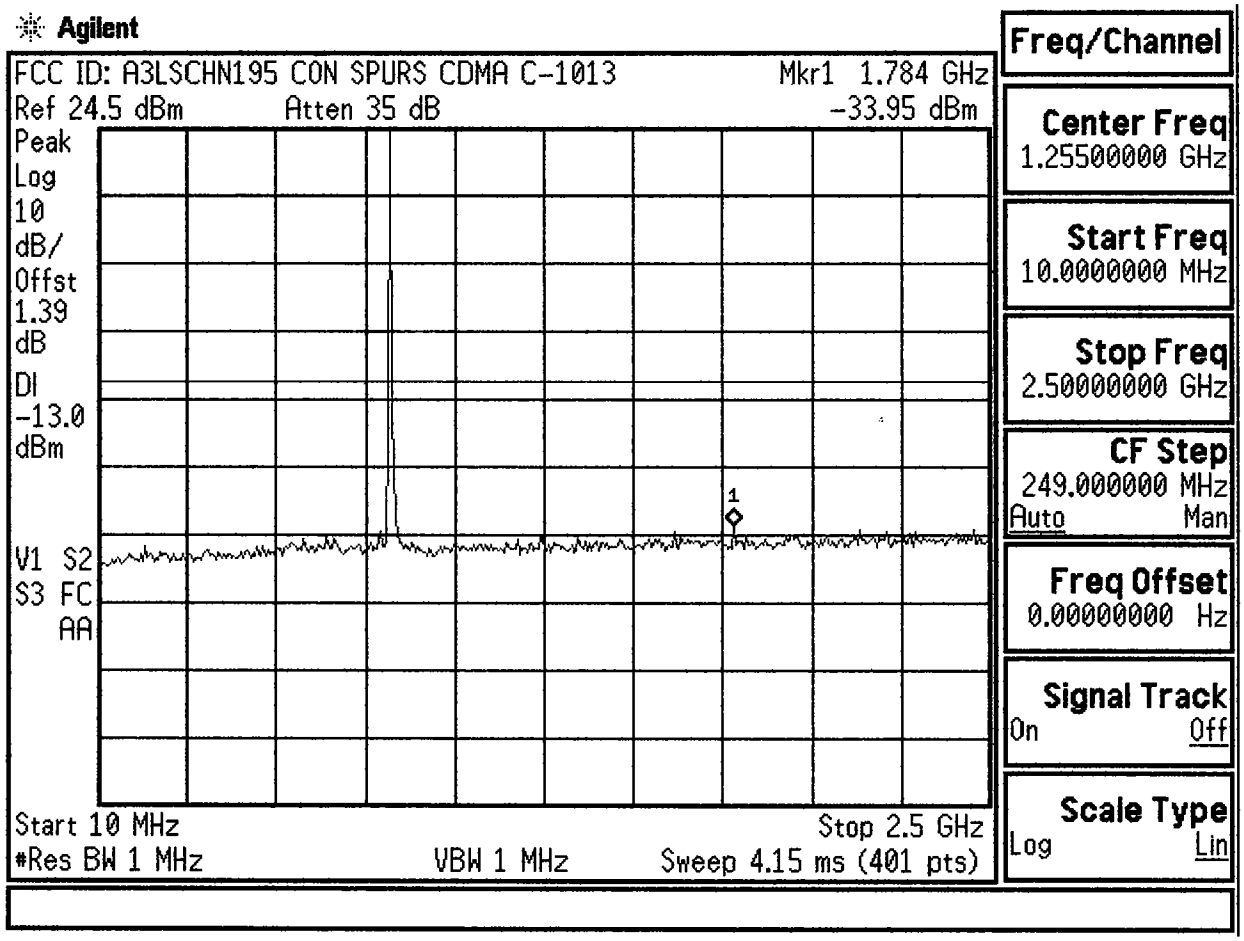


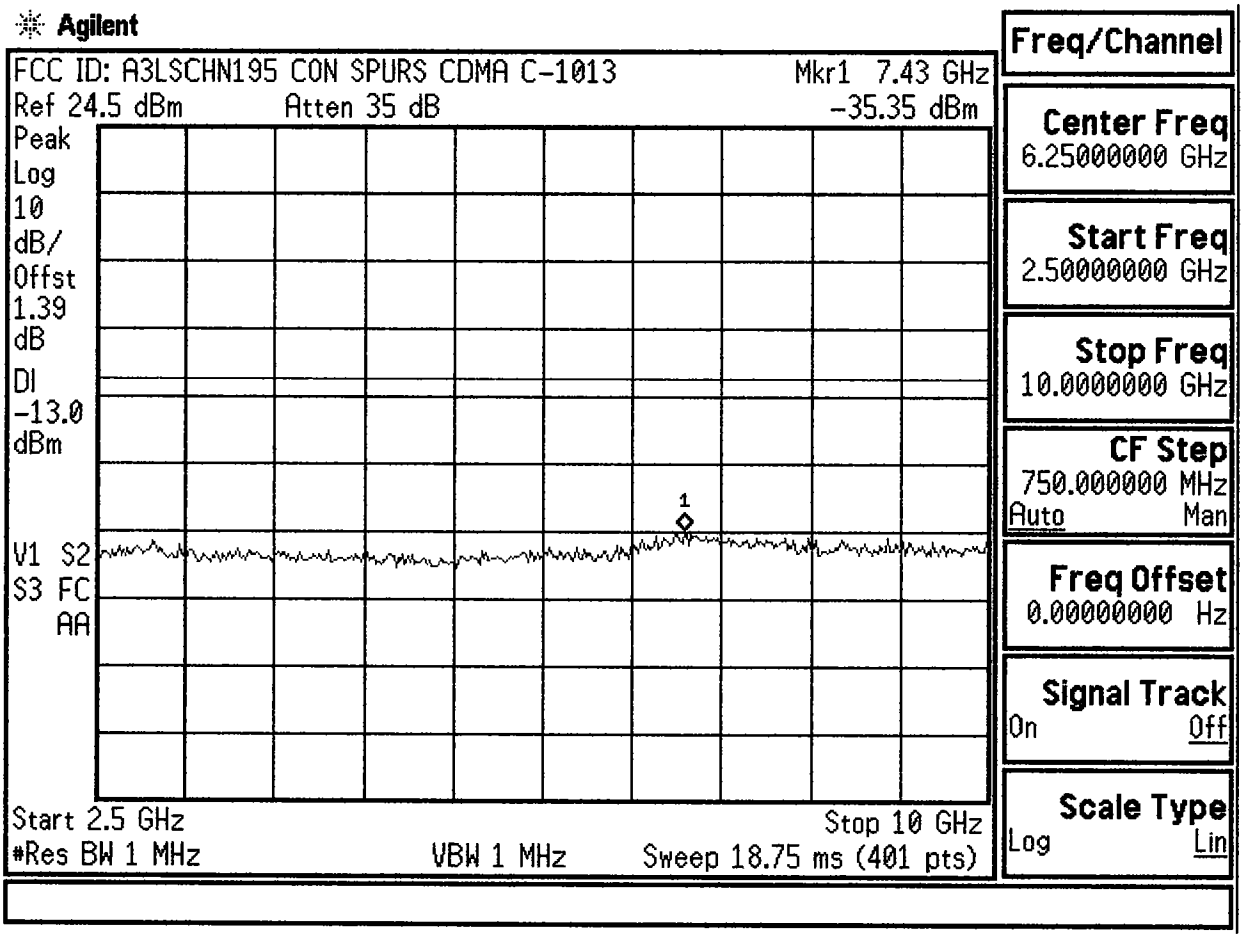

Agilent
FCC ID: A3LSCHN195 CON SPURS CDMA C-777
Mkr1 2.021 GHz
Ref 24.5 dBm
Atten 35 dB
-34.69 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 4.15 ms (401 pts)
Freq/Channel
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Scale Type
Log Lin

