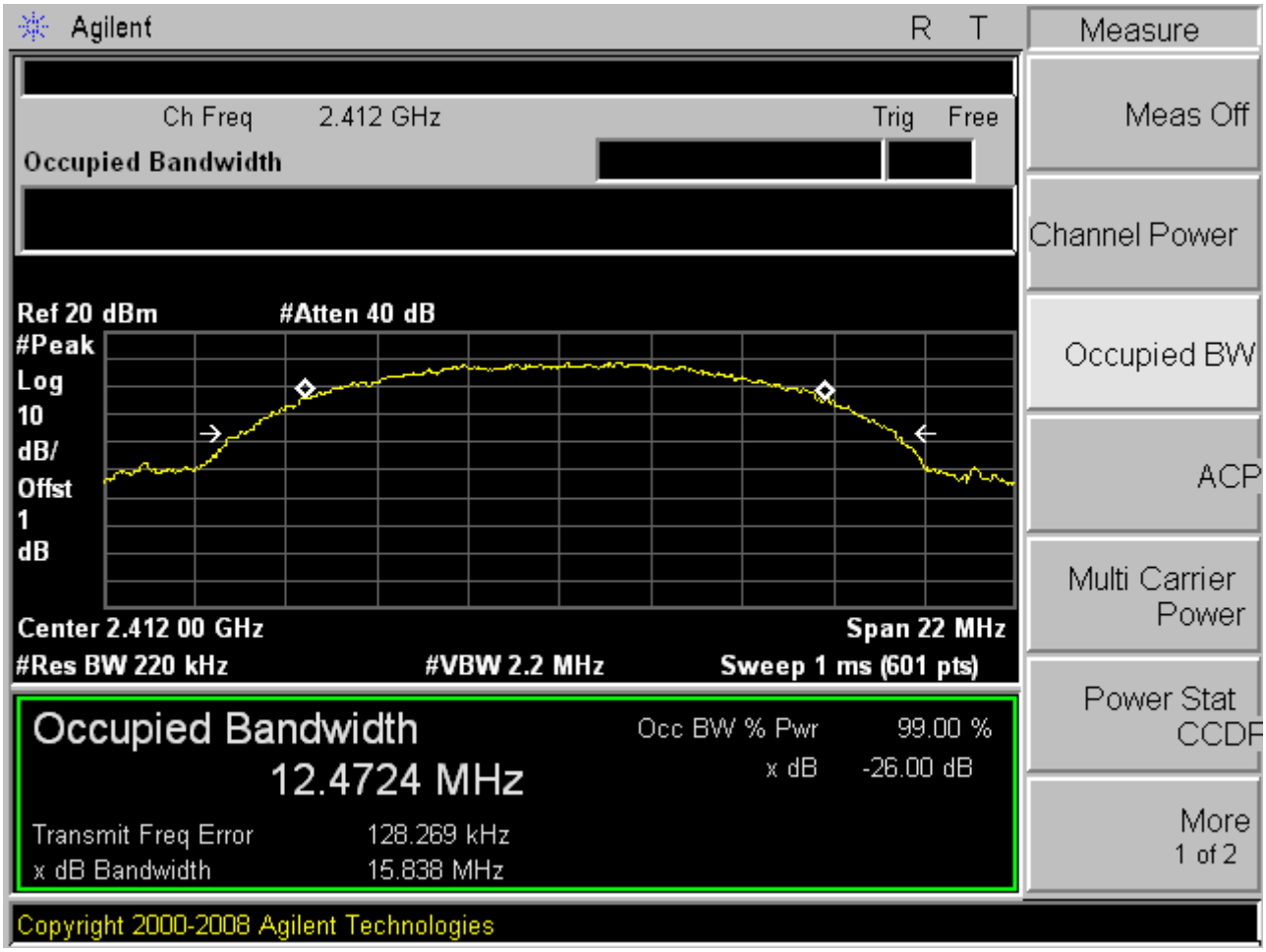
Appendix A

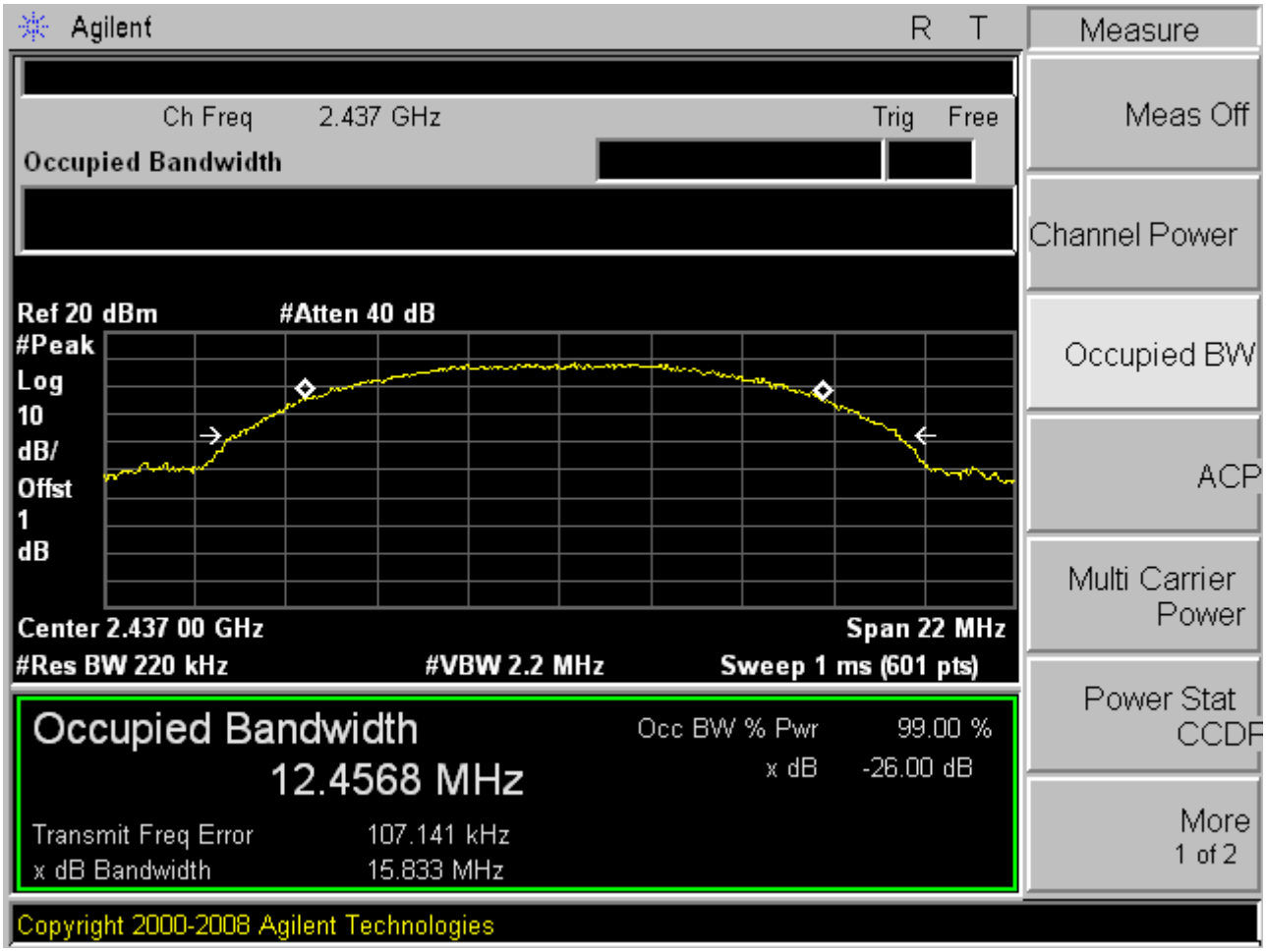
6dB bandwidth measurement

According to FCC Part 15.247 (a) (2)

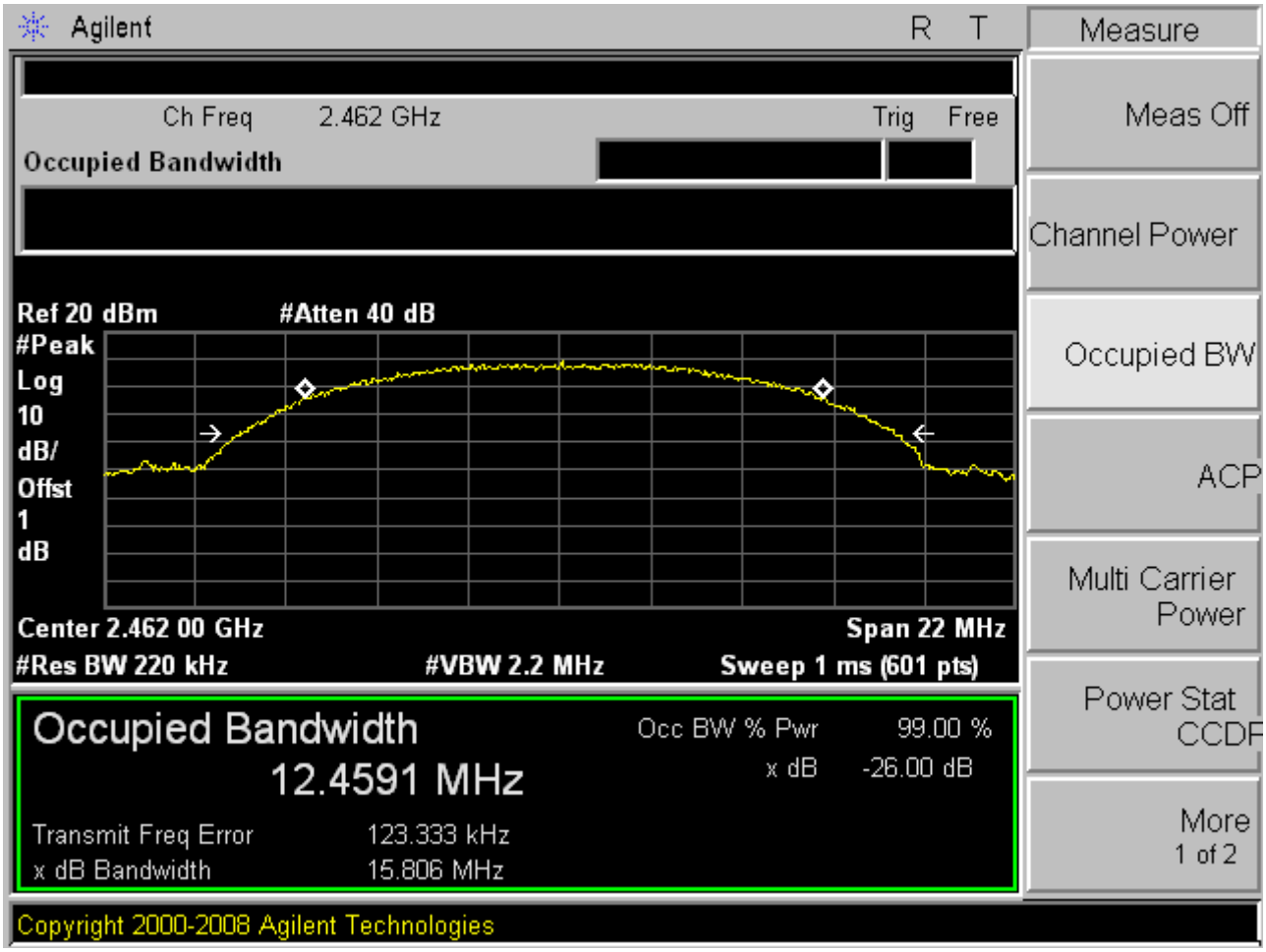
TM1
Channel 1 (2412MHz)



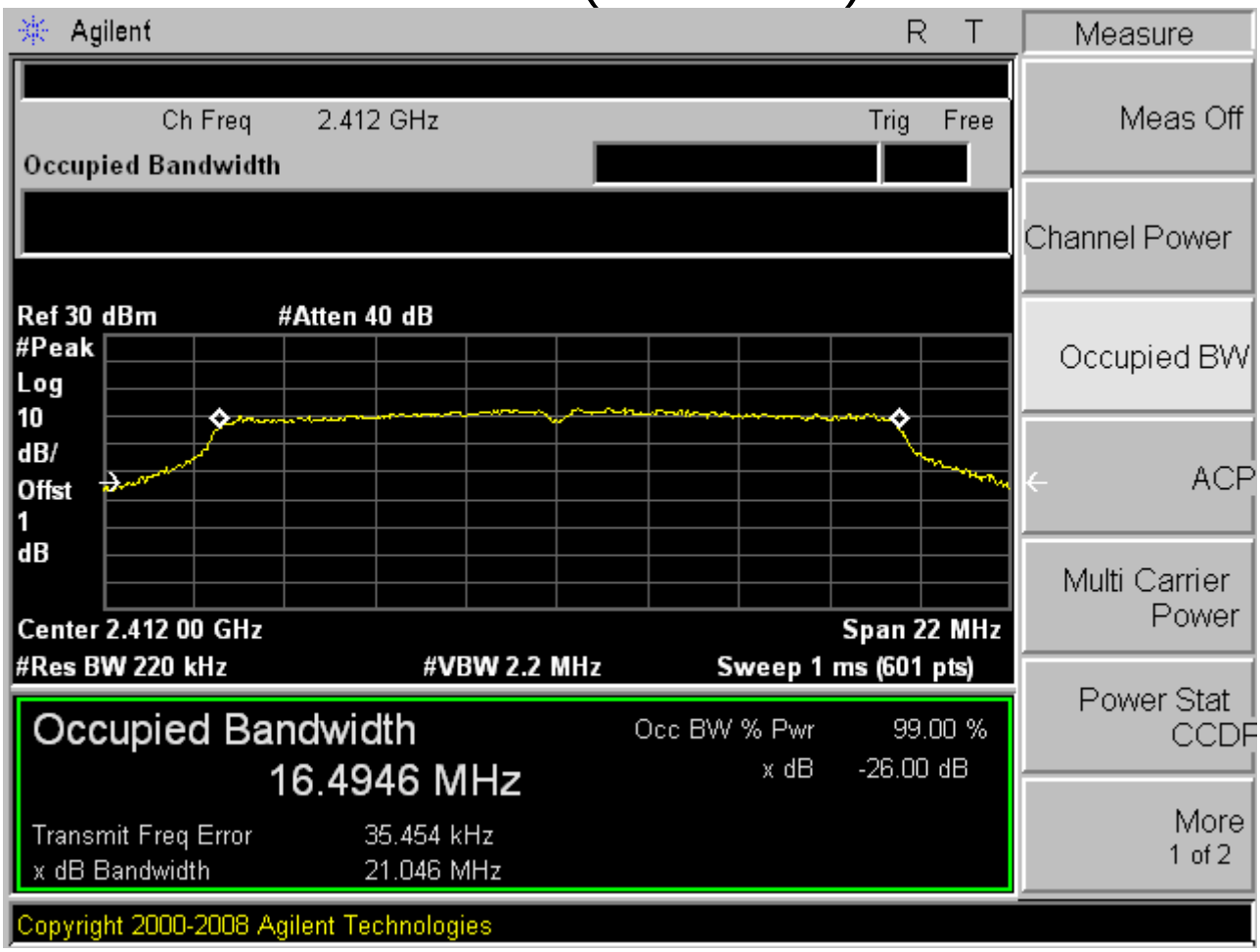
Channel 6 (2437MHz)



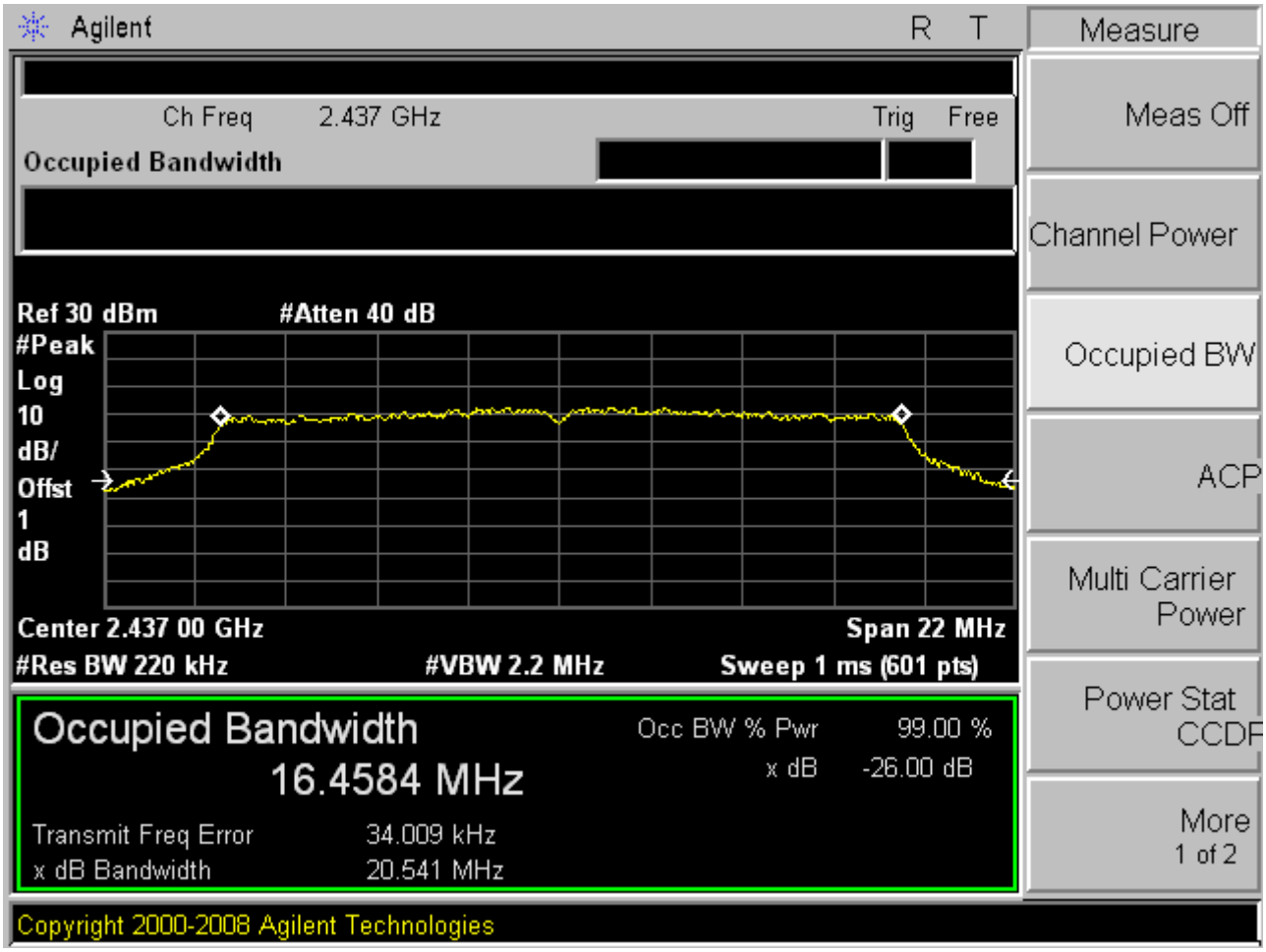
Channel 11 (2462MHz)



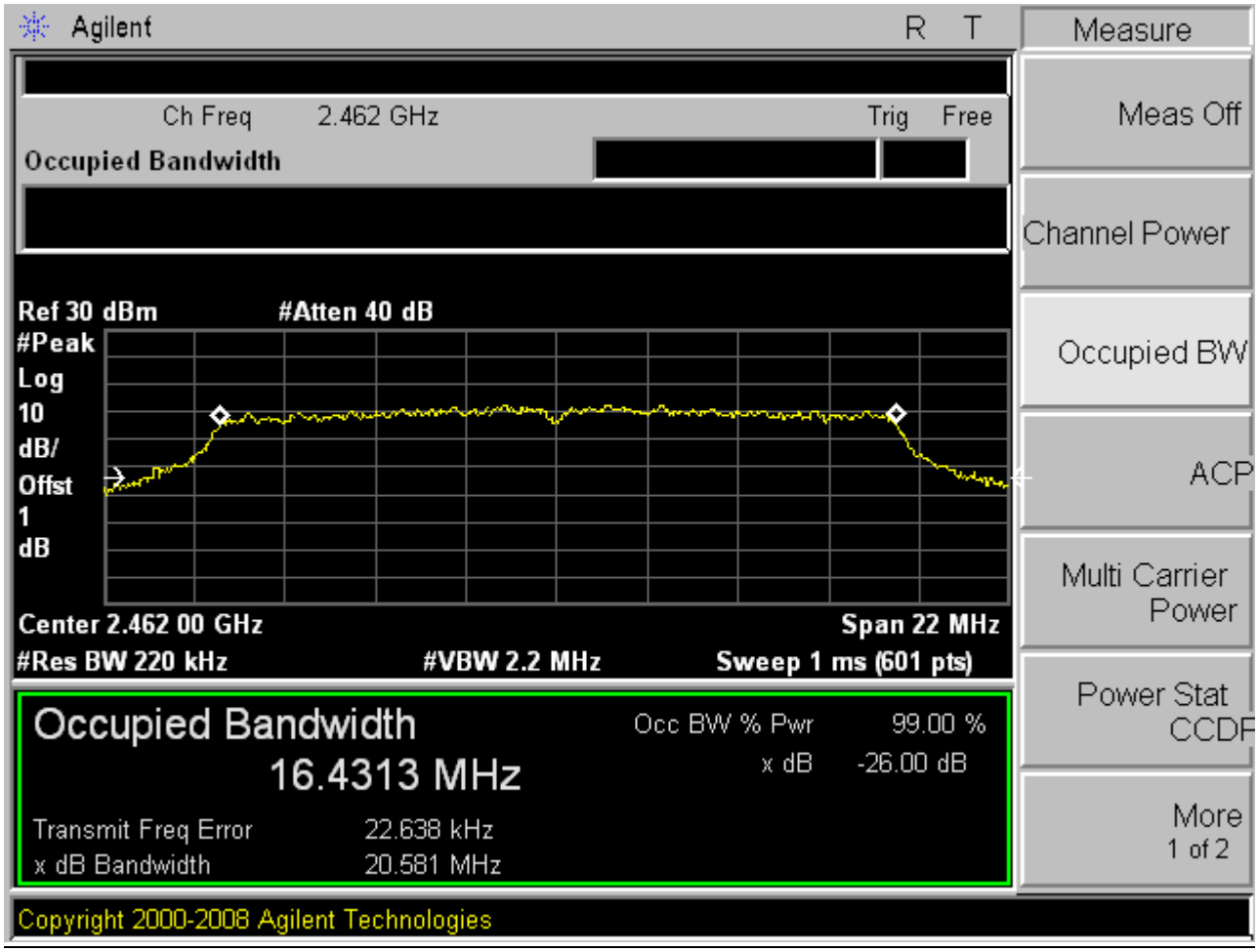
TM2
Channel 1 (2412MHz)



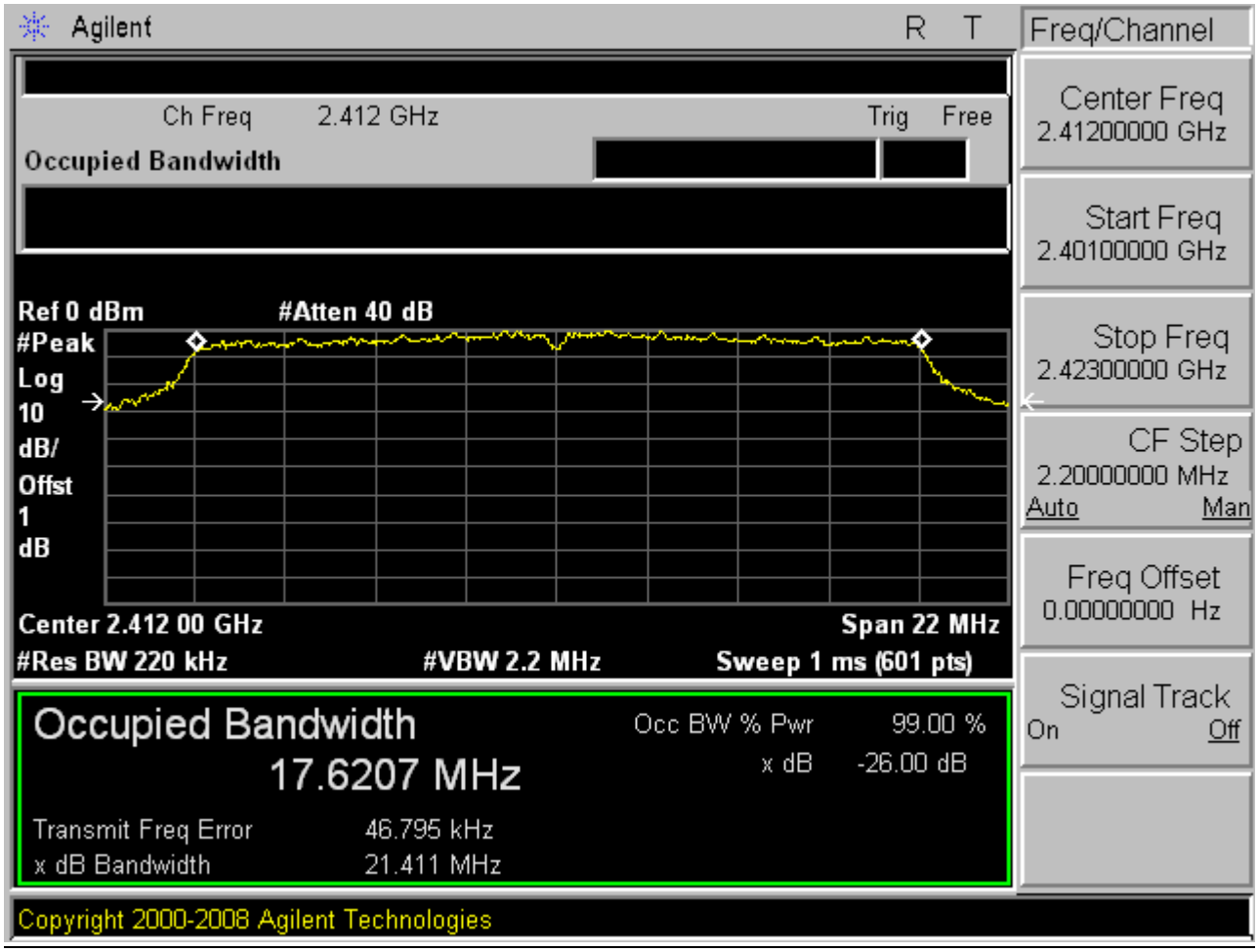
Channel 6 (2437MHz)



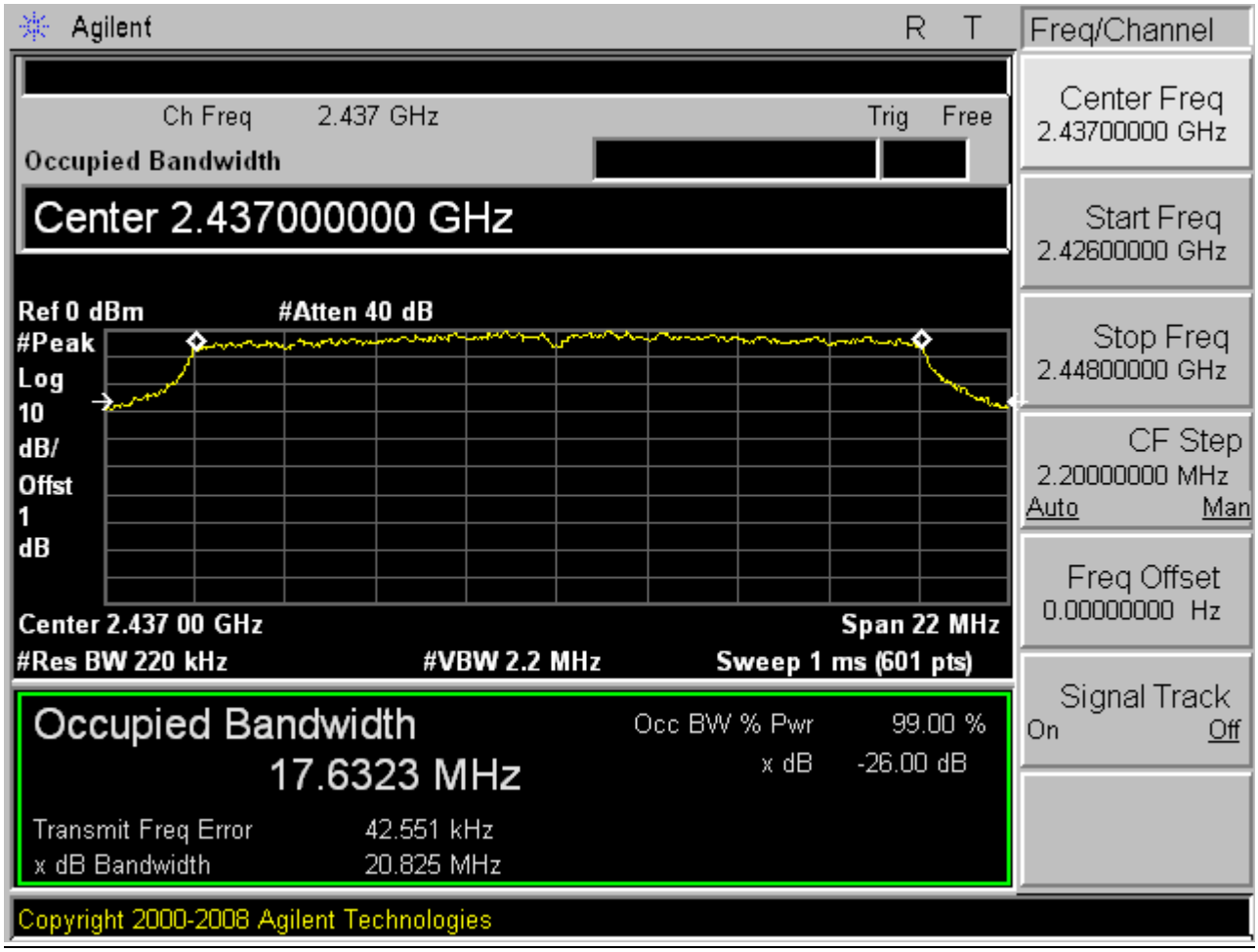
Channel 11 (2462MHz)



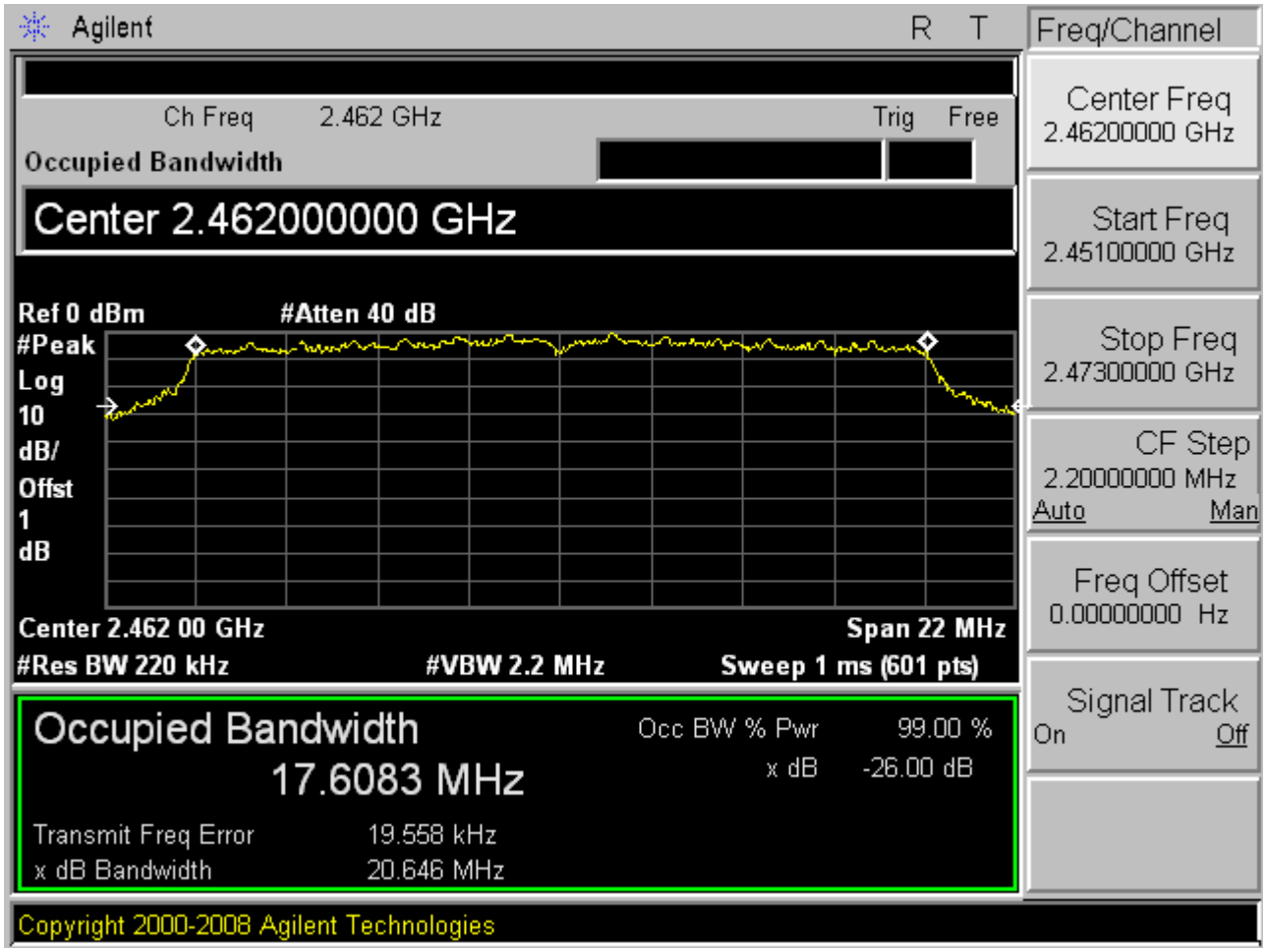
TM3
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

