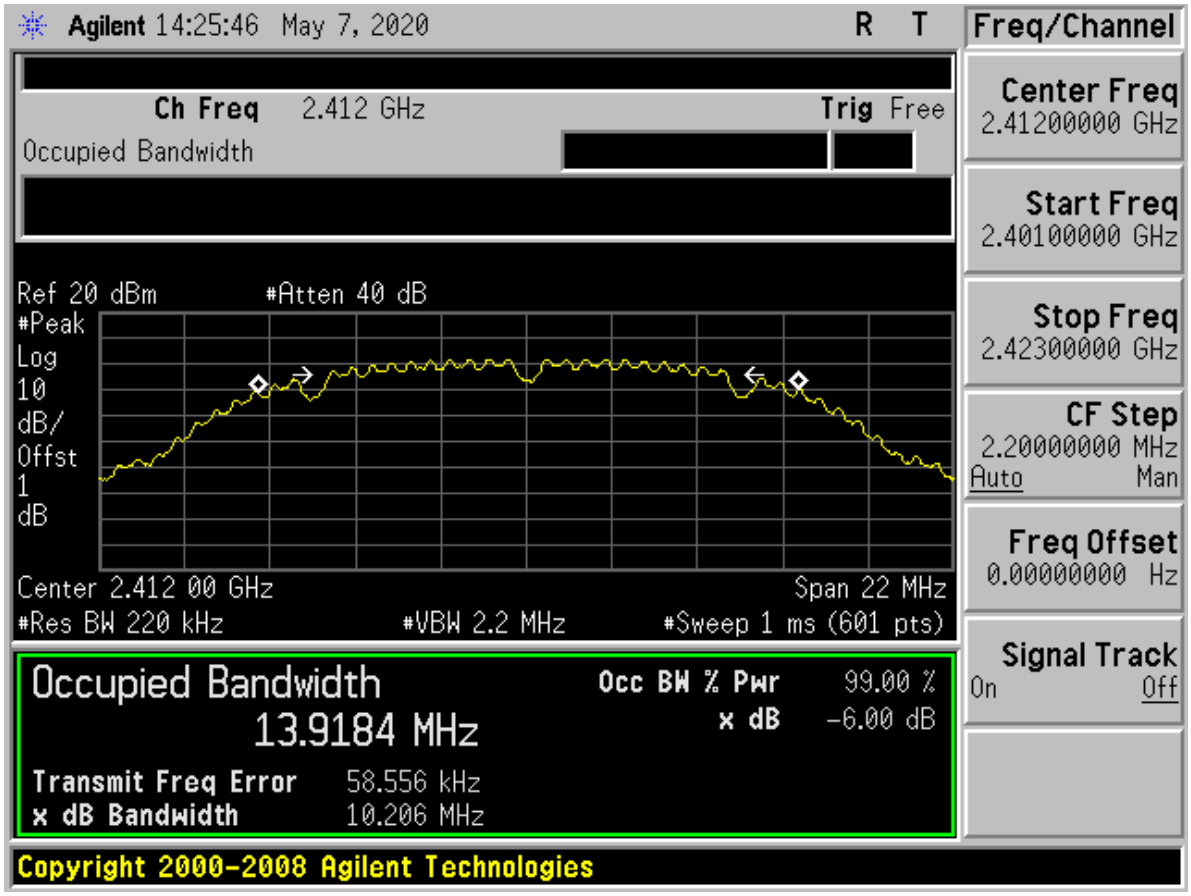
Appendix A

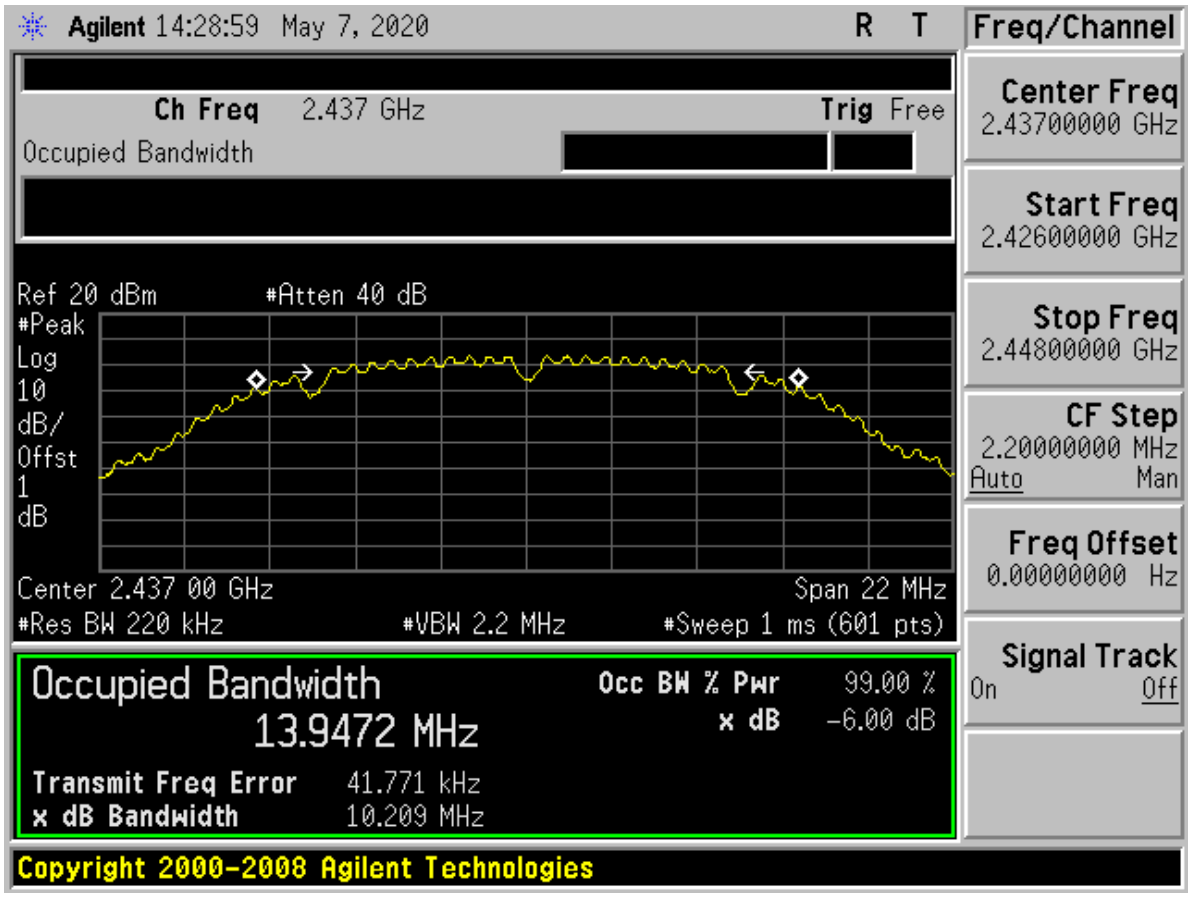
Bandwidth measurement

According to FCC Part 15.247 (a) (2)

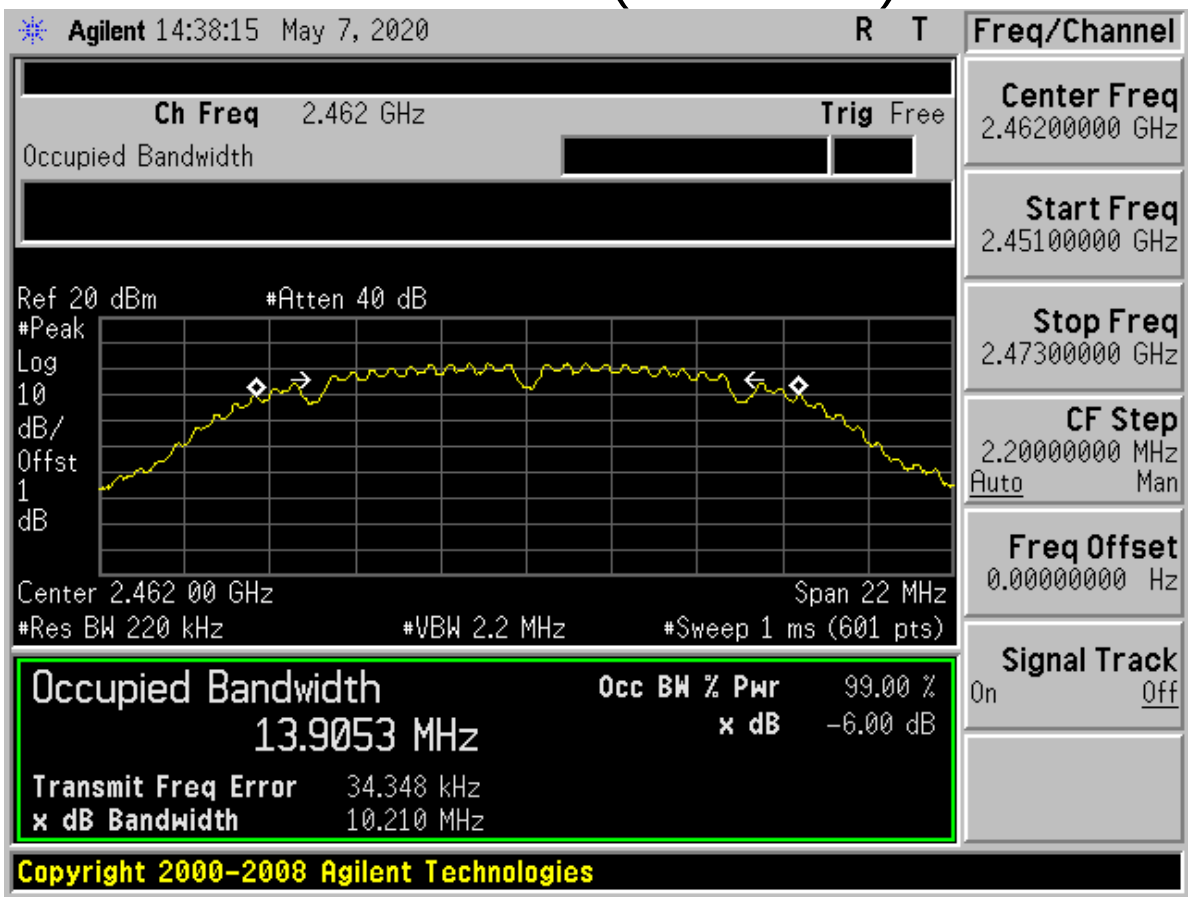
TM1
Channel 1 (2412MHz)



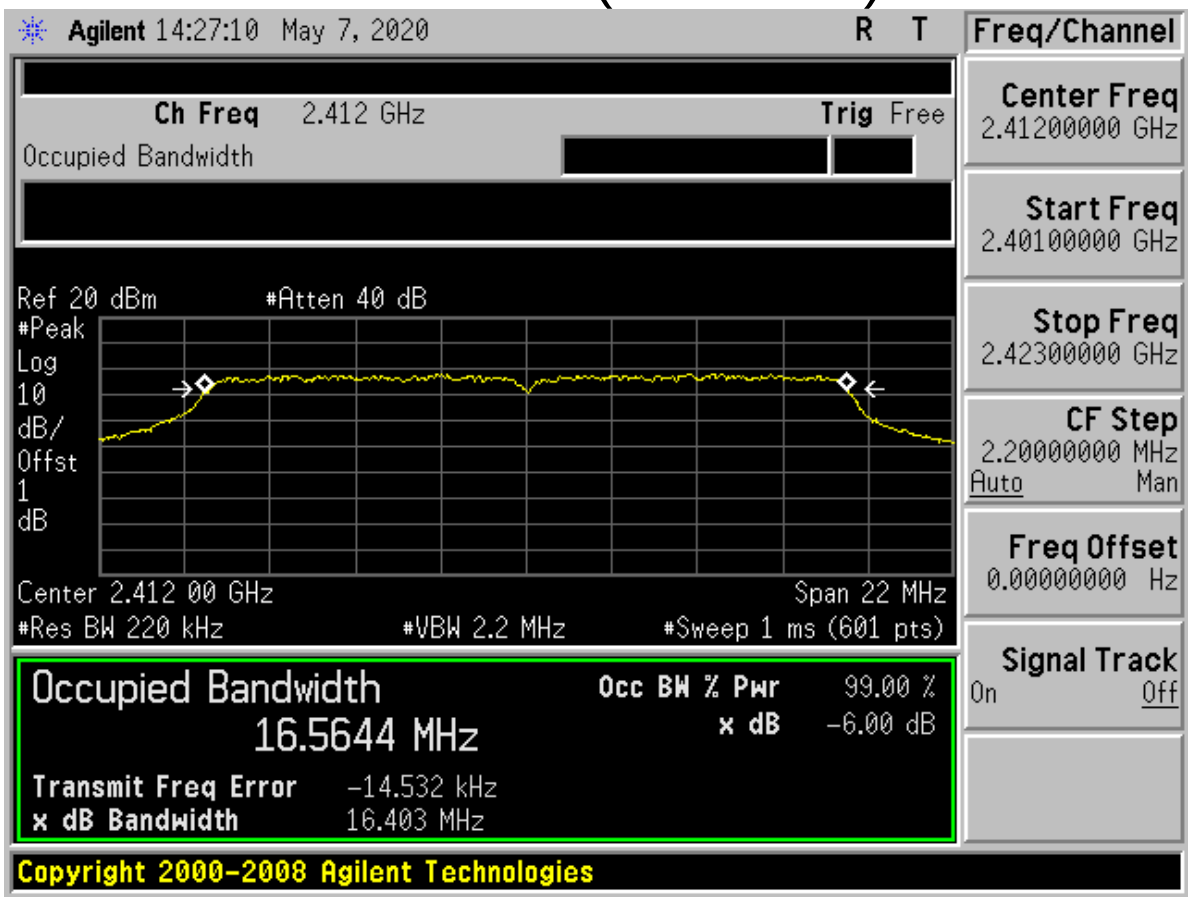
Channel 6 (2437MHz)



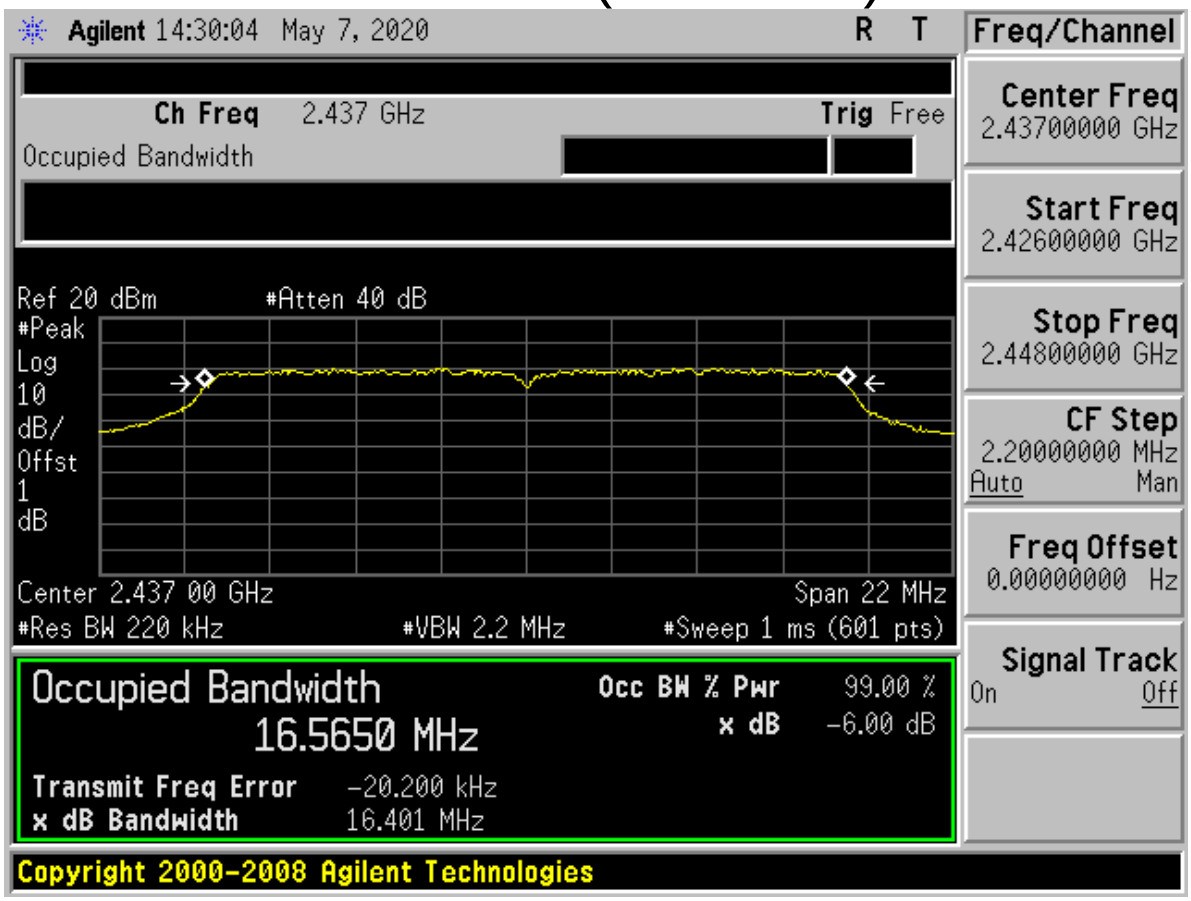
Channel 11 (2462MHz)