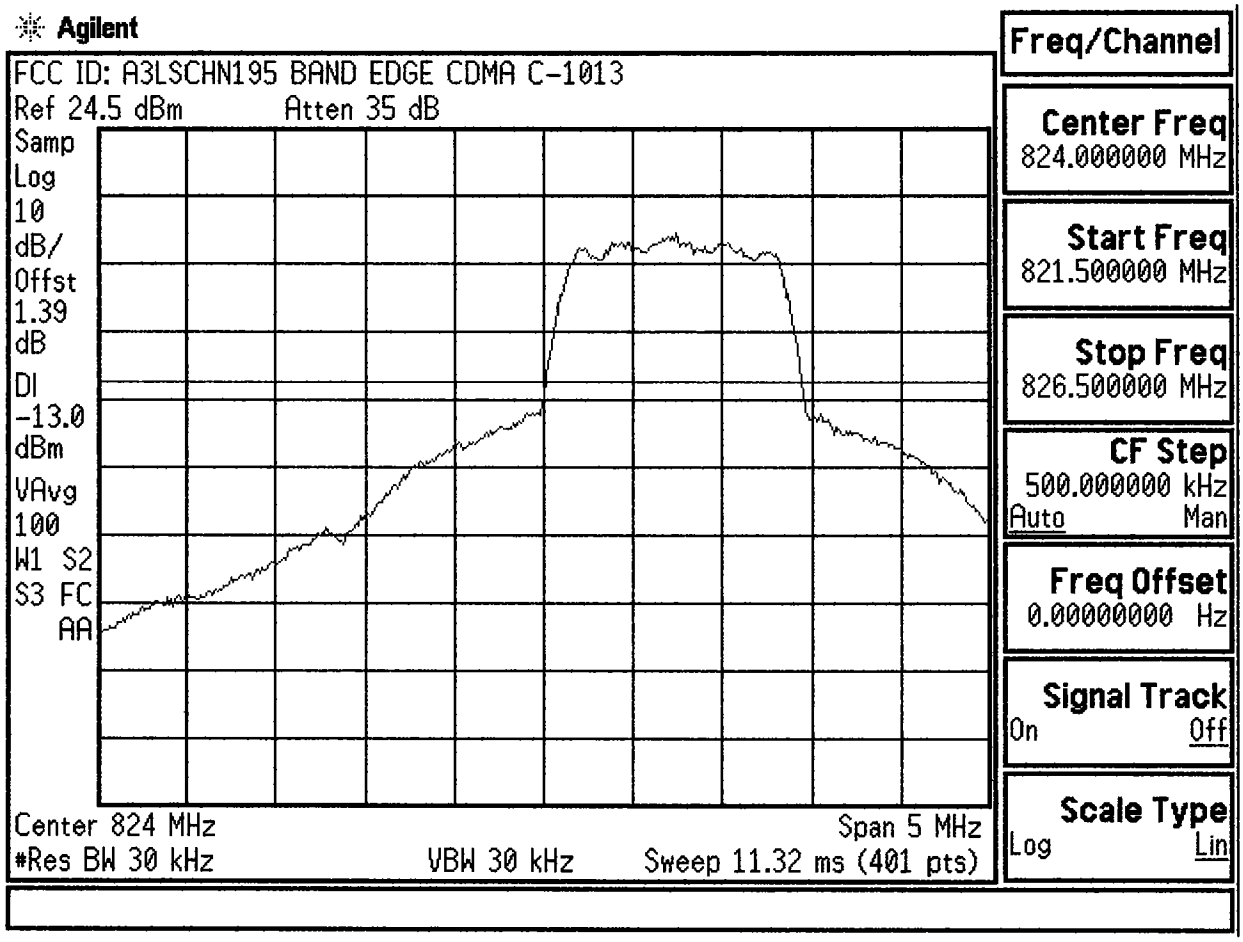

Agilent
FCC ID: A3LSCHN195 CON SPURS CDMA C-777
Mkr1 9.94 GHz
Ref 24.5 dBm
Atten 35 dB
-35.3 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 pts)
Freq/Channel
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Scale Type
Log Lin

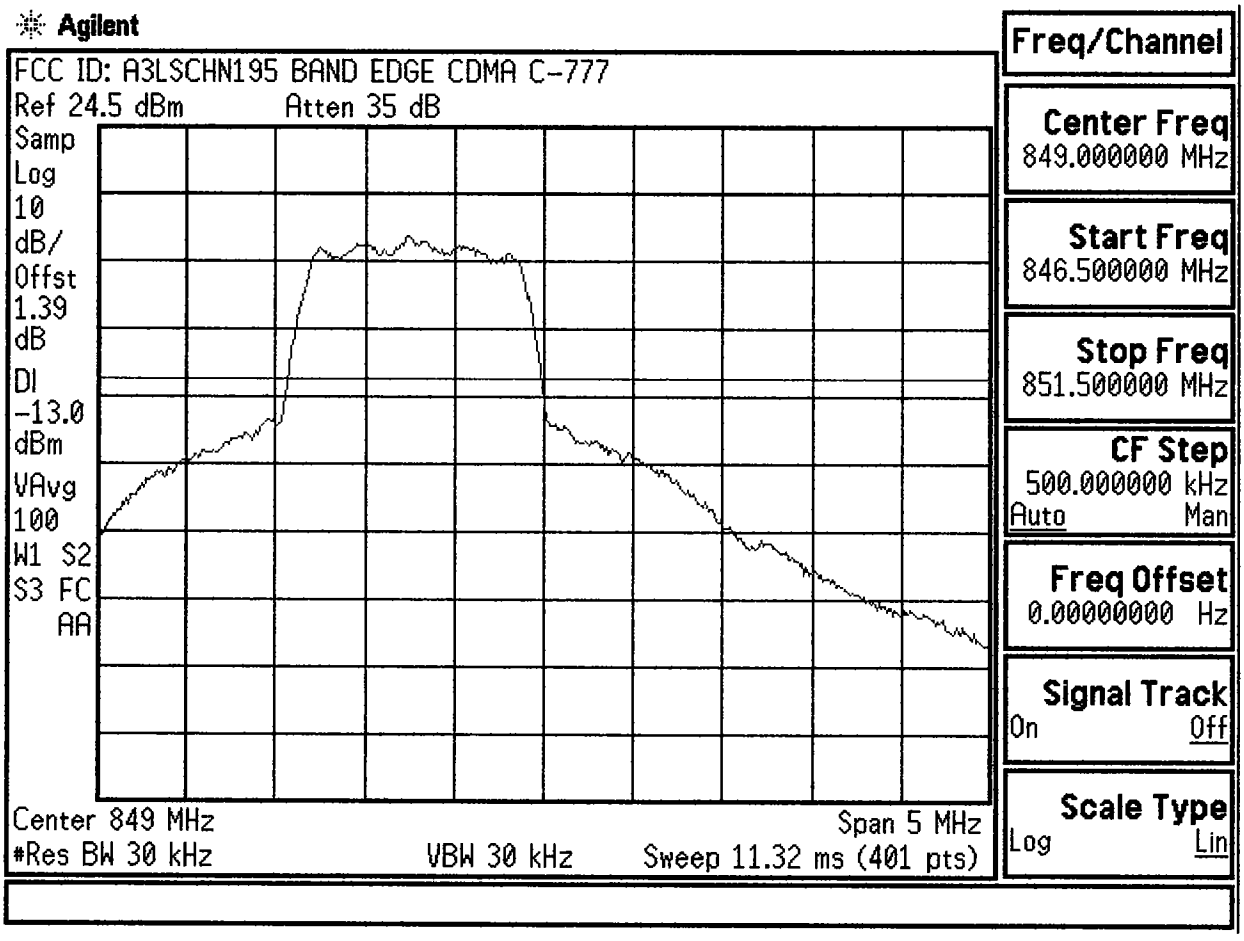

Agilent
FCC ID: A3LSCHN195 CON SPURS CDMA C-363
Mkr1 2.413 GHz
Ref 24.5 dBm
Atten 35 dB
-36.23 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
1
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 4.15 ms (401 pts)
Freq/Channel
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