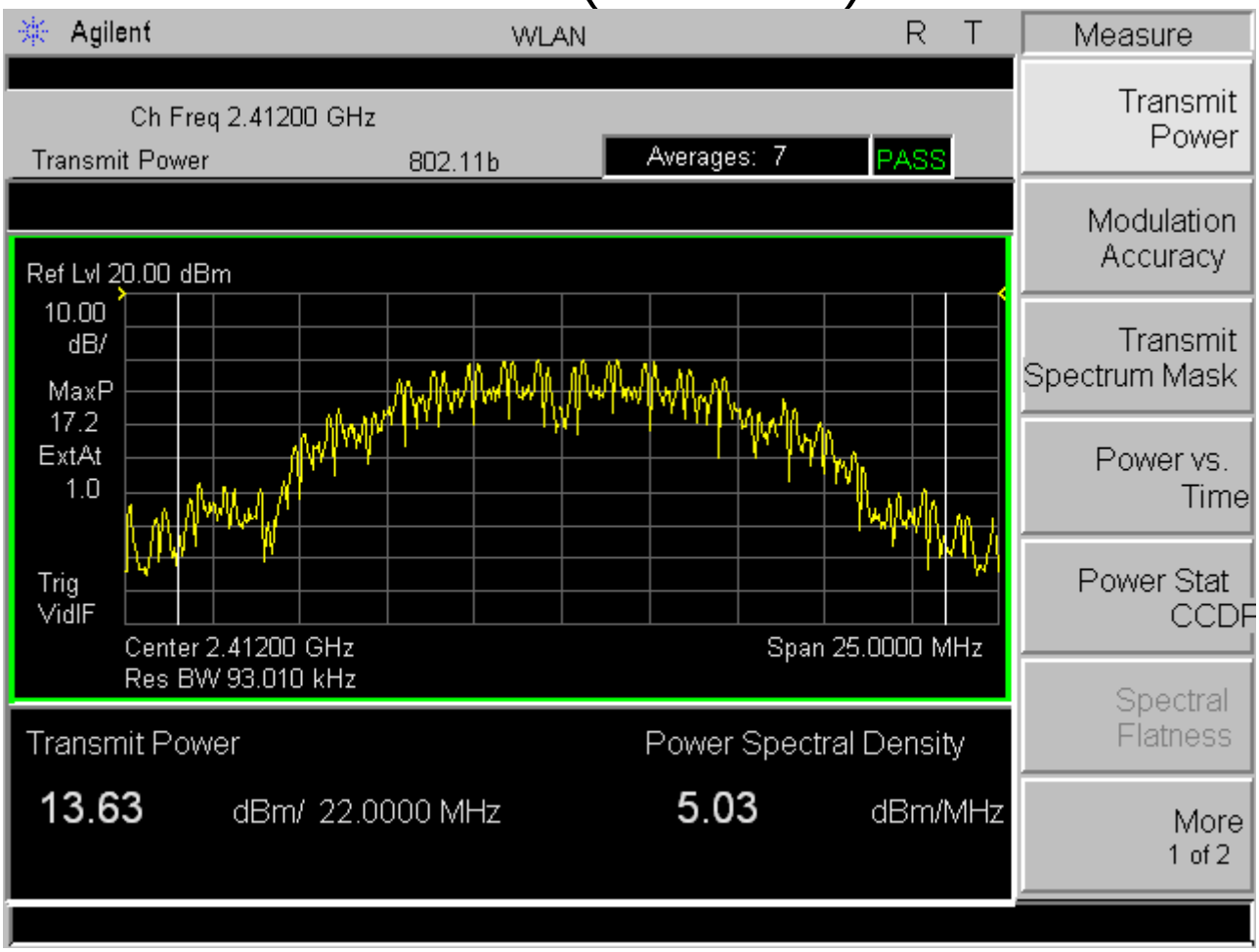


Appendix B

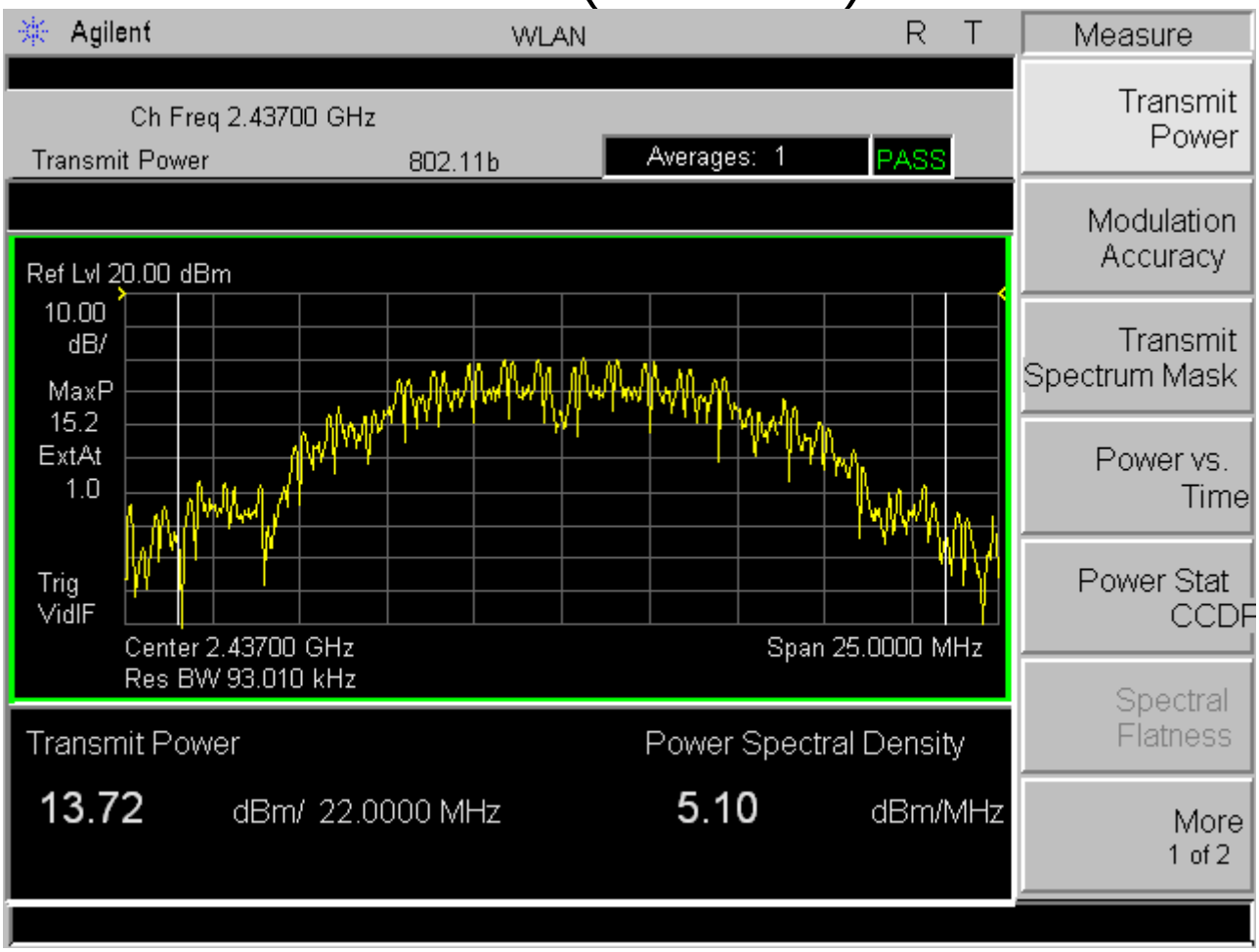
Conducted Peak output power

According to FCC Part 15.247 (b) (3)

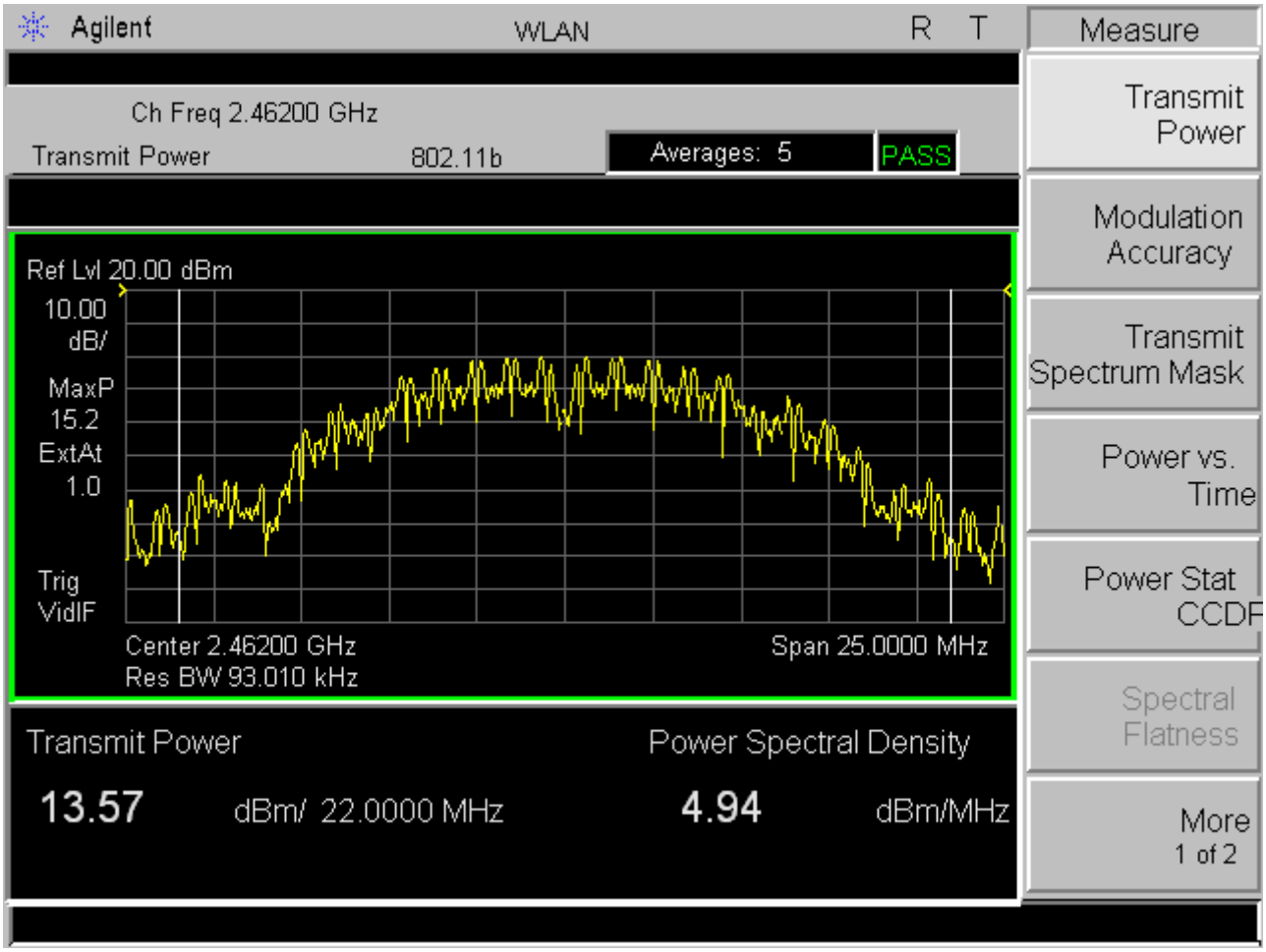
TM1
Channel 1 (2412MHz)



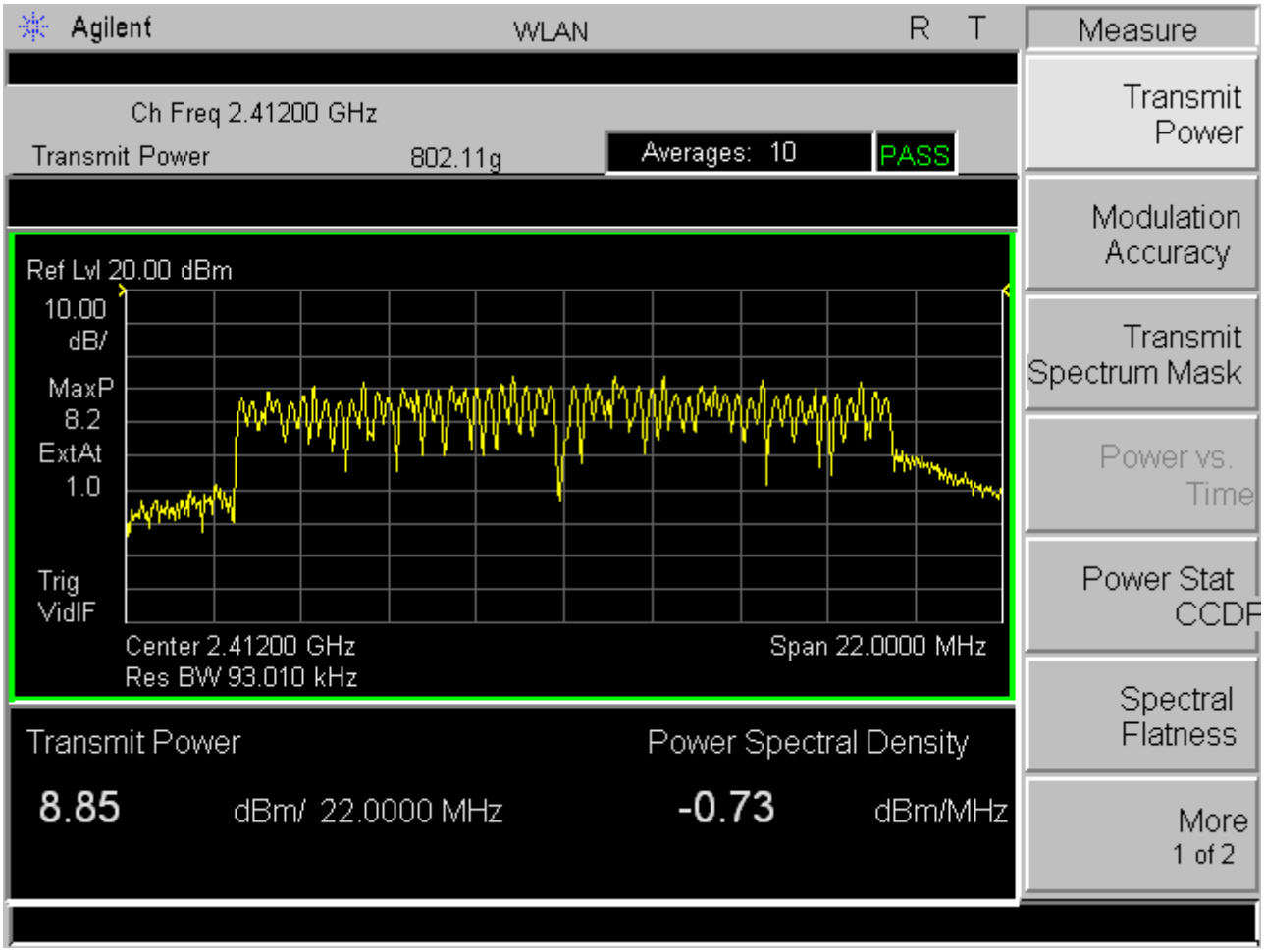
Channel 6 (2437MHz)



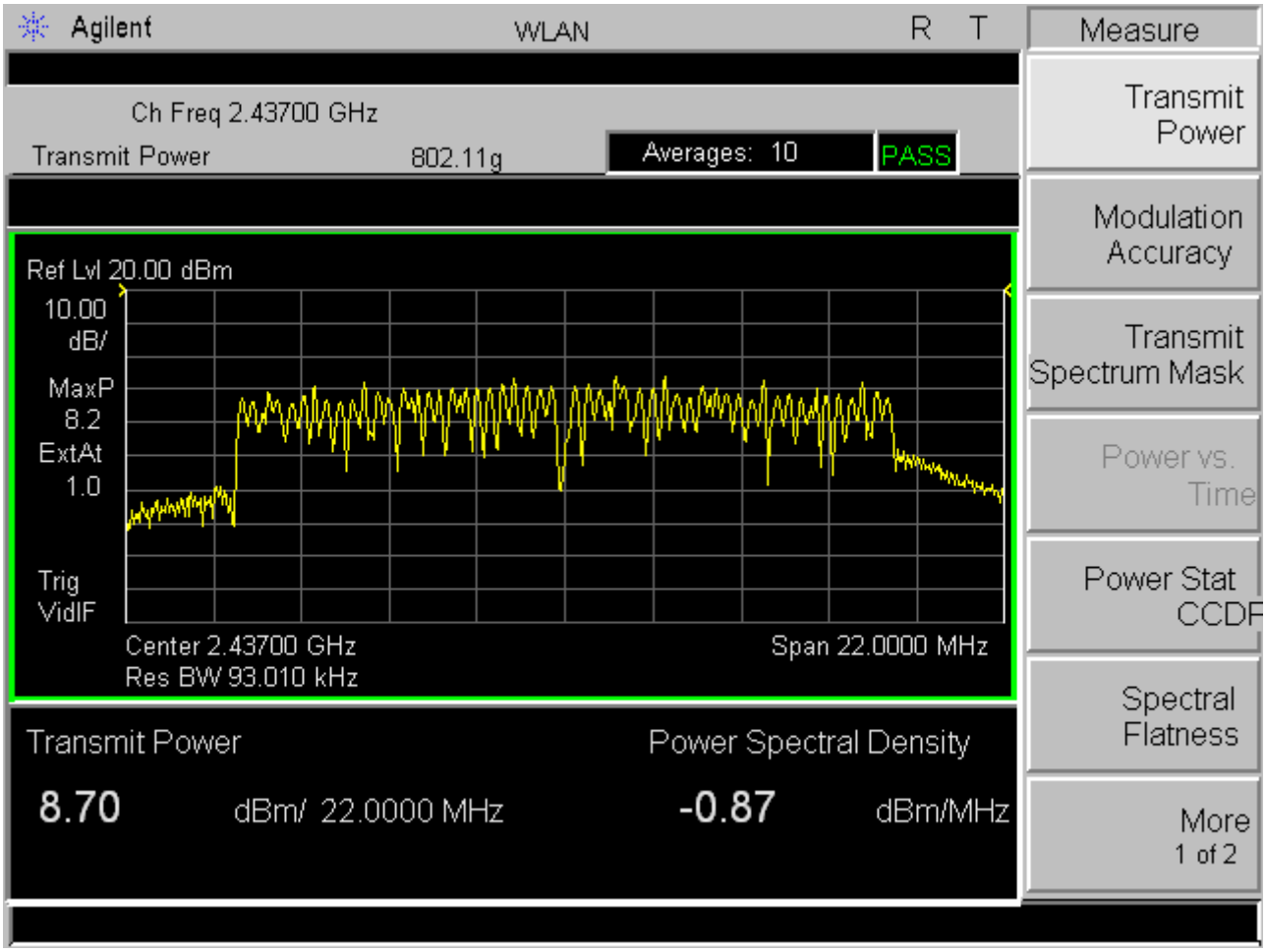
Channel 11 (2462MHz)



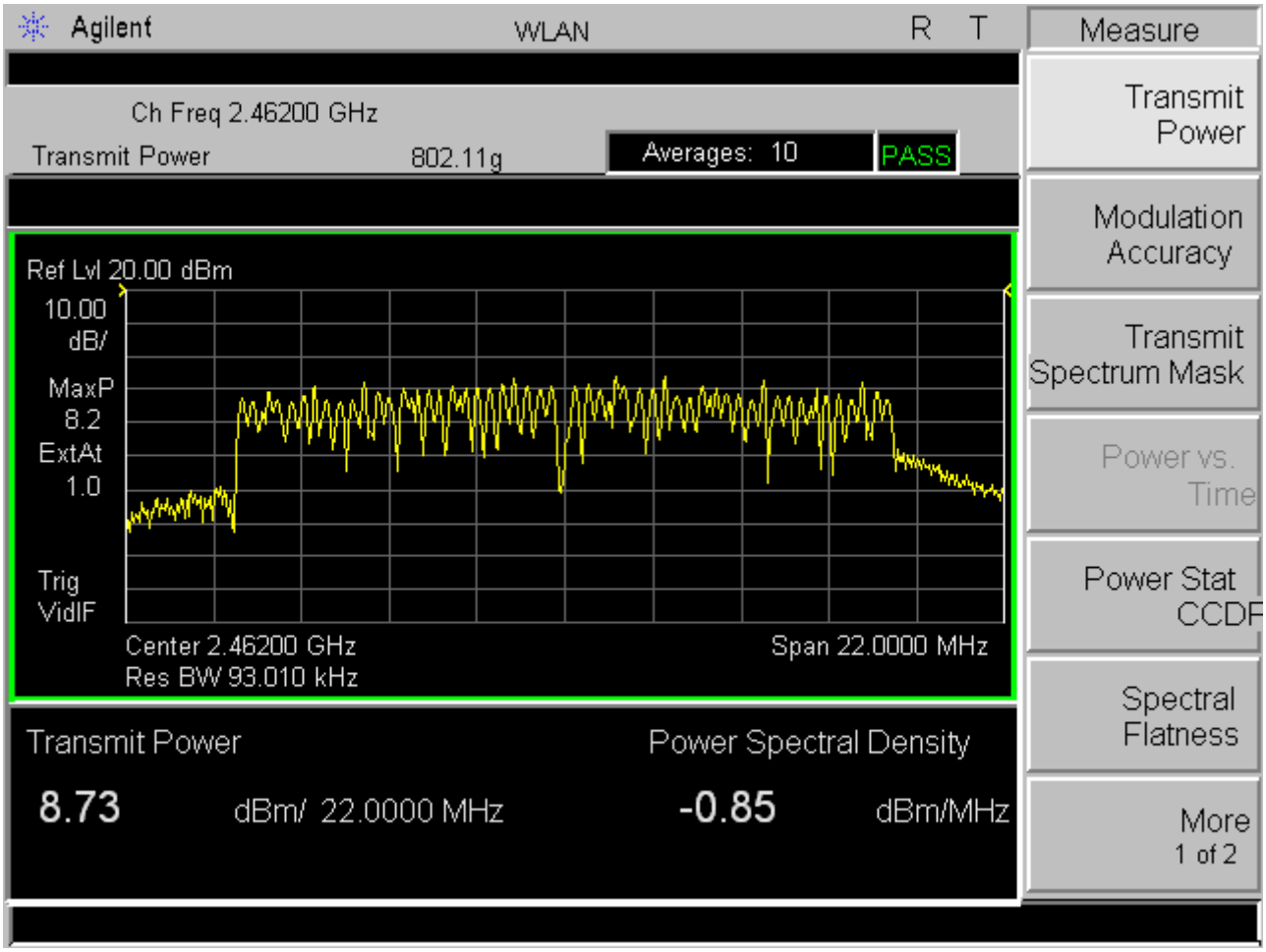
TM2
Channel 1 (2412MHz)



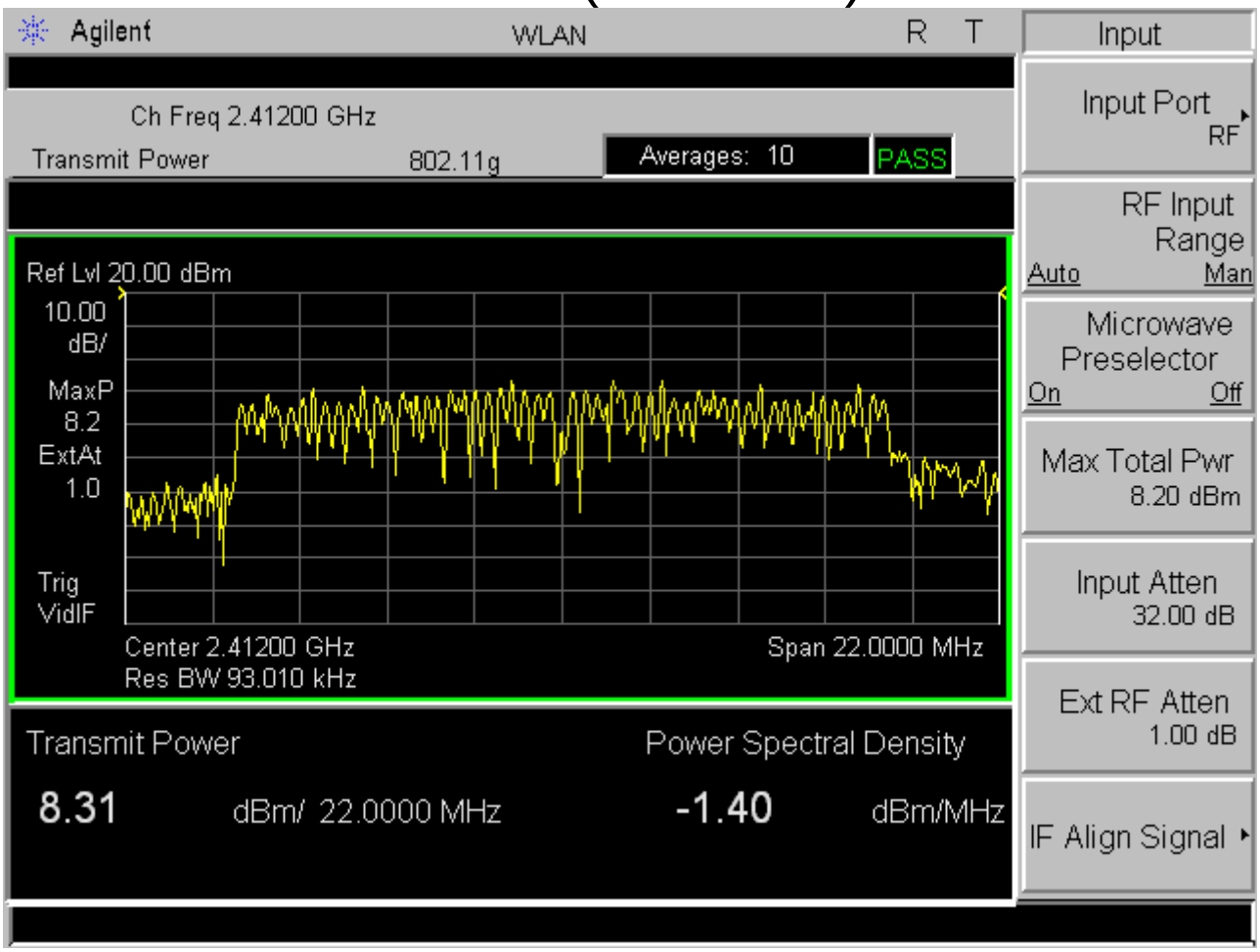
Channel 6 (2437MHz)



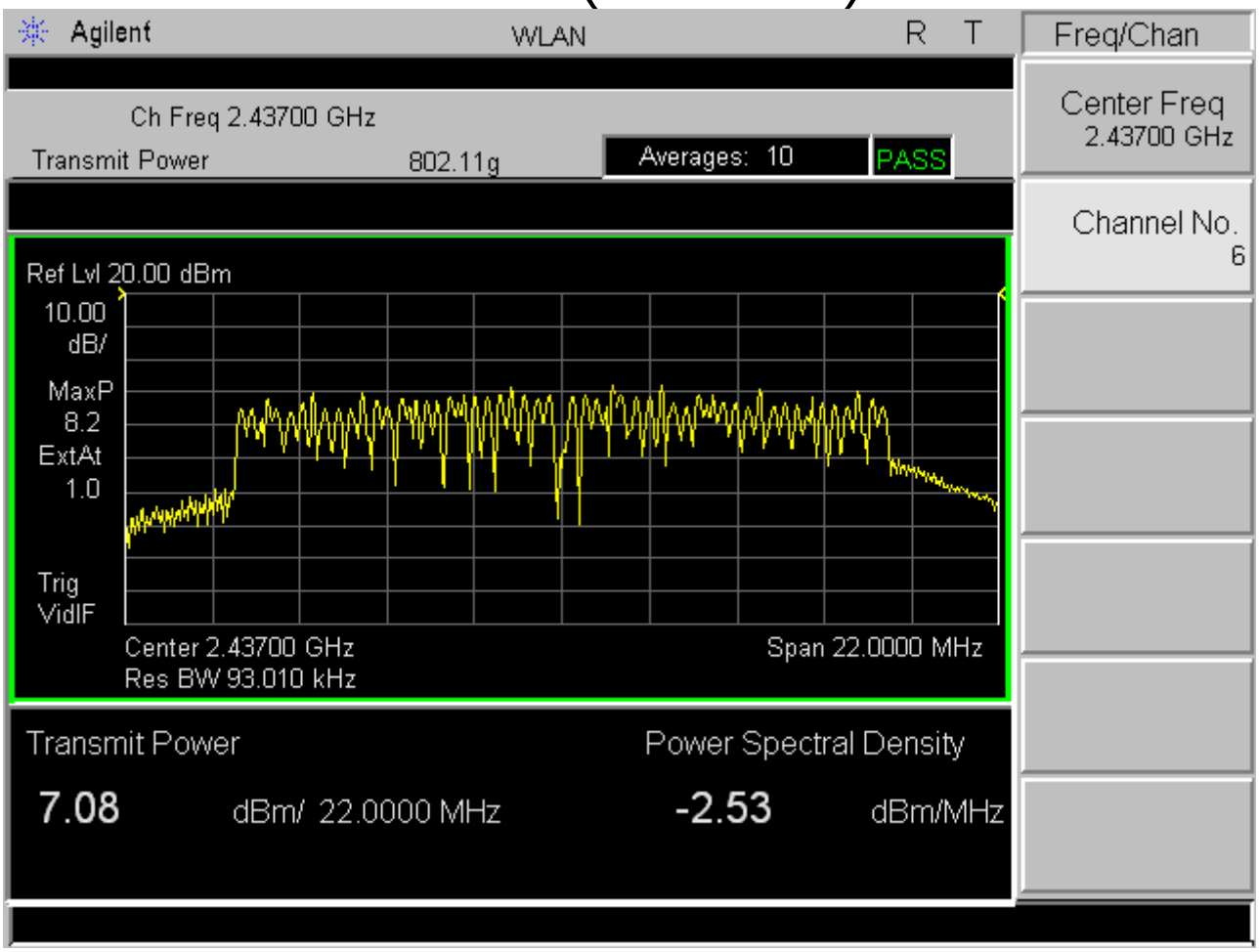
Channel 11 (2462MHz)



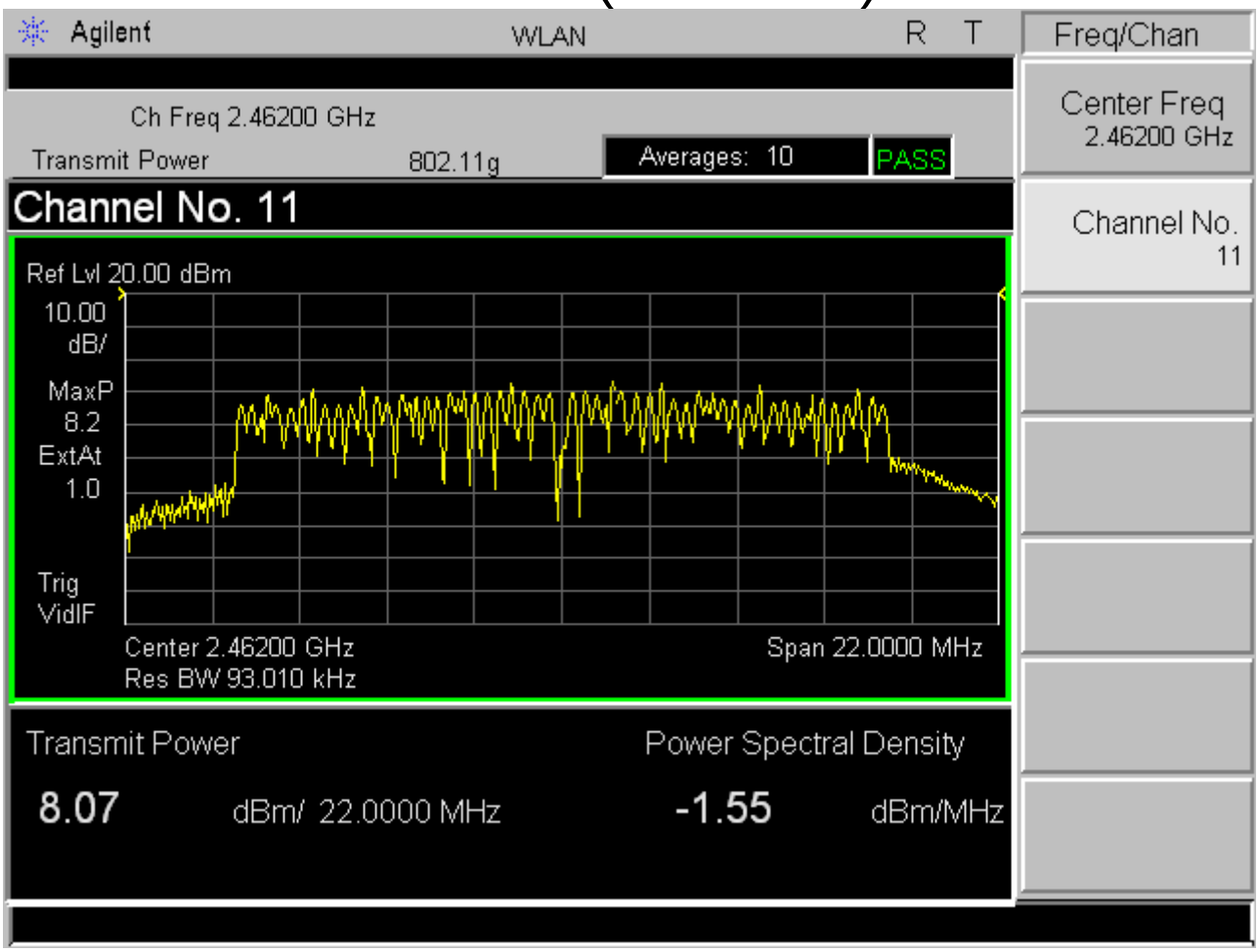
TM3
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

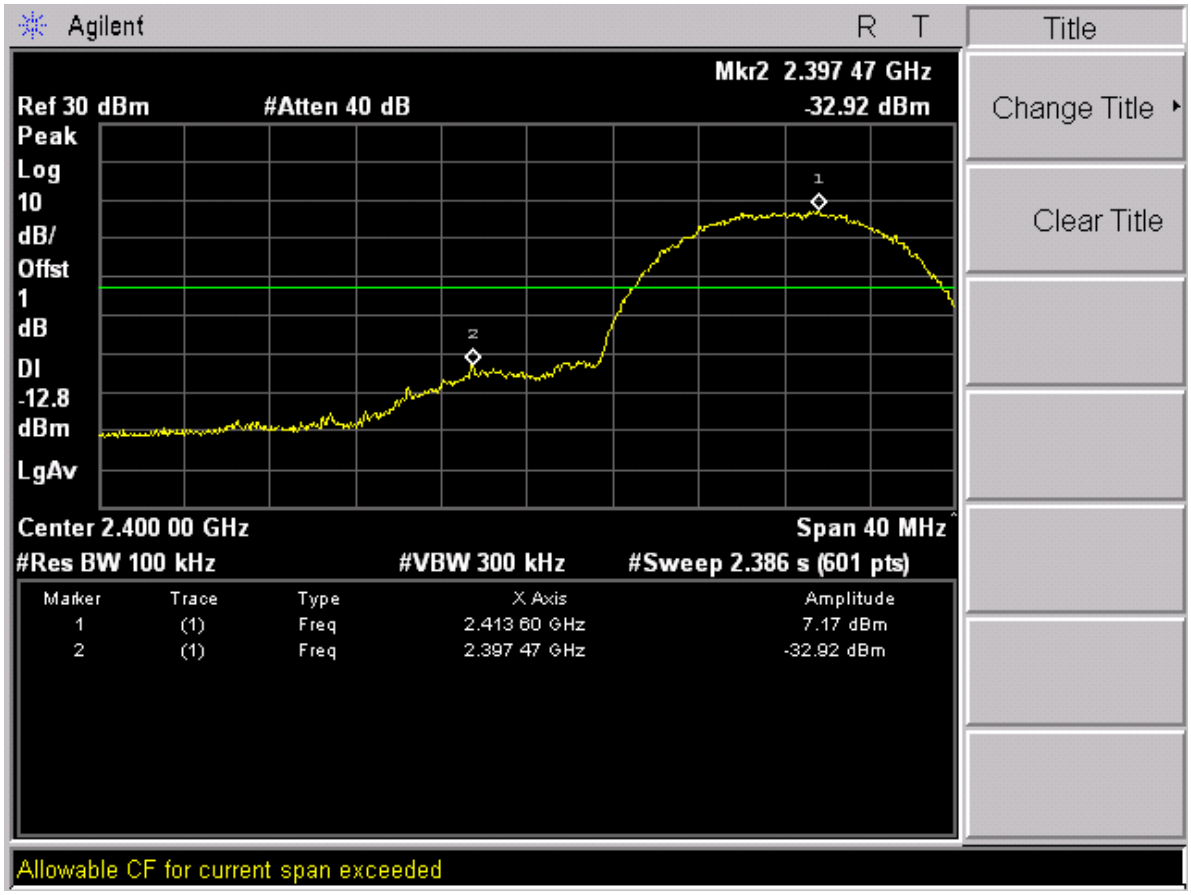


Appendix C

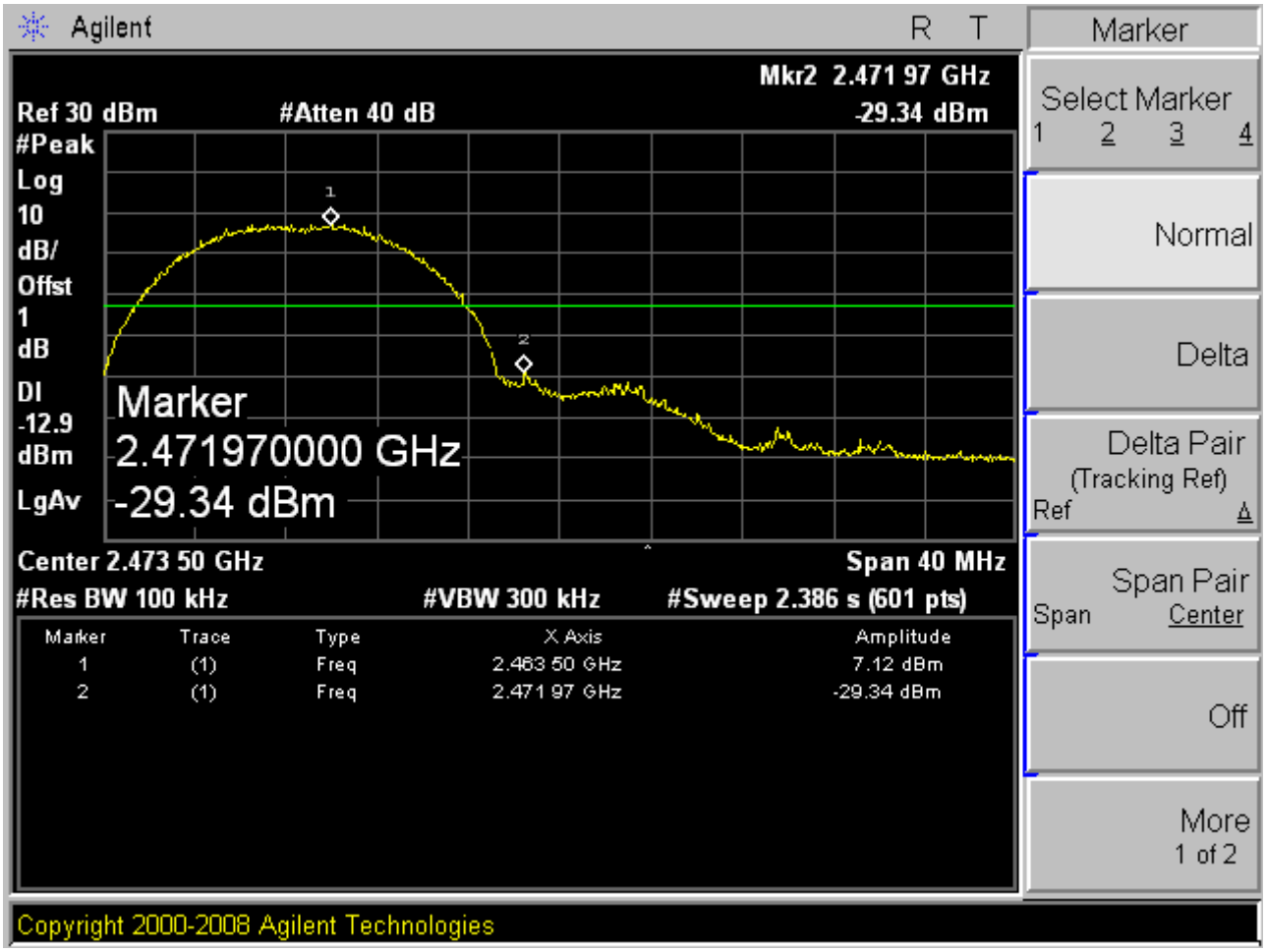
Band edge spurious emission

According to FCC Part 15.247 (d)