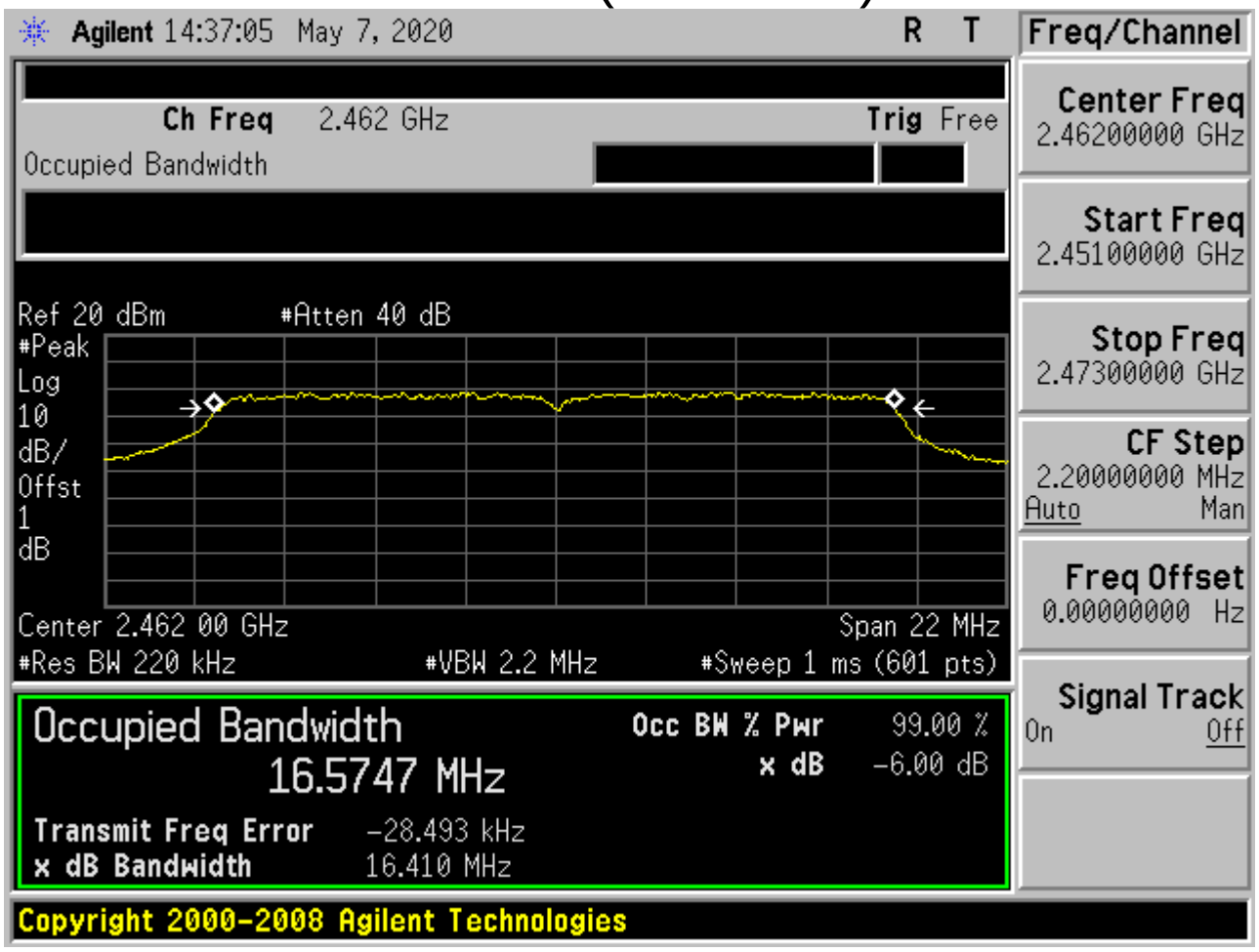
TM2
Channel 1 (2412MHz)



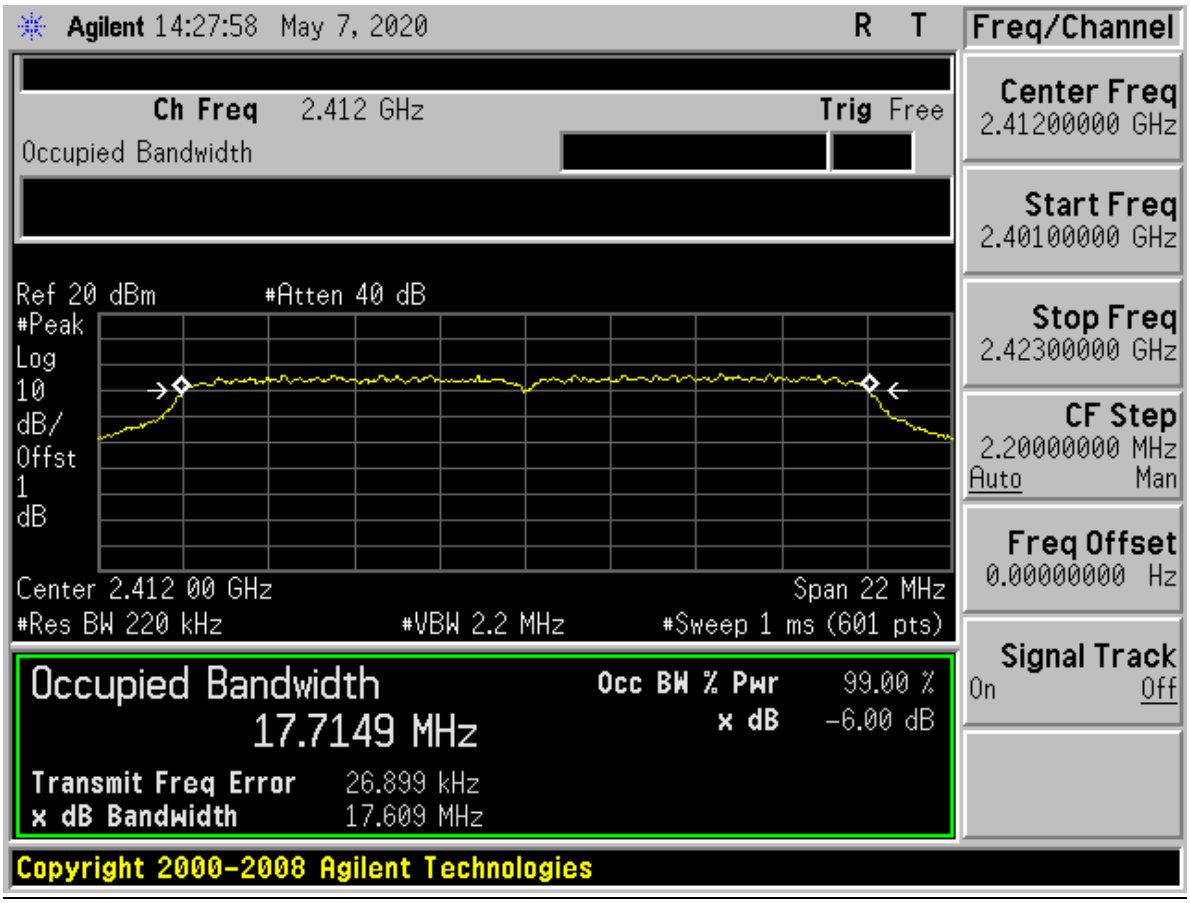
Channel 6 (2437MHz)



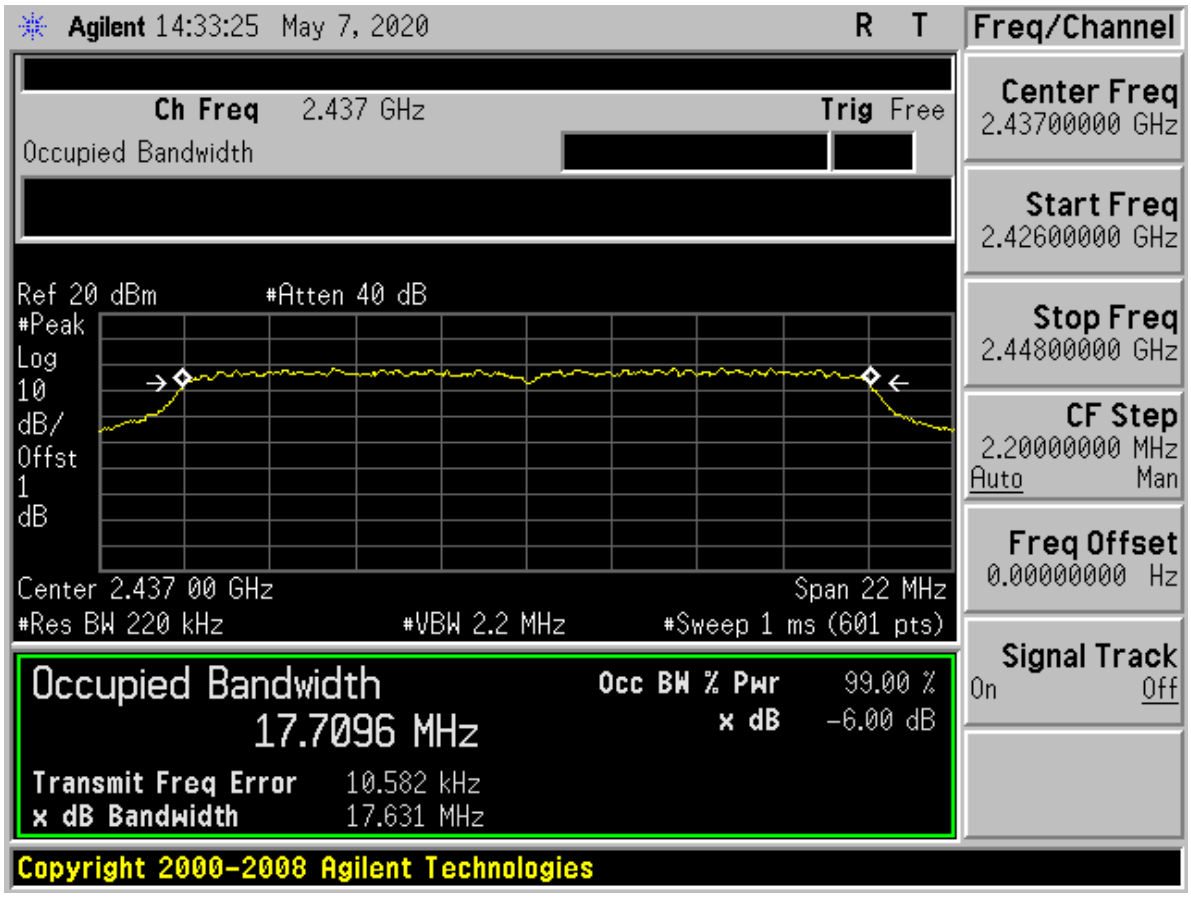
Channel 11 (2462MHz)



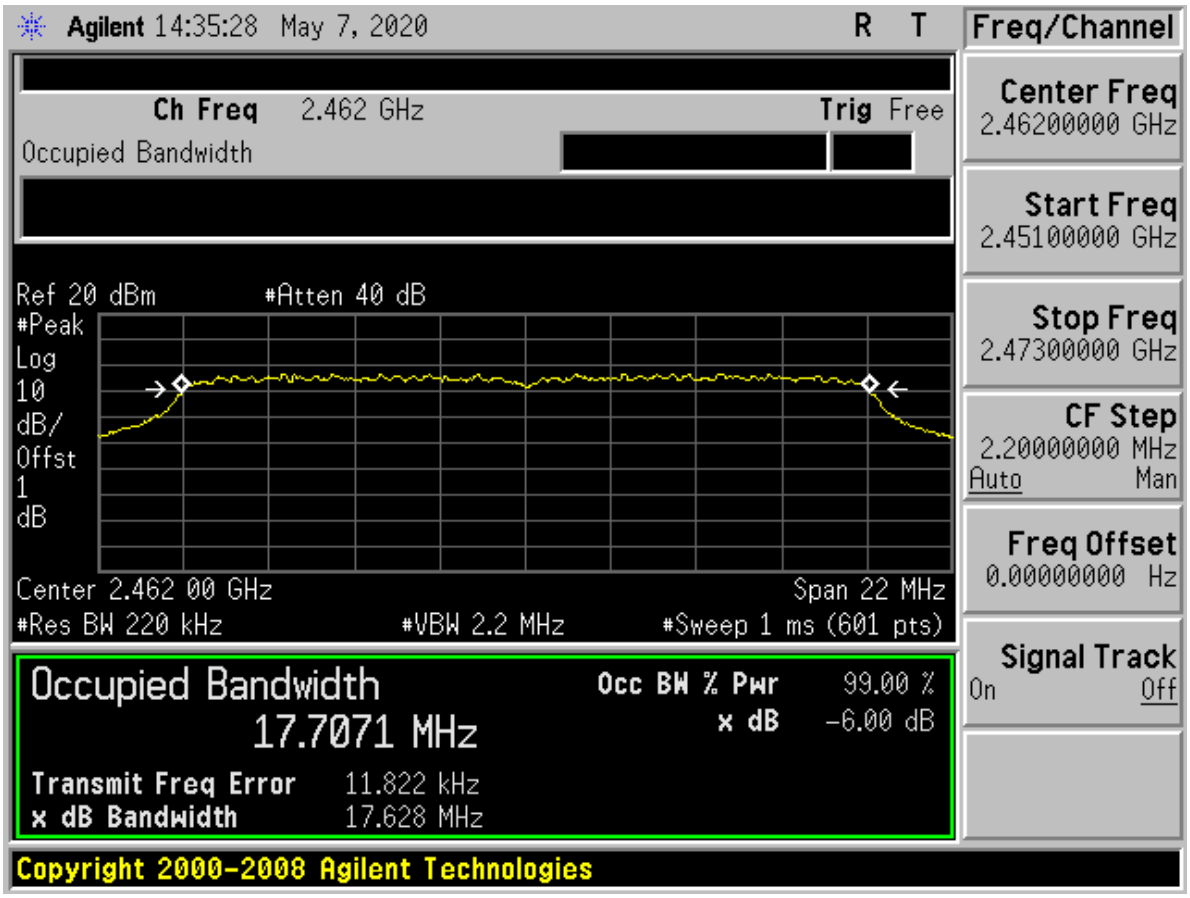
TM3
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

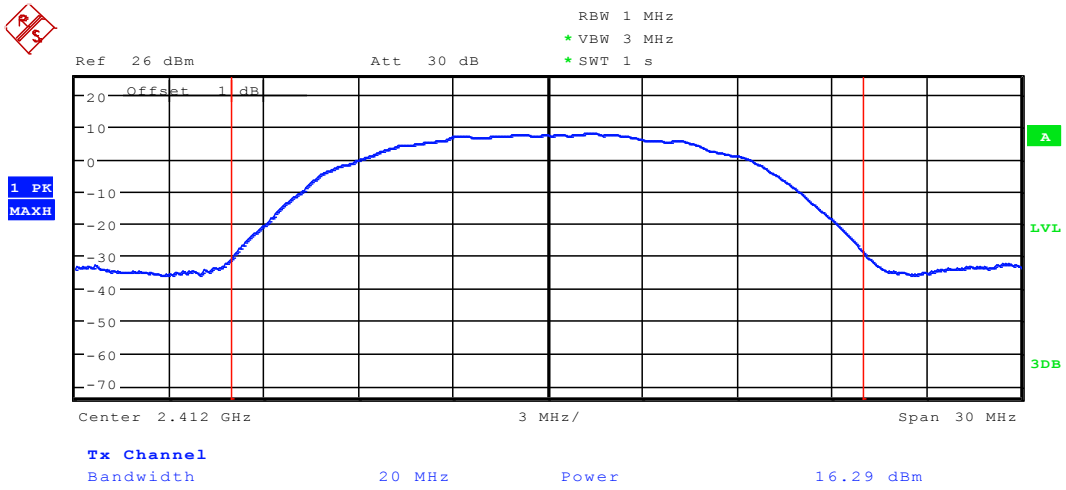


Appendix B

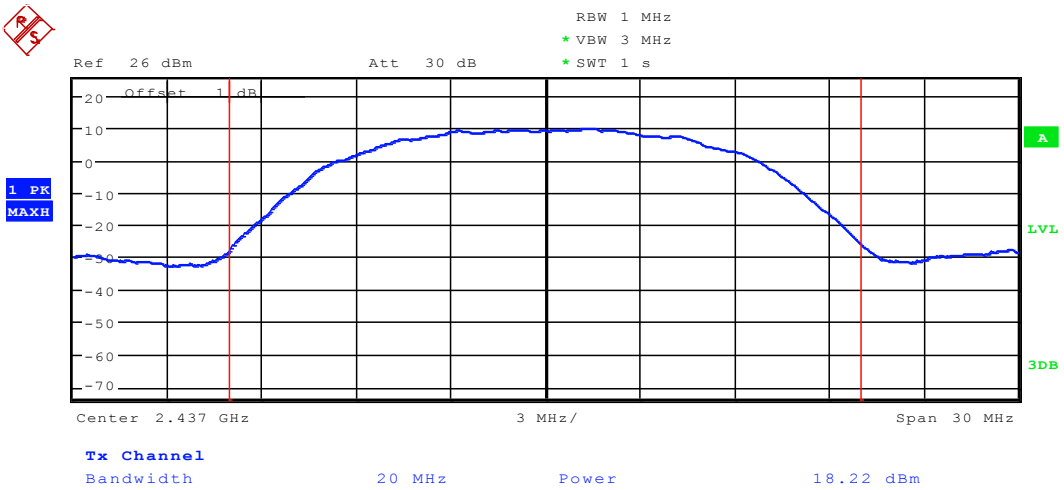
Conducted Peak output power

According to FCC Part 15.247 (b) (3)