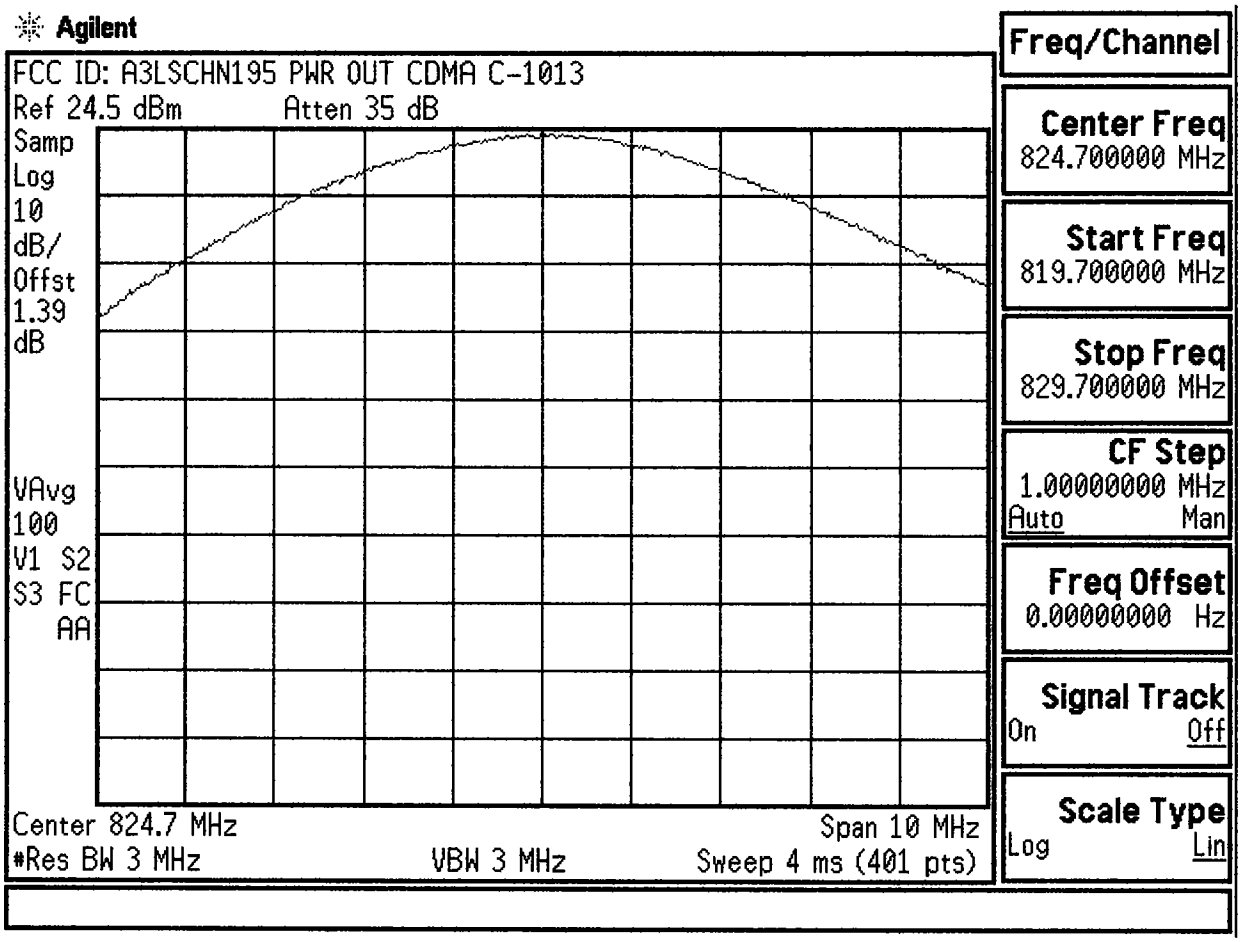

Agilent
FCC ID: A3LSCHN195 CON SPURS CDMA C-363
Mkr1 7.43 GHz
Ref 24.5 dBm
Atten 35 dB
-35.19 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
1
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 pts)
Freq/Channel
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