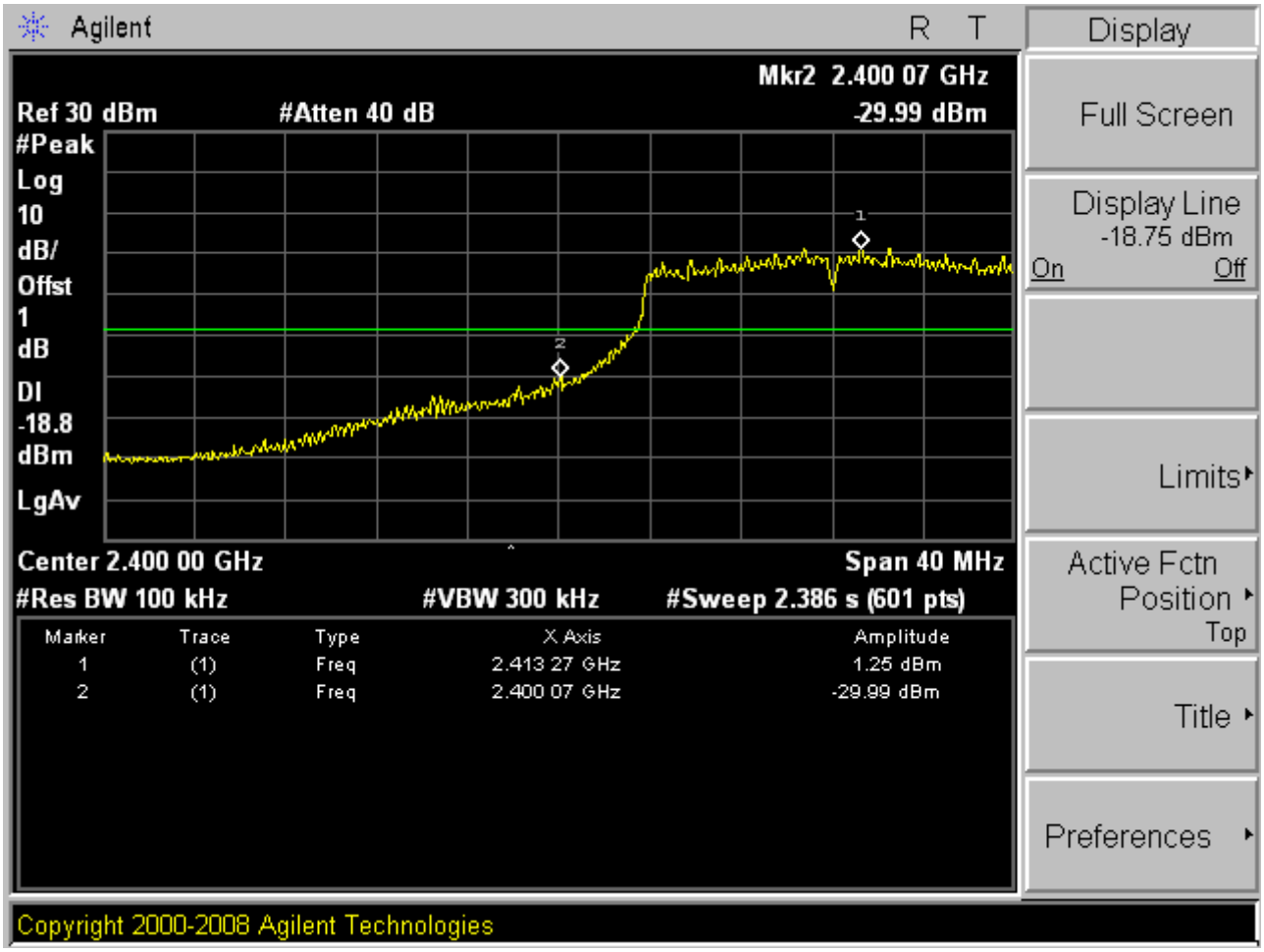
TM1
Low edge


Agilent
R T
Title
Mkr2 2.397 47 GHz
-32.92 dBm
Ref 30 dBm
#Atten 40 dB
Peak
Log
10
dB/
Offst
1
dB
Dl
-12.8
dBm
LgAv
Change Title
Clear Title
Center 2.400 00 GHz
Span 40 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.413 60 GHz 7.17 dBm
2 (1) Freq 2.397 47 GHz -32.92 dBm
Allowable CF for current span exceeded

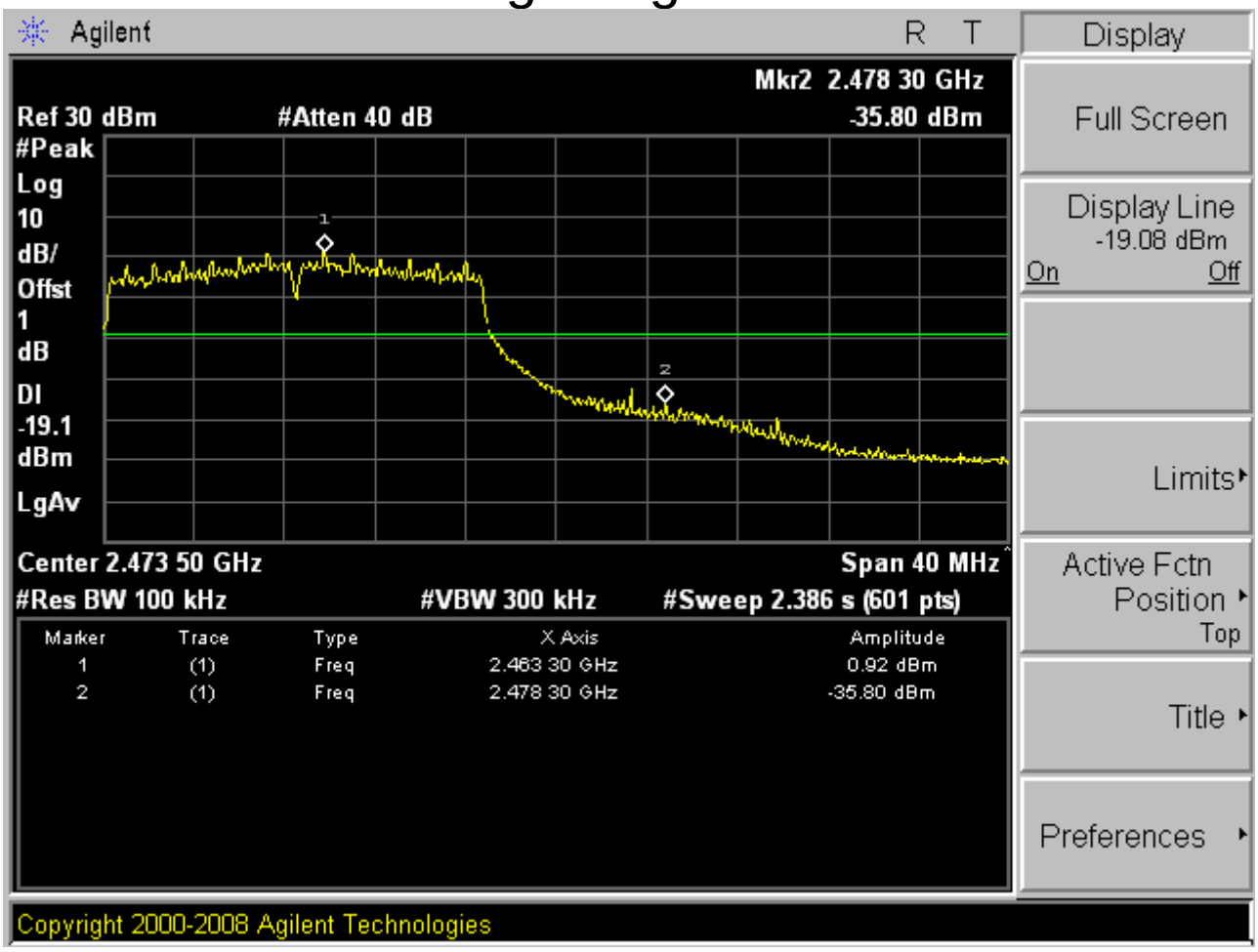
High edge


Agilent
R T
Marker
Mkr2 2.471 97 GHz
-29.34 dBm
Ref 30 dBm
#Atten 40 dB
#Peak
Log
10
dB/
Offst
1
dB
Dl
-12.9
dBm
LgAv
Marker
2.471970000 GHz
-29.34 dBm
Center 2.473 50 GHz
Span 40 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.463 50 GHz 7.12 dBm
2 (1) Freq 2.471 97 GHz -29.34 dBm
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Δ
Span Pair
Span Center
Off
More
1 of 2
Copyright 2000-2008 Agilent Technologies

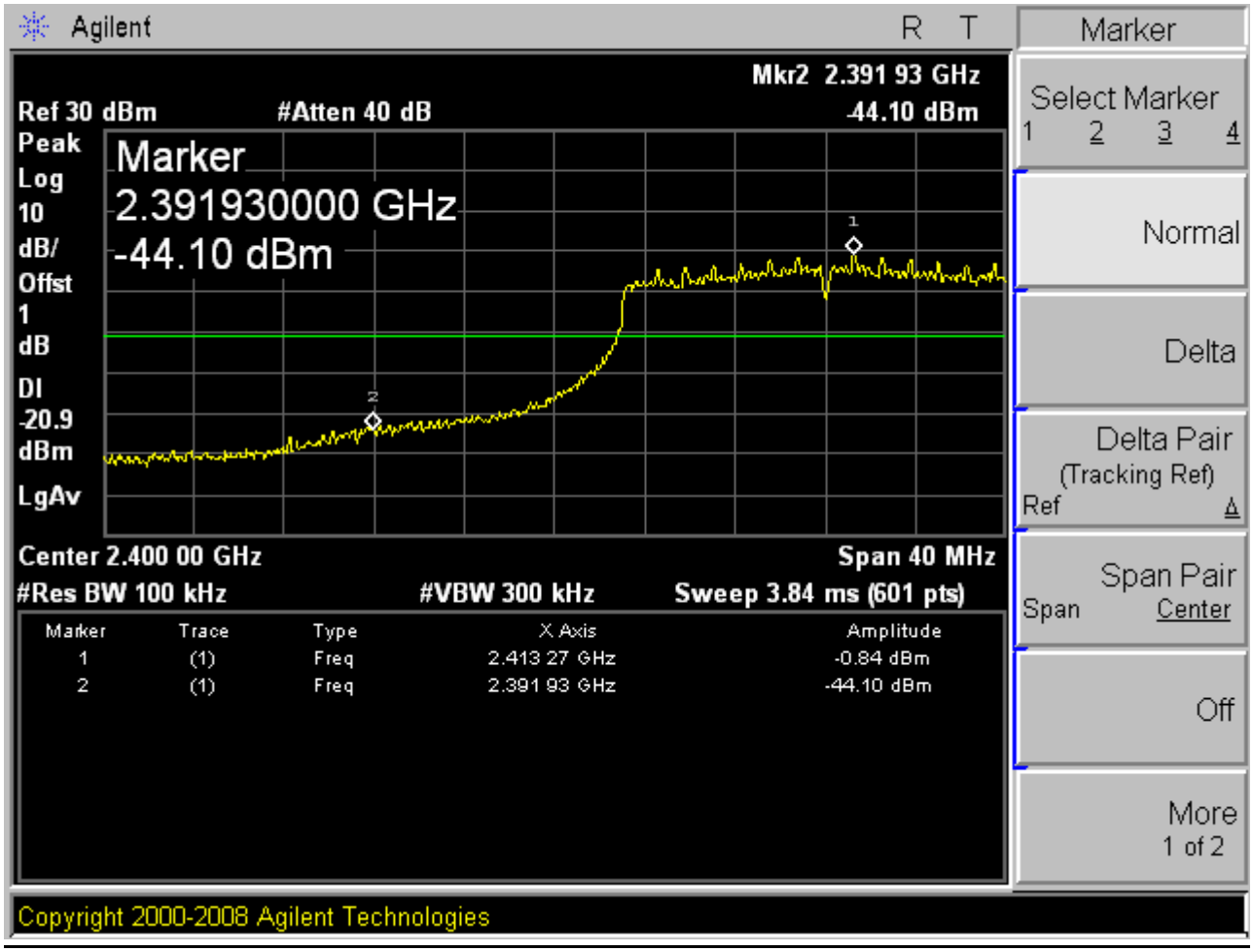
TM2
Low edge


Agilent
R T
Display
Mkr2 2.400 07 GHz
Ref 30 dBm
#Atten 40 dB
-29.99 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-18.8
dBm
LgAv
Full Screen
Display Line
-18.75 dBm
On
Off
Limits
Active Fctn
Position
Top
Title
Preferences
Center 2.400 00 GHz
Span 40 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.413 27 GHz 1.25 dBm
2 (1) Freq 2.400 07 GHz -29.99 dBm
Copyright 2000-2008 Agilent Technologies

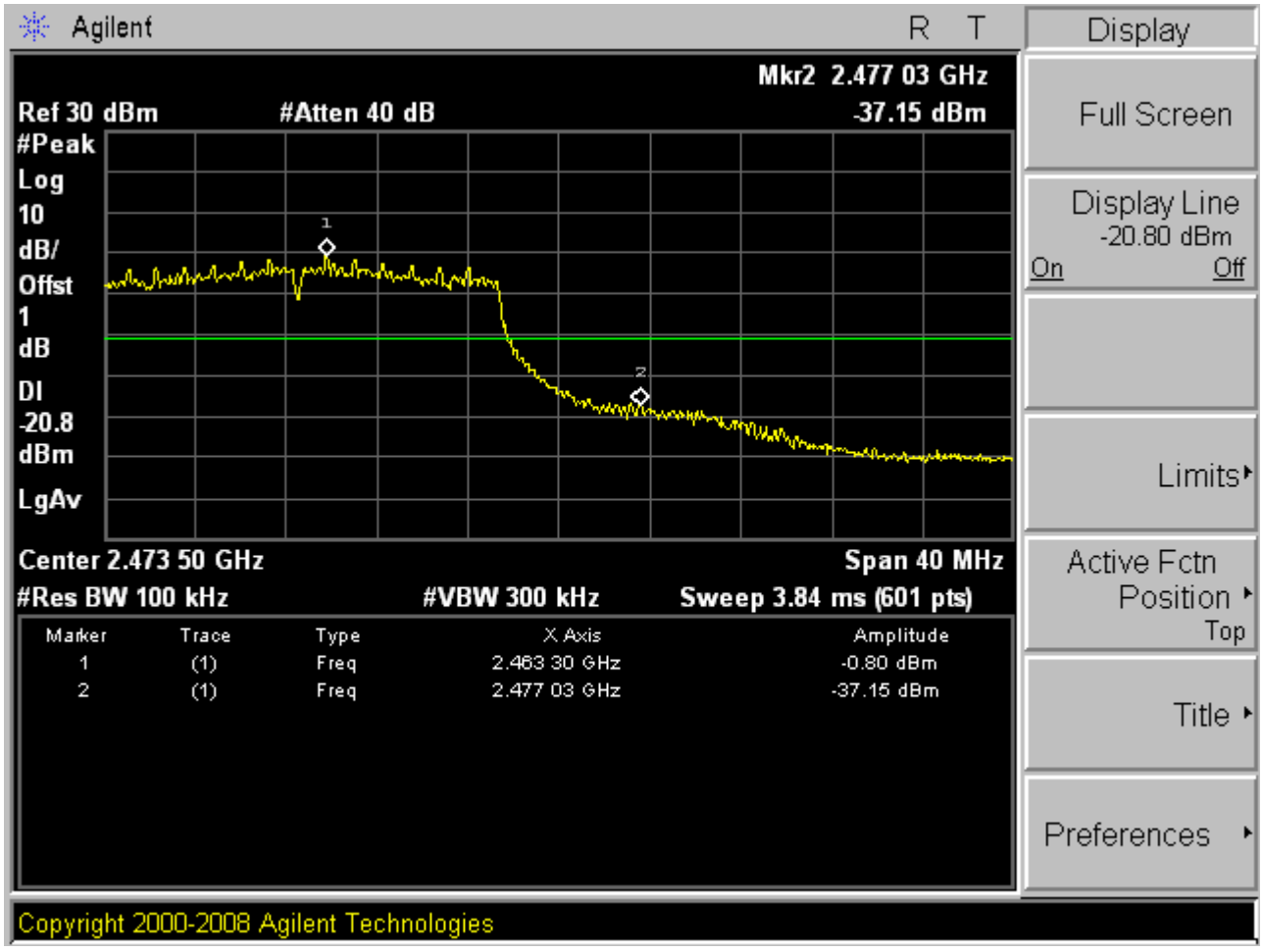
High edge


Agilent
R T
Display
Mkr2 2.478 30 GHz
Ref 30 dBm
#Atten 40 dB
-35.80 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-19.1
dBm
LgAv
Full Screen
Display Line
-19.08 dBm
On
Off
Limits
Active Fctn
Position
Top
Title
Preferences
Center 2.473 50 GHz
Span 40 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.463 30 GHz 0.92 dBm
2 (1) Freq 2.478 30 GHz -35.80 dBm
Copyright 2000-2008 Agilent Technologies

TM1
Low edge


Agilent
R T
Marker
Mkr2 2.391 93 GHz
Ref 30 dBm
#Atten 40 dB
-44.10 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-20.9
dBm
LgAv
Marker
2.391930000 GHz
-44.10 dBm
Center 2.400 00 GHz
Span 40 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 3.84 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.413 27 GHz -0.84 dBm
2 (1) Freq 2.391 93 GHz -44.10 dBm
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Δ
Span Pair
Span Center
Off
More
1 of 2
Copyright 2000-2008 Agilent Technologies

High edge

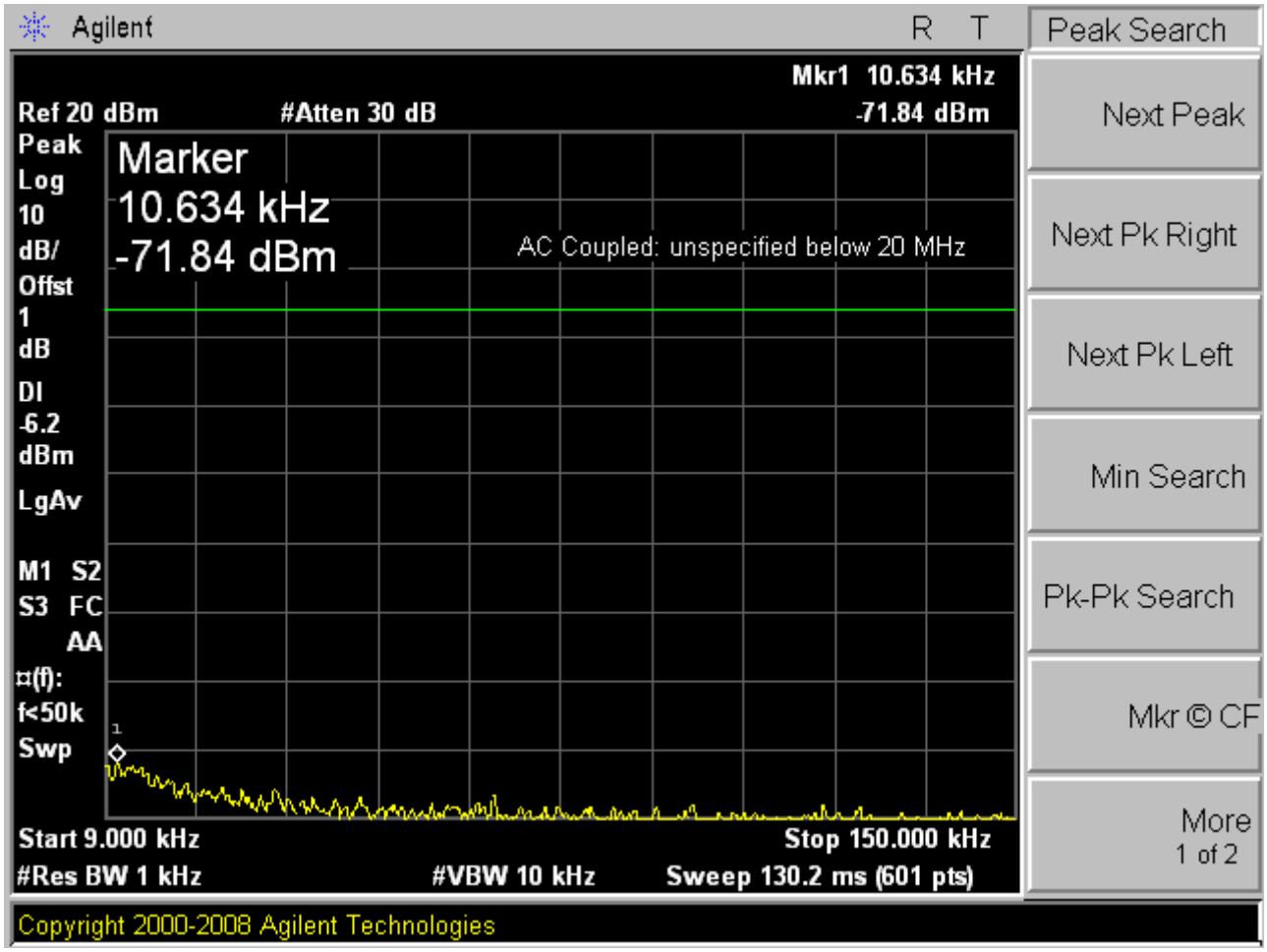

Agilent
R T
Display
Mkr2 2.477 03 GHz
Ref 30 dBm
#Atten 40 dB
-37.15 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-20.8
dBm
LgAv
Full Screen
Display Line
-20.80 dBm
On
Off
Limits
Active Fctn
Position
Top
Title
Preferences
Center 2.473 50 GHz
Span 40 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 3.84 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.463 30 GHz -0.80 dBm
2 (1) Freq 2.477 03 GHz -37.15 dBm
Copyright 2000-2008 Agilent Technologies

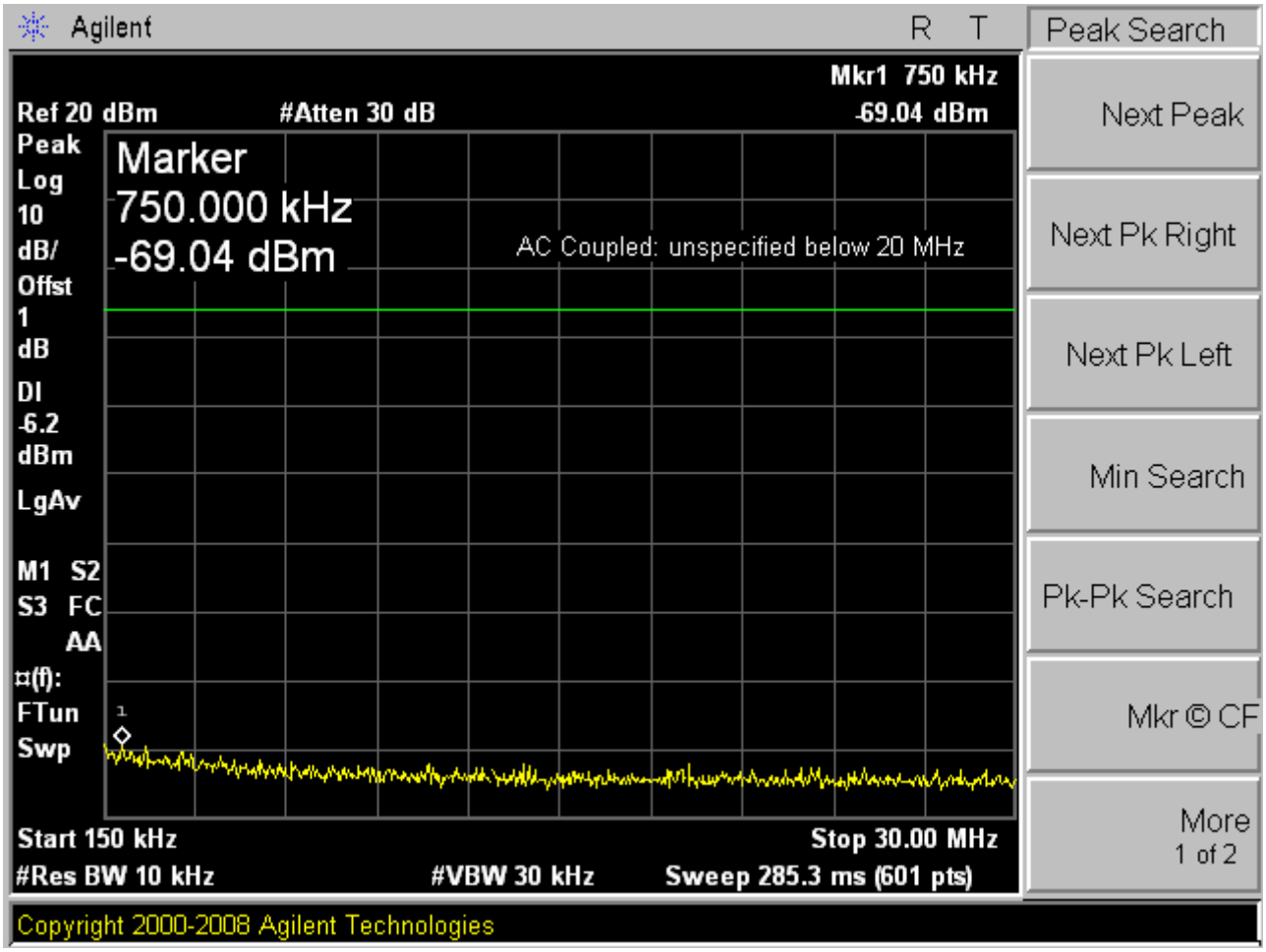
Appendix D

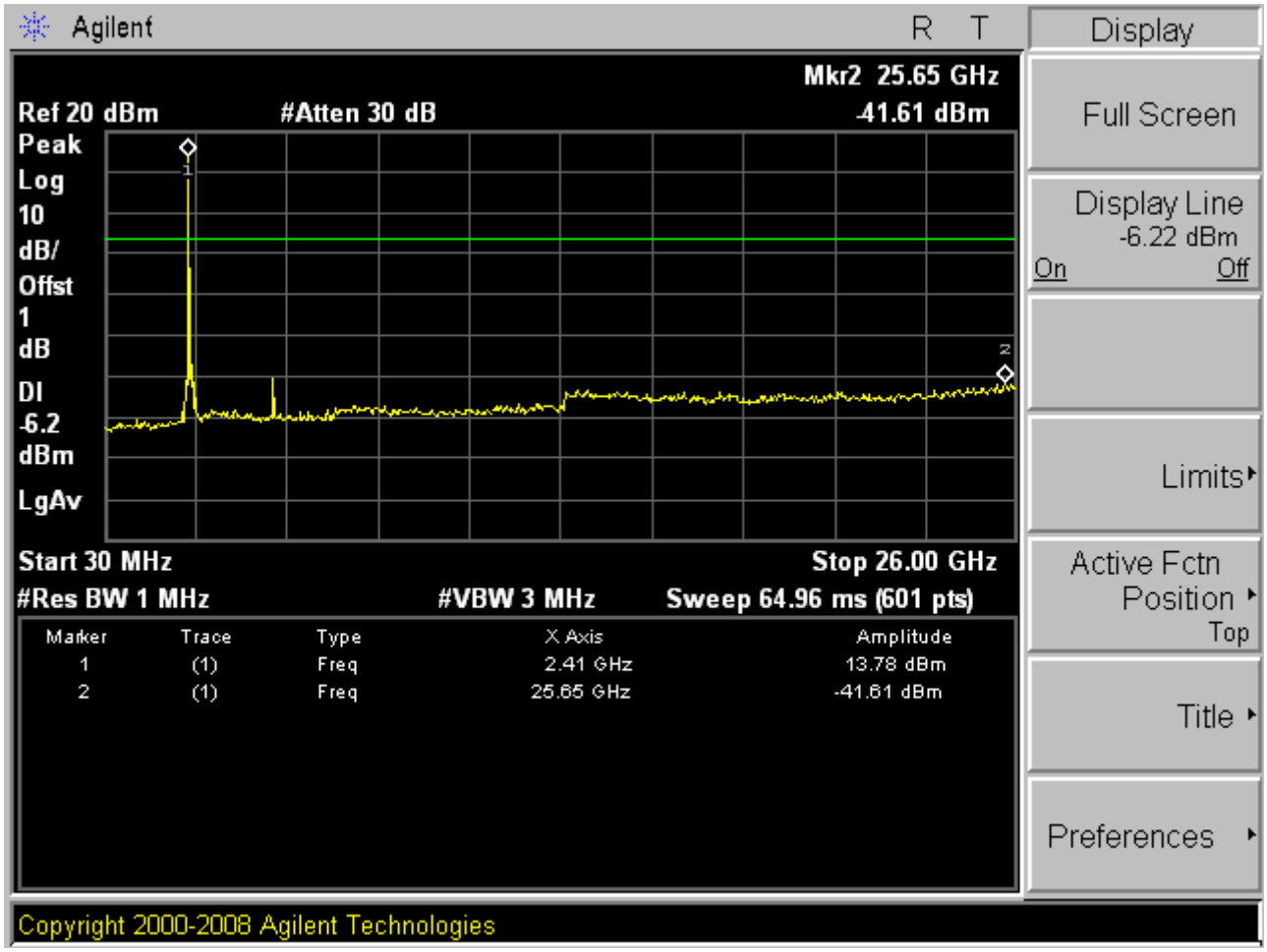
Conducted RF spurious

According to FCC Part 15.247 (d)