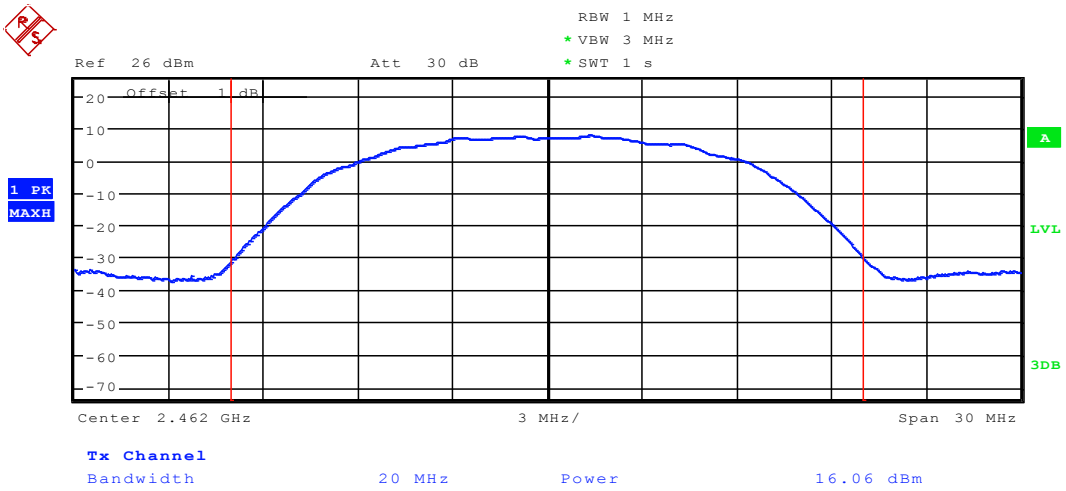
TM1
Channel 1 (2412MHz)



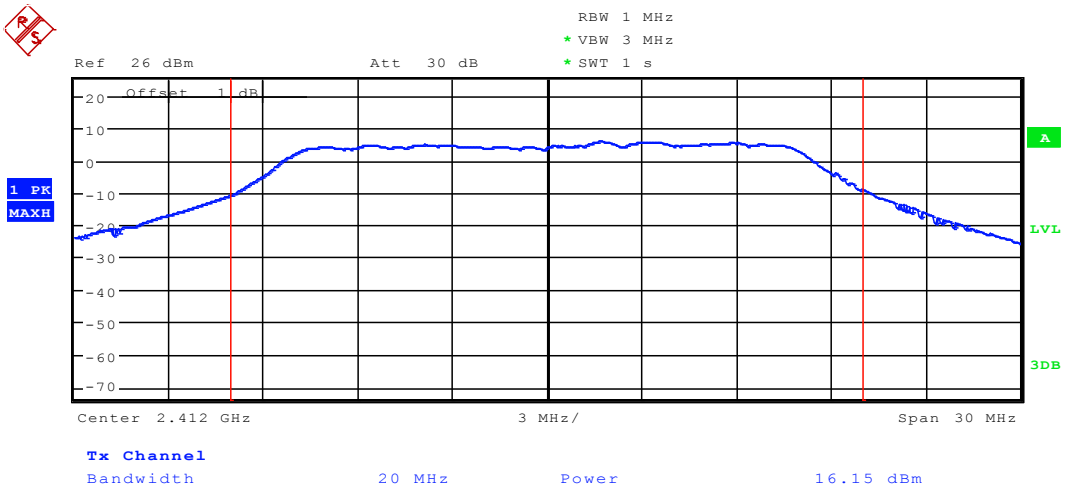
Channel 6 (2437MHz)



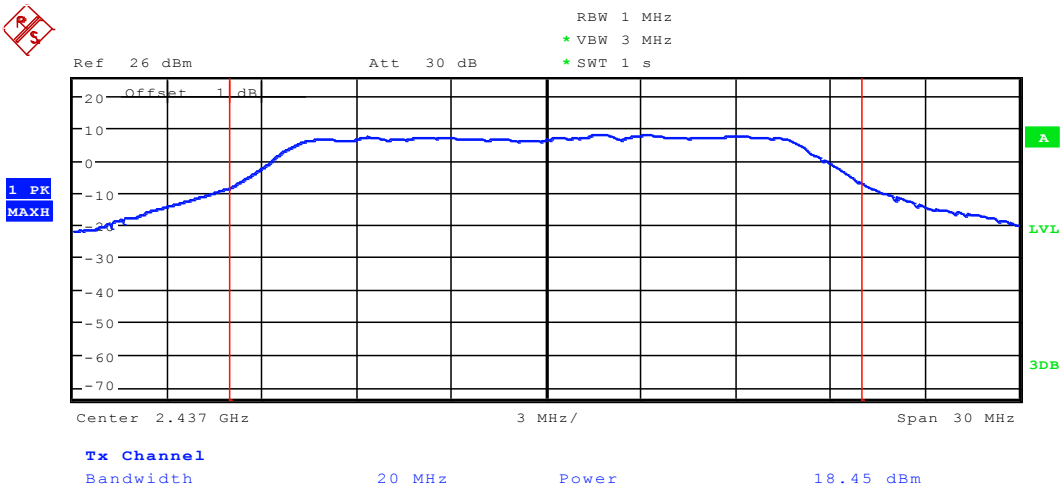
Channel 11 (2462MHz)



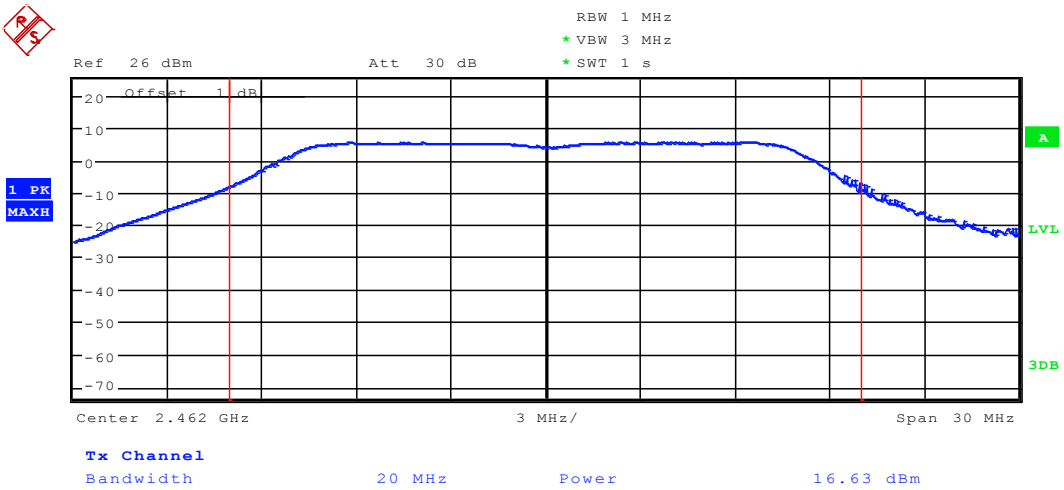
TM2
Channel 1 (2412MHz)



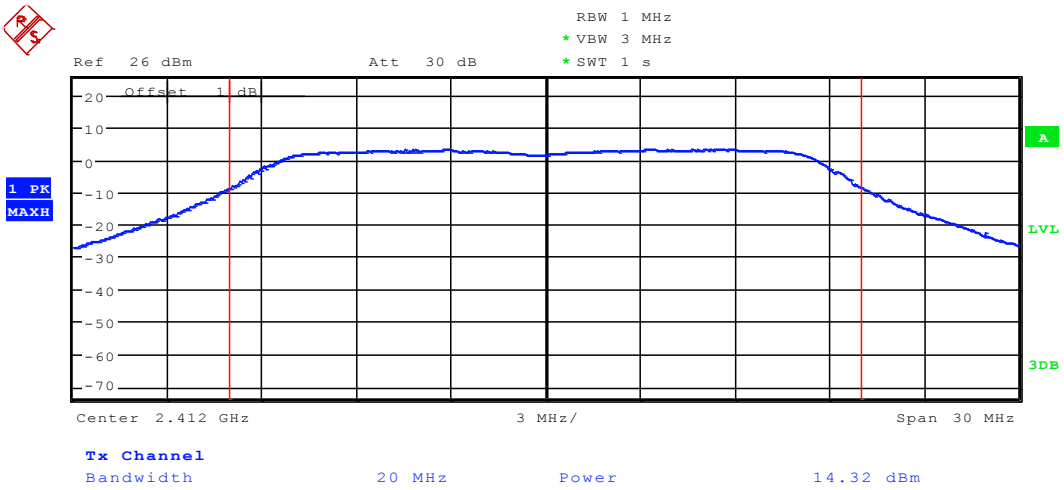
Channel 6 (2437MHz)



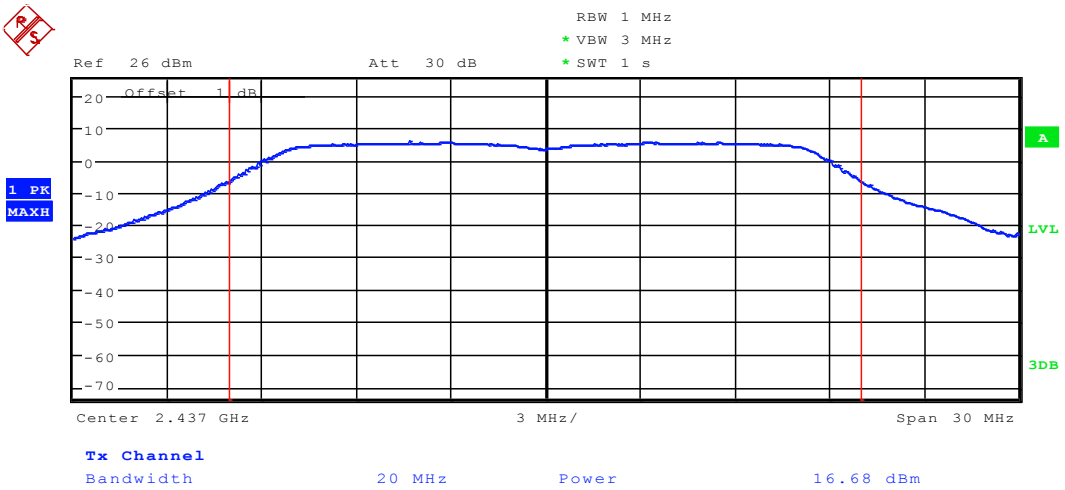
Channel 11 (2462MHz)



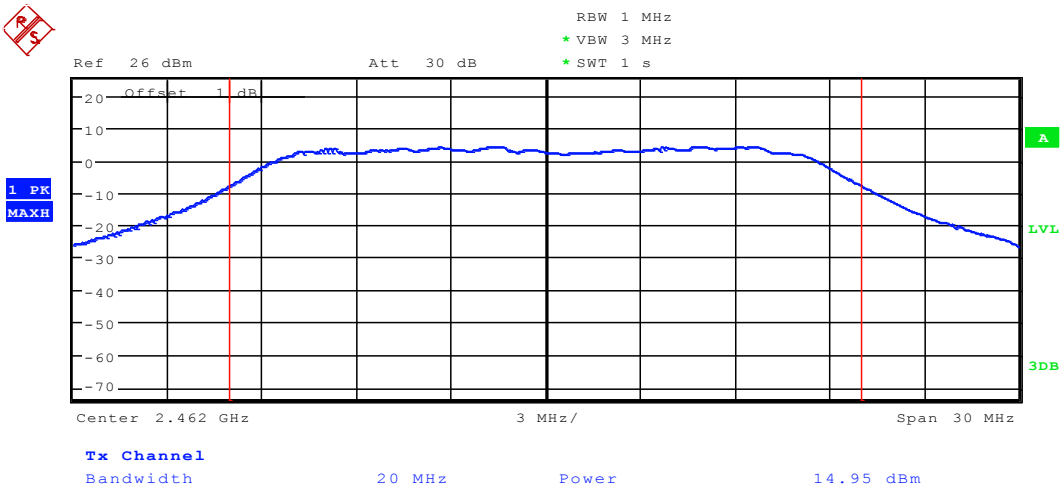
TM3
Channel 1 (2412MHz)



Channel 6 (2437MHz)



Channel 11 (2462MHz)

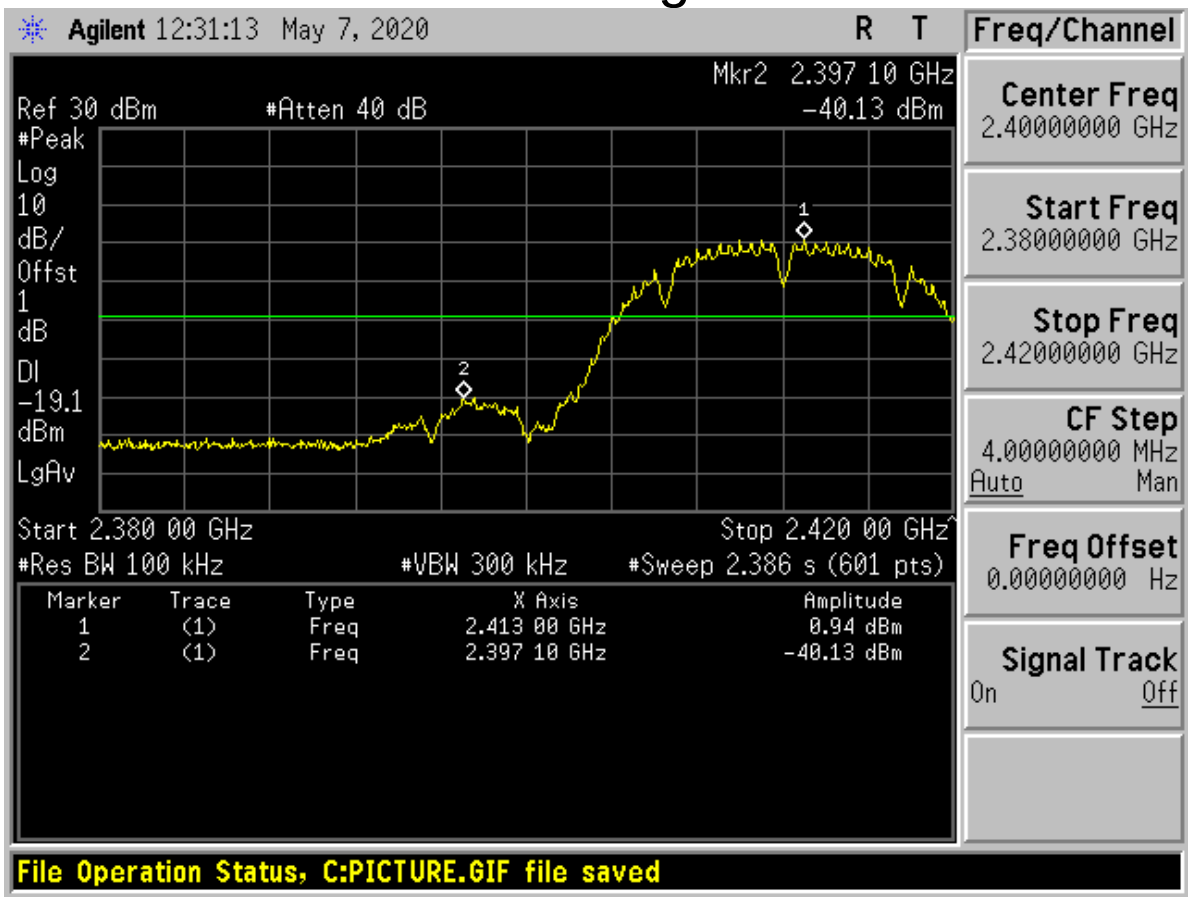


Appendix C

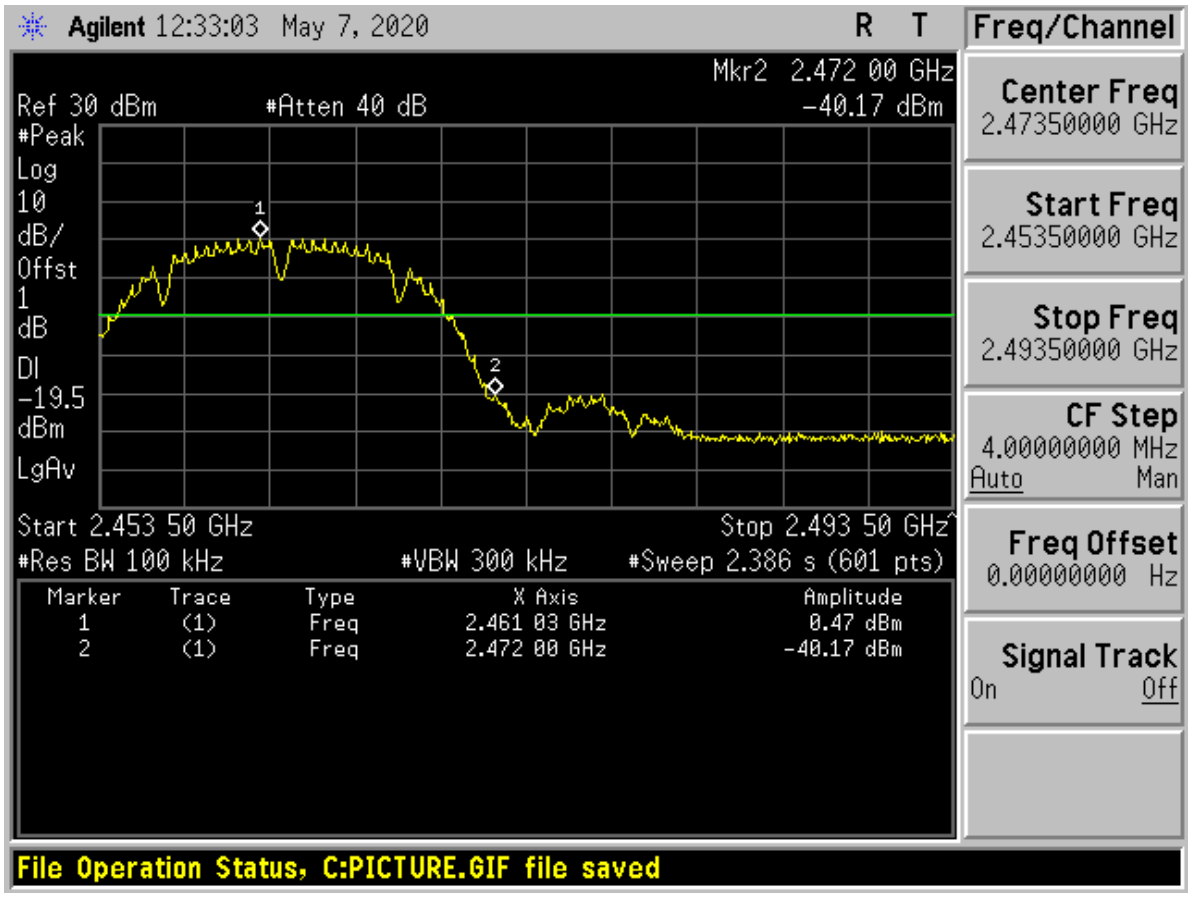
Band edge spurious emission

According to FCC Part 15.247 (d)