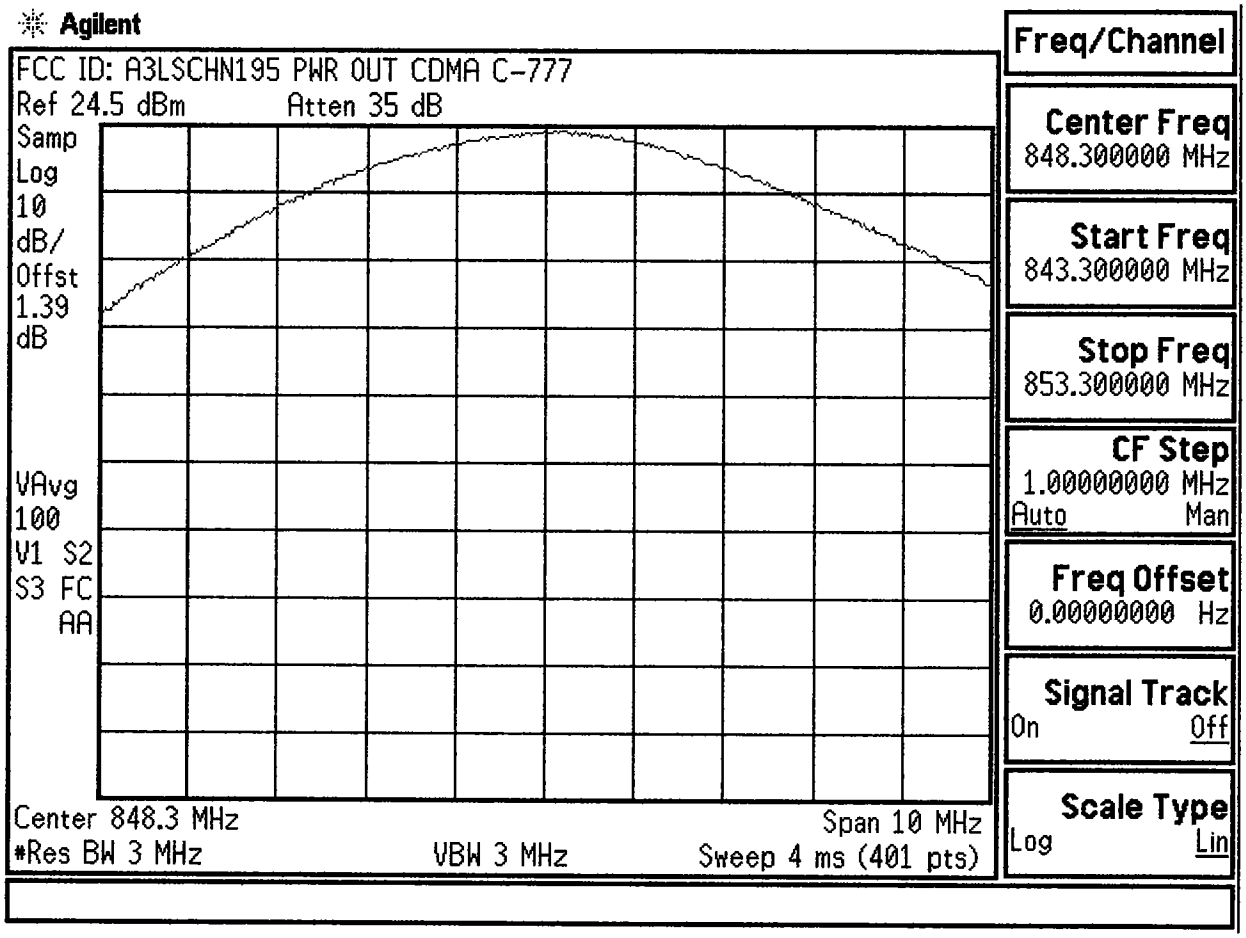

Agilent
FCC ID: A3LSCHN195 CON SPURS CDMA C-1013
Mkr1 1.784 GHz
Ref 24.5 dBm
Atten 35 dB
-33.95 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
#Res BW 1 MHz
VBW 1 MHz
Stop 2.5 GHz
Sweep 4.15 ms (401 pts)
Freq/Channel
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Scale Type
Log Lin