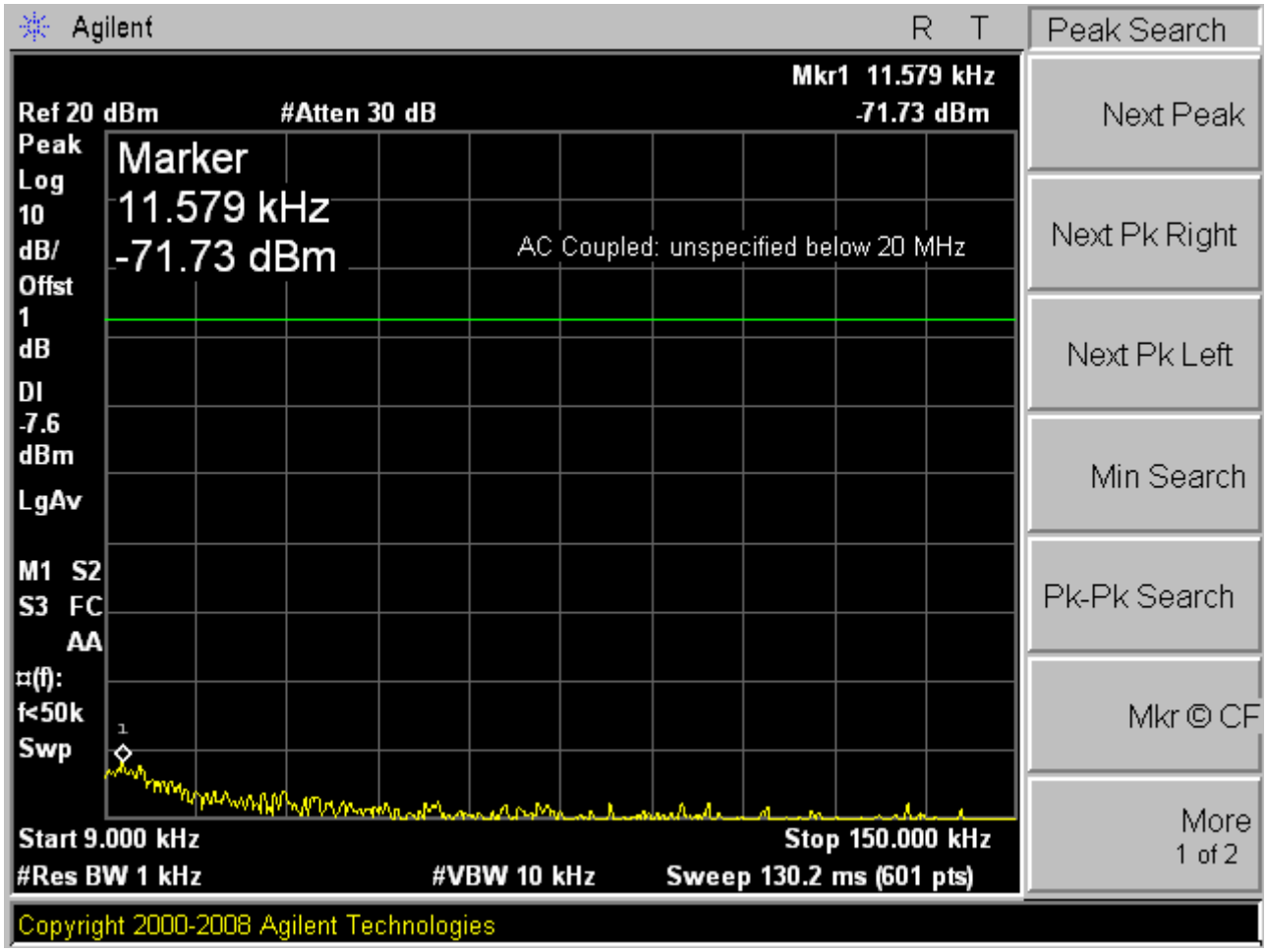
TM1
Channel 1

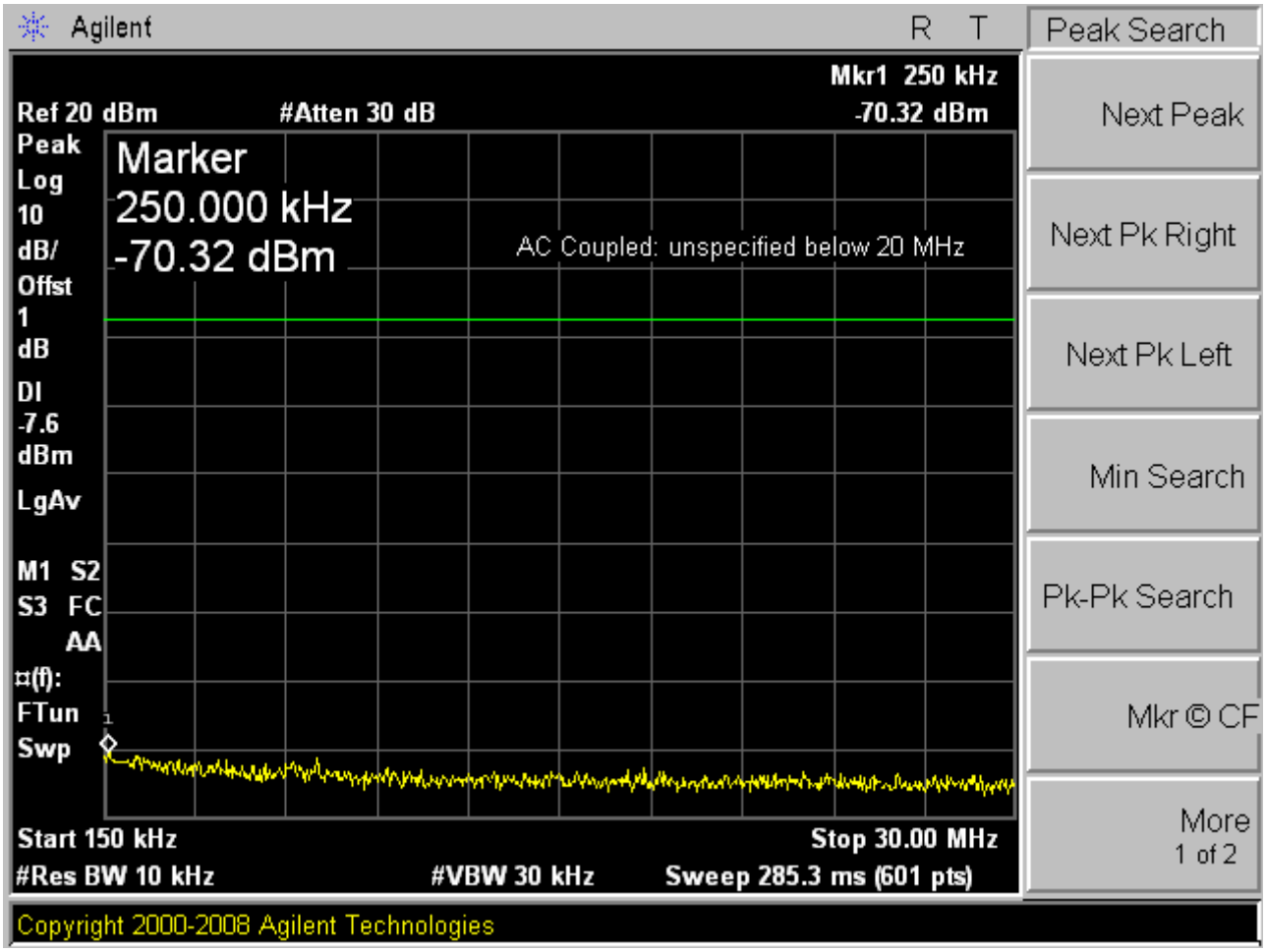


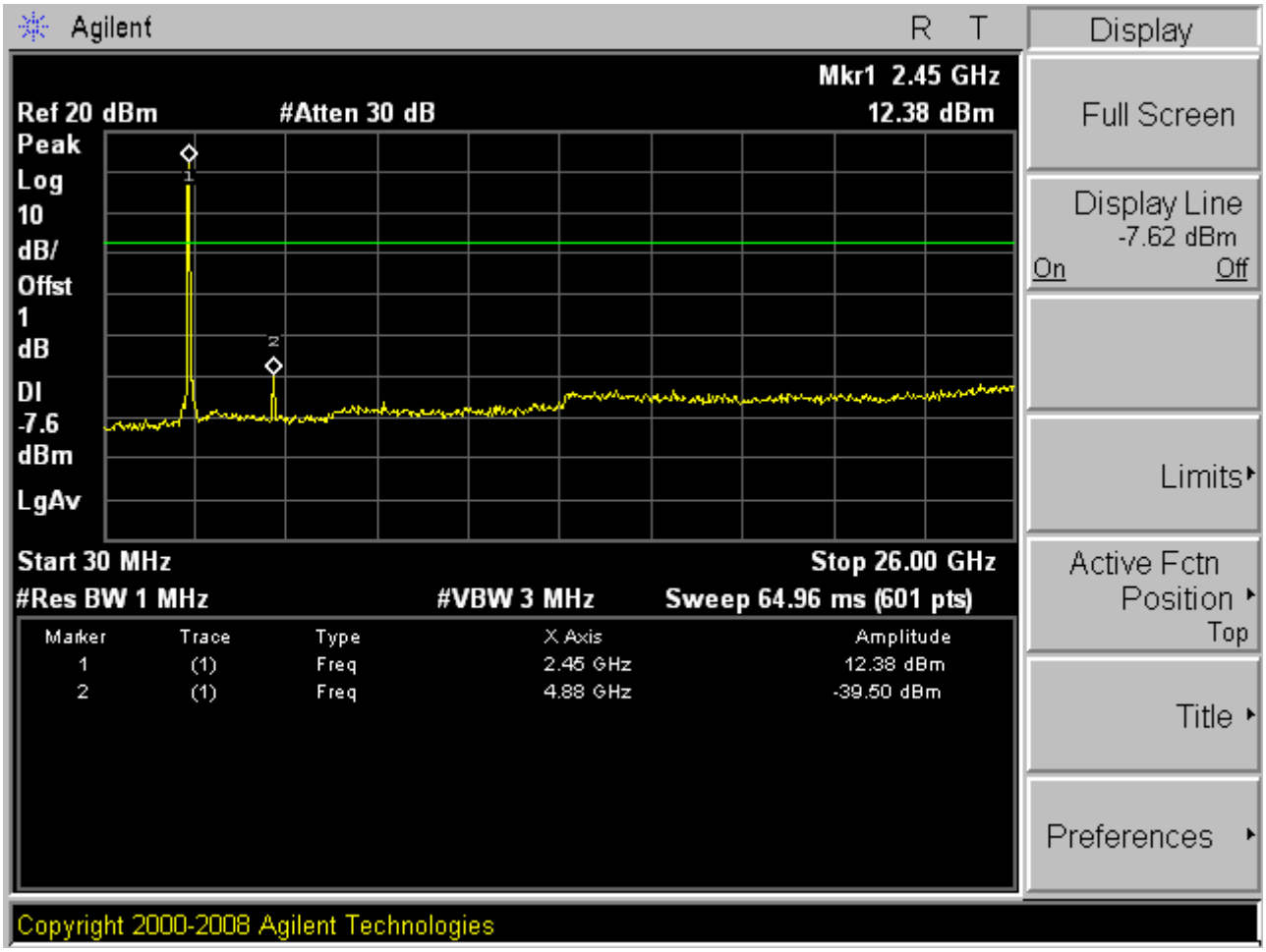

Agilent
R T
Peak Search
Mkr1 750 kHz
Ref 20 dBm
#Atten 30 dB
-69.04 dBm
Next Peak
Peak
Log
10
dB/
Offst
1
dB
Marker
750.000 kHz
-69.04 dBm
AC Coupled: unspecified below 20 MHz
Next Pk Right
Next Pk Left
Dl
-6.2
dBm
LgAv
Min Search
M1 S2
S3 FC
AA
Pk-Pk Search
¤(f):
FTun
Swp
Mkr © CF
More
1 of 2
Start 150 kHz
Stop 30.00 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
Copyright 2000-2008 Agilent Technologies


Agilent
R T
Mkr2 25.65 GHz
Ref 20 dBm
#Atten 30 dB
-41.61 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-6.2
dBm
LgAv
Start 30 MHz
Stop 26.00 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.41 GHz 13.78 dBm
2 (1) Freq 25.65 GHz -41.61 dBm
Display
Full Screen
Display Line
-6.22 dBm
On
Off
Limits
Active Fctn
Position
Top
Title
Preferences
Copyright 2000-2008 Agilent Technologies

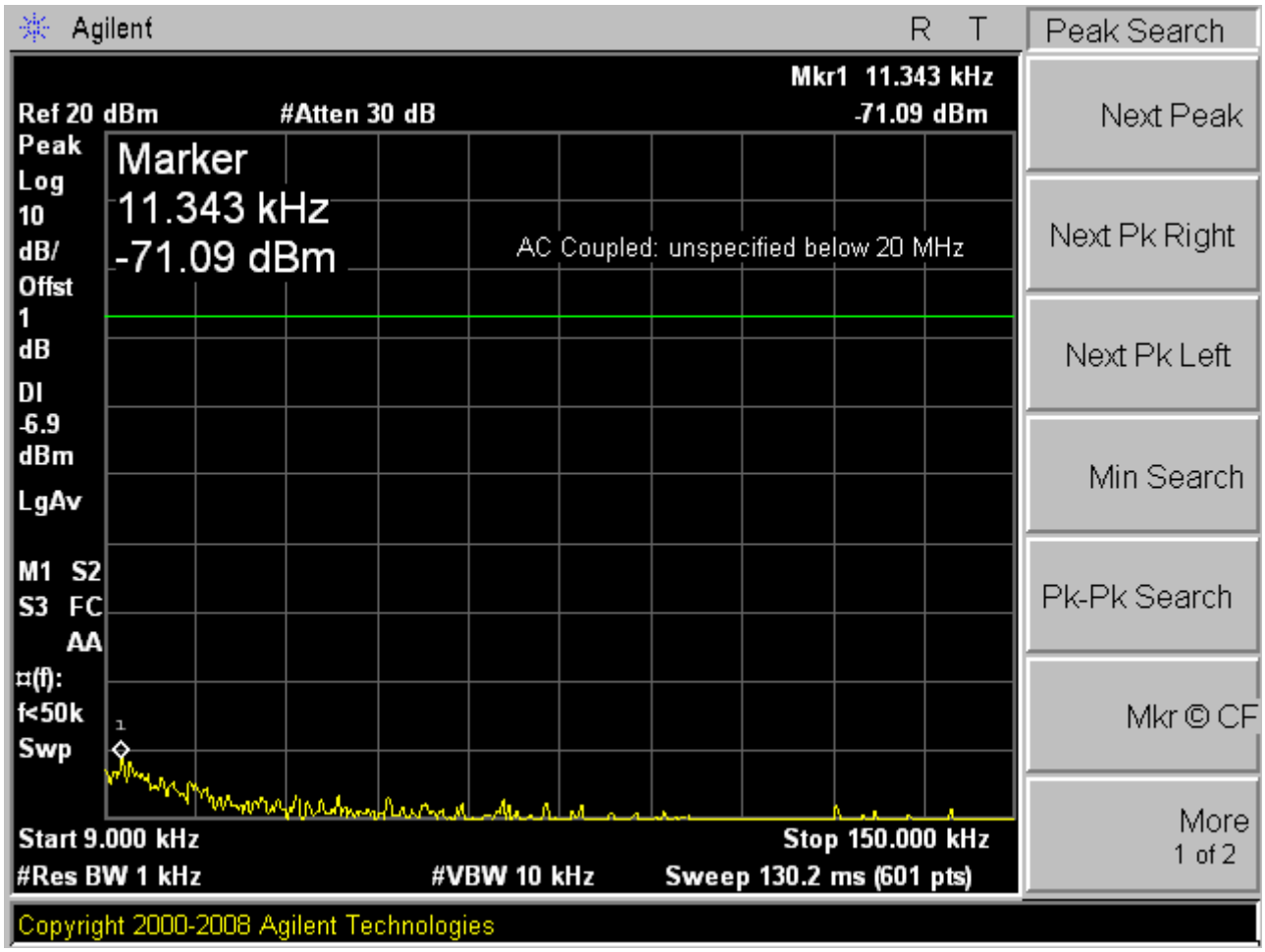
Channel 6

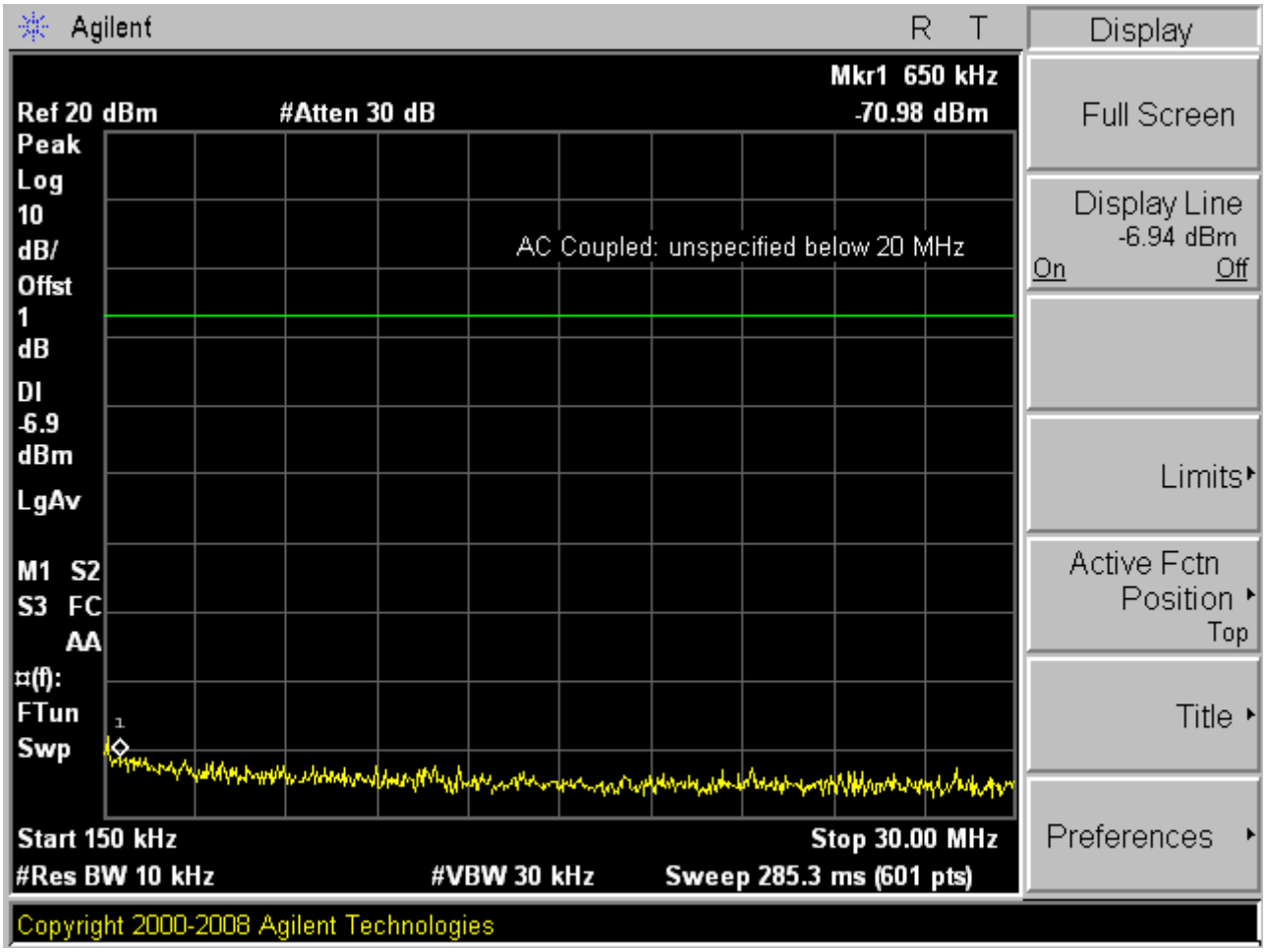

Agilent
R T
Peak Search
Mkr1 11.579 kHz
Ref 20 dBm
#Atten 30 dB
-71.73 dBm
Next Peak
Peak
Log
10
dB/
Offst
1
dB
Marker
11.579 kHz
-71.73 dBm
AC Coupled: unspecified below 20 MHz
Next Pk Right
Next Pk Left
Dl
-7.6
dBm
LgAv
Min Search
M1 S2
S3 FC
AA
Pk-Pk Search
¤(f):
f<50k
Swp
Mkr © CF
More
1 of 2
Start 9.000 kHz
Stop 150.000 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
Copyright 2000-2008 Agilent Technologies

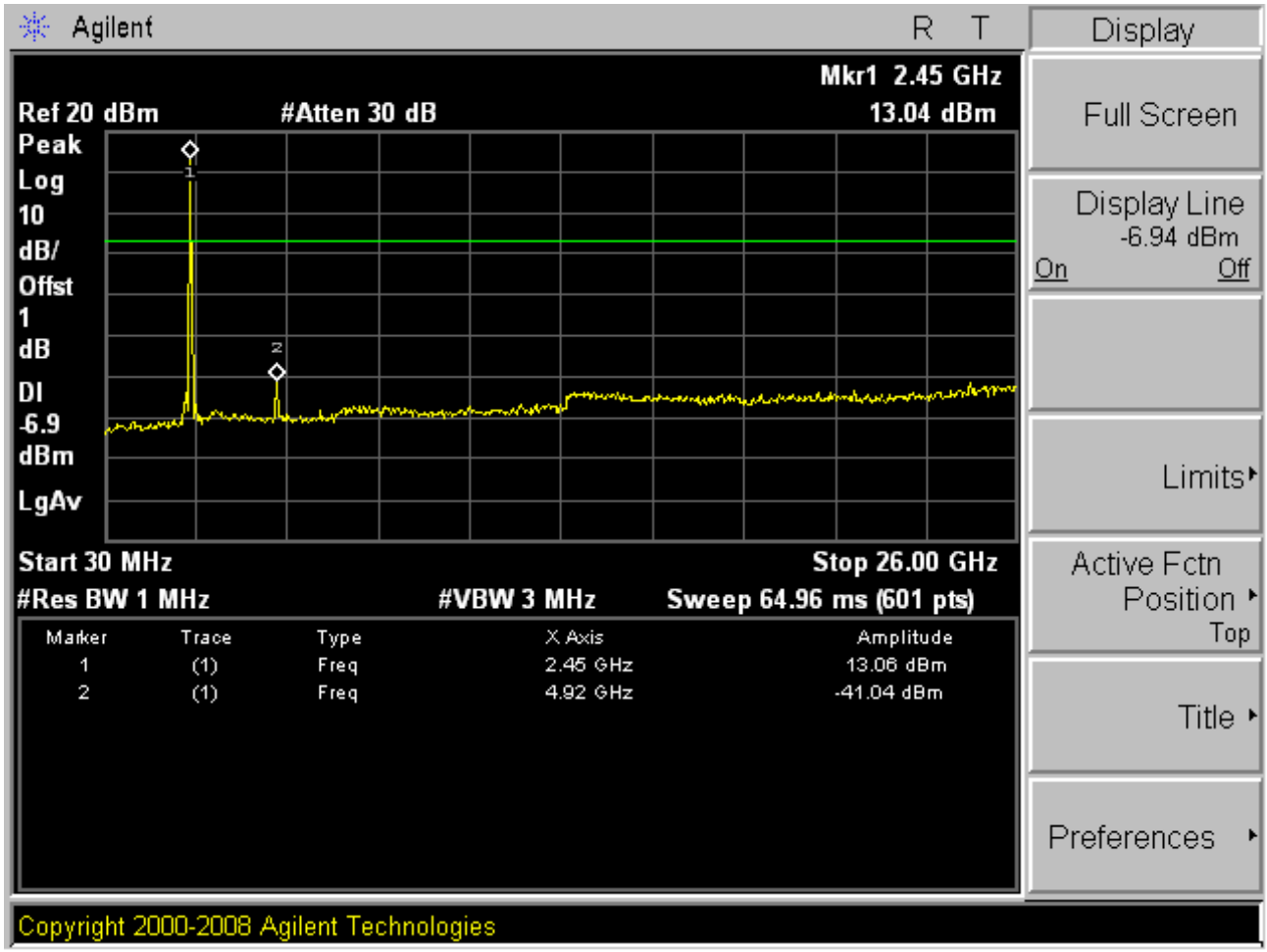

Agilent
R T
Peak Search
Mkr1 250 kHz
-70.32 dBm
Ref 20 dBm
#Atten 30 dB
Peak
Log
10
dB/
Offst
1
dB
Dl
-7.6
dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
FTun
Swp
Marker
250.000 kHz
-70.32 dBm
AC Coupled: unspecified below 20 MHz
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Start 150 kHz
Stop 30.00 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
Copyright 2000-2008 Agilent Technologies


Agilent
R T
Display
Mkr1 2.45 GHz
Ref 20 dBm
#Atten 30 dB
12.38 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-7.6
dBm
LgAv
Full Screen
Display Line
-7.62 dBm
On
Off
Limits
Start 30 MHz
Stop 26.00 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Active Fctn
Position
Top
Title
Preferences
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.45 GHz 12.38 dBm
2 (1) Freq 4.88 GHz -39.50 dBm
Copyright 2000-2008 Agilent Technologies

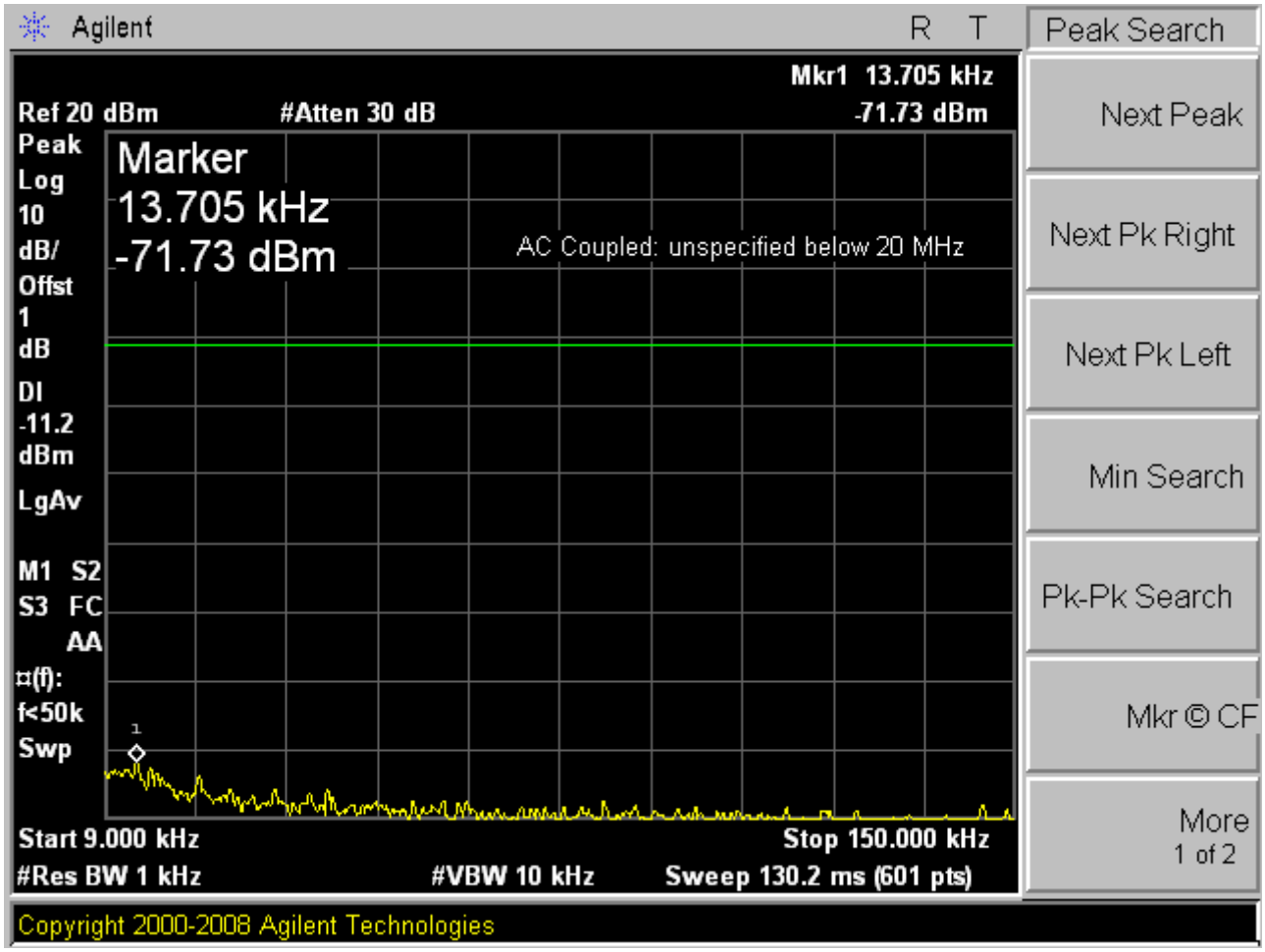
Channel 11

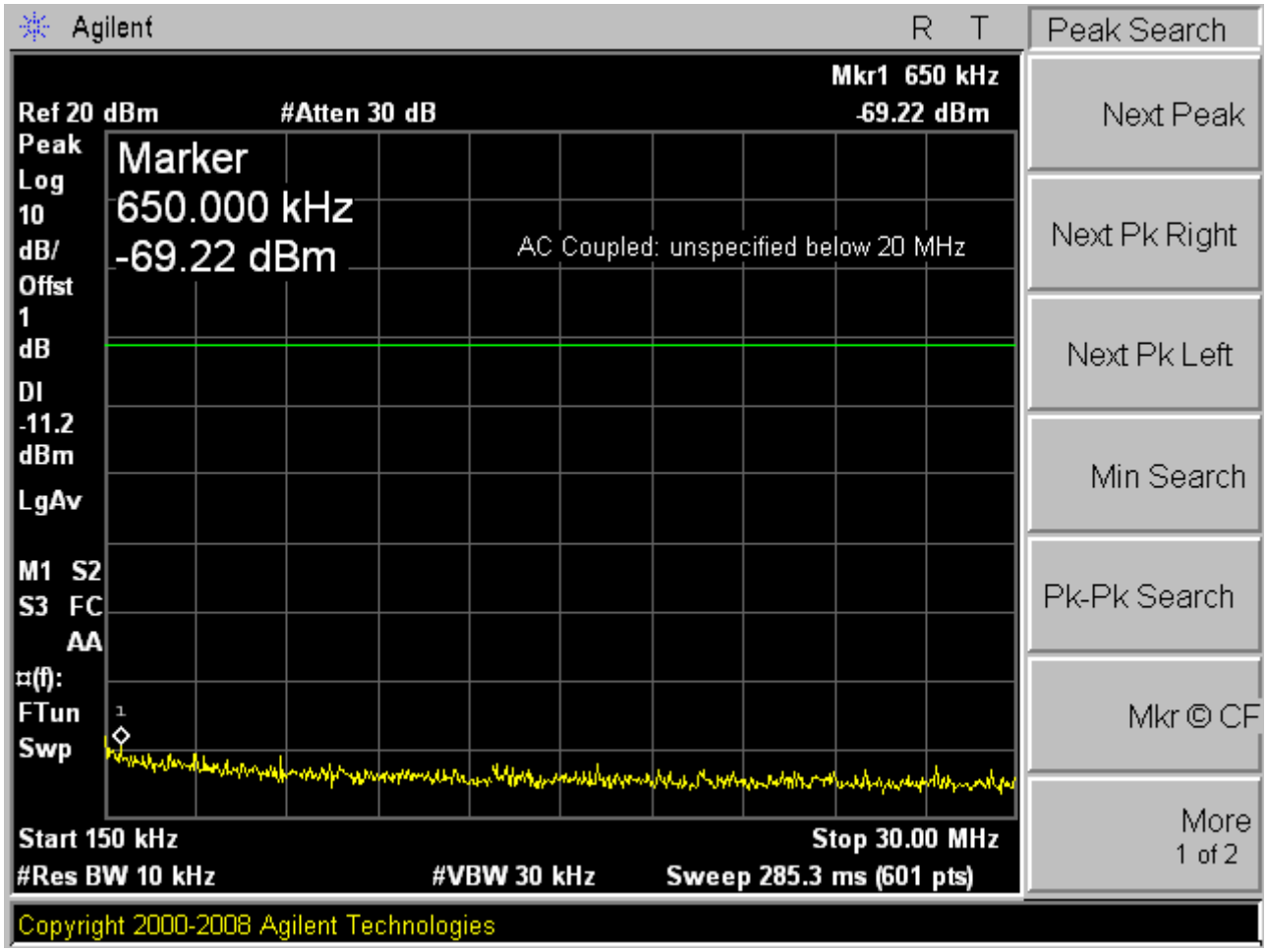

Agilent
R T
Mkr1 11.343 kHz
-71.09 dBm
Ref 20 dBm
#Atten 30 dB
Peak
Log
10
dB/
Offst
1
dB
Dl
-6.9
dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
f<50k
Swp
Marker
11.343 kHz
-71.09 dBm
AC Coupled: unspecified below 20 MHz
Start 9.000 kHz
Stop 150.000 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Copyright 2000-2008 Agilent Technologies

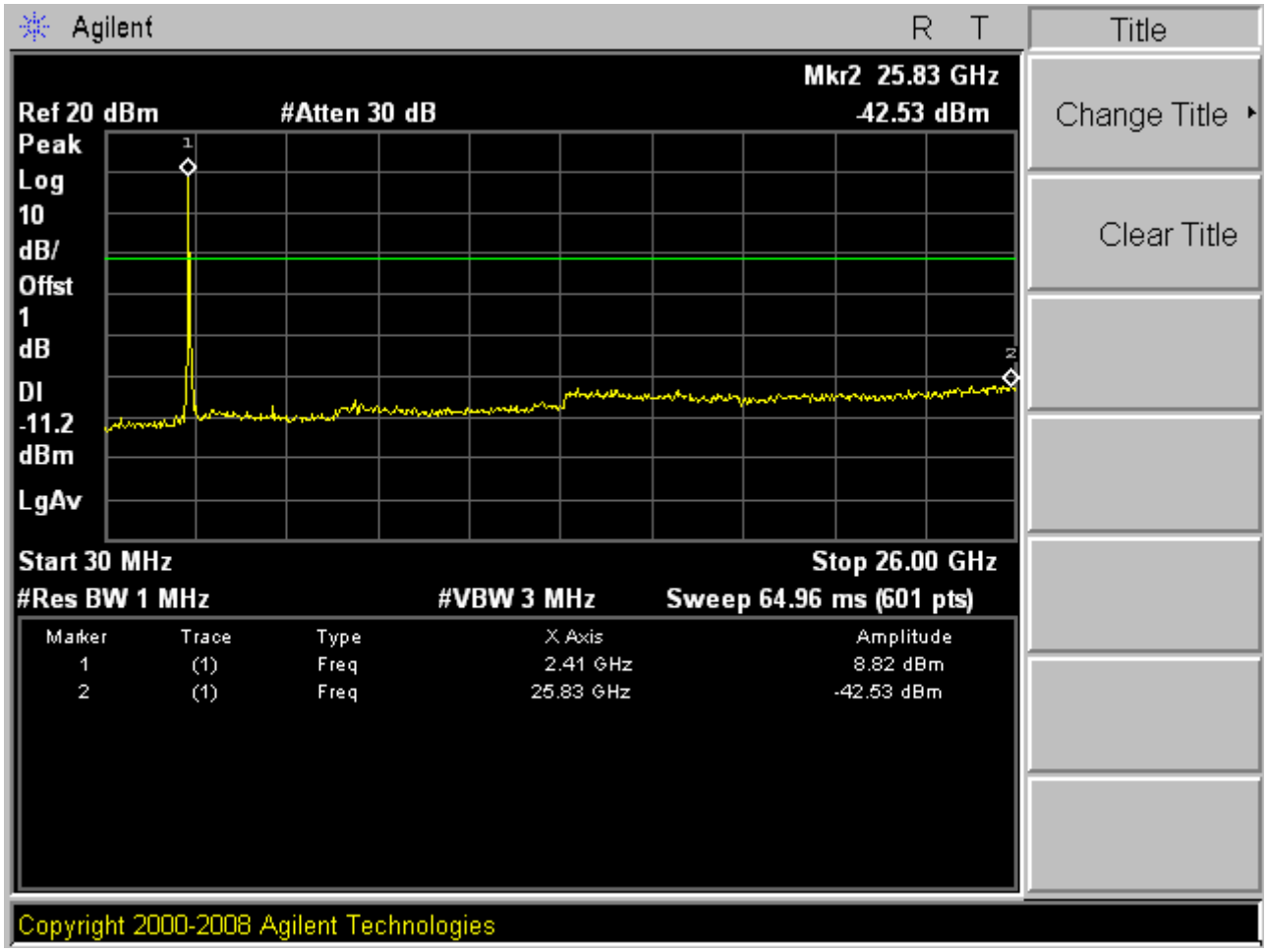

Agilent
R T
Mkr1 650 kHz
Ref 20 dBm
#Atten 30 dB
-70.98 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-6.9
dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
FTun
Swp
AC Coupled: unspecified below 20 MHz
Start 150 kHz
Stop 30.00 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
Copyright 2000-2008 Agilent Technologies
Display
Full Screen
Display Line
-6.94 dBm
On
Off
Limits
Active Fctn
Position
Top
Title
Preferences


Agilent
R T
Mkr1 2.45 GHz
Ref 20 dBm
#Atten 30 dB
13.04 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-6.9
dBm
LgAv
Start 30 MHz
Stop 26.00 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.45 GHz 13.06 dBm
2 (1) Freq 4.92 GHz -41.04 dBm
Display
Full Screen
Display Line
-6.94 dBm
On
Off
Limits
Active Fctn
Position
Top
Title
Preferences
Copyright 2000-2008 Agilent Technologies