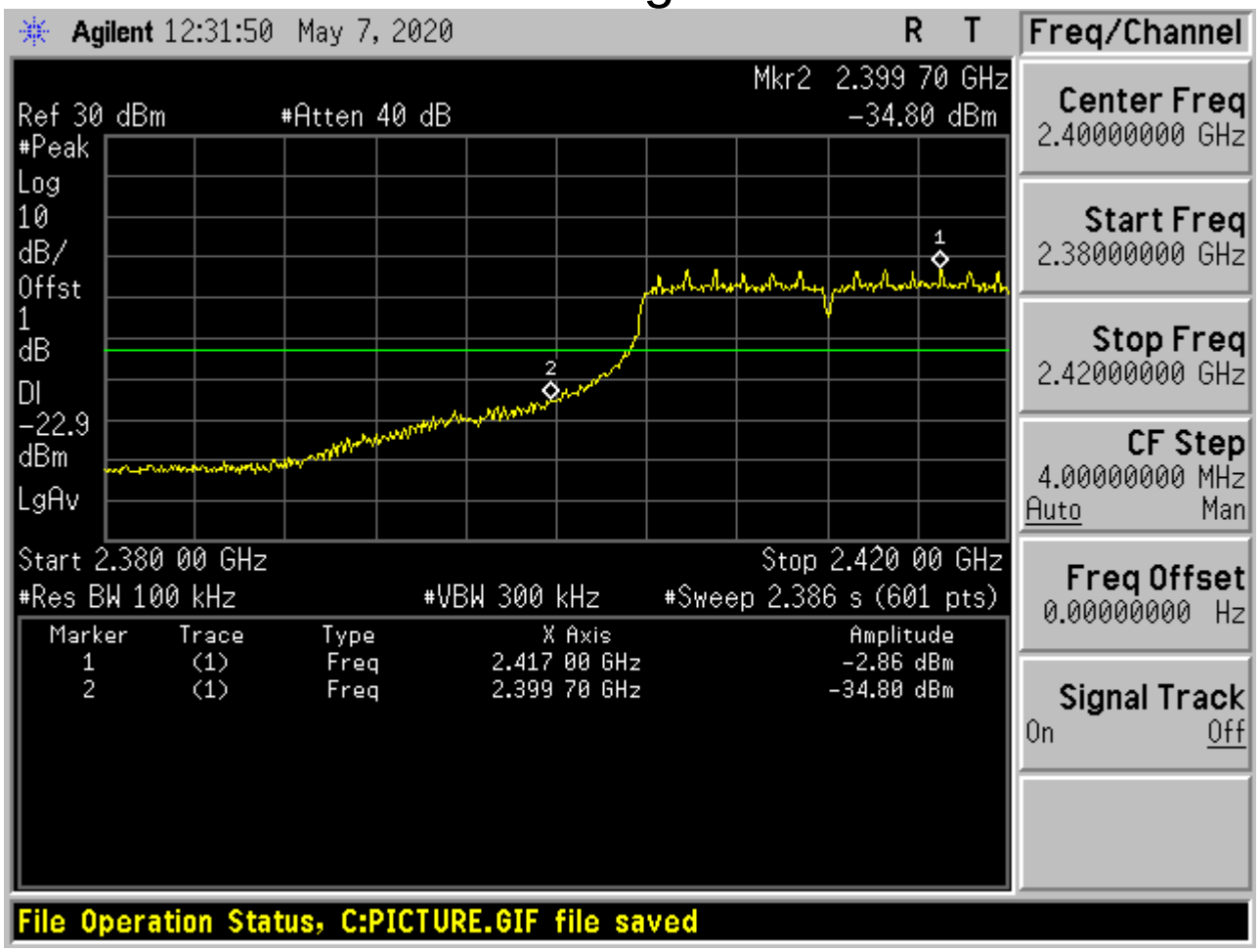
TM1
Low edge


Agilent 12:31:13 May 7, 2020
R T
Freq/Channel
Mkr2 2.397 10 GHz
Ref 30 dBm
#Atten 40 dB
-40.13 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-19.1
dBm
LgAv
1
2
Center Freq
2.40000000 GHz
Start Freq
2.38000000 GHz
Stop Freq
2.42000000 GHz
CF Step
4.00000000 MHz
Auto
Man
Start 2.380 00 GHz
Stop 2.420 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 2.386 s (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.413 00 GHz 0.94 dBm
2 (1) Freq 2.397 10 GHz -40.13 dBm
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

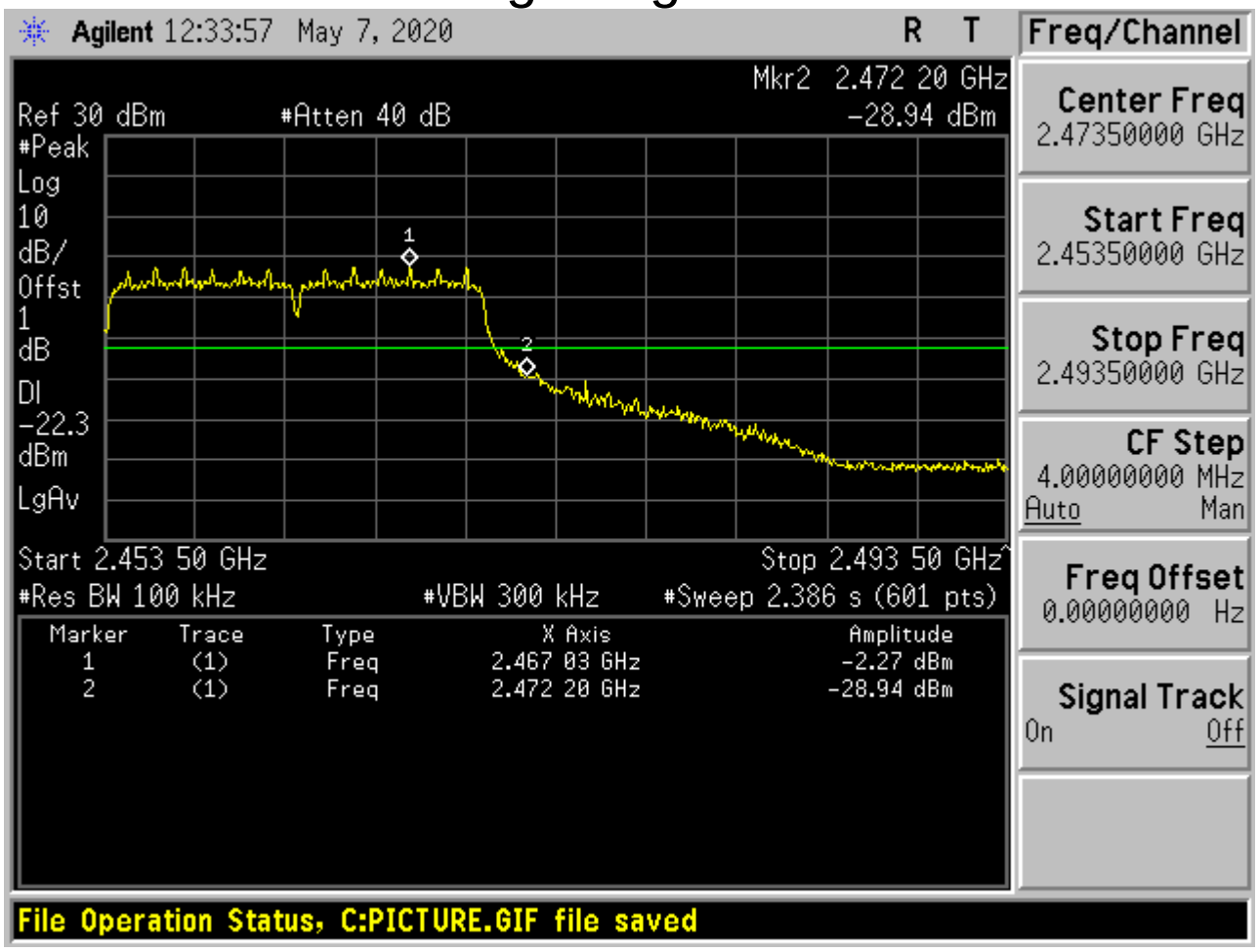
High edge


Agilent 12:33:03 May 7, 2020
R T
Freq/Channel
Mkr2 2.472 00 GHz
Ref 30 dBm
#Atten 40 dB
-40.17 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-19.5
dBm
LgAv
Center Freq
2.47350000 GHz
Start Freq
2.45350000 GHz
Stop Freq
2.49350000 GHz
CF Step
4.00000000 MHz
Auto
Man
Start 2.453 50 GHz
Stop 2.493 50 GHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 2.386 s (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.461 03 GHz 0.47 dBm
2 (1) Freq 2.472 00 GHz -40.17 dBm
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

TM2
Low edge

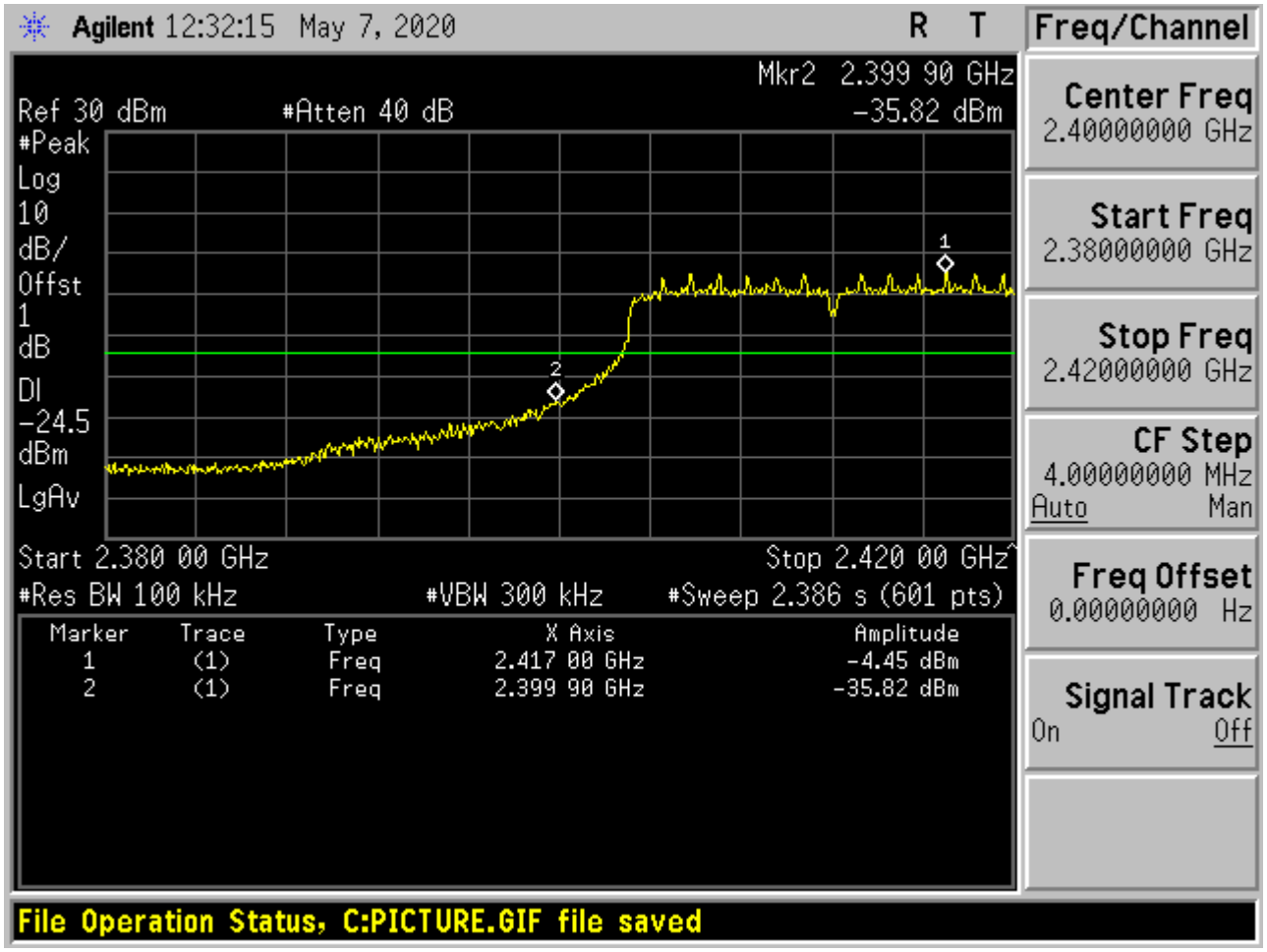

Agilent 12:31:50 May 7, 2020
R T
Freq/Channel
Mkr2 2.399 70 GHz
Ref 30 dBm
#Atten 40 dB
-34.80 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-22.9
dBm
LgAv
1
2
Center Freq
2.40000000 GHz
Start Freq
2.38000000 GHz
Stop Freq
2.42000000 GHz
CF Step
4.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Start 2.380 00 GHz
Stop 2.420 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 2.386 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.417 00 GHz -2.86 dBm
2 (1) Freq 2.399 70 GHz -34.80 dBm
File Operation Status, C:PICTURE.GIF file saved

High edge

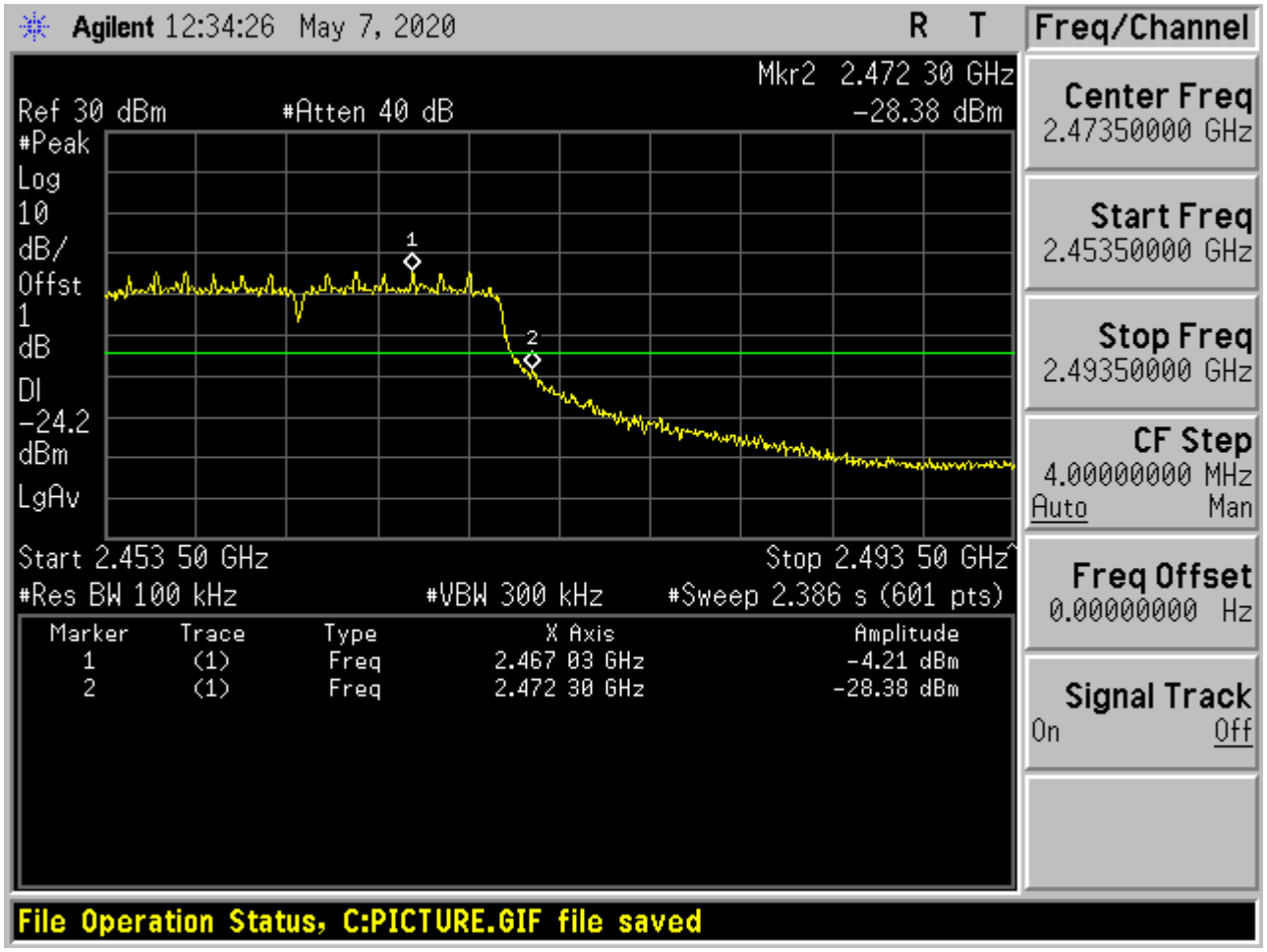

Agilent 12:33:57 May 7, 2020
R T
Freq/Channel
Mkr2 2.472 20 GHz
Ref 30 dBm
#Atten 40 dB
-28.94 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-22.3
dBm
LgAv
Center Freq
2.47350000 GHz
Start Freq
2.45350000 GHz
Stop Freq
2.49350000 GHz
CF Step
4.00000000 MHz
Auto
Man
Start 2.453 50 GHz
Stop 2.493 50 GHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 2.386 s (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.467 03 GHz -2.27 dBm
2 (1) Freq 2.472 20 GHz -28.94 dBm
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