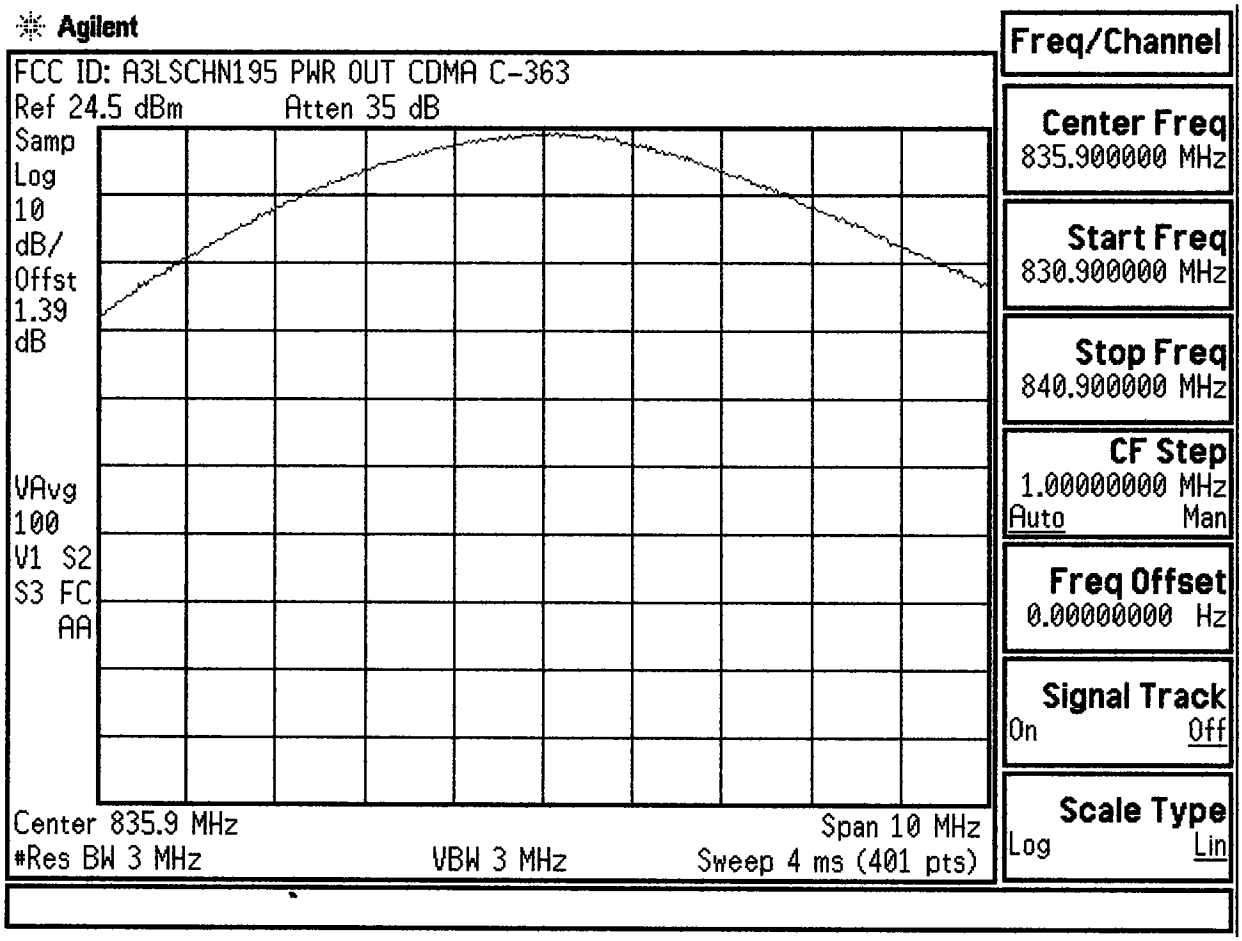

Agilent
FCC ID: A3LSCHN195 CON SPURS CDMA C-1013
Mkr1 7.43 GHz
Ref 24.5 dBm
Atten 35 dB
-35.35 dBm
Peak
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Stop 10 GHz
Sweep 18.75 ms (401 pts)
Freq/Channel
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Scale Type
Log Lin

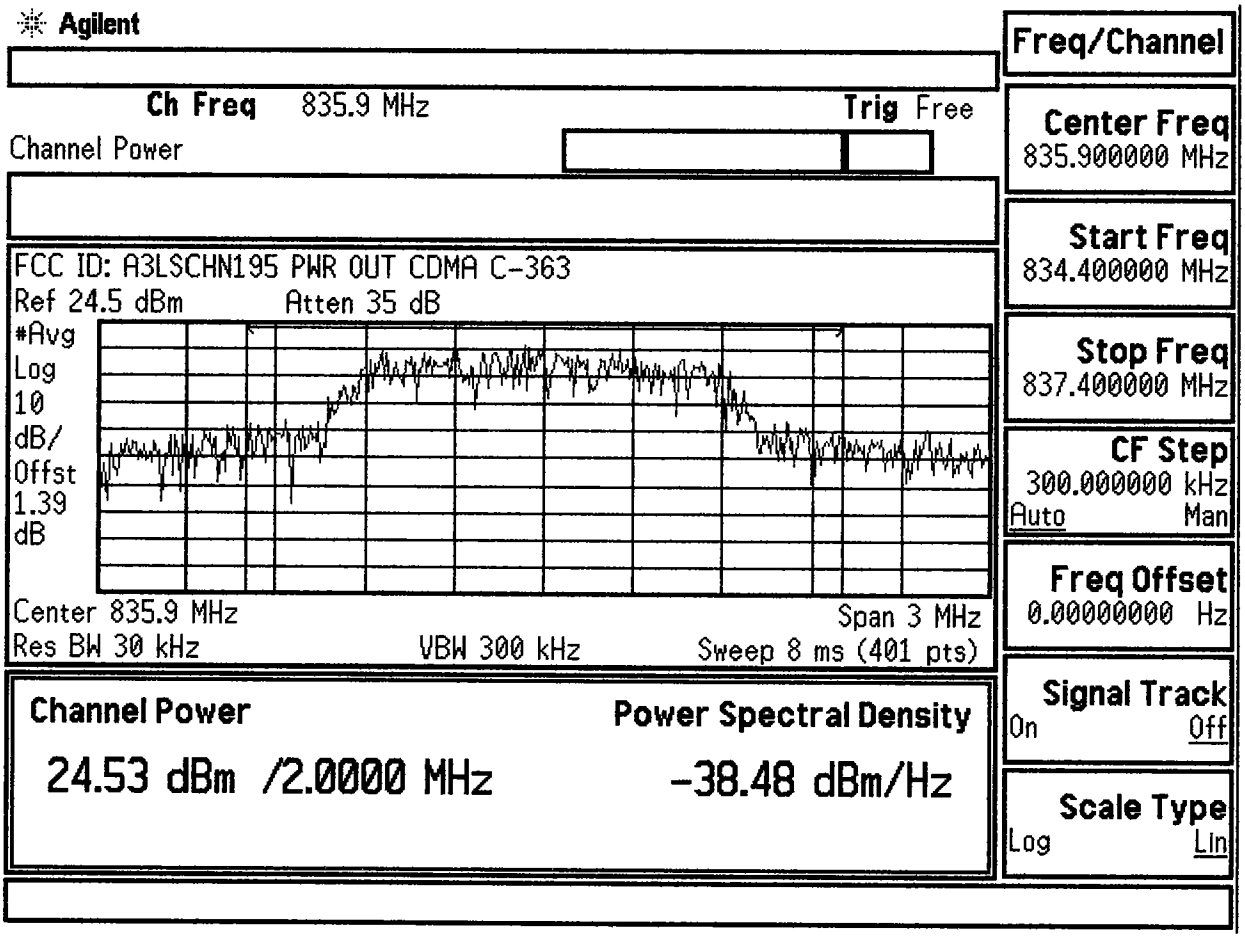

Agilent
FCC ID: A3LSCHN195 BAND EDGE CDMA C-1013
Ref 24.5 dBm
Atten 35 dB
Samp
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
VAvg
100
W1 S2
S3 FC
AA
Center 824 MHz
#Res BW 30 kHz
VBW 30 kHz
Span 5 MHz
Sweep 11.32 ms (401 pts)
Freq/Channel
Center Freq
824.000000 MHz
Start Freq
821.500000 MHz
Stop Freq
826.500000 MHz
CF Step
500.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin


Agilent
FCC ID: A3LSCHN195 BAND EDGE CDMA C-777
Ref 24.5 dBm
Atten 35 dB
Samp
Log
10
dB/
Offst
1.39
dB
Dl
-13.0
dBm
VAvg
100
W1 S2
S3 FC
AA
Center 849 MHz
#Res BW 30 kHz
VBW 30 kHz
Span 5 MHz
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: A3LSCHN195 PWR OUT CDMA C-1013
Ref 24.5 dBm
Atten 35 dB
Samp
Log
10
dB/
Offst
1.39
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: A3LSCHN195 PWR OUT CDMA C-777
Ref 24.5 dBm
Atten 35 dB
Samp
Log
10
dB/
Offst
1.39
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: A3LSCHN195 PWR OUT CDMA C-363
Ref 24.5 dBm
Atten 35 dB
Samp
Log
10
dB/
Offst
1.39
dB
VAvg
100
V1 S2
S3 FC
AA
Center 835.9 MHz
Span 10 MHz
#Res BW 3 MHz
VBW 3 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
1.000000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

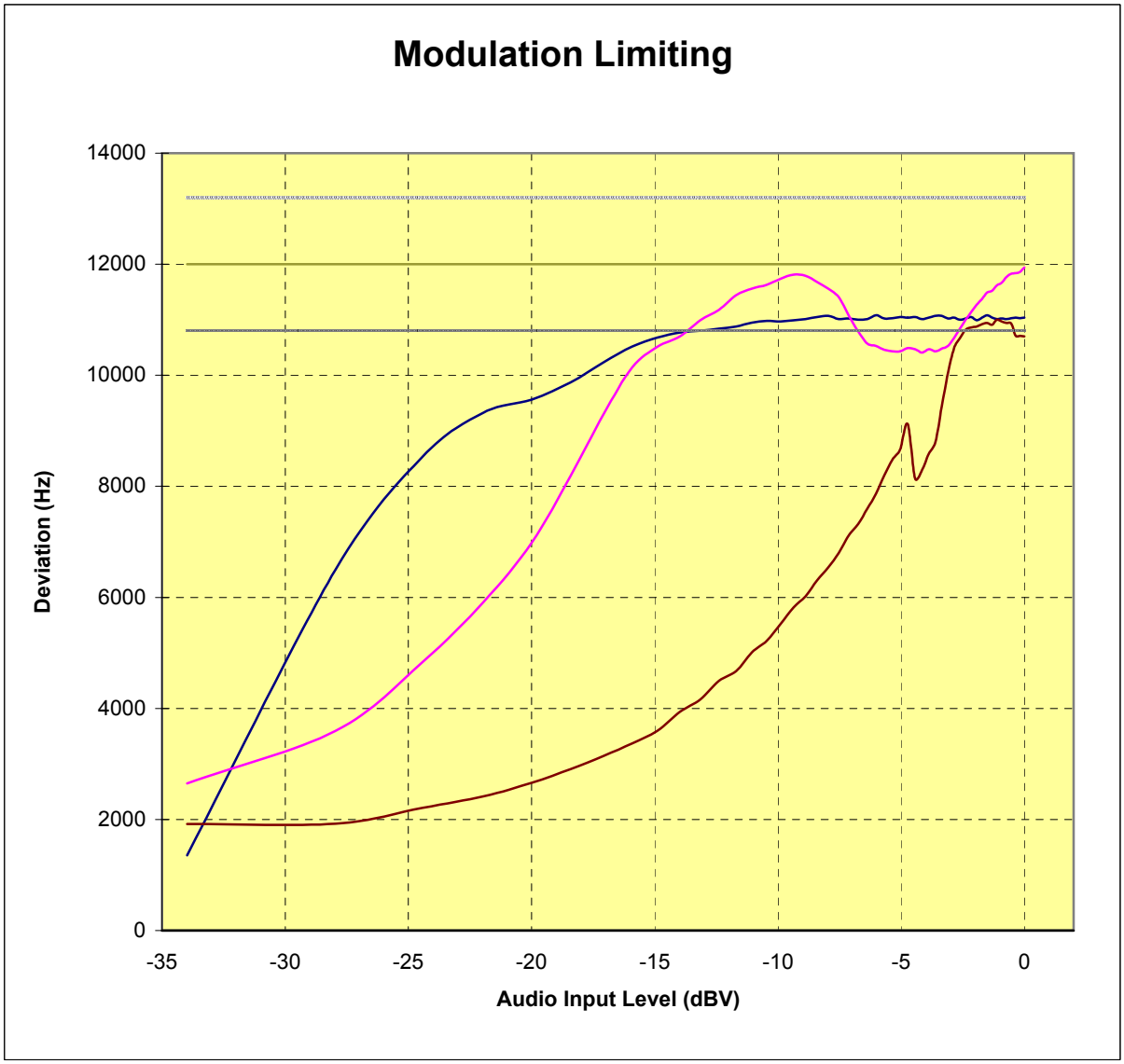

Agilent
Ch Freq 835.9 MHz