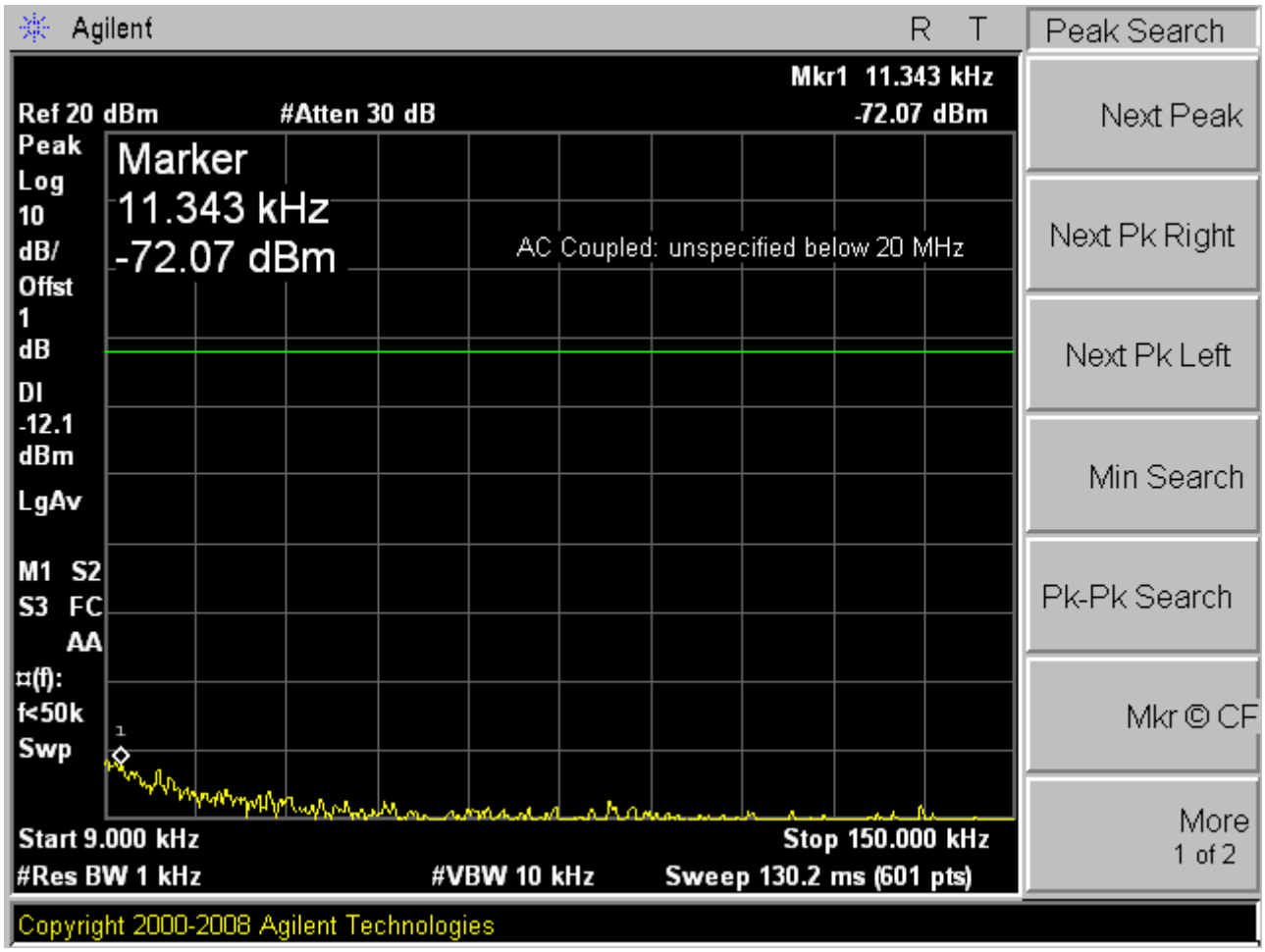
TM2
Channel 1

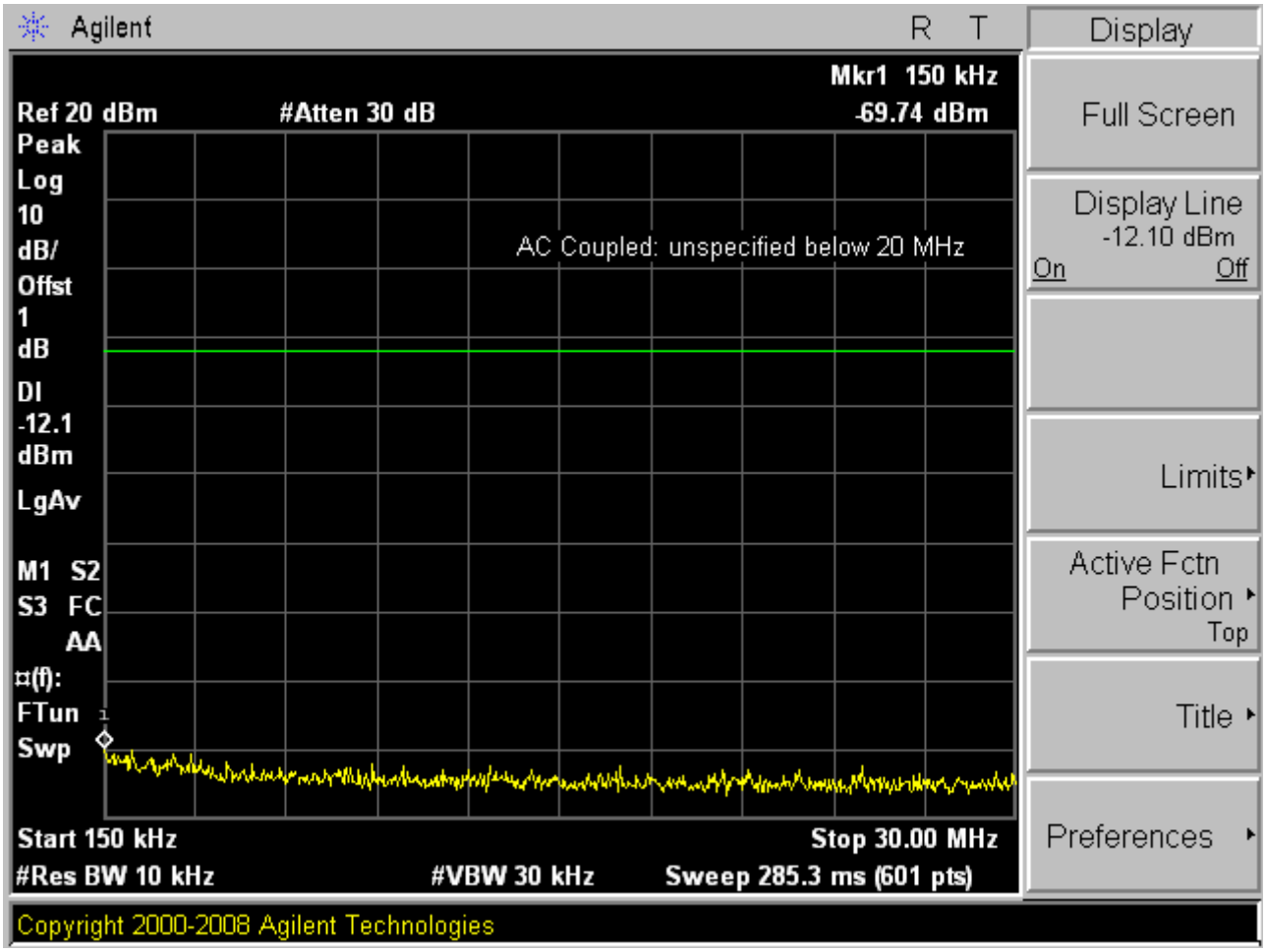


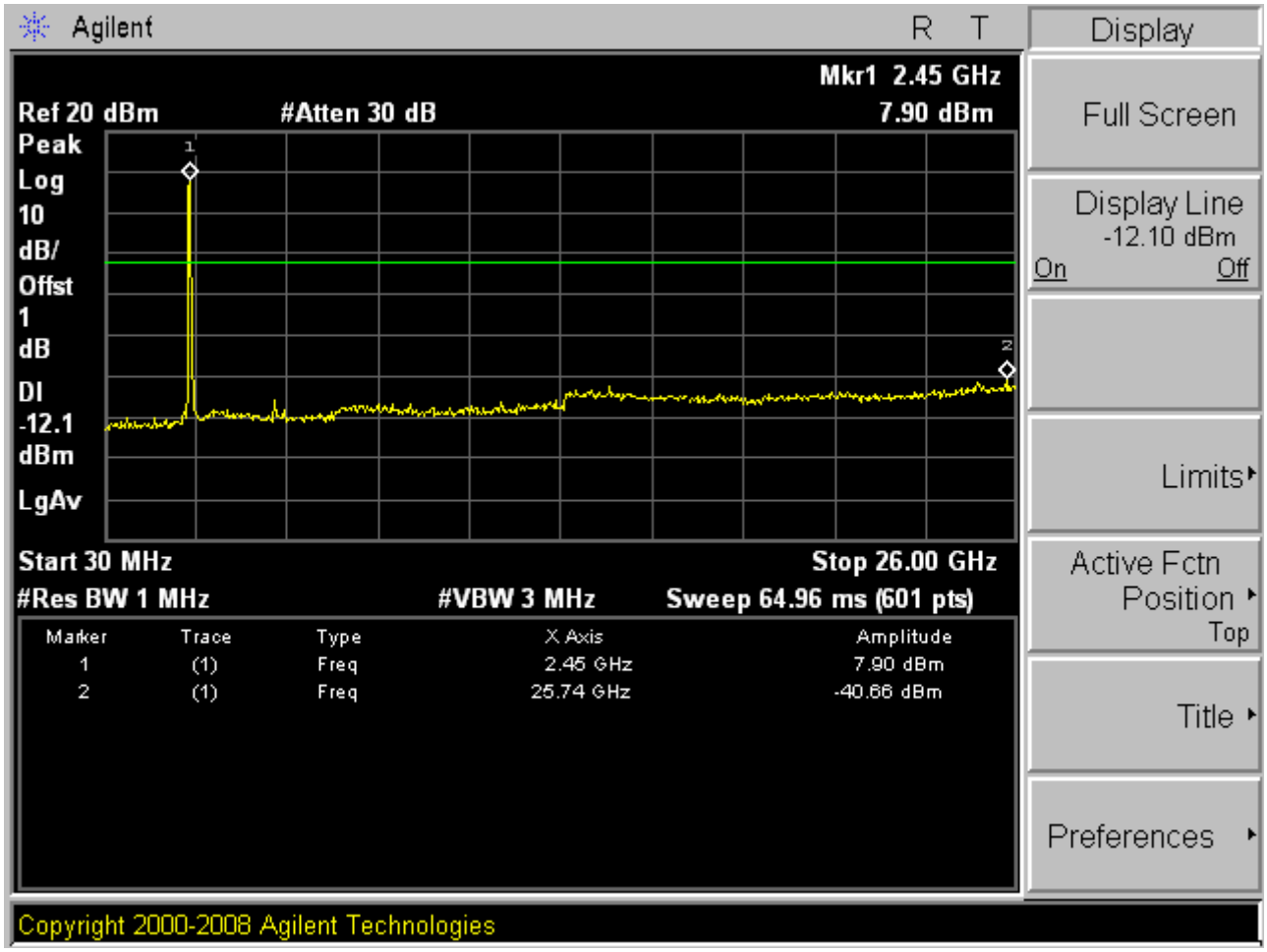

Agilent
R T
Peak Search
Mkr1 650 kHz
Ref 20 dBm
#Atten 30 dB
-69.22 dBm
Next Peak
Peak
Log
10
dB/
Offst
1
dB
Marker
650.000 kHz
-69.22 dBm
AC Coupled: unspecified below 20 MHz
Next Pk Right
Next Pk Left
DI
-11.2
dBm
LgAv
Min Search
M1 S2
S3 FC
AA
Pk-Pk Search
¤(f):
FTun
Swp
Mkr © CF
More
1 of 2
Start 150 kHz
Stop 30.00 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
Copyright 2000-2008 Agilent Technologies


Agilent
R T
Title
Change Title
Clear Title
Mkr2 25.83 GHz
-42.53 dBm
Ref 20 dBm
#Atten 30 dB
Peak
Log
10
dB/
Offst
1
dB
Dl
-11.2
dBm
LgAv
Start 30 MHz
Stop 26.00 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.41 GHz 8.82 dBm
2 (1) Freq 25.83 GHz -42.53 dBm
Copyright 2000-2008 Agilent Technologies

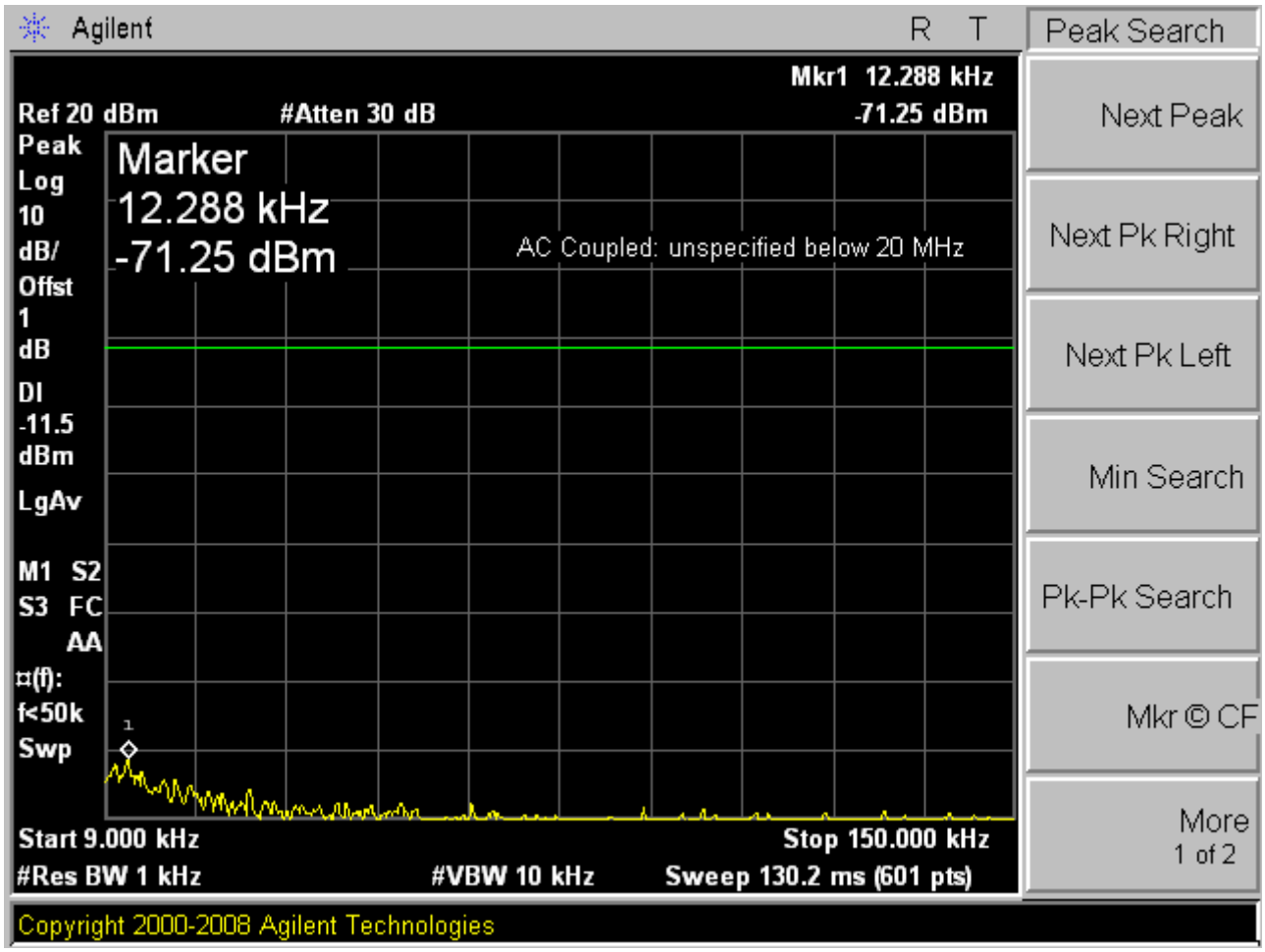
Channel 6

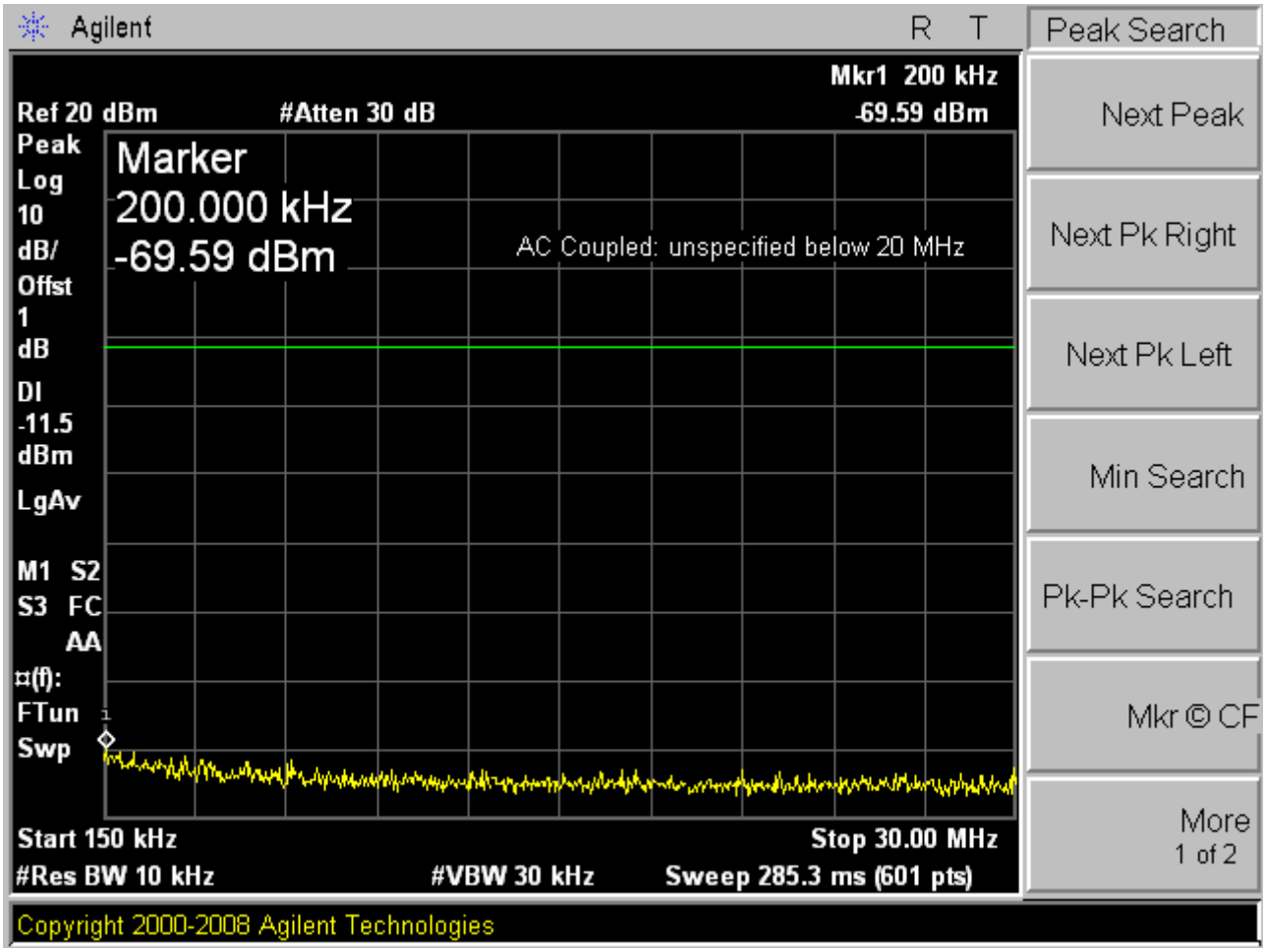

Agilent
R T
Peak Search
Mkr1 11.343 kHz
Ref 20 dBm
#Atten 30 dB
-72.07 dBm
Next Peak
Peak
Log
10
dB/
Offst
1
dB
Marker
11.343 kHz
-72.07 dBm
AC Coupled: unspecified below 20 MHz
Next Pk Right
Next Pk Left
Dl
-12.1
dBm
LgAv
Min Search
M1 S2
S3 FC
AA
Pk-Pk Search
¤(f):
f<50k
Swp
Mkr © CF
More
1 of 2
Start 9.000 kHz
Stop 150.000 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
Copyright 2000-2008 Agilent Technologies

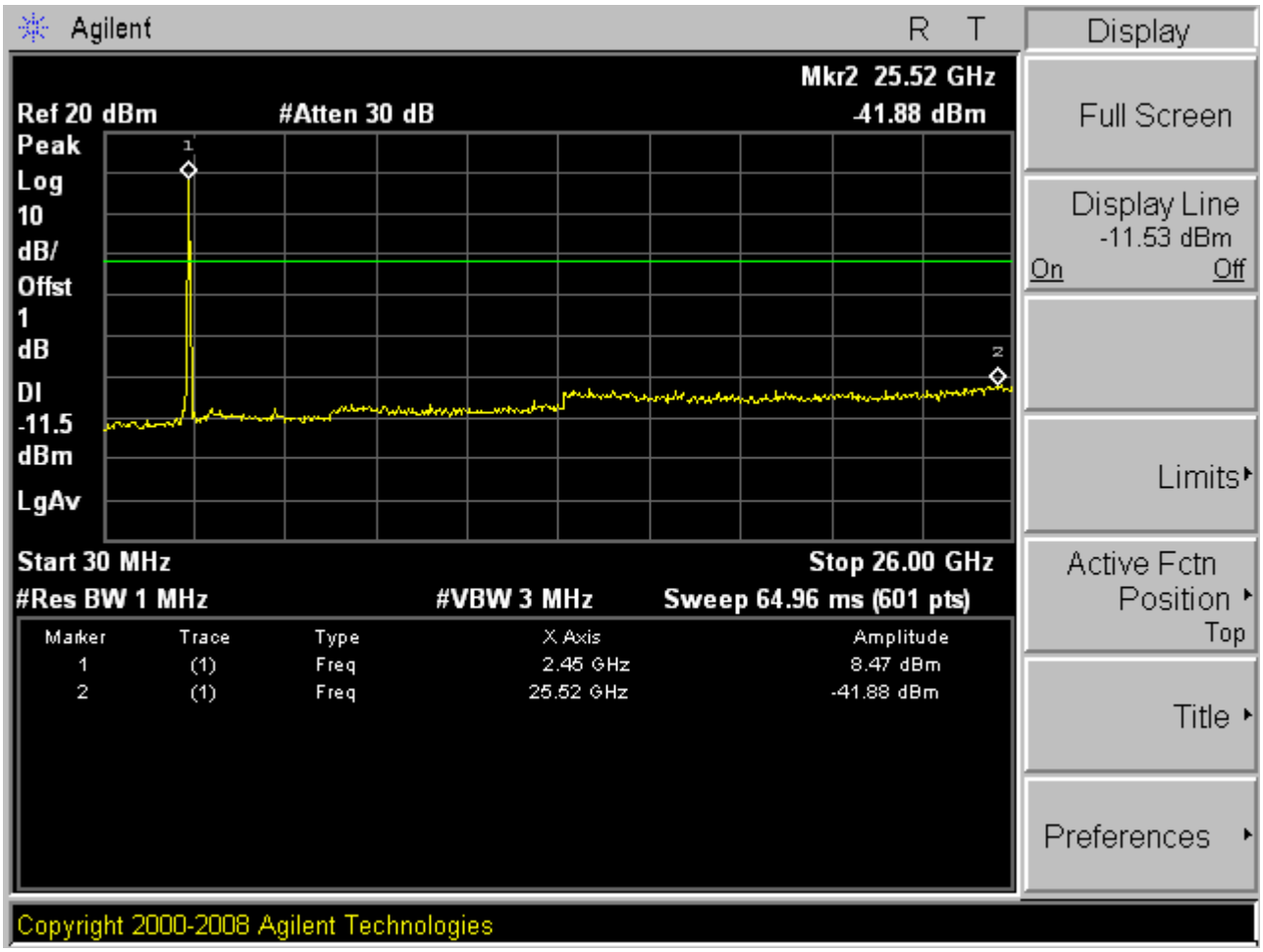

Agilent
R T
Display
Mkr1 150 kHz
Ref 20 dBm
#Atten 30 dB
-69.74 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-12.1
dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
FTun
Swp
AC Coupled: unspecified below 20 MHz
Full Screen
Display Line
-12.10 dBm
On
Off
Limits
Active Fctn
Position
Top
Title
Preferences
Start 150 kHz
Stop 30.00 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
Copyright 2000-2008 Agilent Technologies


Agilent
R T
Mkr1 2.45 GHz
7.90 dBm
Ref 20 dBm
#Atten 30 dB
Peak
Log
10
dB/
Offst
1
dB
Dl
-12.1
dBm
LgAv
Start 30 MHz
Stop 26.00 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.45 GHz 7.90 dBm
2 (1) Freq 25.74 GHz -40.66 dBm
Display
Full Screen
Display Line
-12.10 dBm
On Off
Limits
Active Fctn
Position
Top
Title
Preferences
Copyright 2000-2008 Agilent Technologies

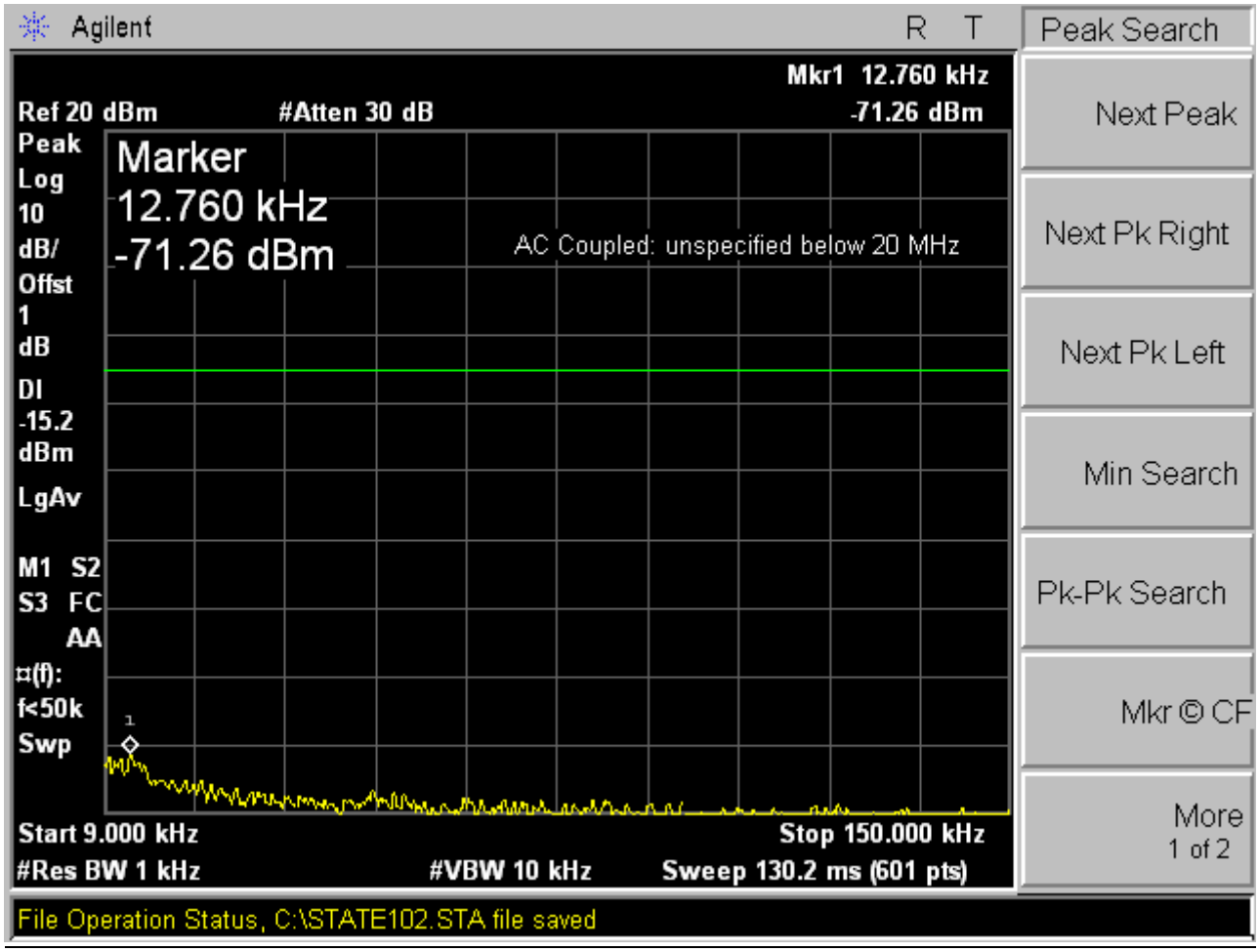
Channel 11

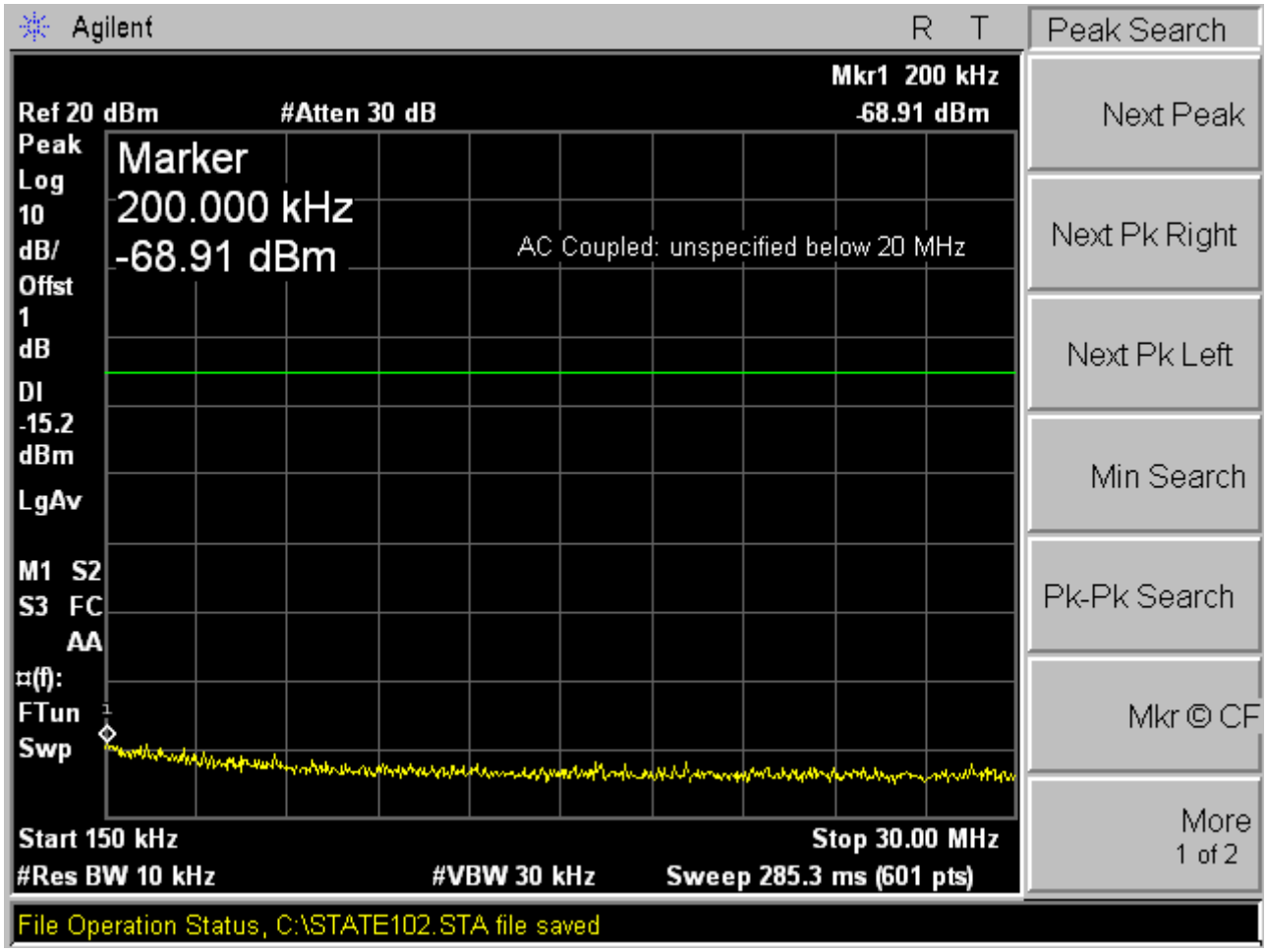

Agilent
R T
Peak Search
Mkr1 12.288 kHz
Ref 20 dBm
#Atten 30 dB
-71.25 dBm
Next Peak
Peak
Log
10
dB/
Offst
1
dB
Marker
12.288 kHz
-71.25 dBm
AC Coupled: unspecified below 20 MHz
Next Pk Right
Next Pk Left
Dl
-11.5
dBm
LgAv
Min Search
M1 S2
S3 FC
AA
Pk-Pk Search
¤(f):
f<50k
Swp
Mkr © CF
More
1 of 2
Start 9.000 kHz
Stop 150.000 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
Copyright 2000-2008 Agilent Technologies

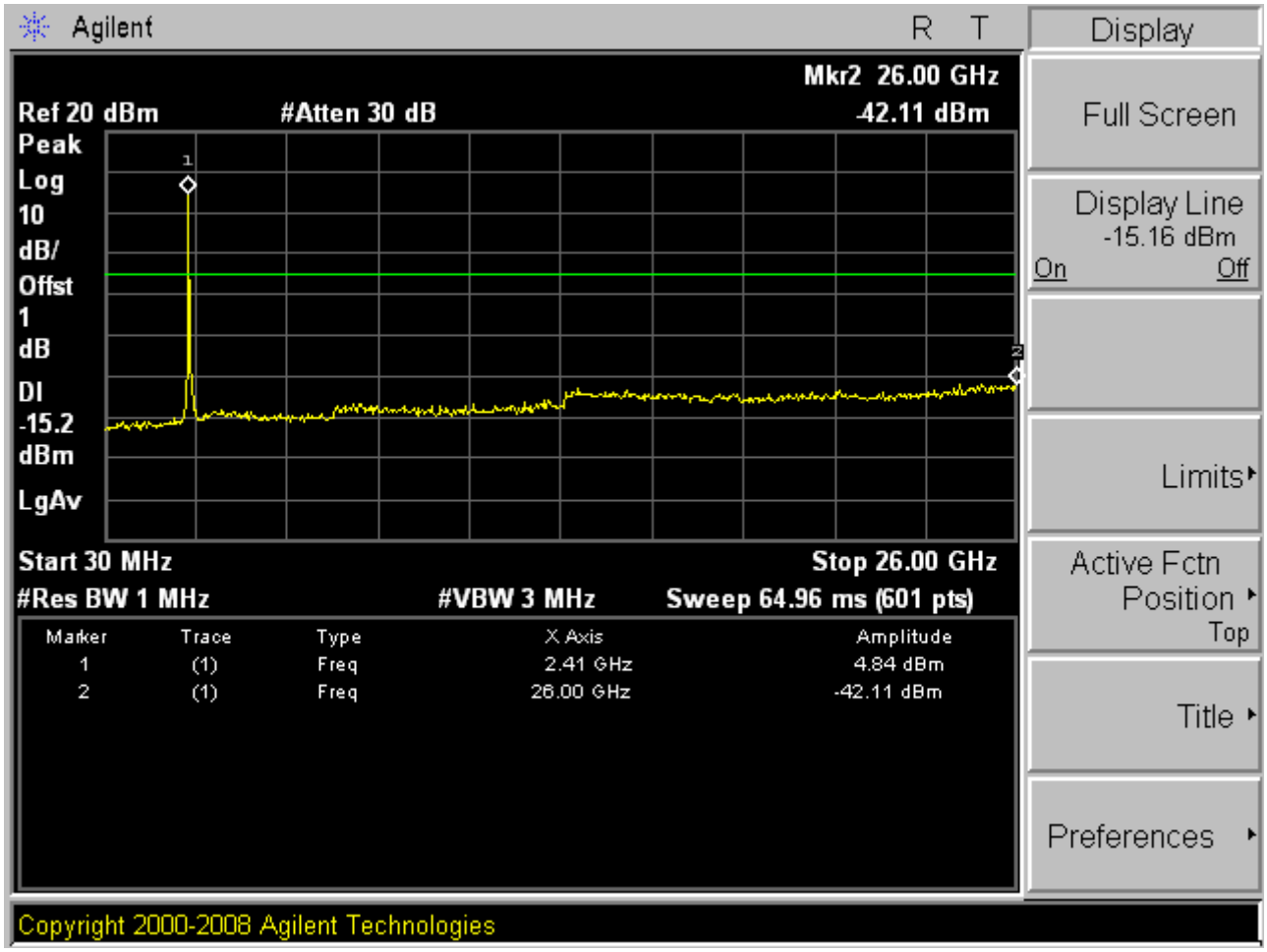

Agilent
R T
Peak Search
Mkr1 200 kHz
Ref 20 dBm
#Atten 30 dB
-69.59 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-11.5
dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
FTun
Swp
Marker
200.000 kHz
-69.59 dBm
AC Coupled: unspecified below 20 MHz
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Start 150 kHz
Stop 30.00 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
Copyright 2000-2008 Agilent Technologies