TM3

Low edge


Agilent 12:32:15 May 7, 2020
R T
Freq/Channel
Mkr2 2.399 90 GHz
Ref 30 dBm
#Atten 40 dB
-35.82 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-24.5
dBm
LgAv
Center Freq
2.40000000 GHz
Start Freq
2.38000000 GHz
Stop Freq
2.42000000 GHz
CF Step
4.00000000 MHz
Auto
Man
Start 2.380 00 GHz
Stop 2.420 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 2.386 s (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.417 00 GHz -4.45 dBm
2 (1) Freq 2.399 90 GHz -35.82 dBm
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

High edge

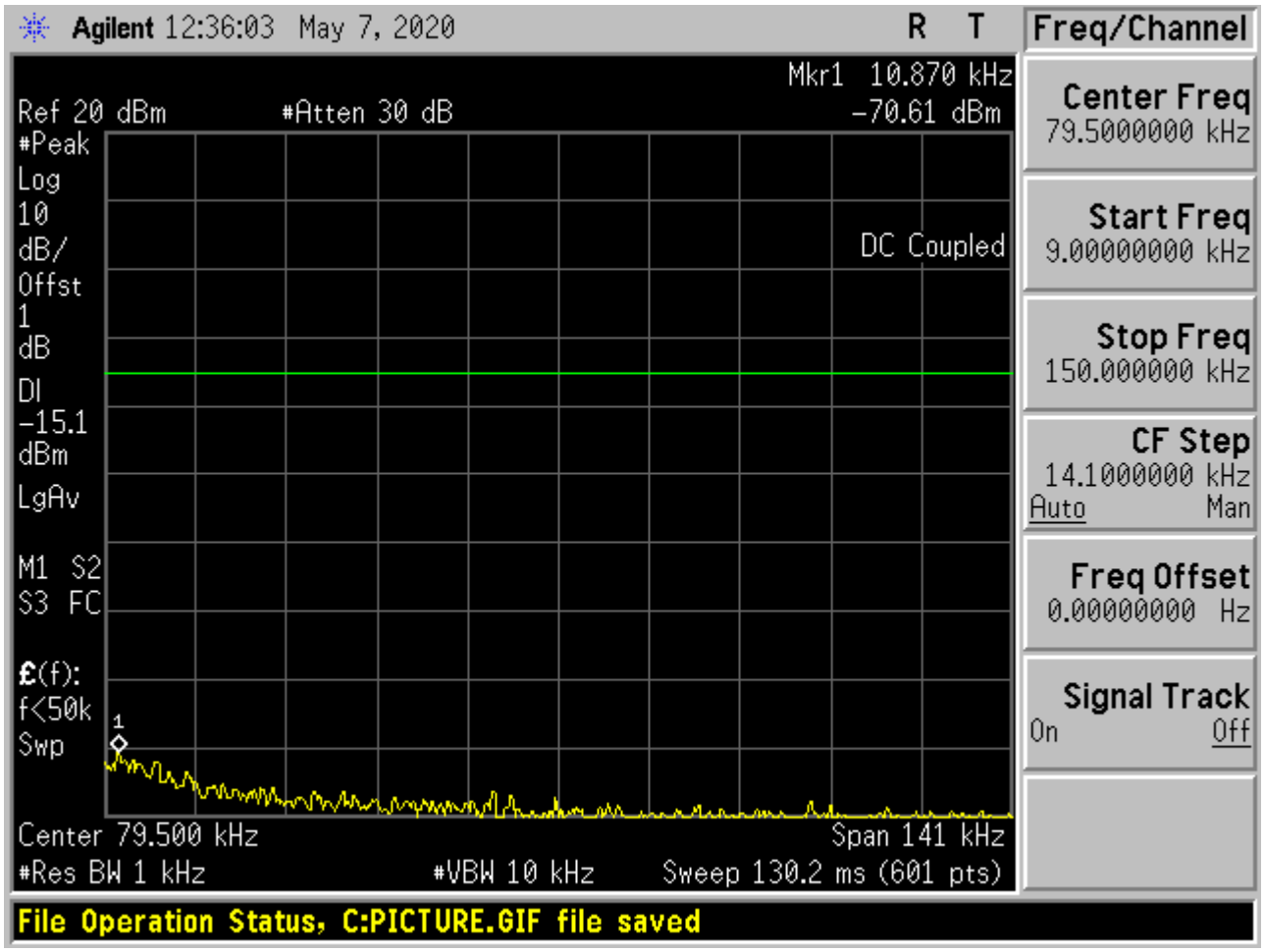

Agilent 12:34:26 May 7, 2020
R T
Freq/Channel
Mkr2 2.472 30 GHz
Ref 30 dBm
#Atten 40 dB
-28.38 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-24.2
dBm
LgAv
1
2
Center Freq
2.47350000 GHz
Start Freq
2.45350000 GHz
Stop Freq
2.49350000 GHz
CF Step
4.00000000 MHz
Auto Man
Start 2.453 50 GHz
Stop 2.493 50 GHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 2.386 s (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.467 03 GHz -4.21 dBm
2 (1) Freq 2.472 30 GHz -28.38 dBm
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

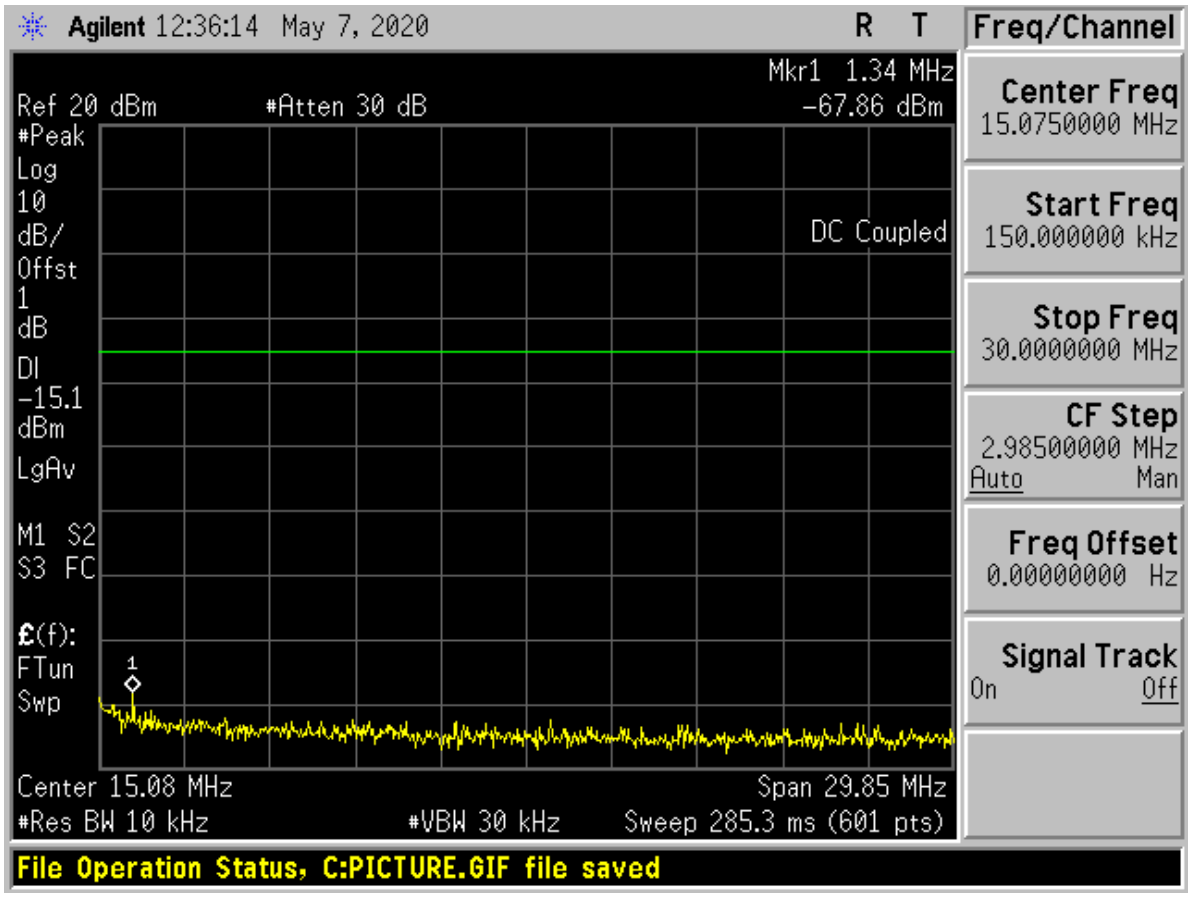
Appendix D

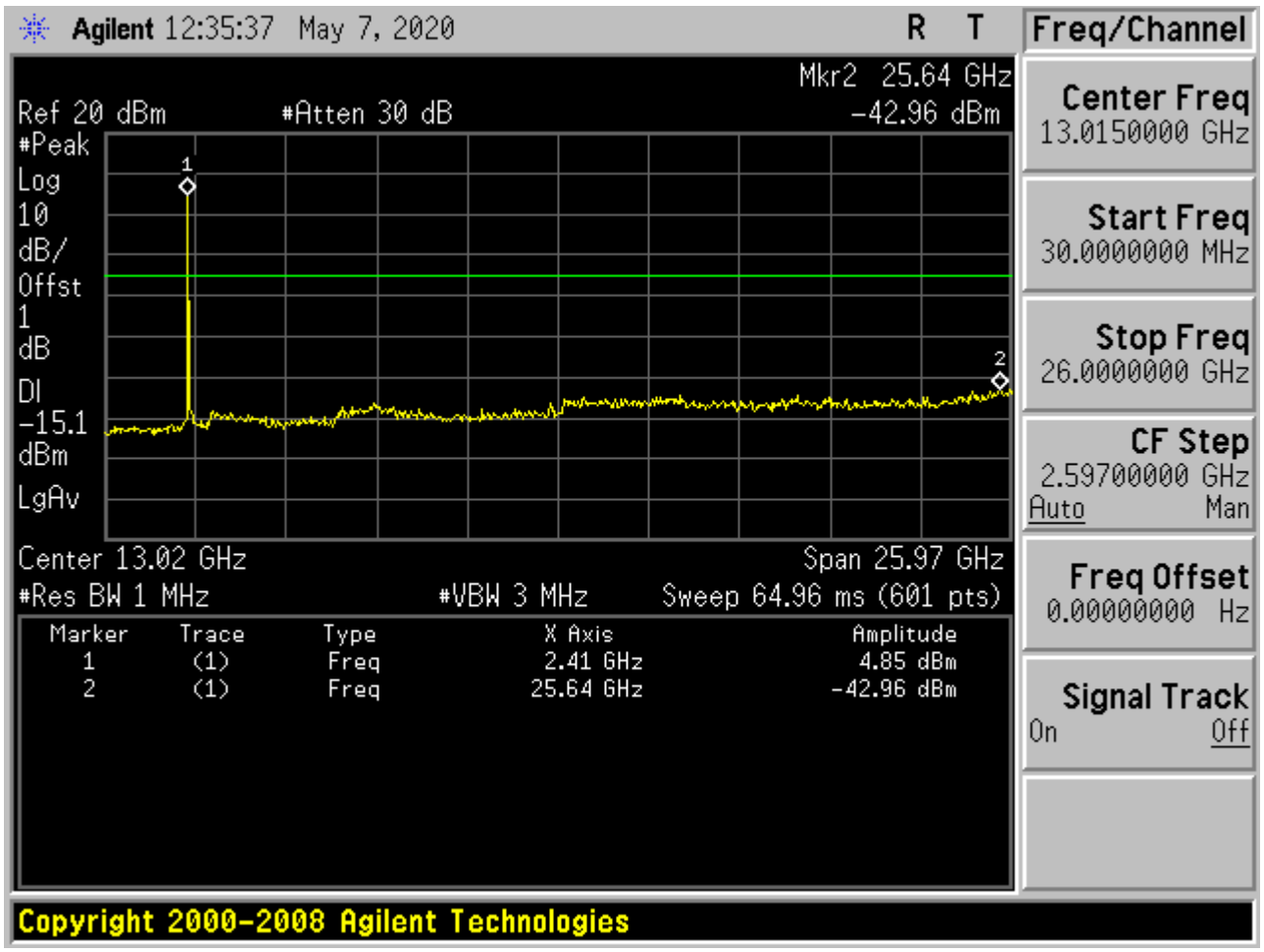
Conducted RF spurious

According to FCC Part 15.247 (d)