Trig Free
Channel Power
FCC ID: A3LSCHN195 PWR OUT CDMA C-363
Ref 24.5 dBm
Atten 35 dB
#Avg
Log
10
dB/
Offst
1.39
dB
Center 835.9 MHz
Span 3 MHz
Res BW 30 kHz
VBW 300 kHz
Sweep 8 ms (401 pts)
Channel Power
24.53 dBm /2.0000 MHz
Power Spectral Density
-38.48 dBm/Hz
Freq/Channel
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

SUBJECT: Modulation Characteristics
FCC Part 22

Test Report No.: 22.220919524.A3L
Test Date: 09.27.2002

EUT: SAMSUNG Dual-Mode Cellular Phone (AMPS/CDMA)
Model: *SCH-N195*
FCC ID: **A3LSCHN195**

REFERENCE: 1 kHz = 0 dB



SUBJECT: Modulation Characteristics
FCC Part 22

Test Report No.: 22.220919524.A3L
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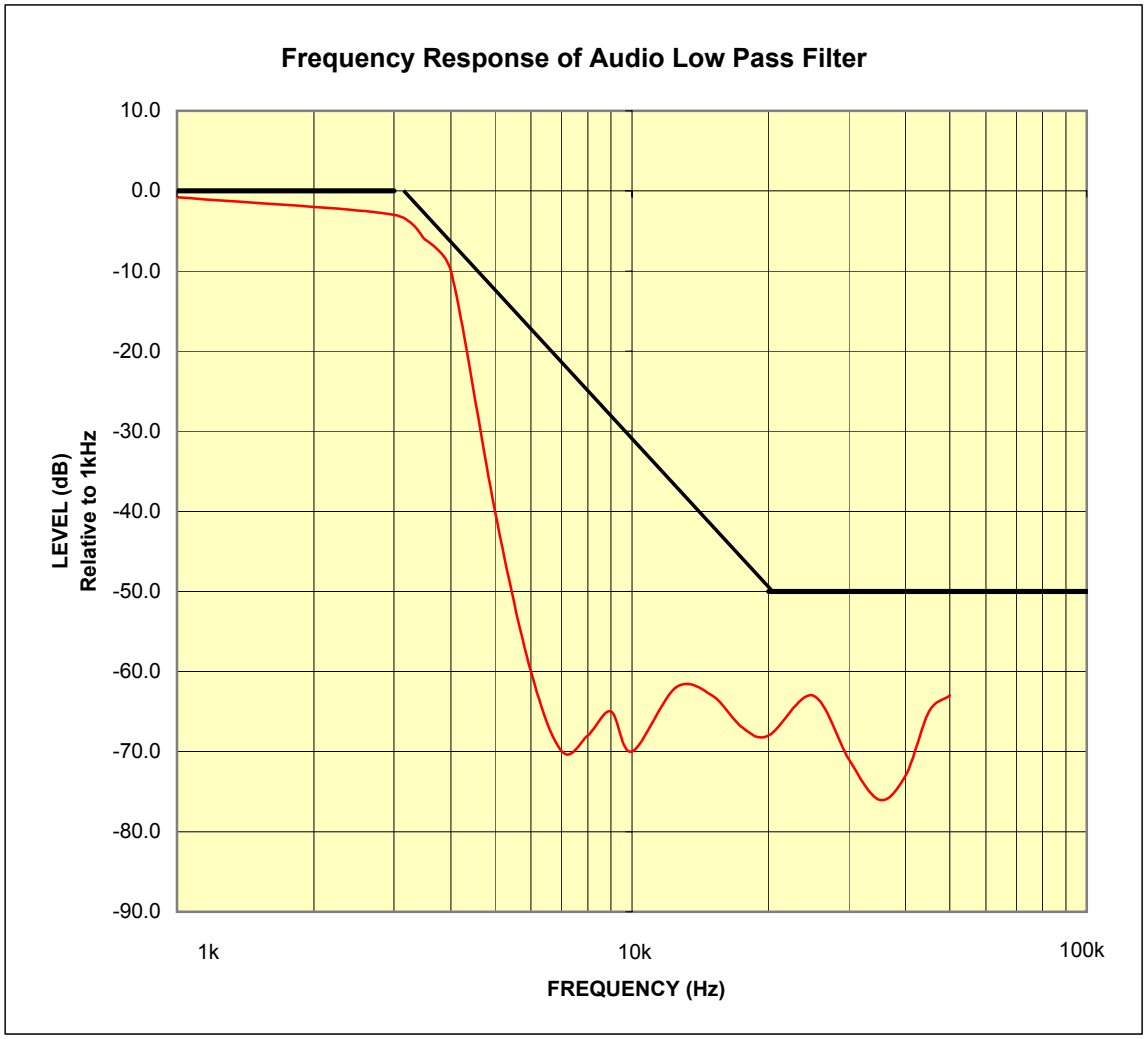

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FCC Part 22

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