Agilent
R T
Mkr2 25.52 GHz
Ref 20 dBm
#Atten 30 dB
-41.88 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-11.5
dBm
LgAv
Start 30 MHz
Stop 26.00 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.45 GHz 8.47 dBm
2 (1) Freq 25.52 GHz -41.88 dBm
Display
Full Screen
Display Line
-11.53 dBm
On Off
Limits
Active Fctn
Position
Top
Title
Preferences
Copyright 2000-2008 Agilent Technologies

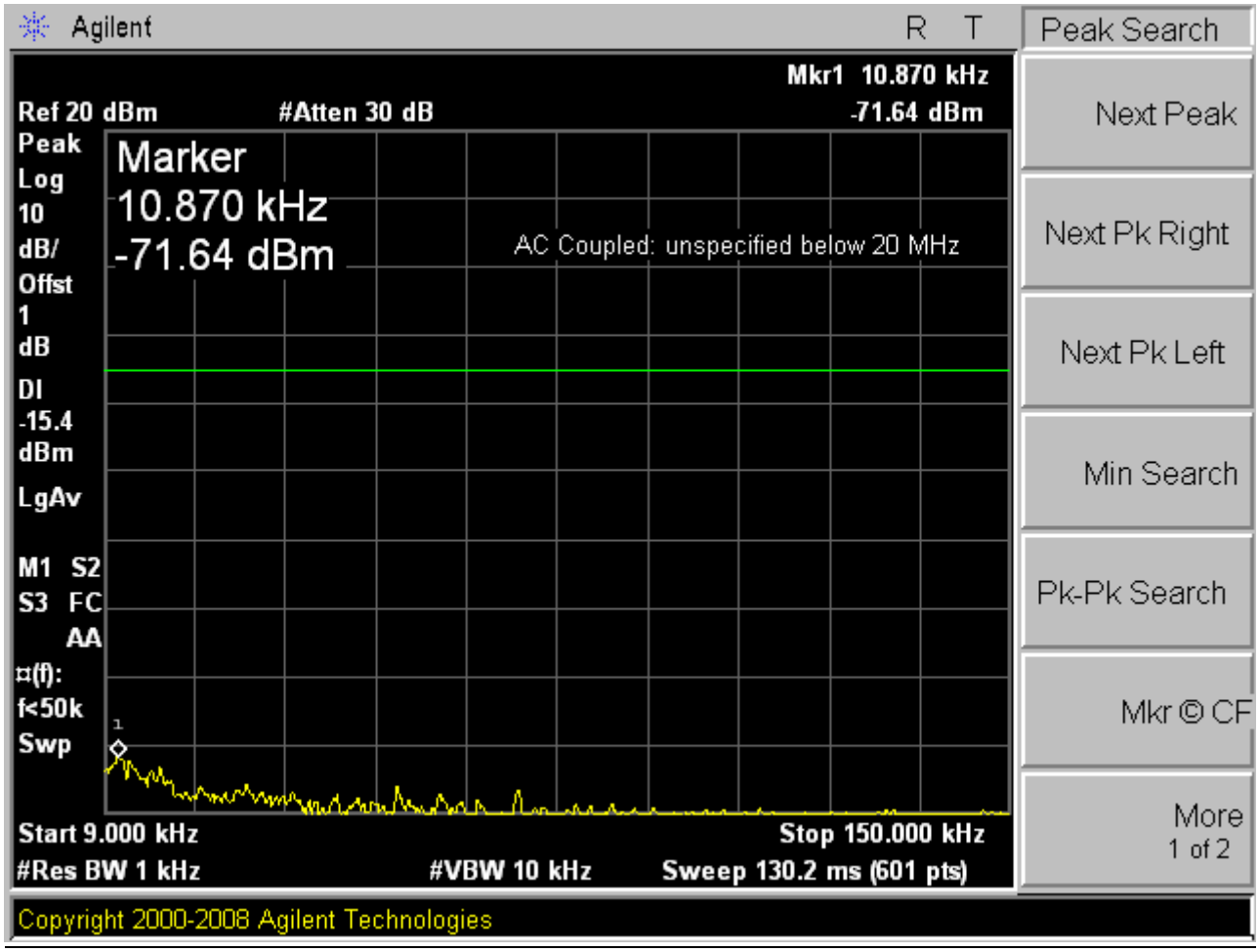
TM3
Channel 1

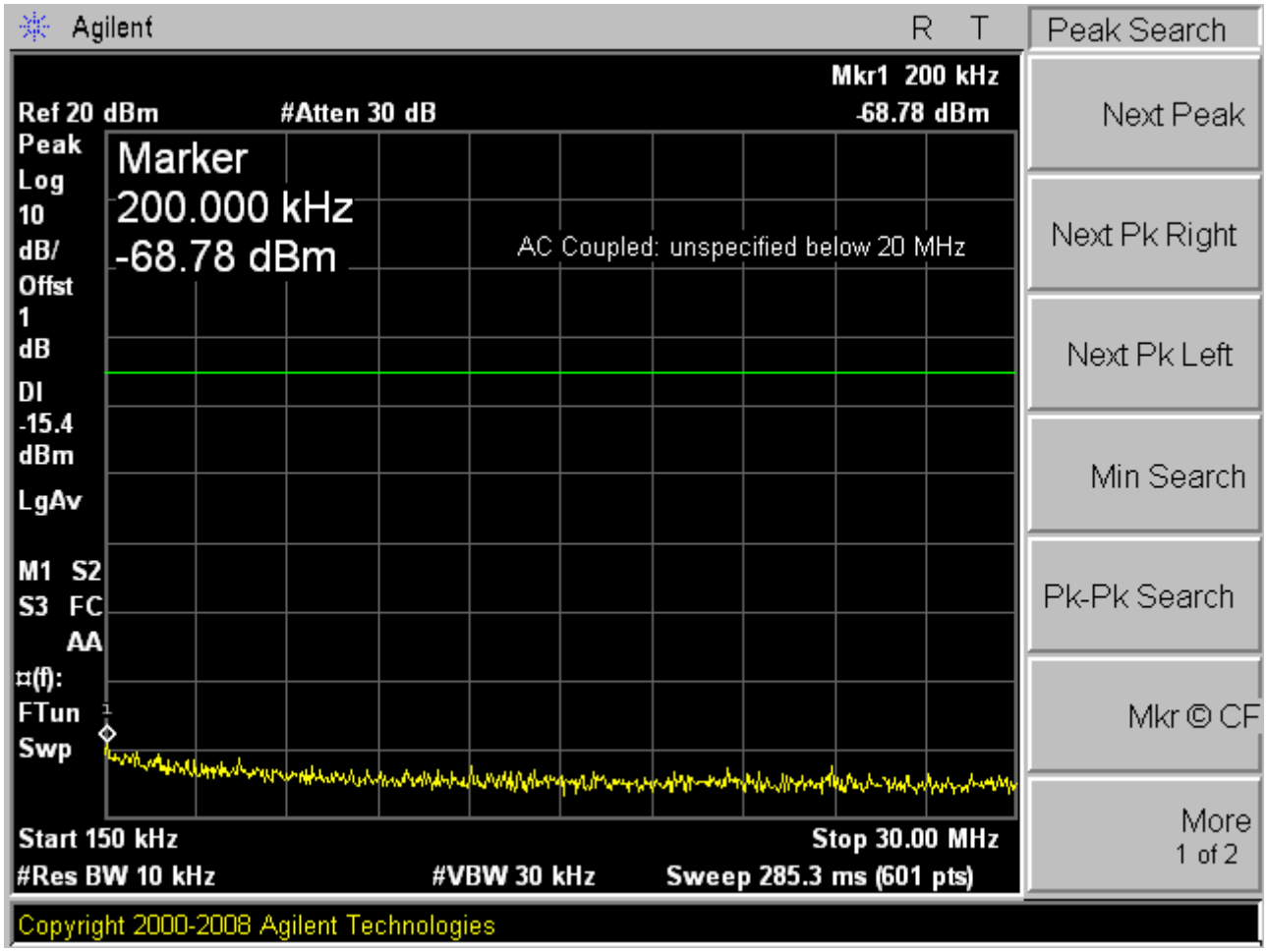


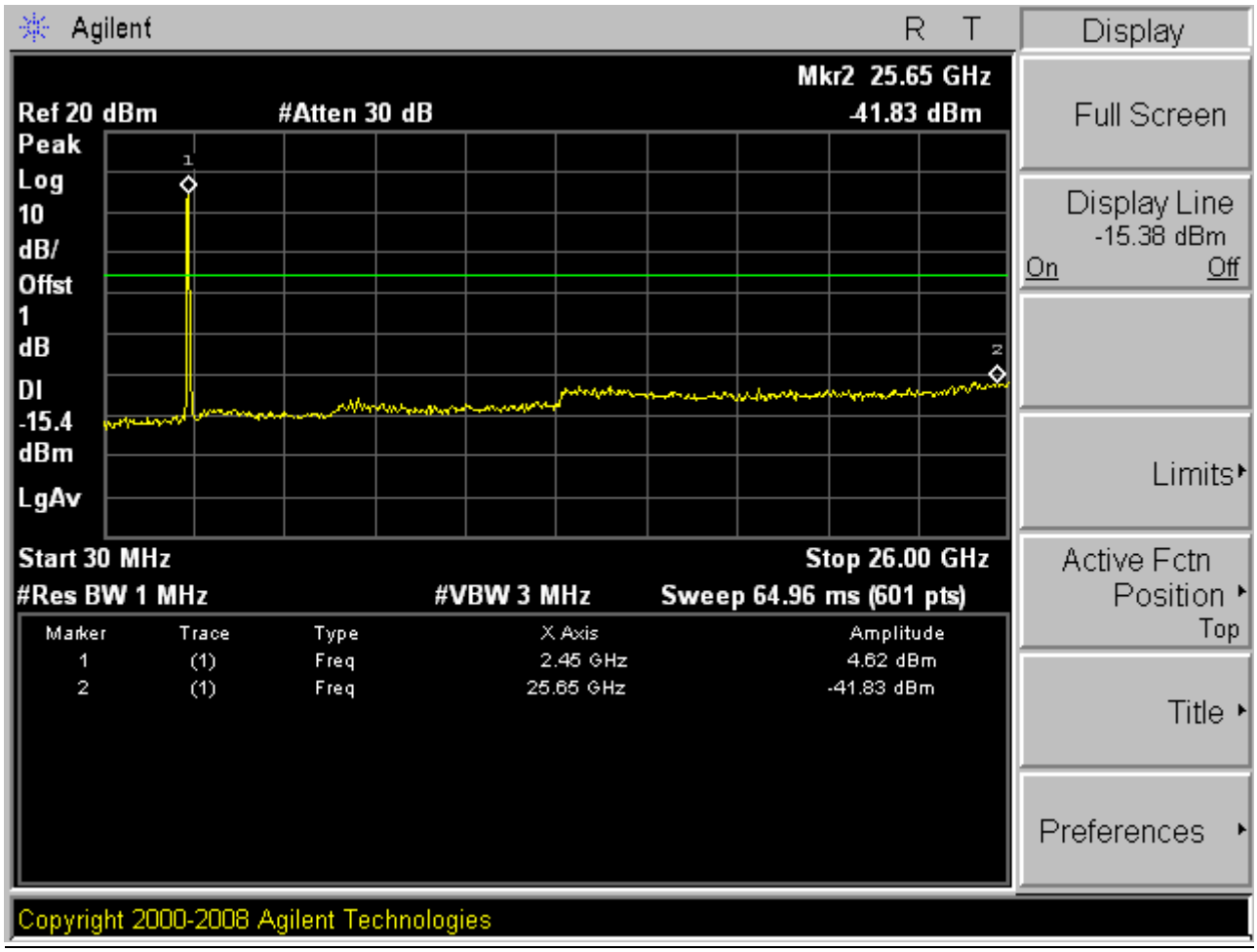

Agilent
R T
Peak Search
Mkr1 200 kHz
Ref 20 dBm
#Atten 30 dB
-68.91 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-15.2
dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
FTun
Swp
Marker
200.000 kHz
-68.91 dBm
AC Coupled: unspecified below 20 MHz
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Start 150 kHz
Stop 30.00 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
File Operation Status, C:\STATE102.STA file saved

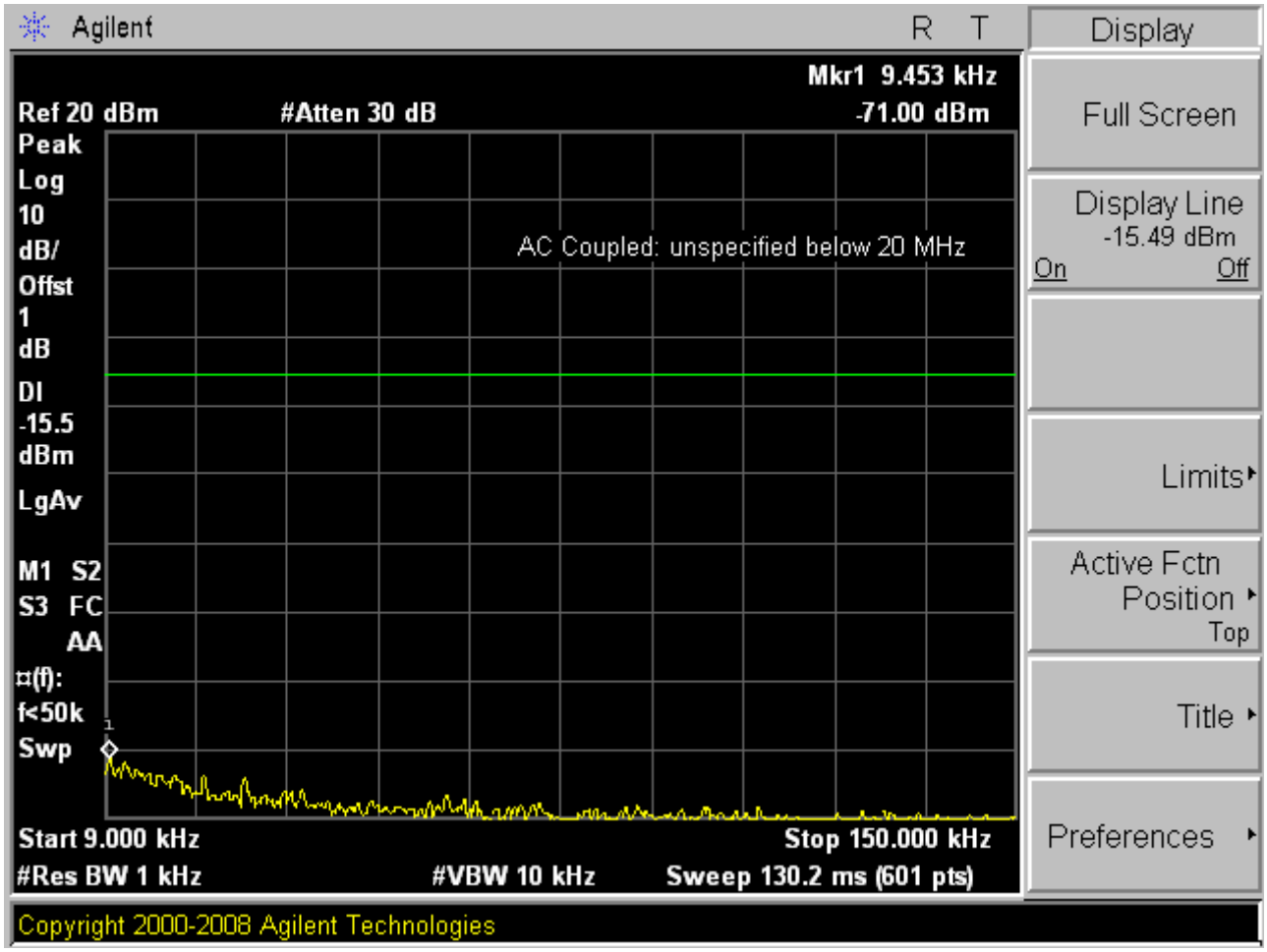

Agilent
R T
Mkr2 26.00 GHz
Ref 20 dBm
#Atten 30 dB
-42.11 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-15.2
dBm
LgAv
Start 30 MHz
Stop 26.00 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.41 GHz 4.84 dBm
2 (1) Freq 26.00 GHz -42.11 dBm
Display
Full Screen
Display Line
-15.16 dBm
On Off
Limits
Active Fctn
Position
Top
Title
Preferences
Copyright 2000-2008 Agilent Technologies

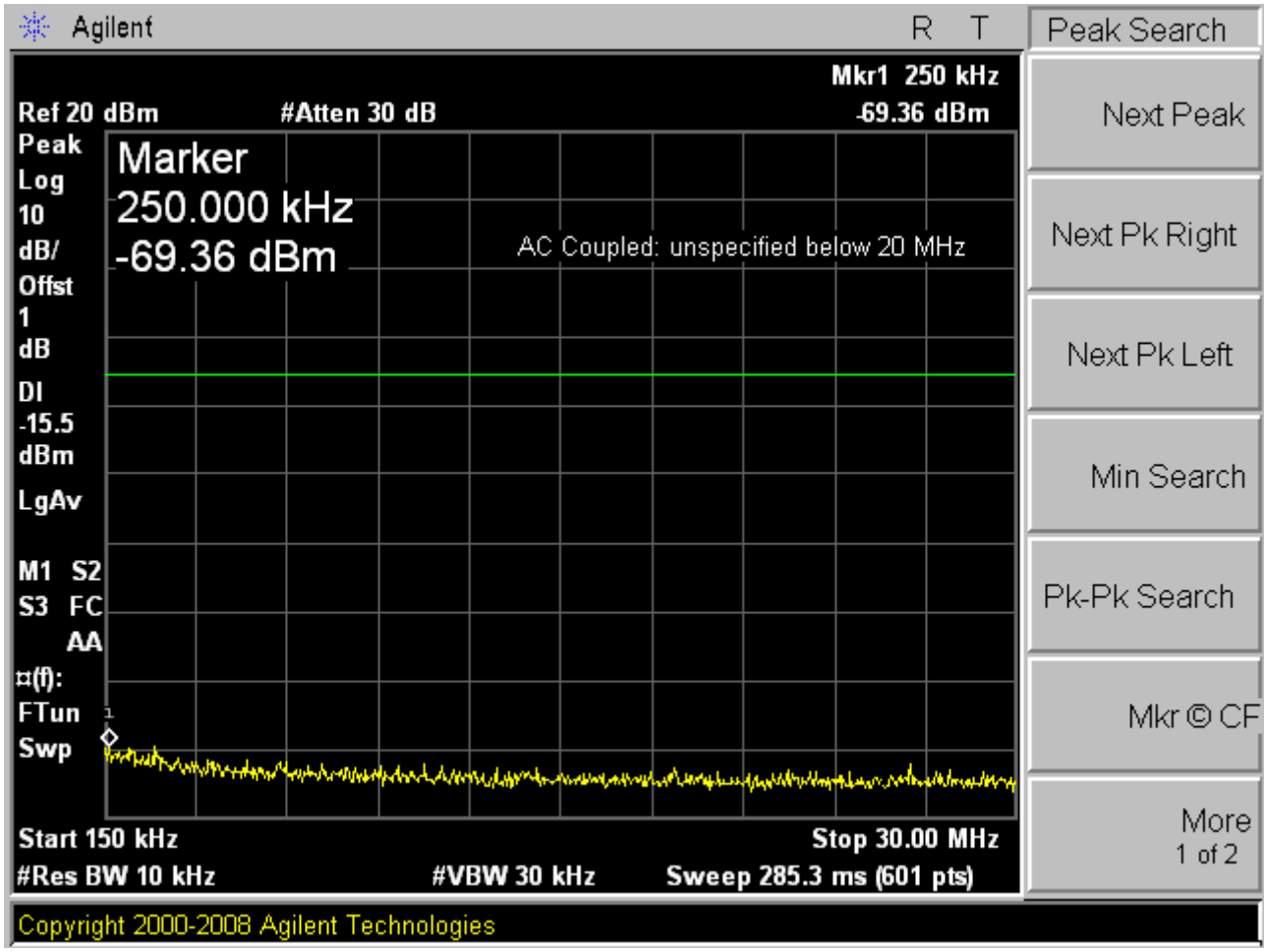
Channel 6

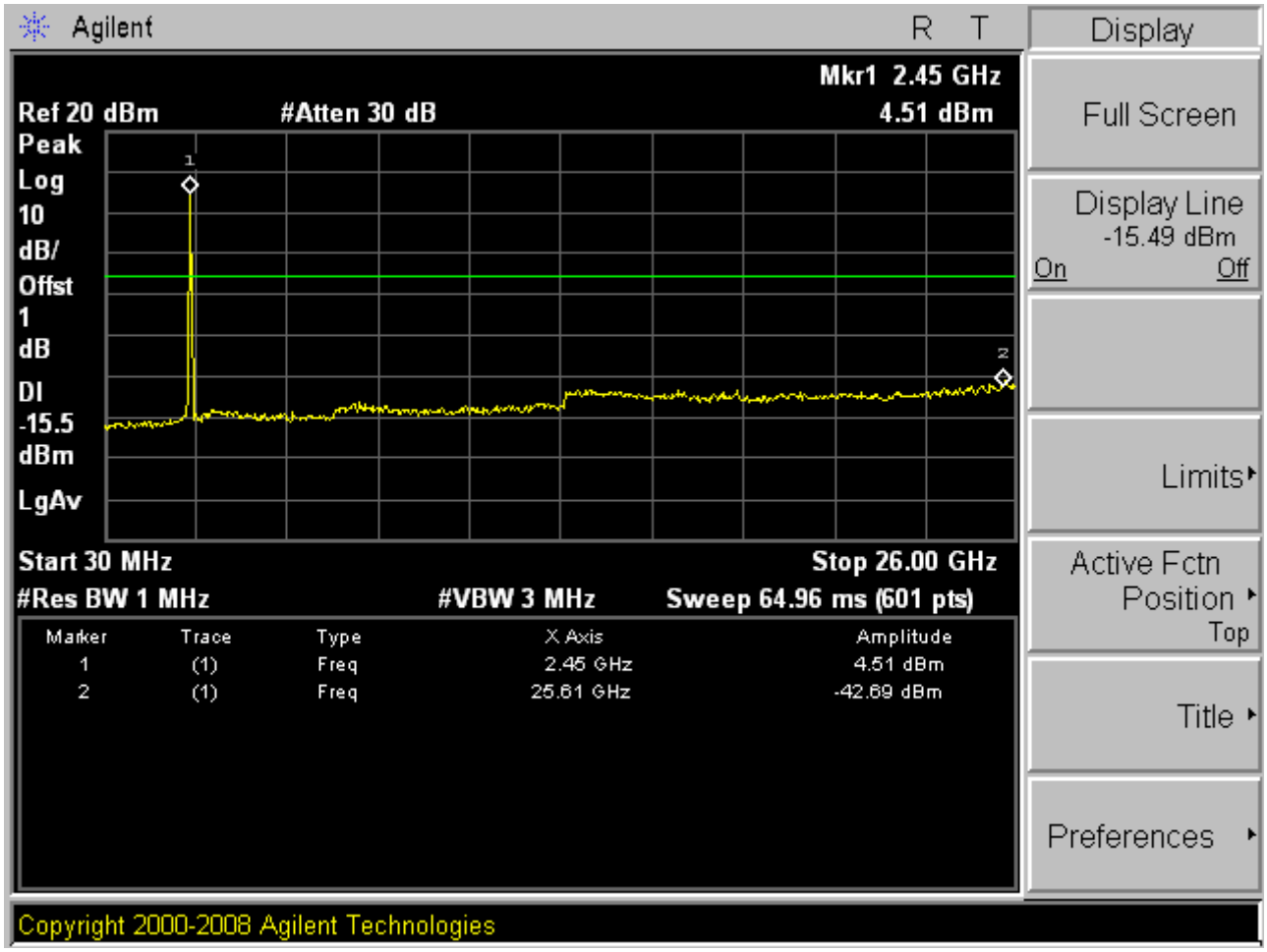

Agilent
R T
Peak Search
Mkr1 10.870 kHz
-71.64 dBm
Ref 20 dBm
#Atten 30 dB
Peak
Log
10
dB/
Offst
1
dB
Marker
10.870 kHz
-71.64 dBm
AC Coupled: unspecified below 20 MHz
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Dl
-15.4
dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
f<50k
Swp
Start 9.000 kHz
Stop 150.000 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
Copyright 2000-2008 Agilent Technologies


Agilent
R T
Peak Search
Mkr1 200 kHz
Ref 20 dBm
#Atten 30 dB
-68.78 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-15.4
dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
FTun
Swp
Marker
200.000 kHz
-68.78 dBm
AC Coupled: unspecified below 20 MHz
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Start 150 kHz
Stop 30.00 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
Copyright 2000-2008 Agilent Technologies


Agilent
R T
Mkr2 25.65 GHz
Ref 20 dBm
#Atten 30 dB
-41.83 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-15.4
dBm
LgAv
Start 30 MHz
Stop 26.00 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.45 GHz 4.62 dBm
2 (1) Freq 25.65 GHz -41.83 dBm
Display
Full Screen
Display Line
-15.38 dBm
On Off
Limits
Active Fctn
Position
Top
Title
Preferences
Copyright 2000-2008 Agilent Technologies


Agilent
R T
Mkr1 9.453 kHz
Ref 20 dBm
#Atten 30 dB
-71.00 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-15.5
dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
f<50k
Swp
AC Coupled: unspecified below 20 MHz
Start 9.000 kHz
Stop 150.000 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
Copyright 2000-2008 Agilent Technologies
Display
Full Screen
Display Line
-15.49 dBm
On
Off
Limits
Active Fctn
Position
Top
Title
Preferences


Agilent
R T
Peak Search
Mkr1 250 kHz
Ref 20 dBm
#Atten 30 dB
-69.36 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-15.5
dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
FTun
Swp
Marker
250.000 kHz
-69.36 dBm
AC Coupled: unspecified below 20 MHz
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Start 150 kHz
Stop 30.00 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
Copyright 2000-2008 Agilent Technologies

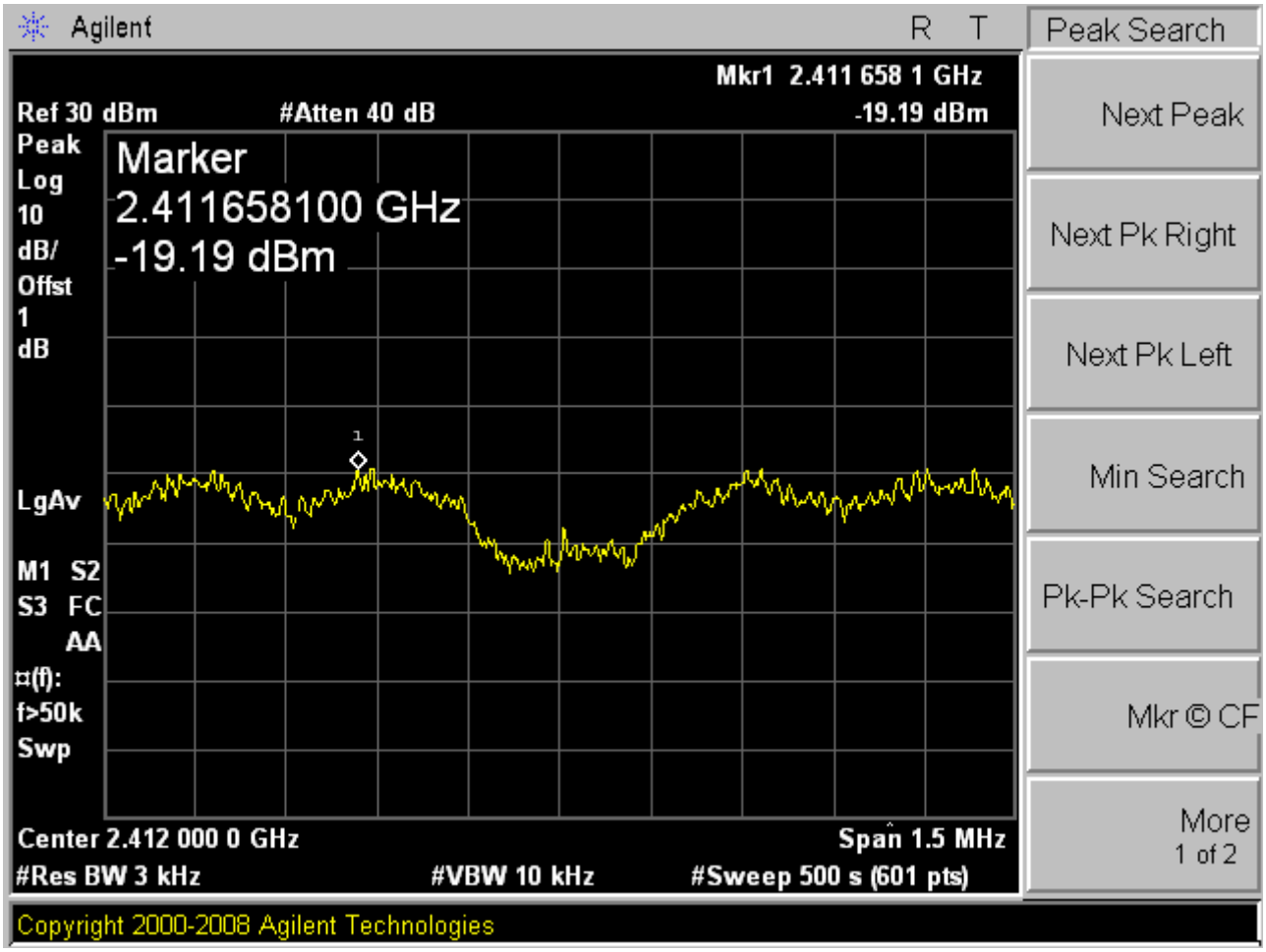

Agilent
R T
Mkr1 2.45 GHz
4.51 dBm
Ref 20 dBm
#Atten 30 dB
Peak
Log
10
dB/
Offst
1
dB
Dl
-15.5
dBm
LgAv
Start 30 MHz
Stop 26.00 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.45 GHz 4.51 dBm
2 (1) Freq 25.61 GHz -42.69 dBm
Display
Full Screen
Display Line
-15.49 dBm
On Off
Limits
Active Fctn
Position
Top
Title
Preferences
Copyright 2000-2008 Agilent Technologies

Appendix E

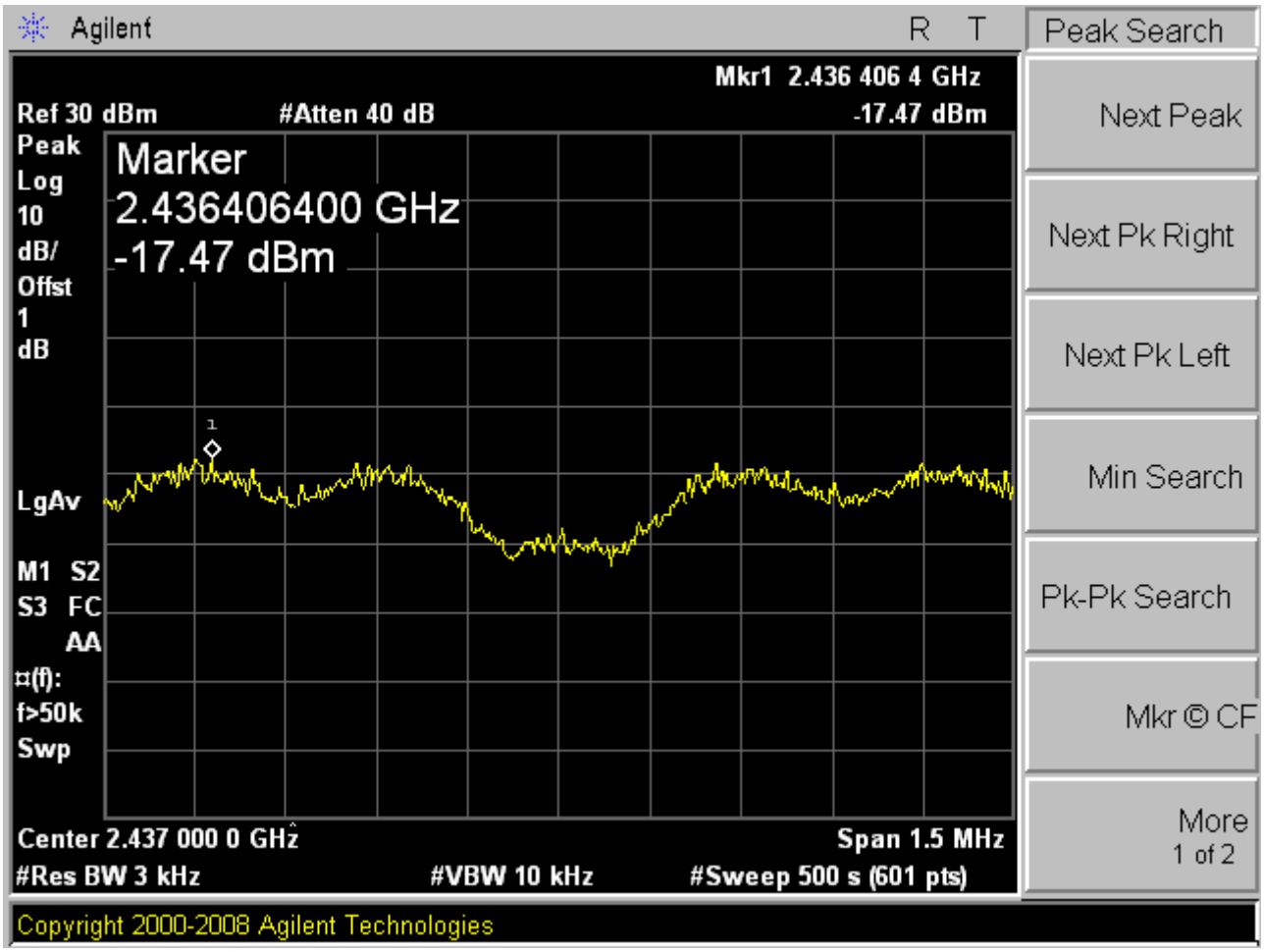
Power spectral density

According to FCC Part 15.247 (e)