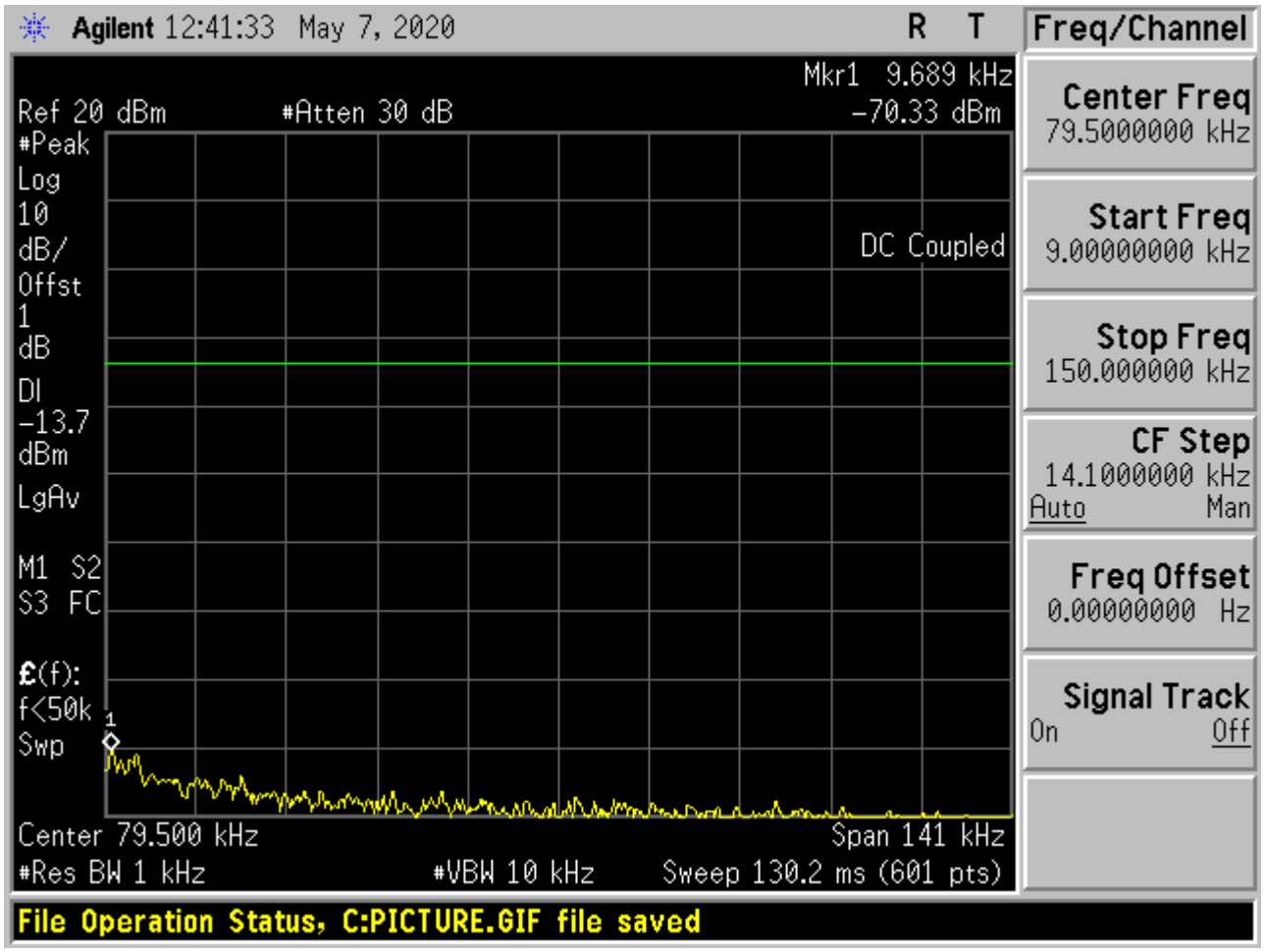
TM1
Channel 1

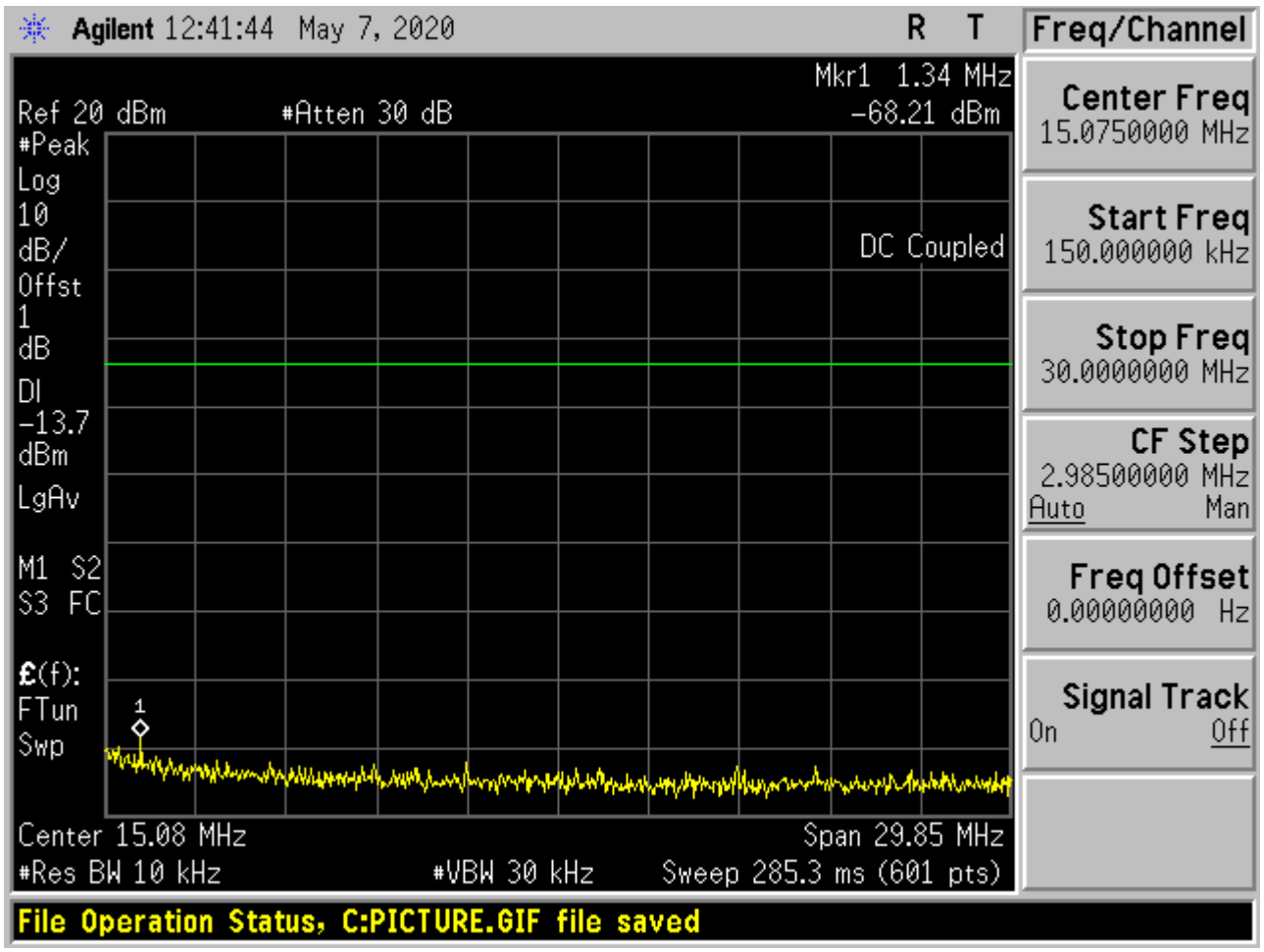


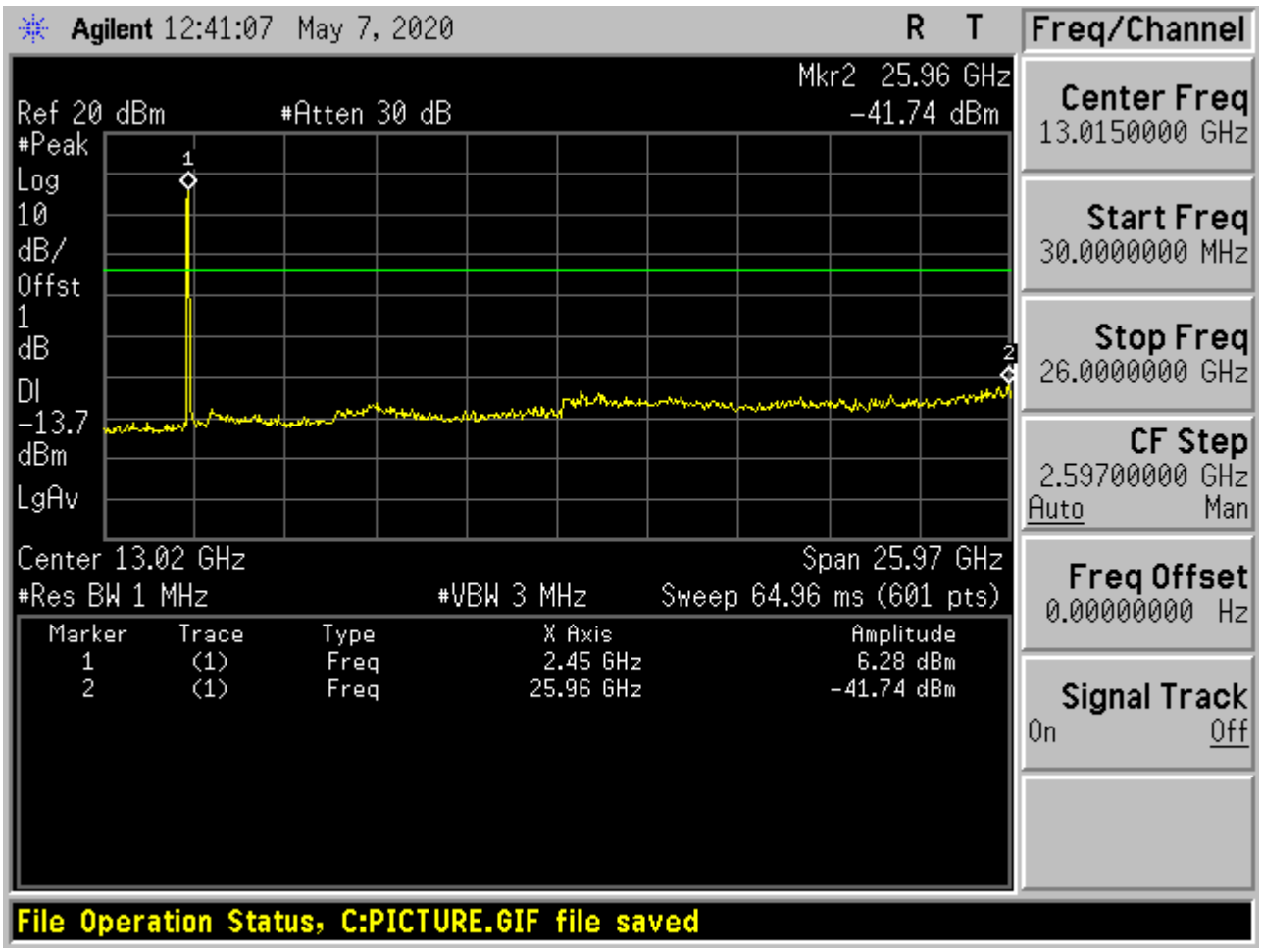

Agilent 12:36:14 May 7, 2020
R T
Freq/Channel
Mkr1 1.34 MHz
Ref 20 dBm
#Atten 30 dB
-67.86 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-15.1
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
DC Coupled
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved


Agilent 12:35:37 May 7, 2020
R T
Freq/Channel
Mkr2 25.64 GHz
Ref 20 dBm
#Atten 30 dB
-42.96 dBm
#Peak
Log
10
dB/
Offst
1
dB
DI
-15.1
dBm
LgAv
Center 13.02 GHz
Span 25.97 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 4.85 dBm
2 (1) Freq 25.64 GHz -42.96 dBm
Center Freq
13.0150000 GHz
Start Freq
30.0000000 MHz
Stop Freq
26.0000000 GHz
CF Step
2.59700000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Copyright 2000-2008 Agilent Technologies

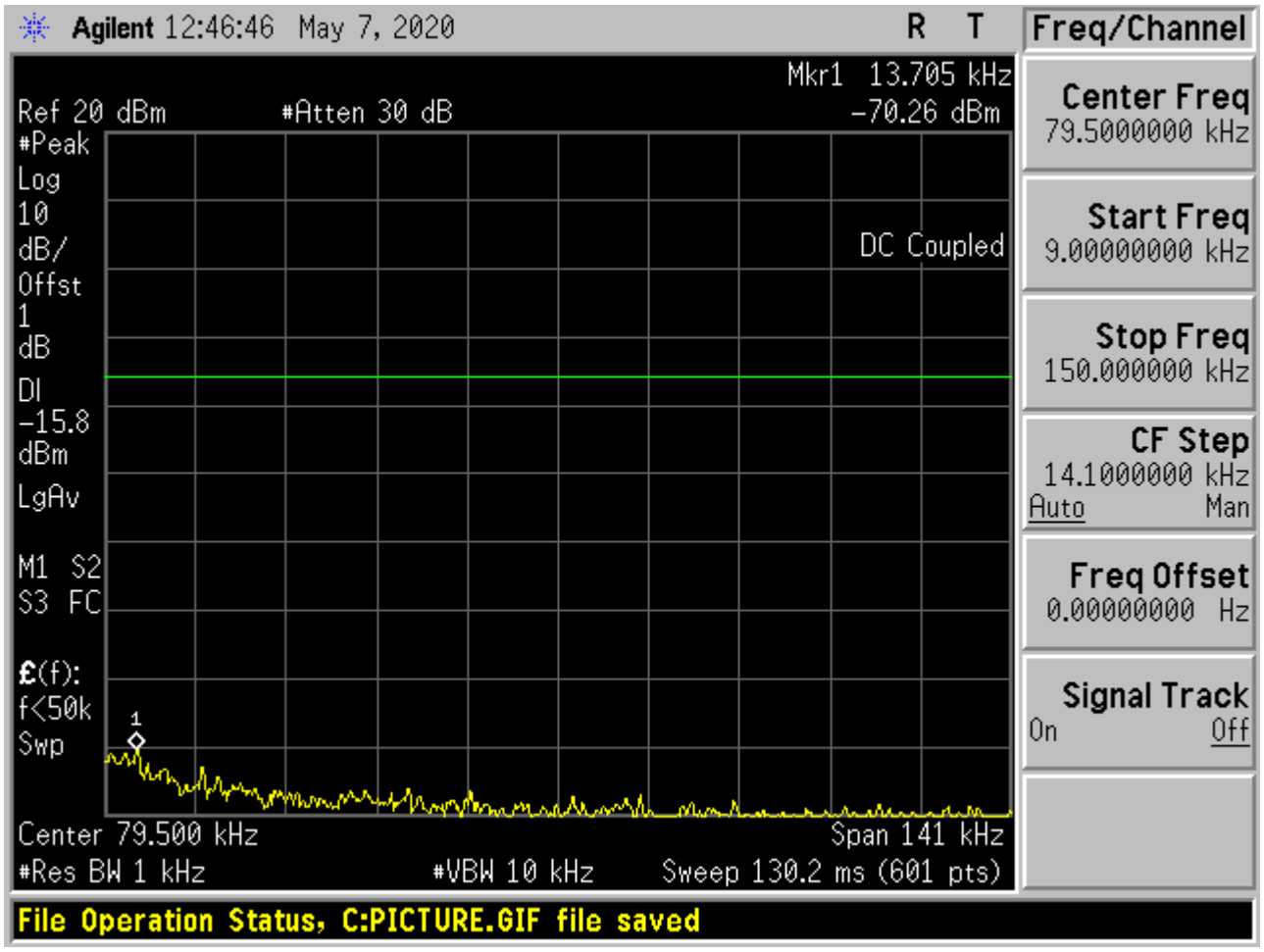
Channel 6

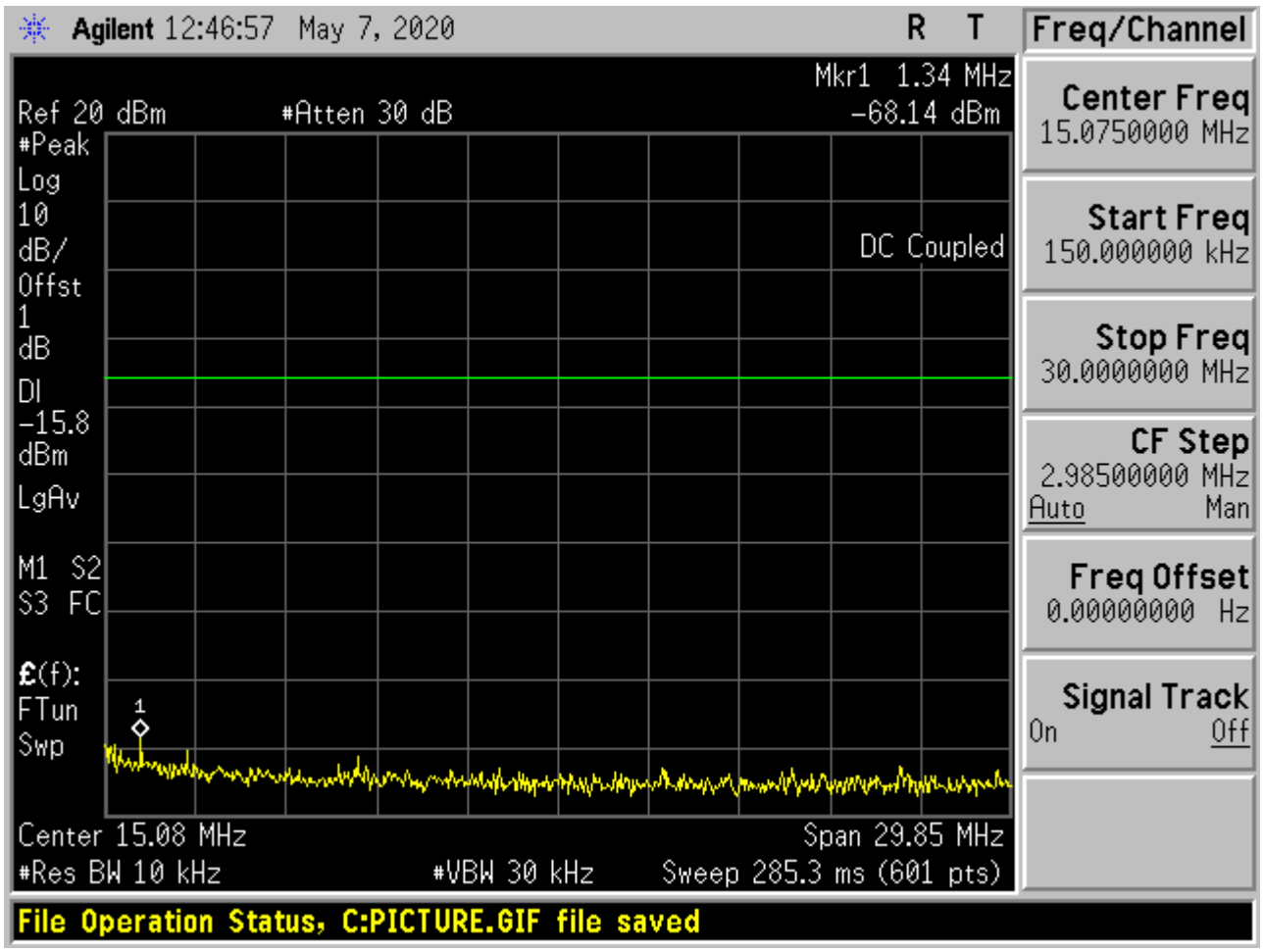

Agilent 12:41:33 May 7, 2020
R T
Freq/Channel
Mkr1 9.689 kHz
Ref 20 dBm
#Atten 30 dB
-70.33 dBm
#Peak
Log
10
dB/
Offst
1
dB
DC Coupled
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Dl
-13.7
dBm
LgAv
M1 S2
S3 FC
£(f):
f<50k
Swp
Center 79.500 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved

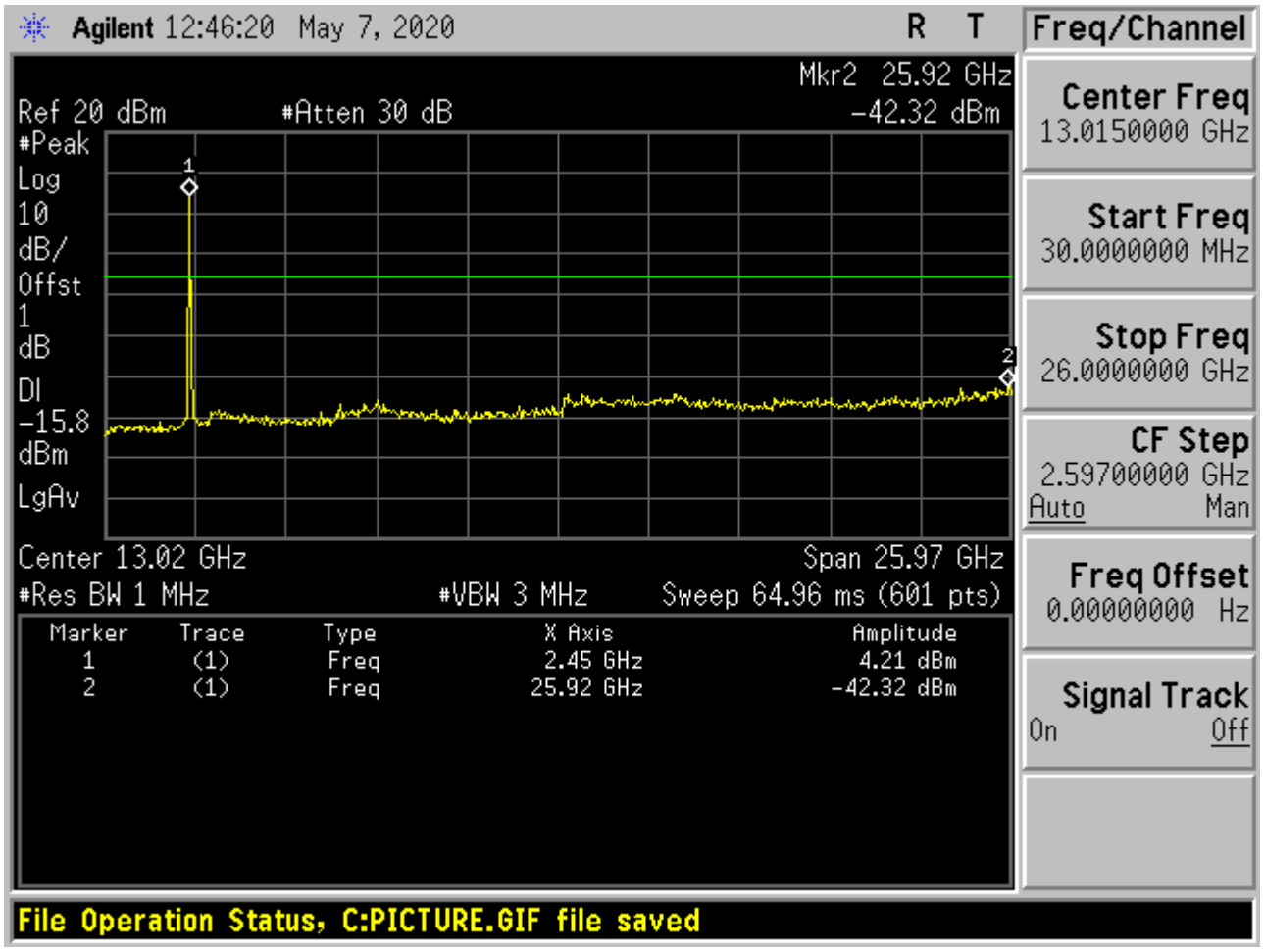

Agilent 12:41:44 May 7, 2020
R T
Freq/Channel
Mkr1 1.34 MHz
Ref 20 dBm
#Atten 30 dB
-68.21 dBm
#Peak
Log
10
dB/
Offst
1
dB
DC Coupled
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved


Agilent 12:41:07 May 7, 2020
R T
Freq/Channel
Mkr2 25.96 GHz
Ref 20 dBm
#Atten 30 dB
-41.74 dBm
#Peak
Log
10
dB/
Offst
1
dB
DI
-13.7
dBm
LgAv
Center Freq
13.0150000 GHz
Start Freq
30.0000000 MHz
Stop Freq
26.0000000 GHz
CF Step
2.59700000 GHz
Auto
Man
Center 13.02 GHz
Span 25.97 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Freq Offset
0.00000000 Hz
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.45 GHz 6.28 dBm
2 (1) Freq 25.96 GHz -41.74 dBm
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

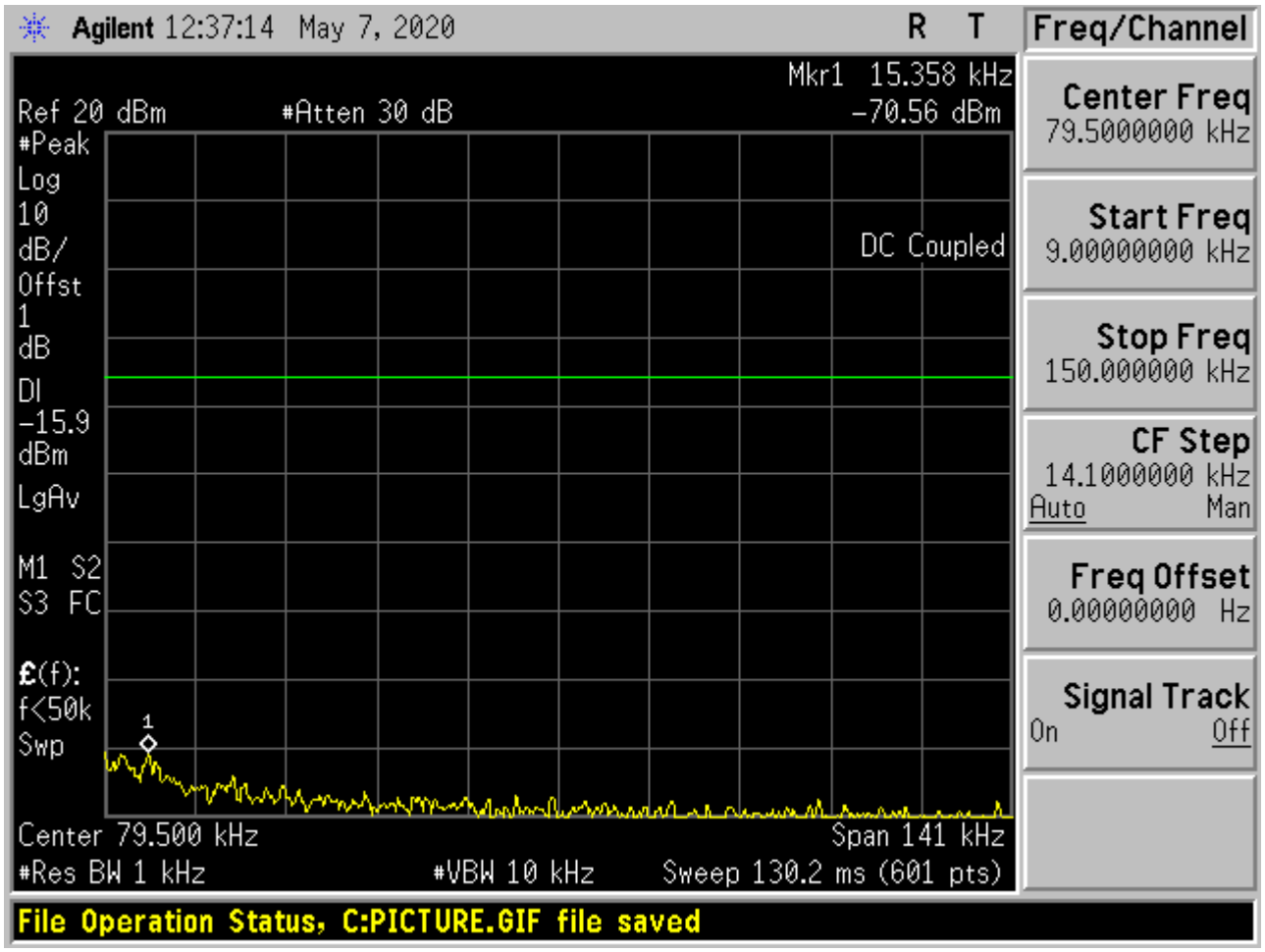
Channel 11

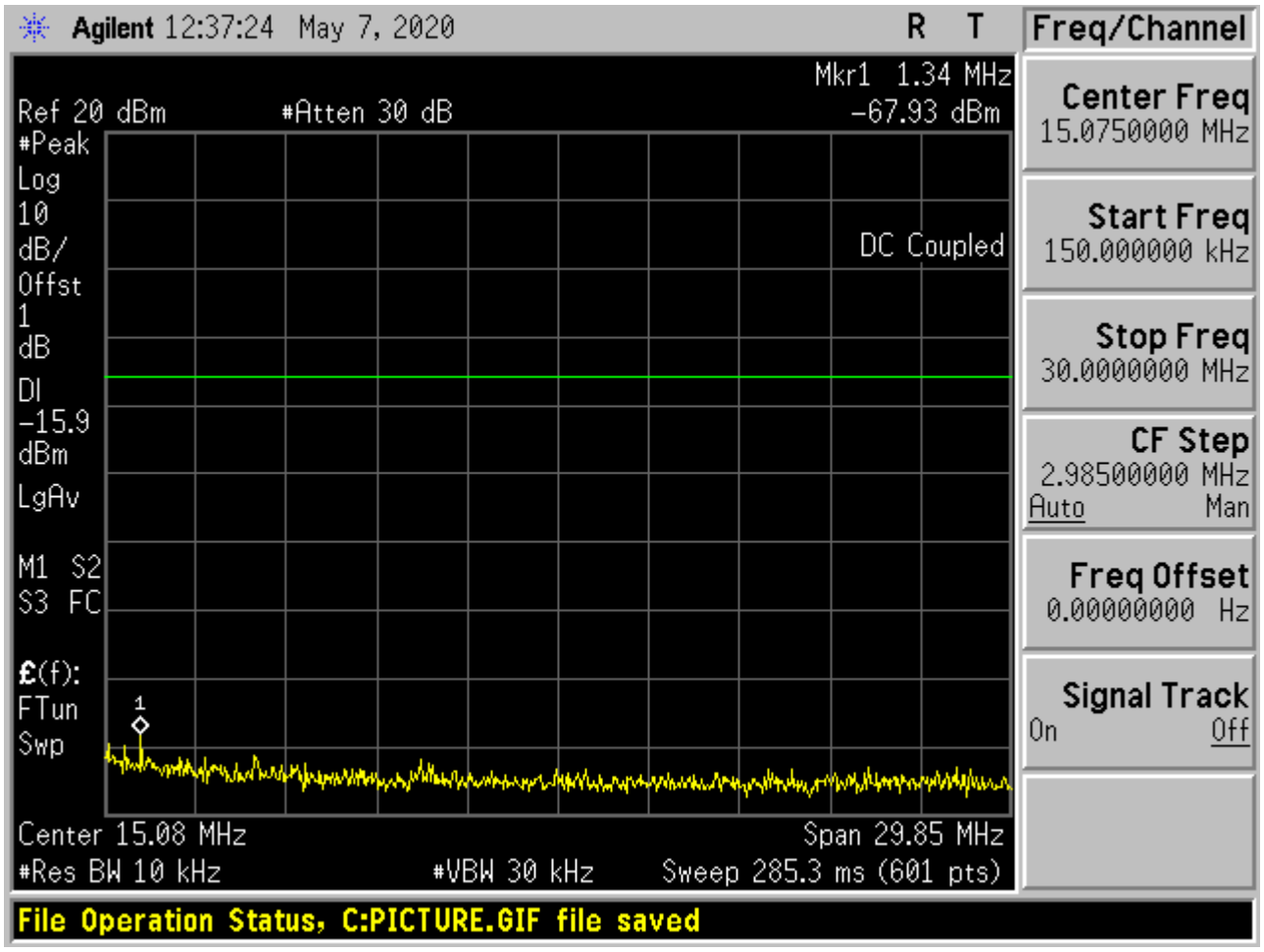

Agilent 12:46:46 May 7, 2020
R T
Freq/Channel
Mkr1 13.705 kHz
Ref 20 dBm
#Atten 30 dB
-70.26 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-15.8
dBm
LgAv
M1 S2
S3 FC
£(f):
f<50k
Swp
DC Coupled
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 79.500 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved

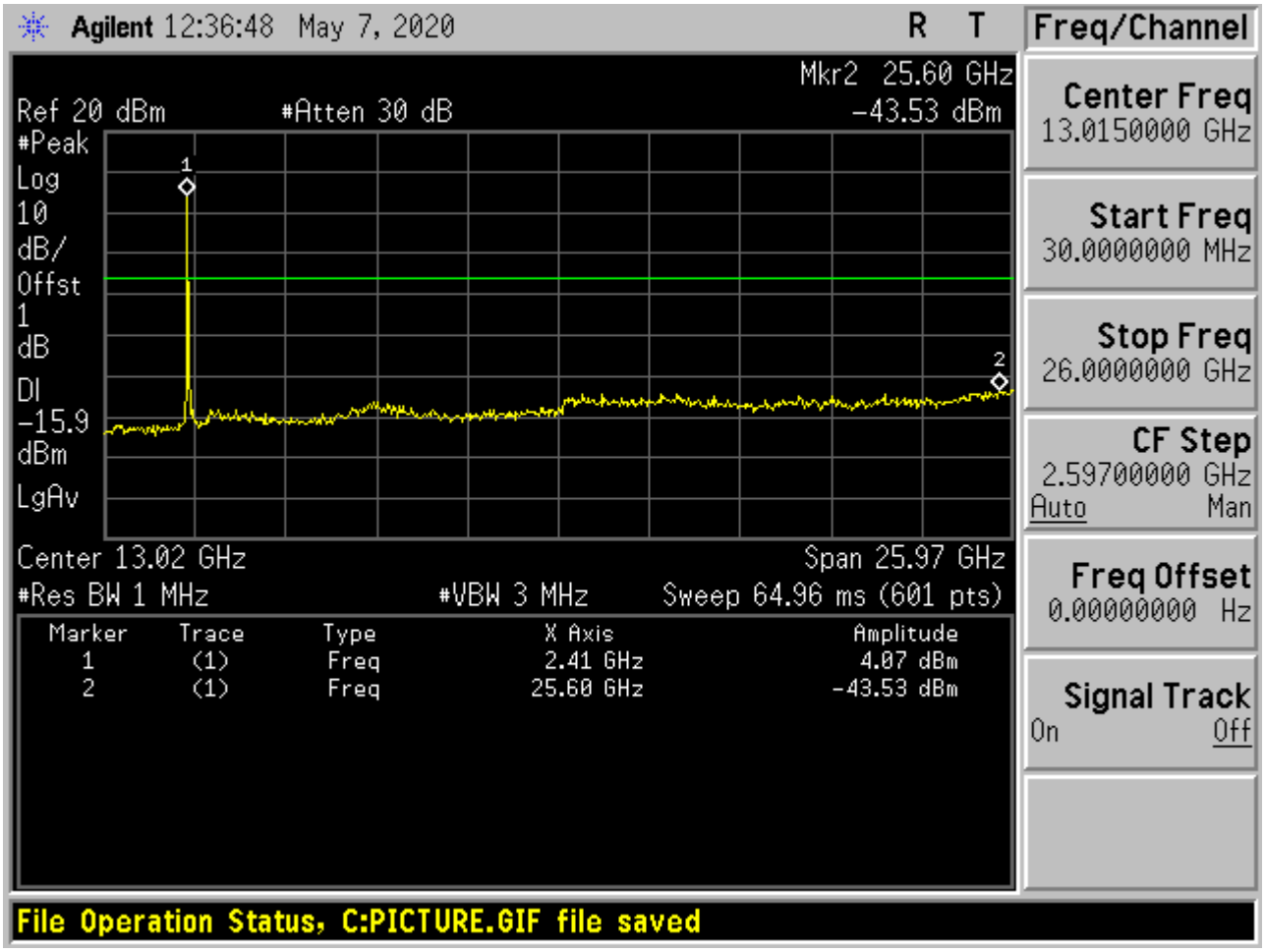

Agilent 12:46:57 May 7, 2020
R T
Freq/Channel
Mkr1 1.34 MHz
Ref 20 dBm
#Atten 30 dB
-68.14 dBm
#Peak
Log
10
dB/
Offst
1
dB
DC Coupled
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
DI
-15.8
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
1
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved


Agilent 12:46:20 May 7, 2020
R T
Freq/Channel
Mkr2 25.92 GHz
Ref 20 dBm
#Atten 30 dB
-42.32 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-15.8
dBm
LgAv
Center 13.02 GHz
Span 25.97 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 4.21 dBm
2 (1) Freq 25.92 GHz -42.32 dBm
Center Freq
13.0150000 GHz
Start Freq
30.0000000 MHz
Stop Freq
26.0000000 GHz
CF Step
2.59700000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