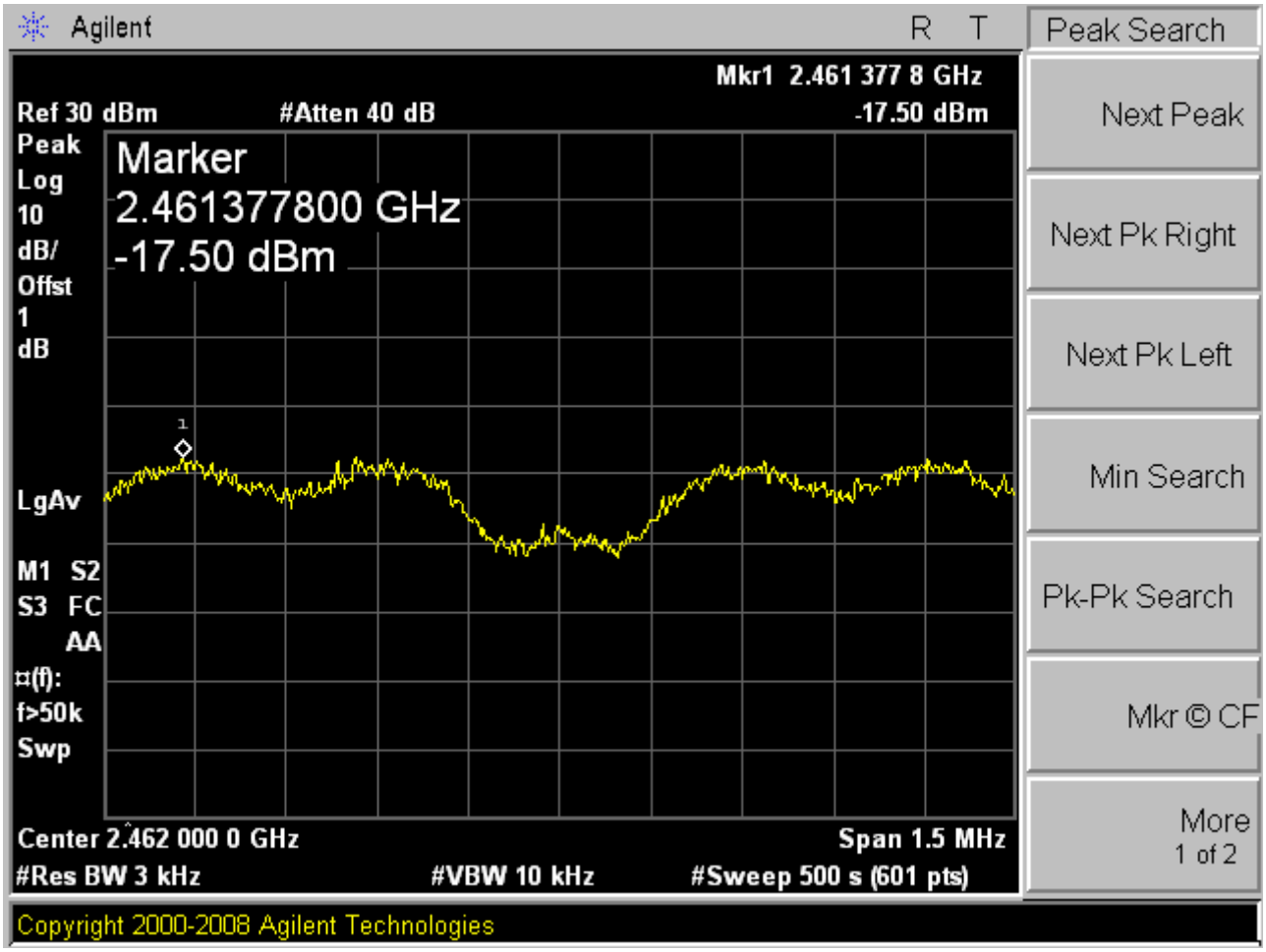
TM1
Channel 1



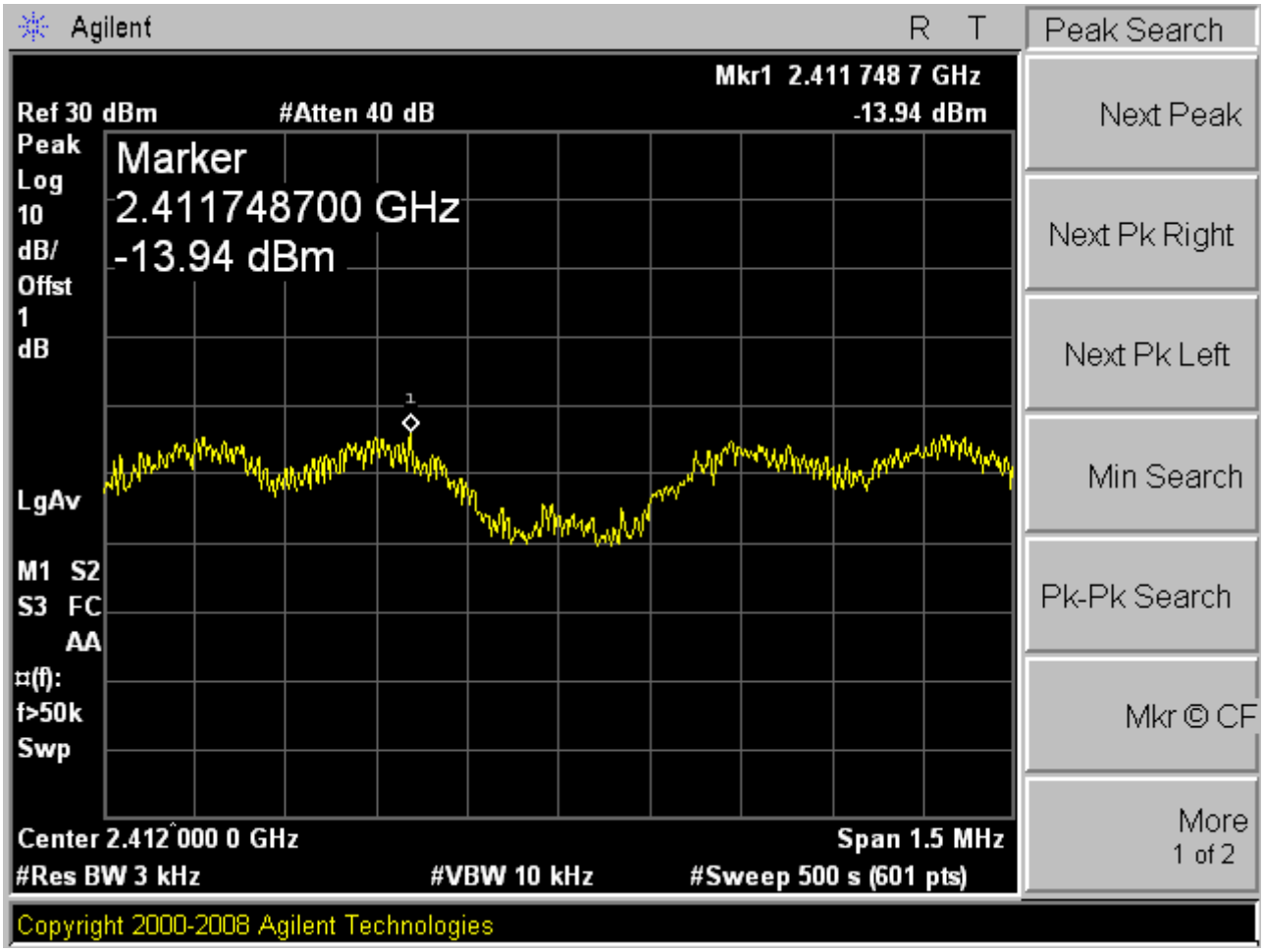
Channel 6


Agilent
R T
Peak Search
Mkr1 2.436 406 4 GHz
Ref 30 dBm
#Atten 40 dB
-17.47 dBm
Peak
Log
10
dB/
Offst
1
dB
Marker
2.436406400 GHz
-17.47 dBm
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
LgAv
M1 S2
S3 FC
AA
¤(f):
f>50k
Swp
Center 2.437 000 0 GHz
Span 1.5 MHz
#Res BW 3 kHz
#VBW 10 kHz
#Sweep 500 s (601 pts)
Copyright 2000-2008 Agilent Technologies

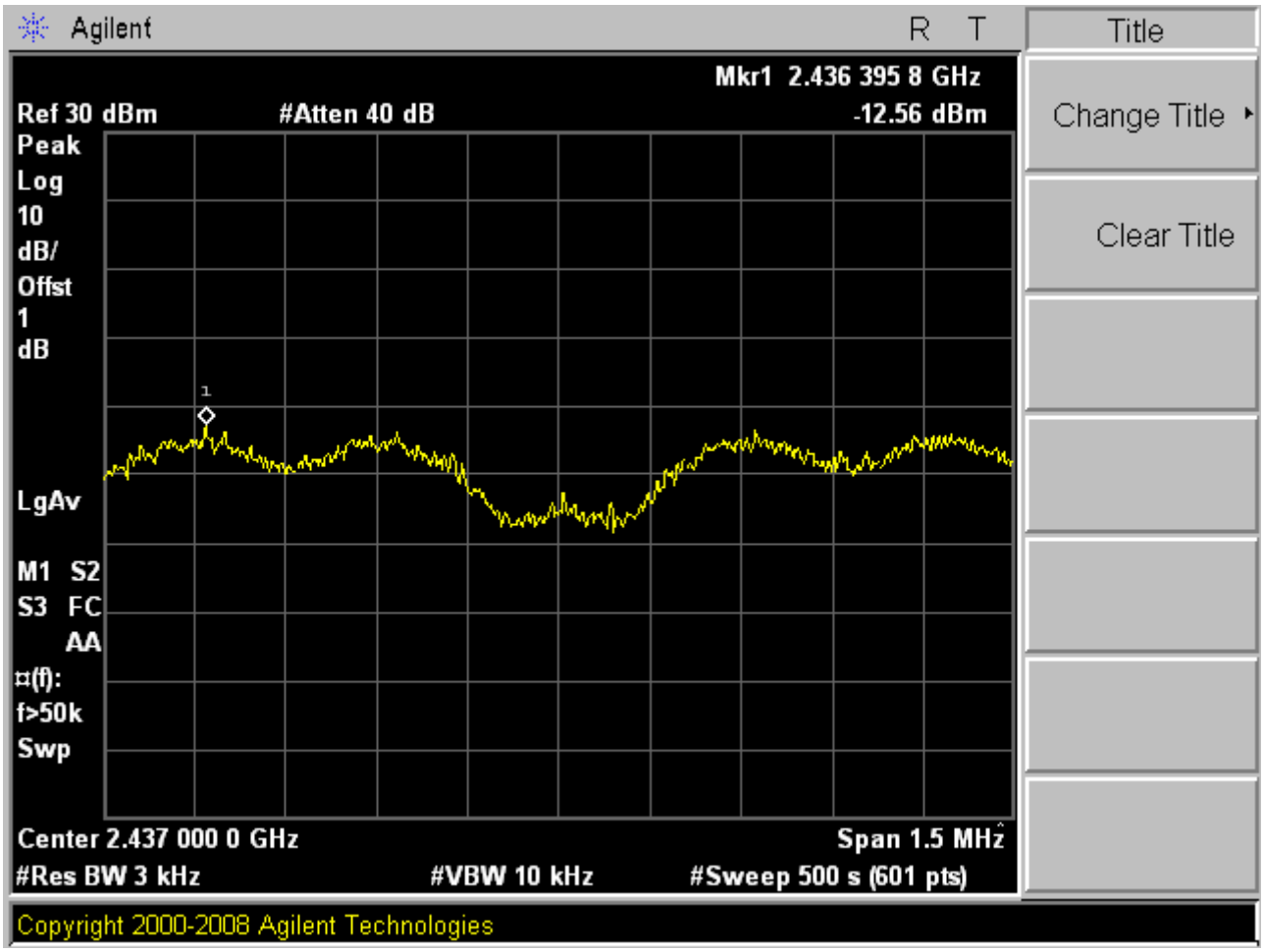
Channel 11


Agilent
R T
Peak Search
Mkr1 2.461 377 8 GHz
Ref 30 dBm
#Atten 40 dB
-17.50 dBm
Peak
Log
10
dB/
Offst
1
dB
Marker
2.461377800 GHz
-17.50 dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
f>50k
Swp
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr © CF
More
1 of 2
Center 2.462 000 0 GHz
Span 1.5 MHz
#Res BW 3 kHz
#VBW 10 kHz
#Sweep 500 s (601 pts)
Copyright 2000-2008 Agilent Technologies

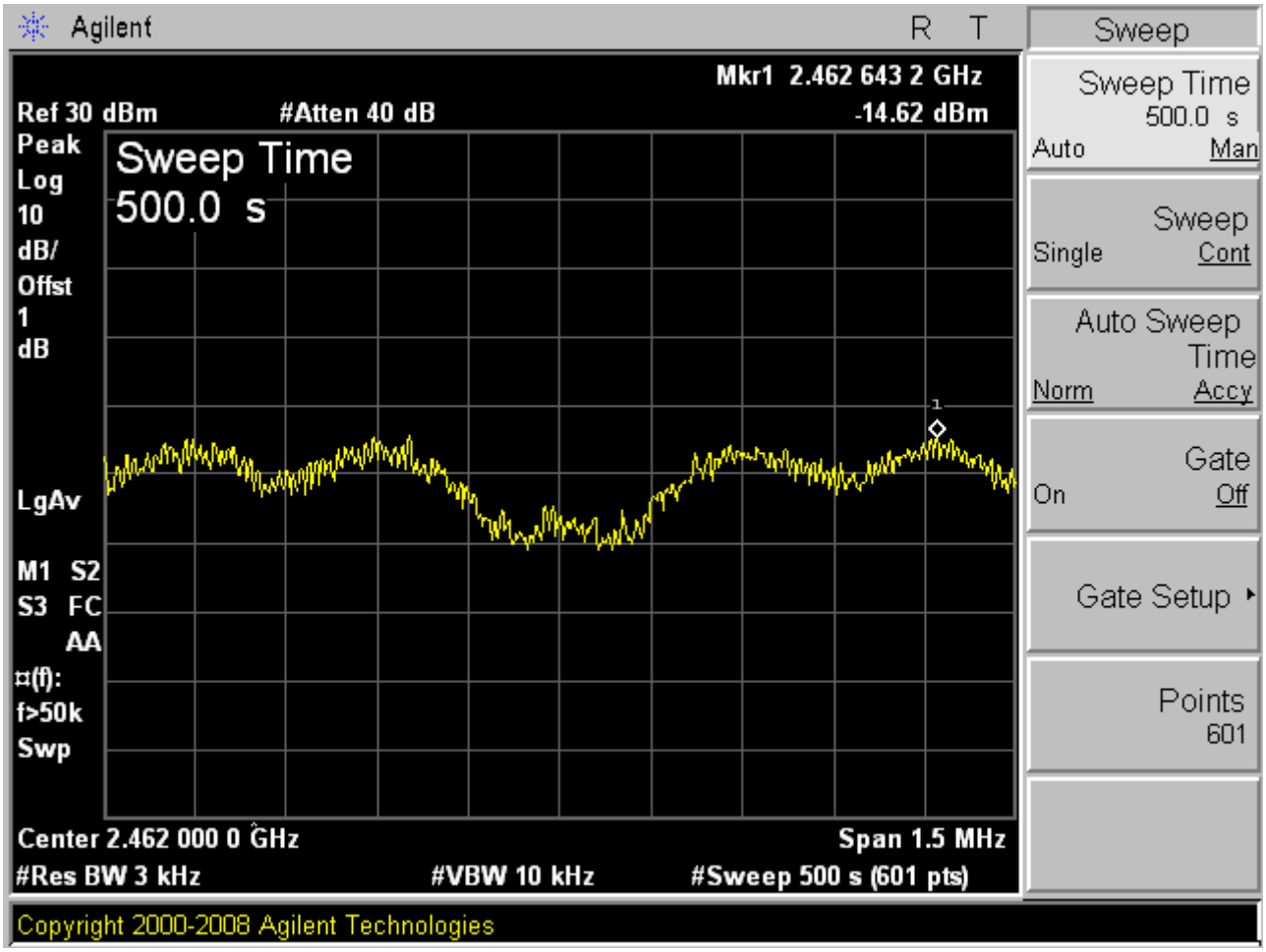
TM2
Channel 1



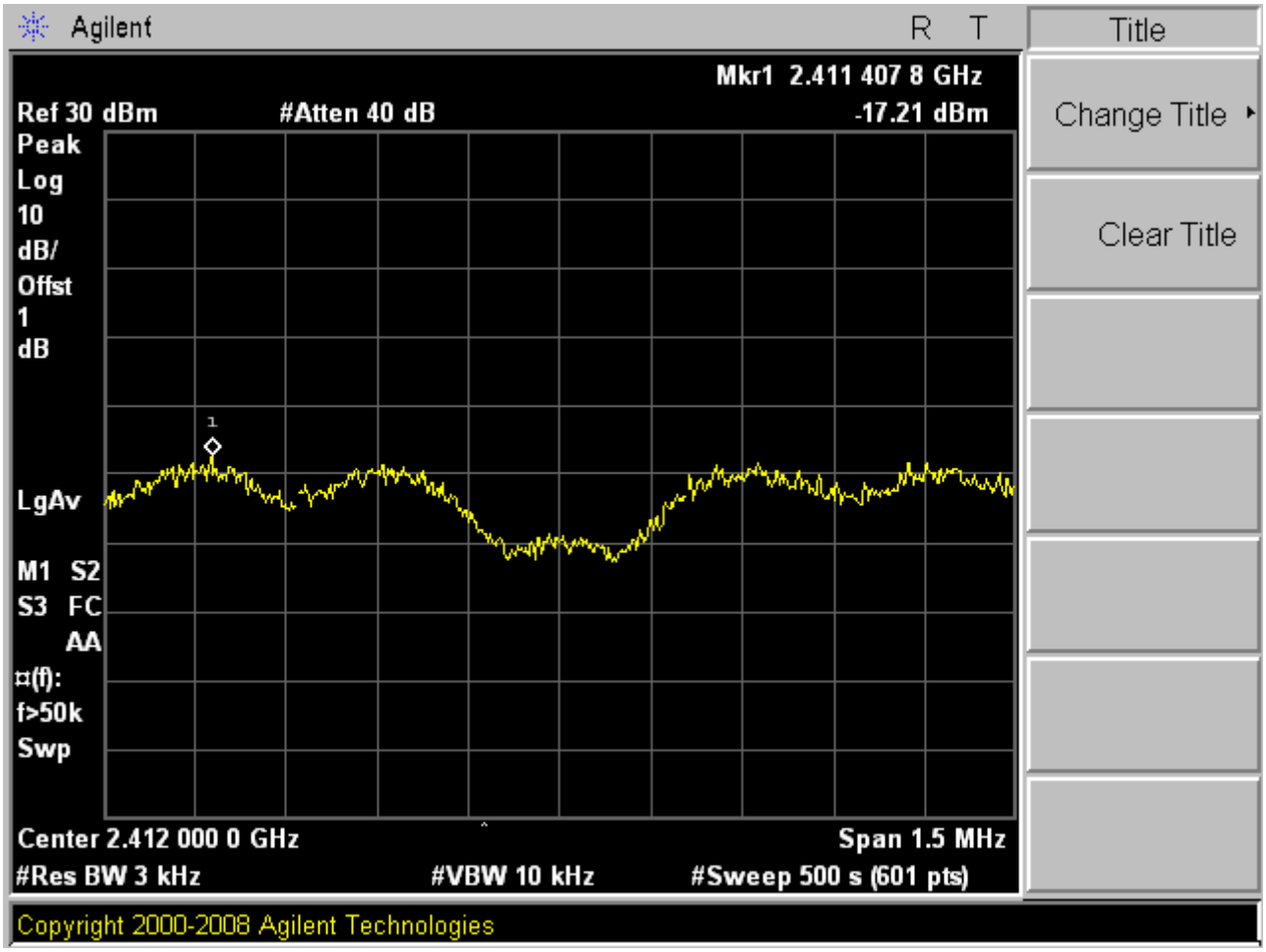
Channel 6


Agilent
R T
Title
Mkr1 2.436 395 8 GHz
Ref 30 dBm
#Atten 40 dB
-12.56 dBm
Peak
Log
10
dB/
Offst
1
dB
LgAv
M1 S2
S3 FC
AA
¤(f):
f>50k
Swp
Center 2.437 000 0 GHz
Span 1.5 MHz
#Res BW 3 kHz
#VBW 10 kHz
#Sweep 500 s (601 pts)
Change Title
Clear Title
Copyright 2000-2008 Agilent Technologies

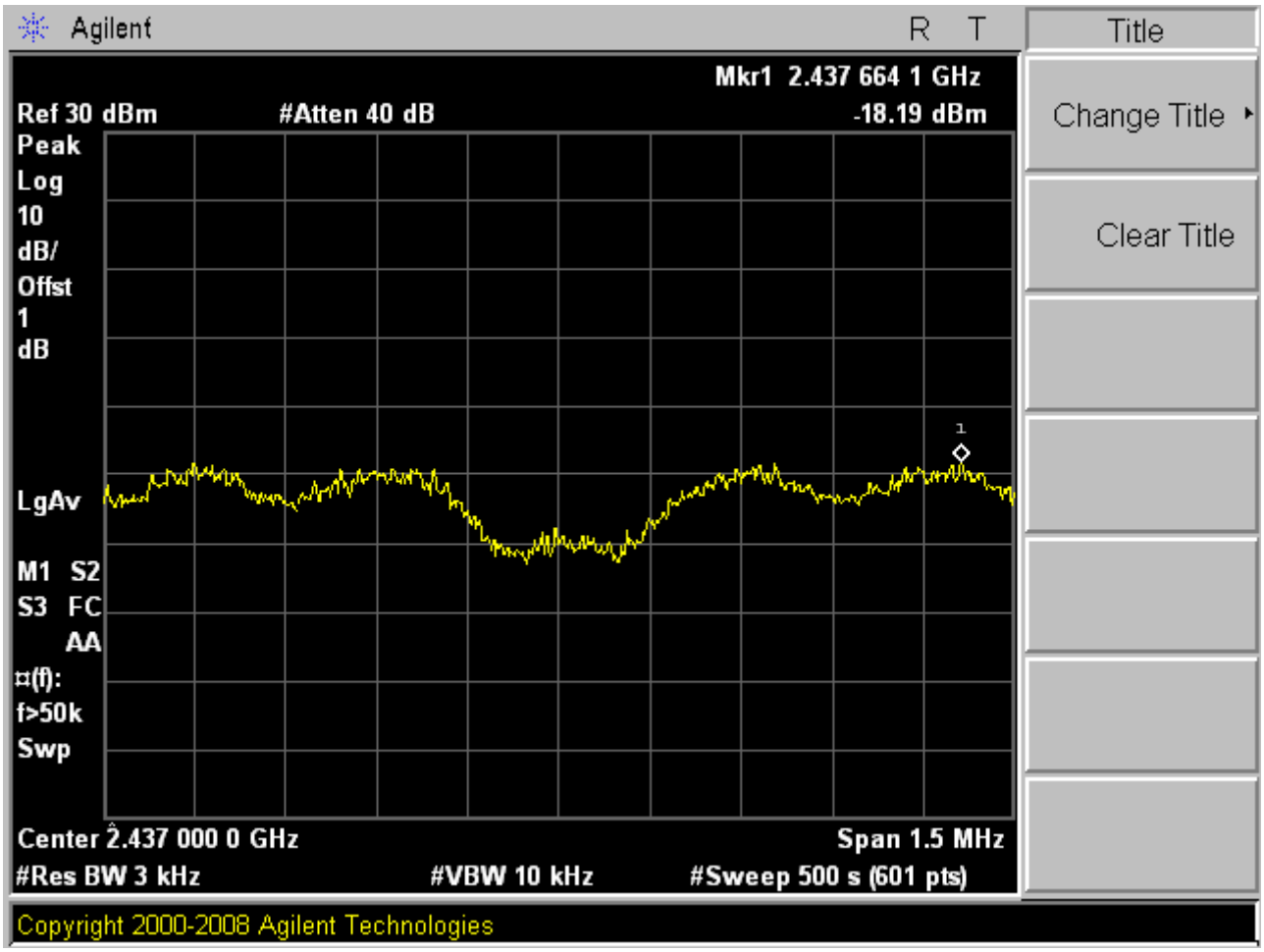
Channel 11


Agilent
R T
Sweep
Mkr1 2.462 643 2 GHz
Ref 30 dBm
#Atten 40 dB
-14.62 dBm
Peak
Log
10
dB/
Offst
1
dB
Sweep Time
500.0 s
LgAv
M1 S2
S3 FC
AA
¤(f):
f>50k
Swp
Sweep Time
500.0 s
Auto Man
Sweep
Single Cont
Auto Sweep Time
Norm Accy
Gate
On Off
Gate Setup
Points
601
Center 2.462 000 0 GHz
Span 1.5 MHz
#Res BW 3 kHz
#VBW 10 kHz
#Sweep 500 s (601 pts)
Copyright 2000-2008 Agilent Technologies

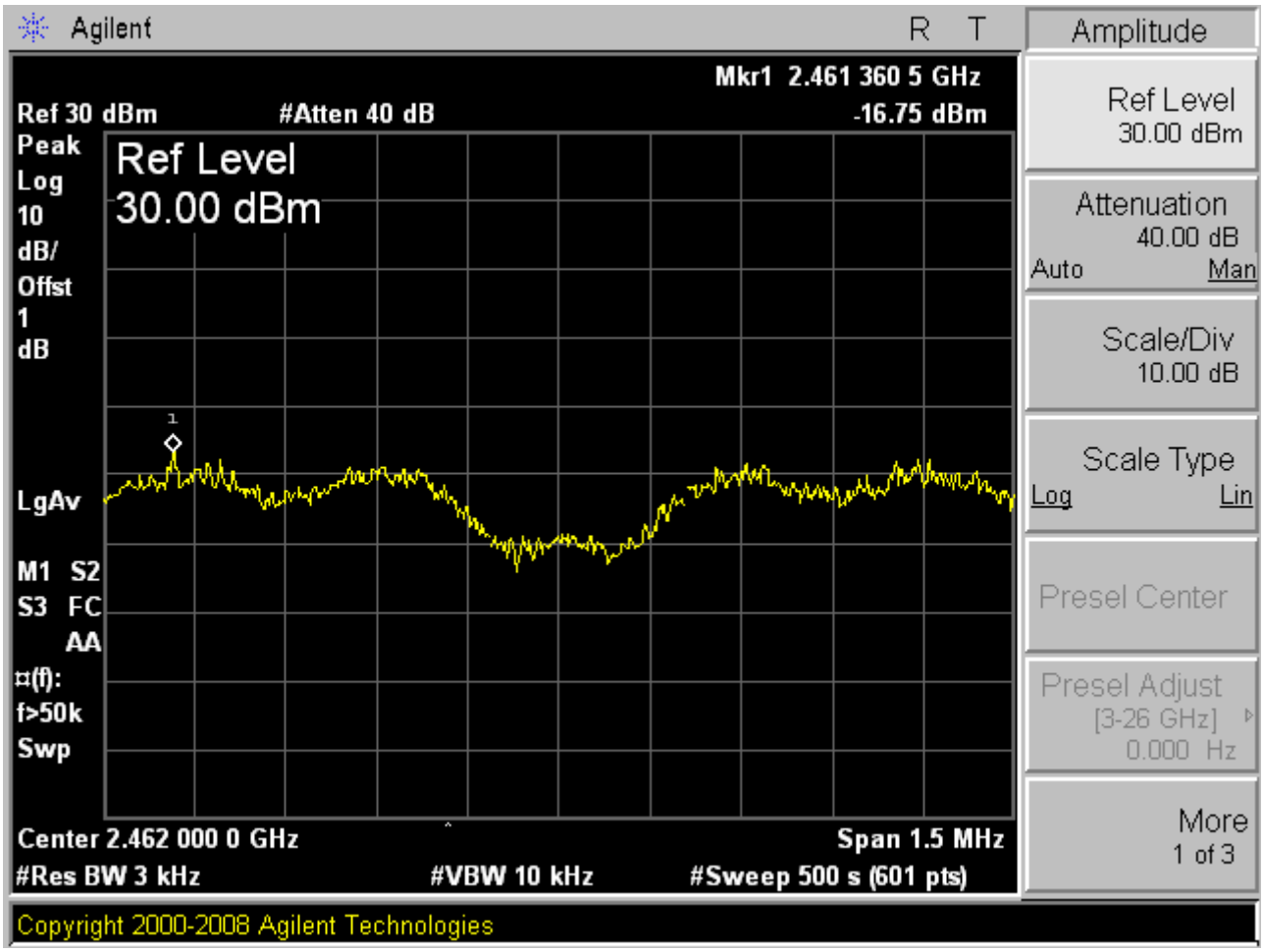
TM3
Channel 1



Channel 6


Agilent
R T
Title
Mkr1 2.437 664 1 GHz
Ref 30 dBm
#Atten 40 dB
-18.19 dBm
Peak
Log
10
dB/
Offst
1
dB
LgAv
M1 S2
S3 FC
AA
¤(f):
f>50k
Swp
Center 2.437 000 0 GHz
Span 1.5 MHz
#Res BW 3 kHz
#VBW 10 kHz
#Sweep 500 s (601 pts)
Change Title
Clear Title
Copyright 2000-2008 Agilent Technologies

Channel 11


Agilent
R T
Mkr1 2.461 360 5 GHz
Ref 30 dBm
#Atten 40 dB
-16.75 dBm
Peak
Log
10
dB/
Offst
1
dB
Ref Level
30.00 dBm
LgAv
M1 S2
S3 FC
AA
¤(f):
f>50k
Swp
Center 2.462 000 0 GHz
Span 1.5 MHz
#Res BW 3 kHz
#VBW 10 kHz
#Sweep 500 s (601 pts)
Amplitude
Ref Level
30.00 dBm
Attenuation
40.00 dB
Auto
Man
Scale/Div
10.00 dB
Scale Type
Log
Lin
Presel Center
Presel Adjust
[3-26 GHz]
0.000 Hz
More
1 of 3
Copyright 2000-2008 Agilent Technologies

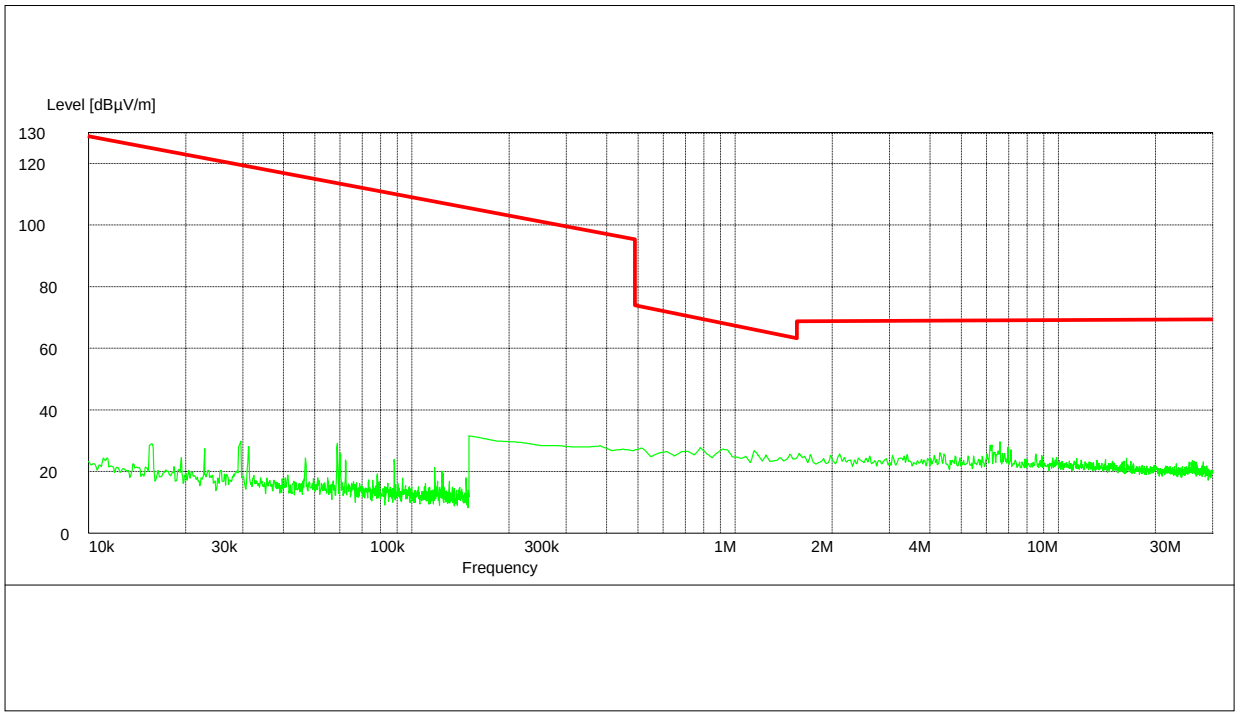
Appendix F

Radiated spurious emission
& spurious in restricted band

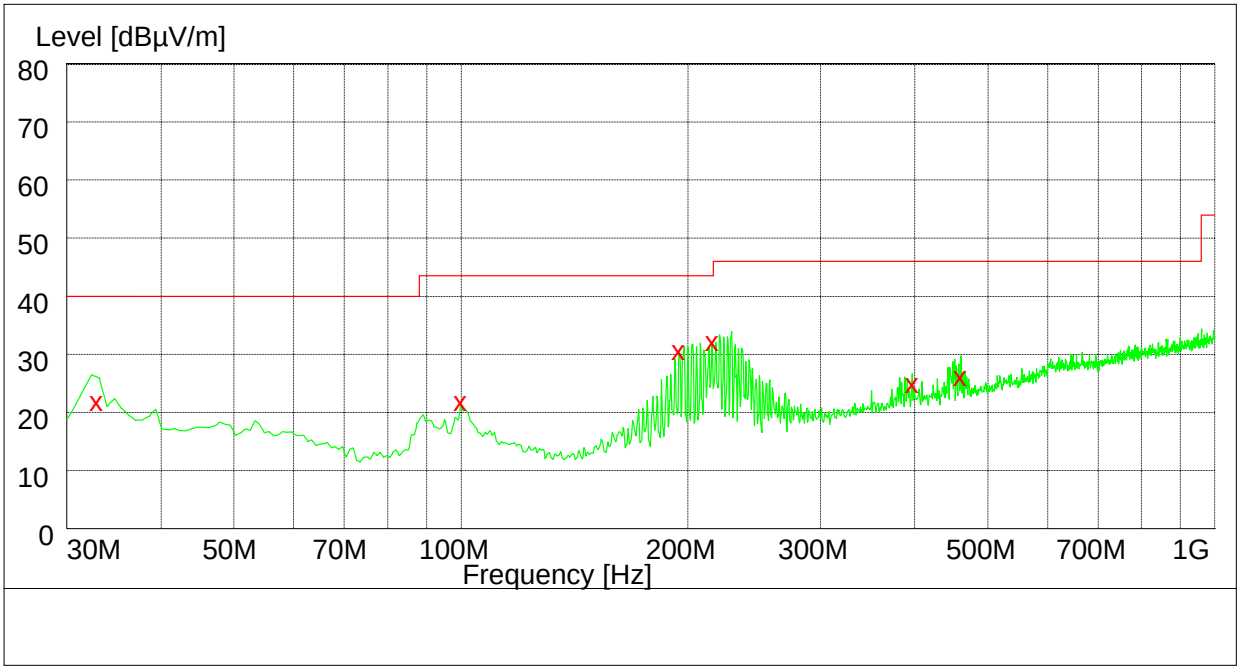
According to FCC Part 15.247 (d) & 15.205 & 15.209

Note: This test was carried out in all the test modes, here only the worst test result was shown.

Channel 1
10kHz to 30MHz

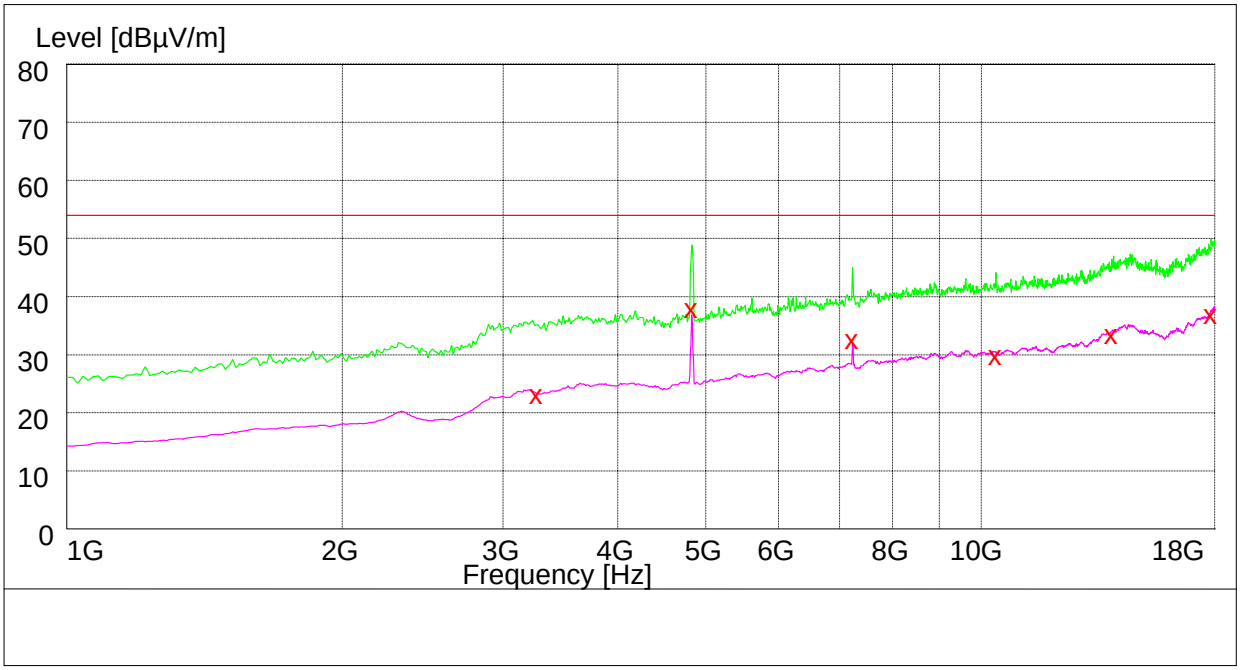


30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
32.880000	21.60	11.7	40.0	18.4	100.0	360.00	HORIZONTAL
100.020000	21.70	13.1	43.5	21.8	247.0	27.00	VERTICAL
195.000000	30.50	12.0	43.5	13.0	148.0	88.00	VERTICAL
215.520000	32.40	12.8	43.5	11.1	152.0	88.00	VERTICAL
397.680000	25.20	18.1	46.0	20.8	247.0	0.00	VERTICAL
460.560000	26.30	19.0	46.0	19.7	163.0	343.00	VERTICAL

1GHz to 18GHz



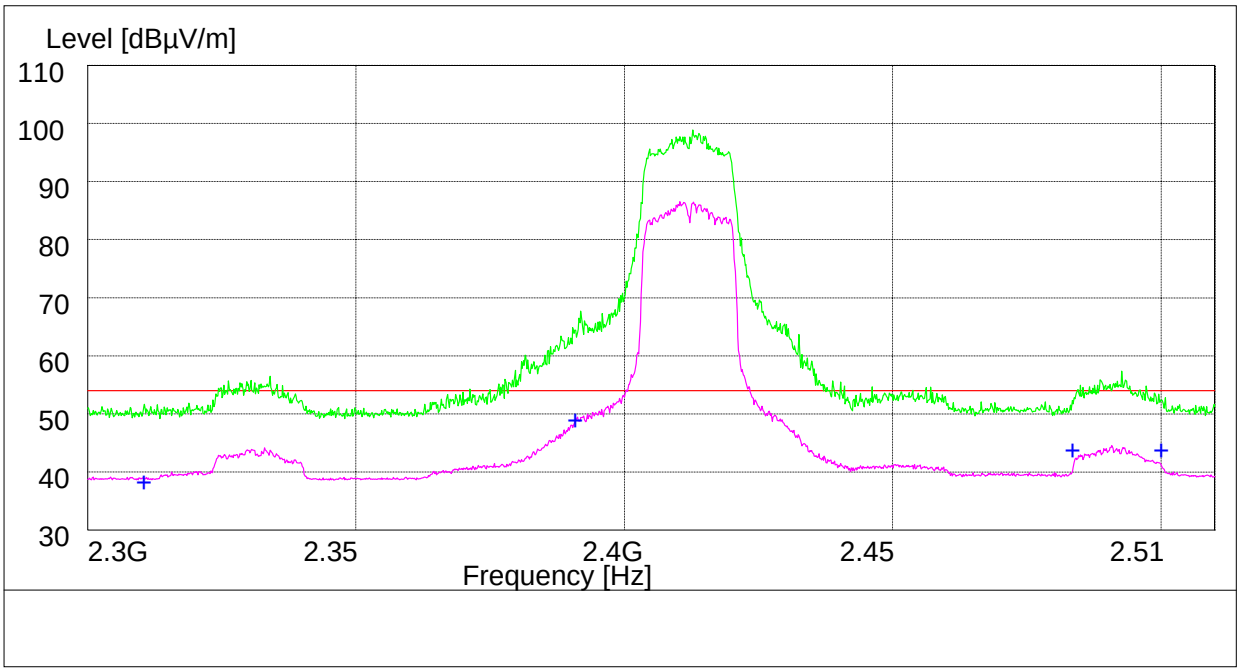
Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3265.500000	23.20	-8.1	54.0	30.8	103.0	99.00	VERTICAL
4824.000000	38.10	-4.1	54.0	15.9	178.0	358.00	VERTICAL
7234.500000	32.80	0.6	54.0	21.2	171.0	18.00	HORIZONTAL
10373.000000	29.90	5.4	54.0	24.1	103.0	249.00	VERTICAL
13890.000000	33.60	10.6	54.0	20.4	128.0	349.00	HORIZONTAL
17833.500000	37.00	16.2	54.0	17.0	179.0	178.00	HORIZONTAL

18GHz to 26GHz

Note: No peak found in pre- test.

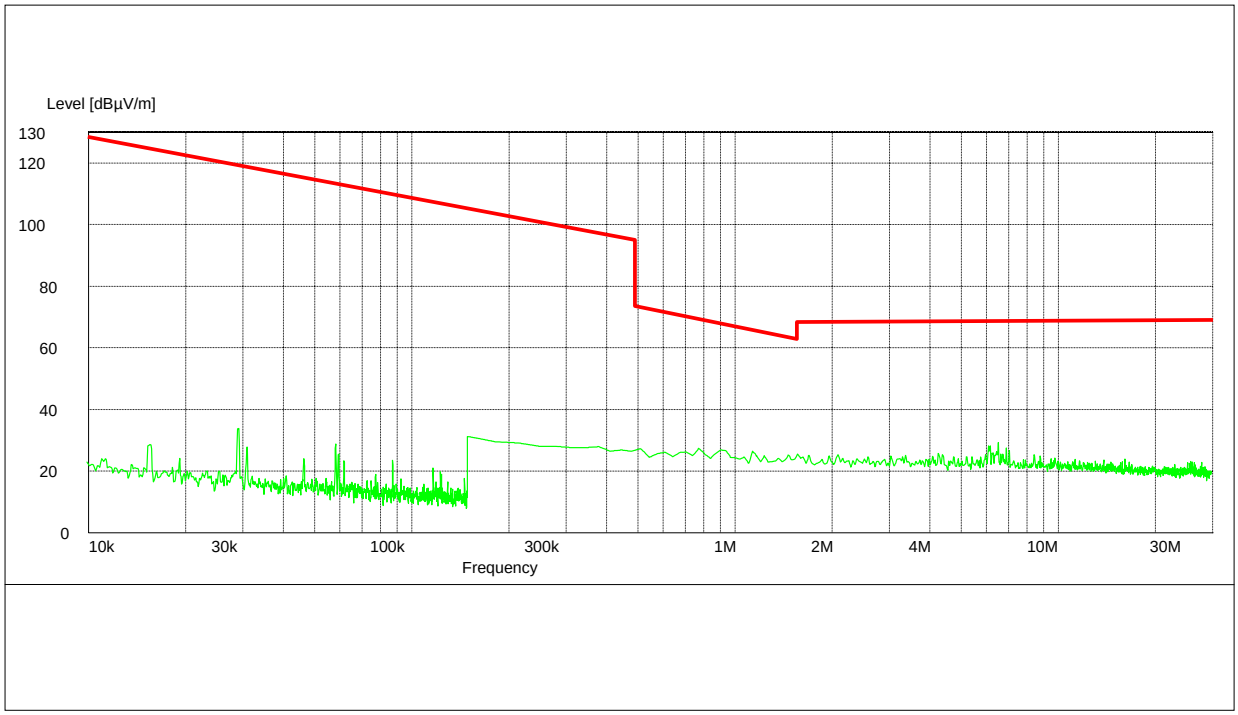
2GHz to 3GHz



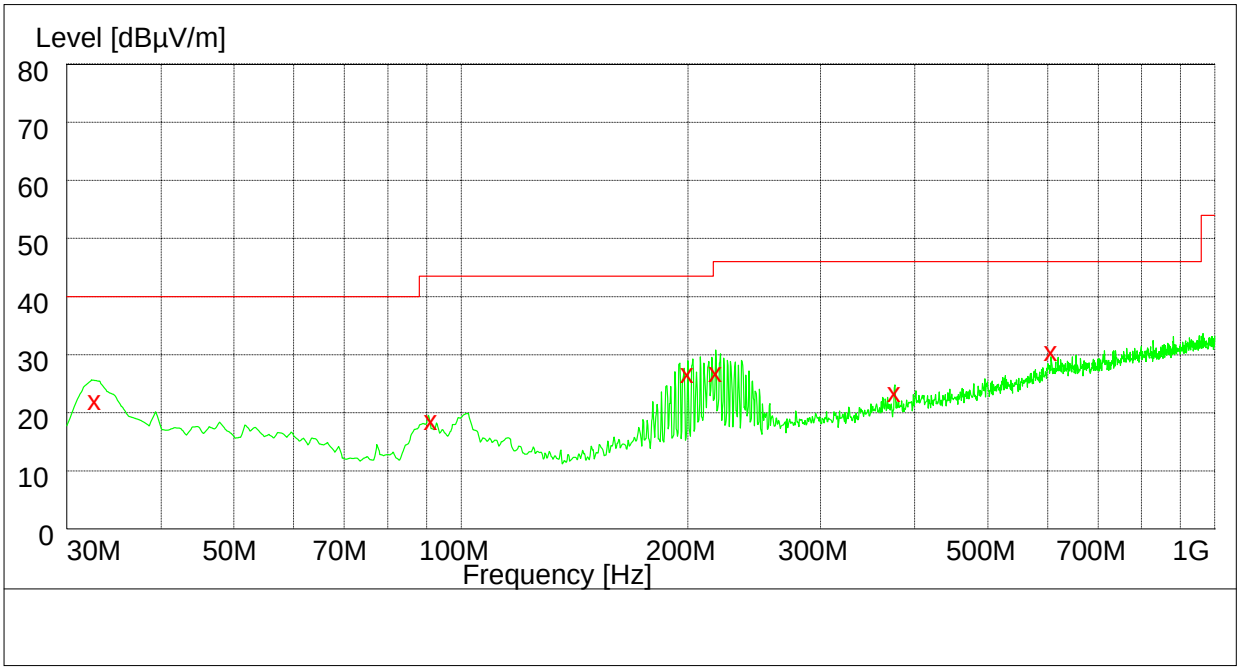
Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.40	33.3	54.0	15.6	100.0	359.00	HORIZONTAL
2390.000000	49.00	33.5	54.0	5.0	100.0	349.00	HORIZONTAL
2483.500000	44.80	33.8	54.0	9.2	147.0	42.00	VERTICAL
2500.000000	44.90	33.8	54.0	9.1	146.0	41.00	VERTICAL

Channel 6
10 kHz to 30MHz

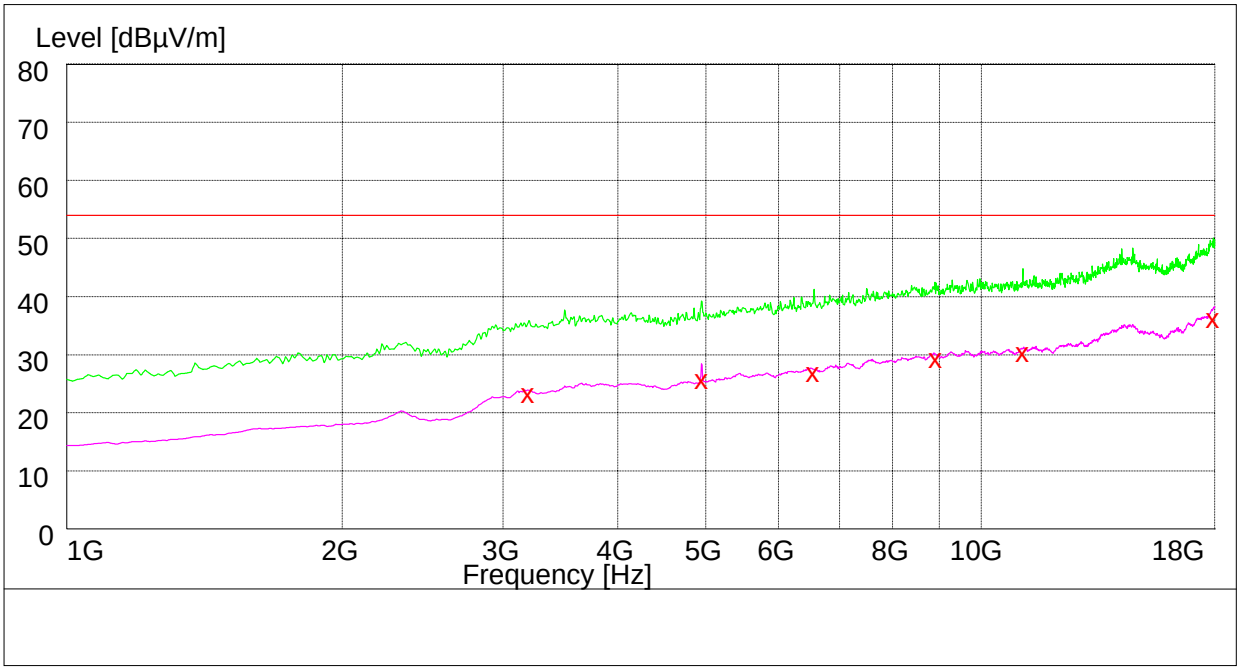


30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
32.700000	22.00	11.7	40.0	18.0	140.0	28.00	HORIZONTAL
91.380000	18.80	12.0	43.5	24.7	137.0	153.00	VERTICAL
200.160000	27.90	12.1	43.5	15.6	225.0	341.00	HORIZONTAL
218.040000	28.00	12.9	46.0	18.0	173.0	70.00	VERTICAL
376.500000	24.70	17.6	46.0	21.3	201.0	329.00	HORIZONTAL
606.780000	30.40	22.6	46.0	15.6	163.0	245.00	HORIZONTAL

1GHz to 18GHz



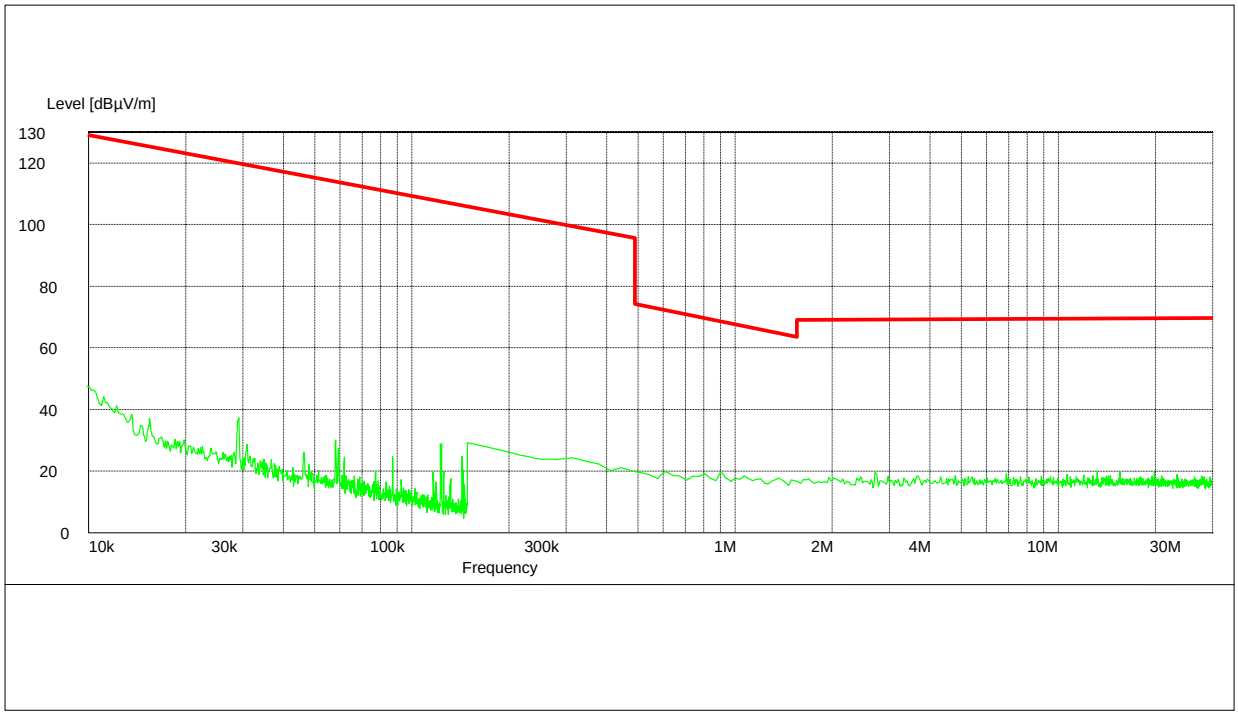
Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3197.000000	23.50	-8.3	54.0	30.5	123.0	44.00	VERTICAL
4947.000000	25.80	-3.8	54.0	28.2	190.0	316.00	VERTICAL
6558.500000	27.00	-0.9	54.0	27.0	149.0	34.00	VERTICAL
8924.500000	29.50	4.0	54.0	24.5	146.0	322.00	HORIZONTAL
11110.500000	30.60	6.9	54.0	23.4	200.0	45.00	HORIZONTAL
17933.500000	37.40	16.9	54.0	16.6	112.0	26.00	HORIZONTAL

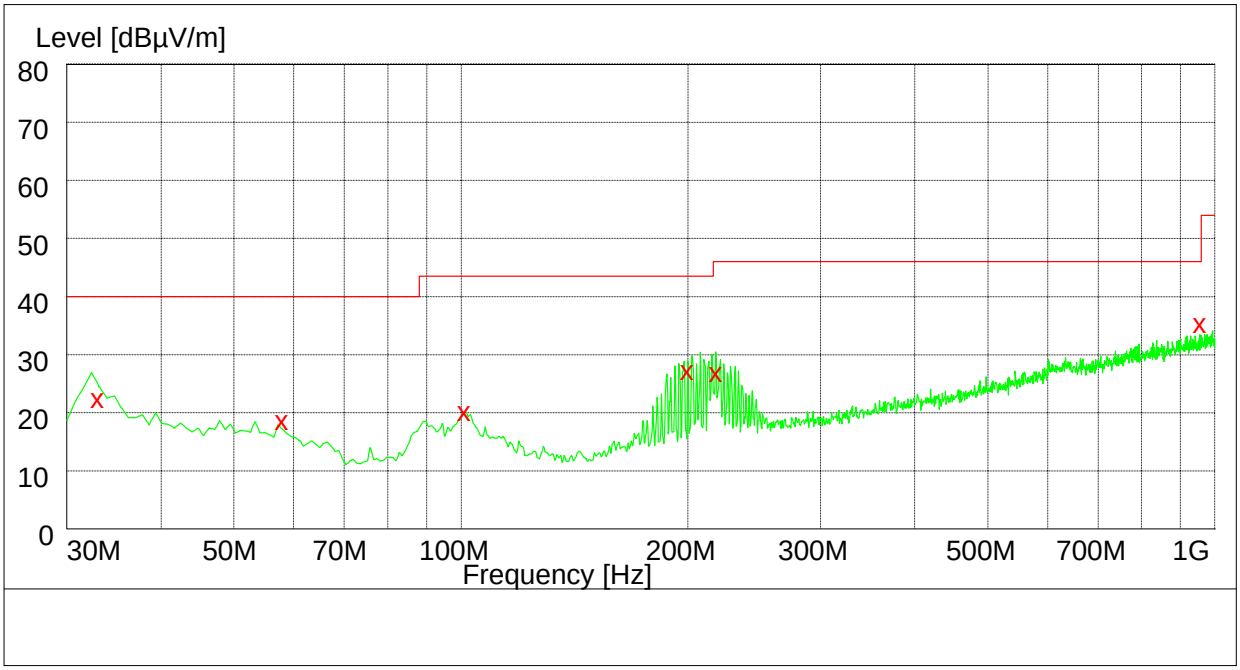
18GHz to 26GHz

Note: No peak found in pre- test.

Channel 11
10 kHz to 30 MHz

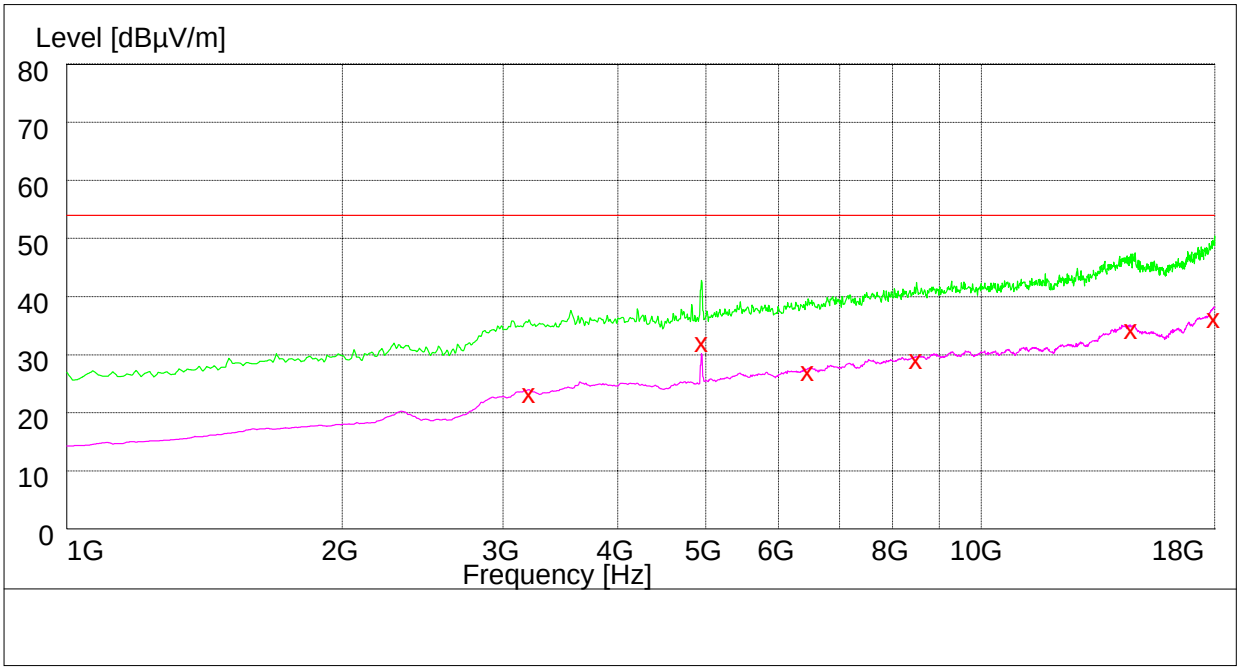


30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
33.000000	22.20	11.7	40.0	17.8	167.0	109.00	HORIZONTAL
58.020000	19.20	12.4	40.0	20.8	117.0	303.00	HORIZONTAL
101.160000	20.00	13.0	43.5	23.5	125.0	0.00	HORIZONTAL
200.160000	28.40	12.1	43.5	15.1	145.0	345.00	VERTICAL
218.040000	28.00	12.9	46.0	18.0	211.0	56.00	HORIZONTAL
957.300000	35.10	26.7	46.0	10.9	297.0	359.00	VERTICAL

1GHz to 18GHz



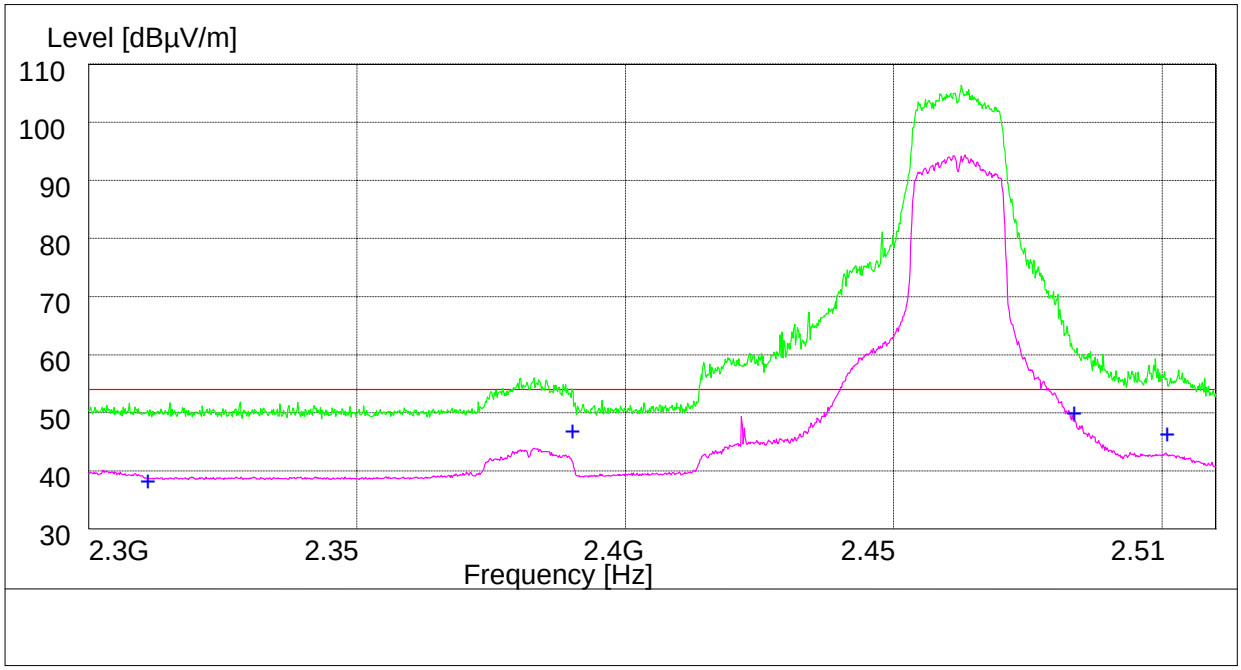
Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3208.500000	23.50	-8.3	54.0	30.5	104.0	86.00	HORIZONTAL
4949.000000	32.20	-3.8	54.0	21.8	185.0	234.00	VERTICAL
6467.000000	27.20	-1.0	54.0	26.8	190.0	90.00	HORIZONTAL
8499.500000	29.30	3.0	54.0	24.7	171.0	196.00	VERTICAL
14590.000000	34.50	12.2	54.0	19.5	152.0	168.00	HORIZONTAL
17980.000000	37.40	17.2	54.0	16.6	177.0	359.00	HORIZONTAL

18GHz to 26GHz

Note: No peak found in pre- test.

2GHz to 3GHz



Note: The peak exceeds the limit line is carrier frequency.

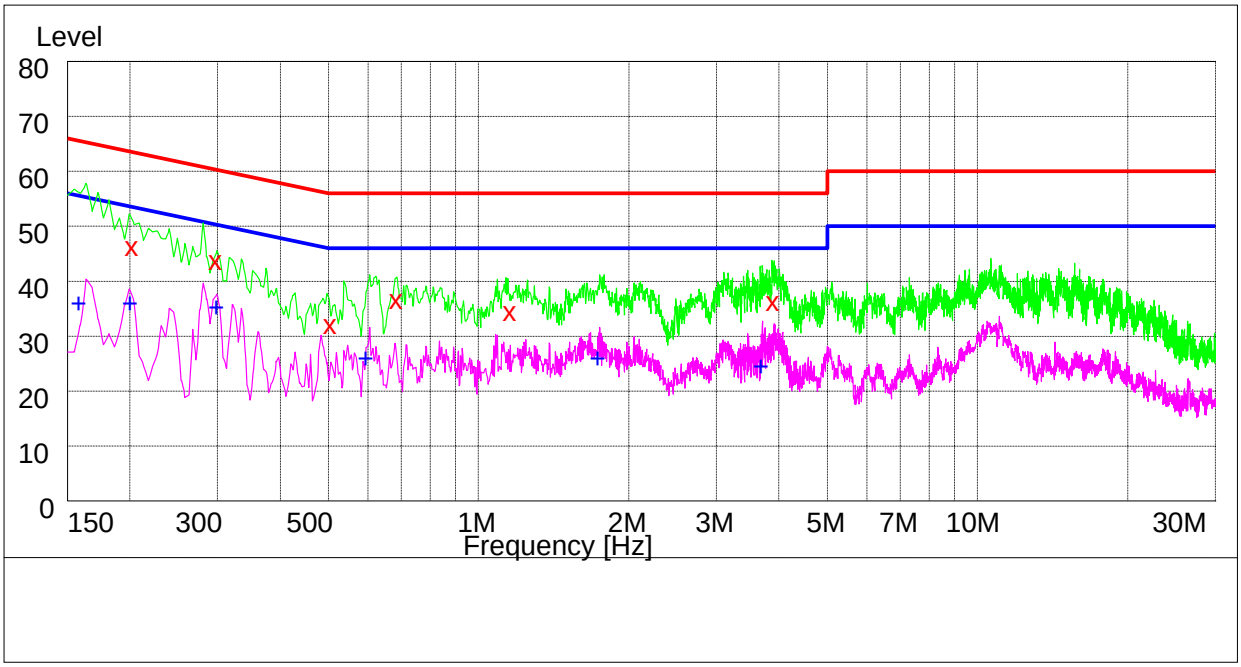
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	39.40	33.3	54.0	14.6	100.0	357.00	HORIZONTAL
2390.000000	47.90	33.5	54.0	6.1	124.0	4.00	HORIZONTAL
2483.500000	50.00	33.7	54.0	5.0	120.0	7.00	HORIZONTAL
2500.000000	47.53	33.7	54.0	6.5	120.0	7.00	HORIZONTAL

Appendix G

Conducted Emission at Power Port

According to FCC Part 15.207

Channel 7



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.202000	46.60	10.1	64	17.4	L1	FLO
0.298000	44.00	10.0	60	16.0	N	FLO
0.506000	32.40	10.1	56	23.6	N	FLO
0.686000	36.90	10.1	56	19.1	N	FLO
1.158000	34.70	10.1	56	21.3	N	FLO
3.904000	36.50	10.2	56	19.5	L1	FLO

MEASUREMENT RESULT: AV Detector

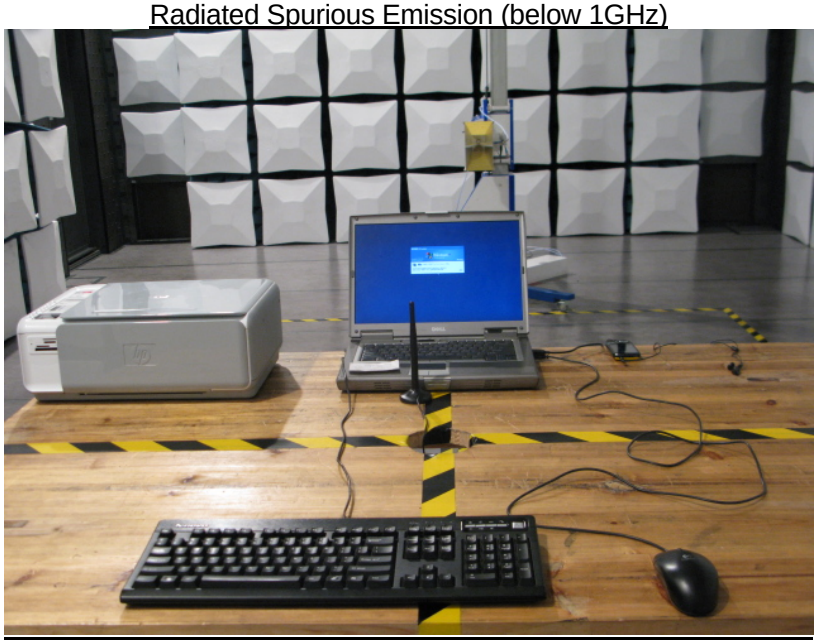
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.158000	37.20	10.1	56	18.8	N	FLO
0.200000	37.30	10.1	56	18.7	N	FLO
0.298000	36.60	10.0	50	13.4	N	FLO
0.594000	27.20	10.1	46	18.8	N	FLO
1.732000	27.20	10.1	46	18.8	L1	FLO
3.684000	25.80	10.2	46	20.2	L1	FLO

Appendix H

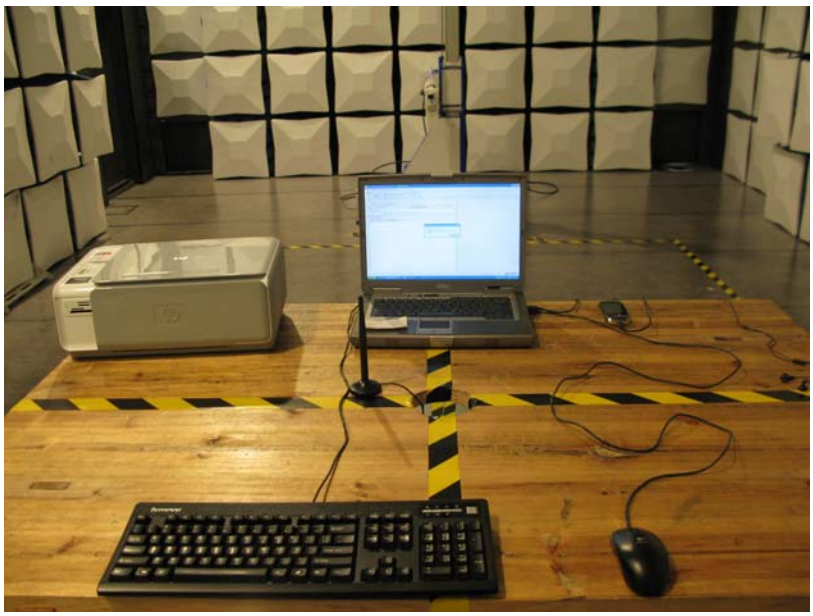
Photos of Test Setup

1 Radiated Spurious Emissions

Radiated Spurious Emission (below 1GHz)

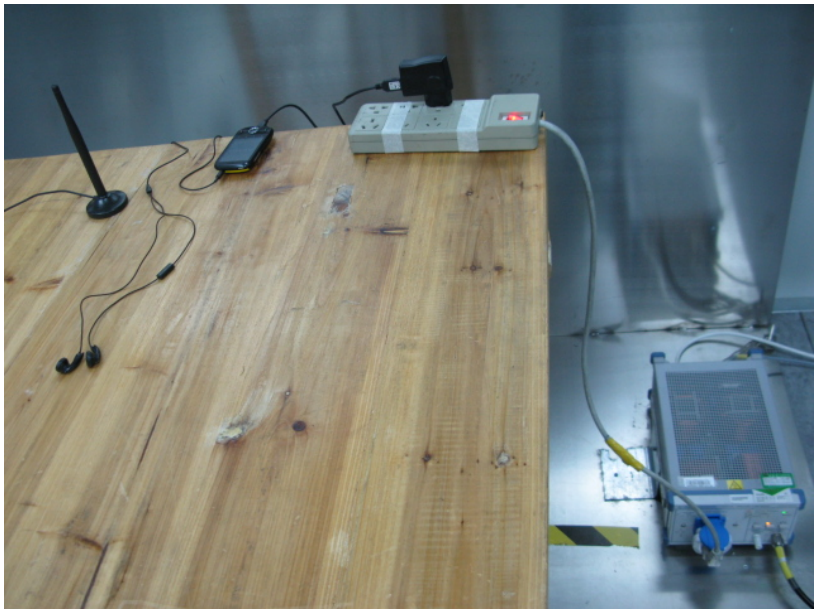


Radiated Spurious Emission (1GHz to18GHz)



Radiated Spurious Emission (above 18GHz)

2 Conducted Emissions



Conducted Emissions for AC Ports