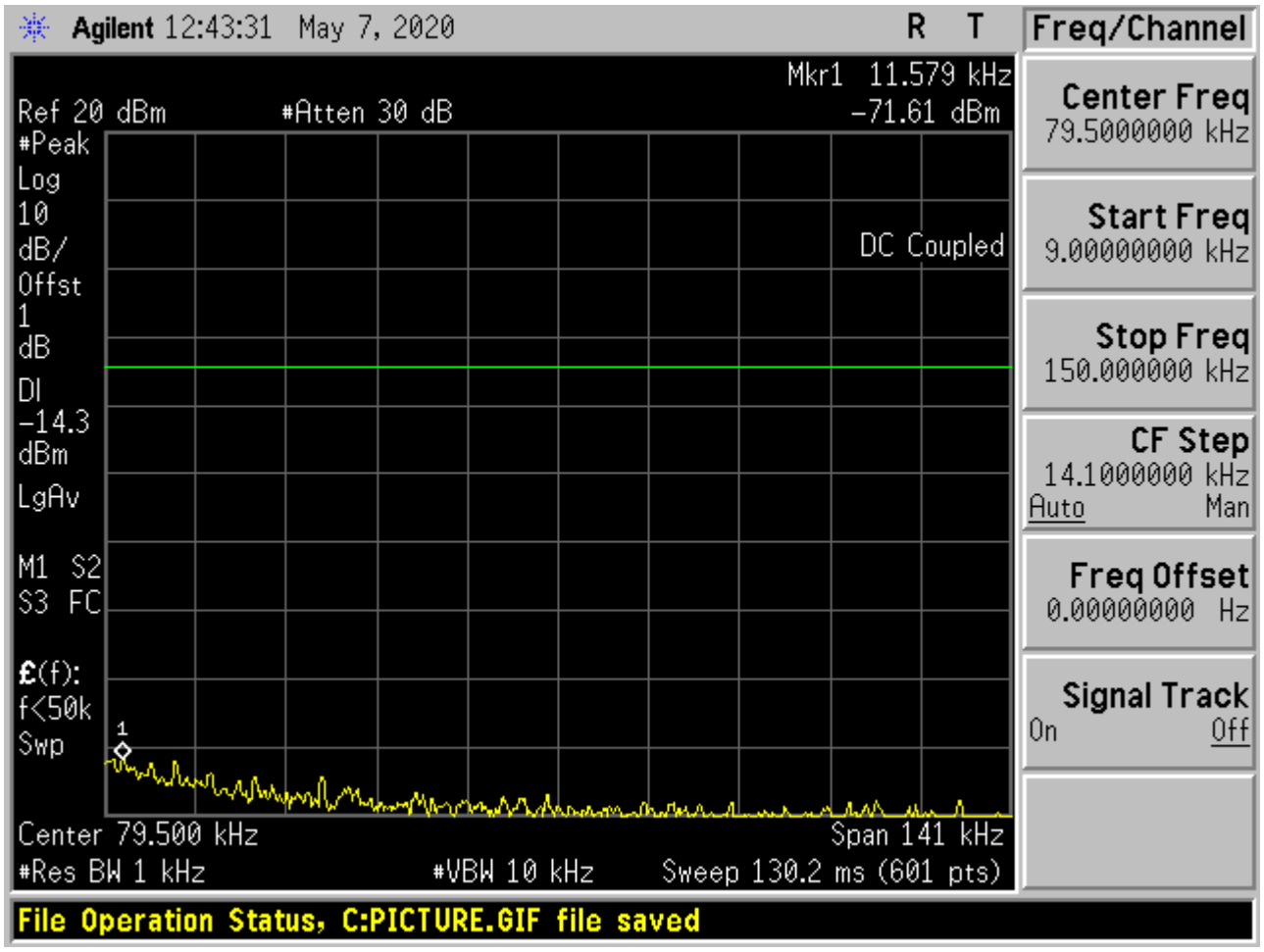
TM2
Channel 1

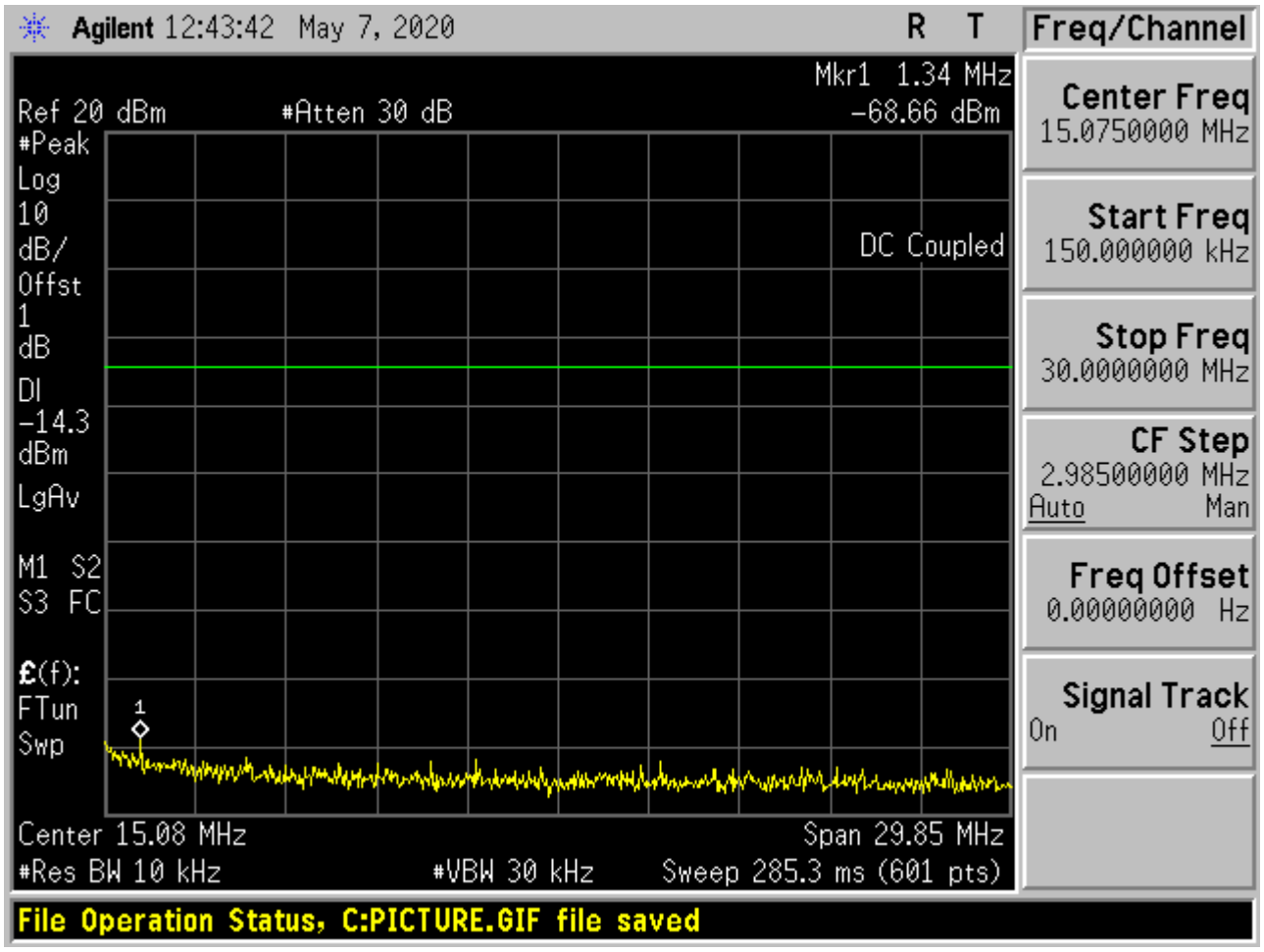


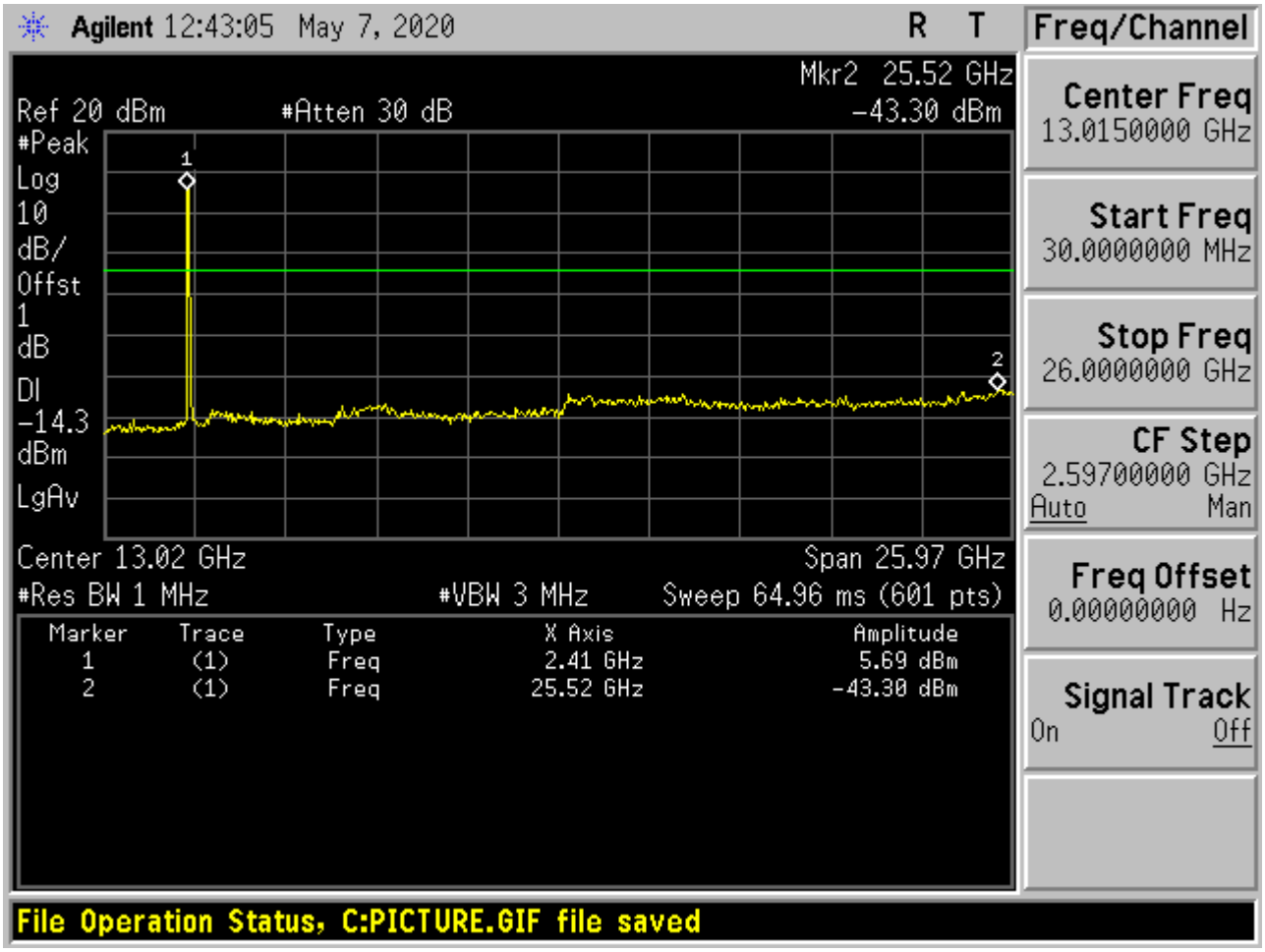

Agilent 12:37:24 May 7, 2020
R T
Freq/Channel
Mkr1 1.34 MHz
Ref 20 dBm
#Atten 30 dB
-67.93 dBm
#Peak
Log
10
dB/
Offst
1
dB
DC Coupled
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved


Agilent 12:36:48 May 7, 2020
R T
Freq/Channel
Mkr2 25.60 GHz
Ref 20 dBm
#Atten 30 dB
-43.53 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-15.9
dBm
LgAv
Center 13.02 GHz
Span 25.97 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 4.07 dBm
2 (1) Freq 25.60 GHz -43.53 dBm
Center Freq
13.0150000 GHz
Start Freq
30.0000000 MHz
Stop Freq
26.0000000 GHz
CF Step
2.59700000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

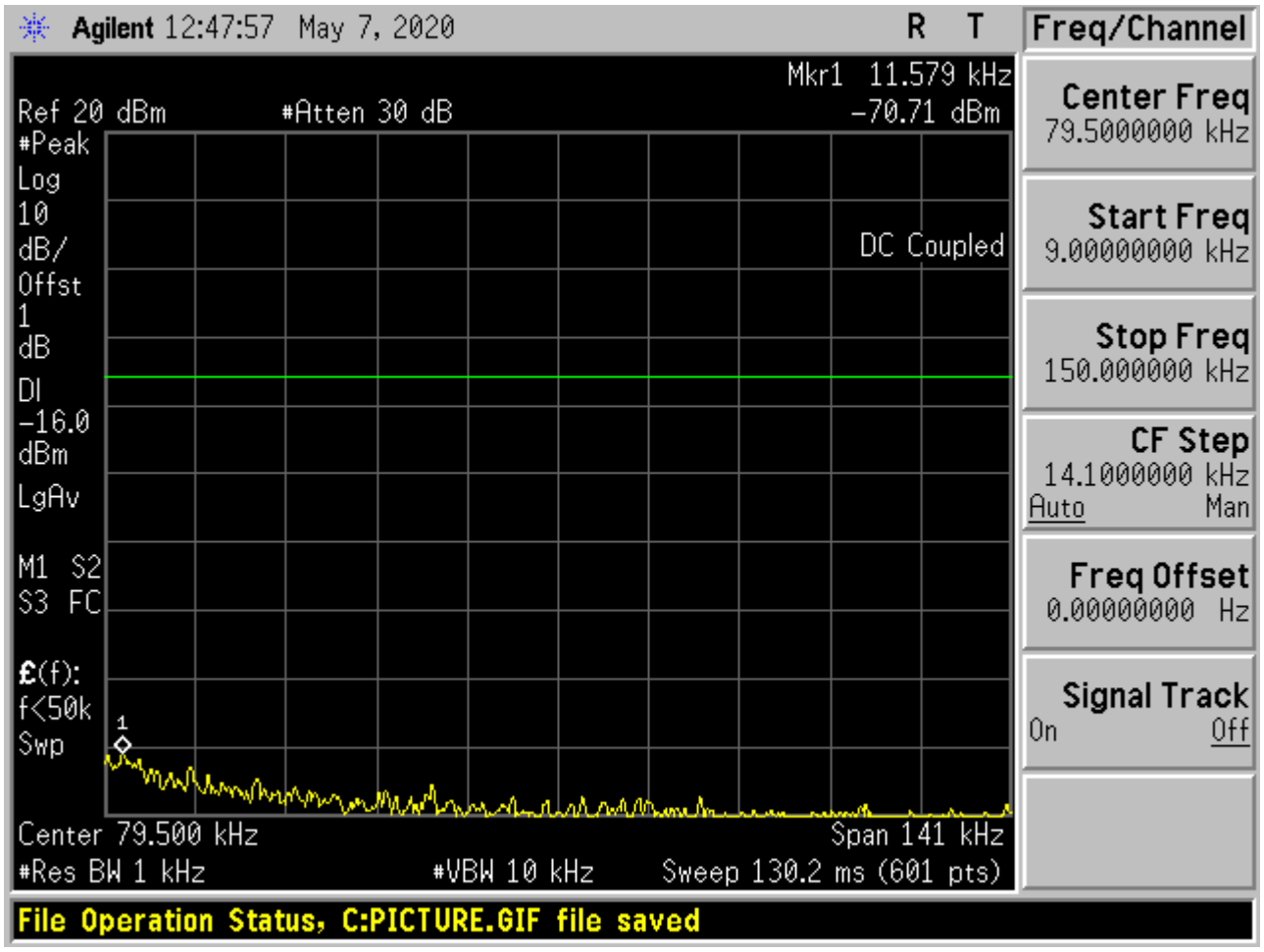
Channel 6

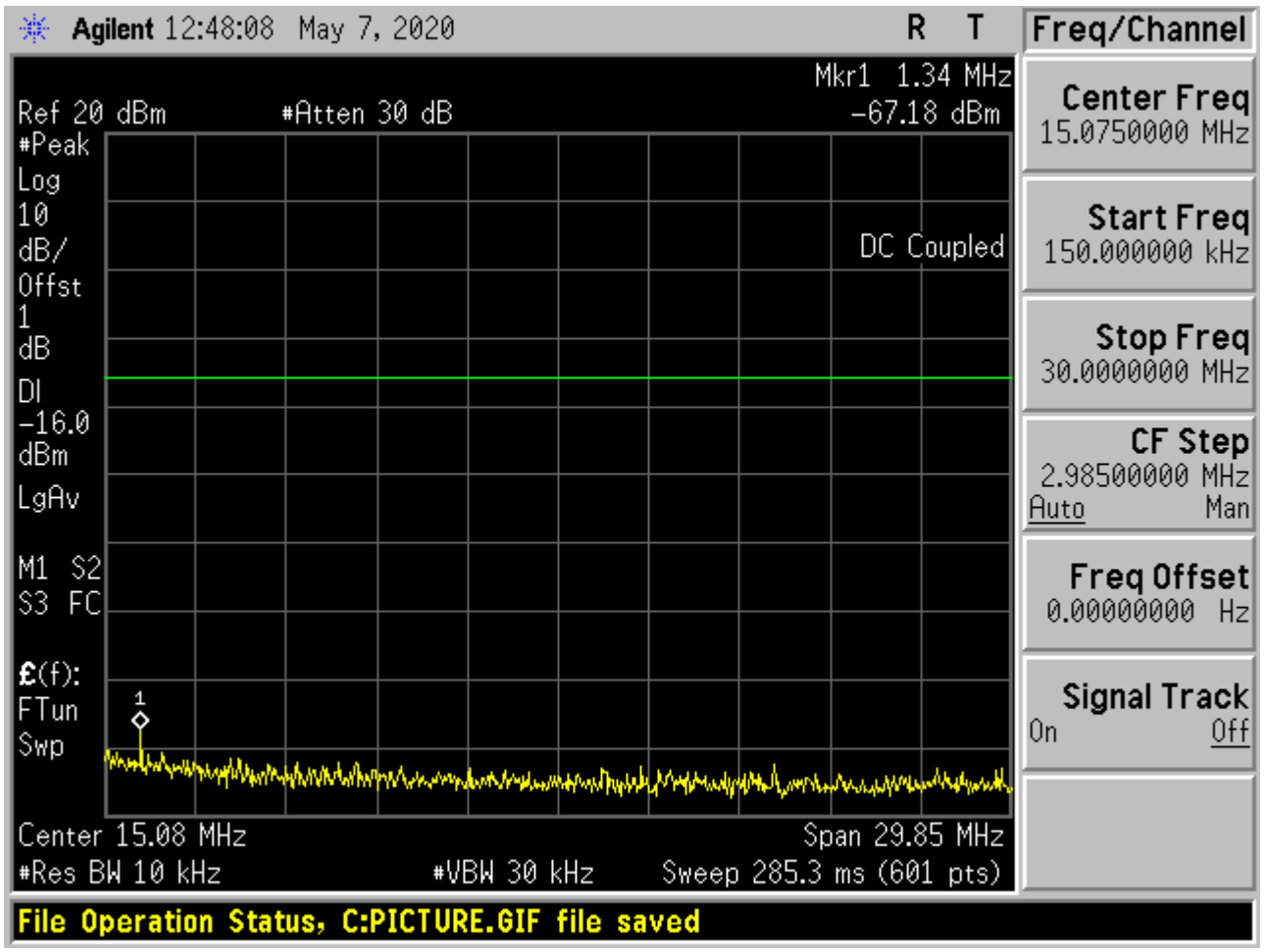

Agilent 12:43:31 May 7, 2020
R T
Freq/Channel
Mkr1 11.579 kHz
Ref 20 dBm
#Atten 30 dB
-71.61 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-14.3
dBm
LgAv
M1 S2
S3 FC
£(f):
f<50k
Swp
DC Coupled
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 79.500 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved

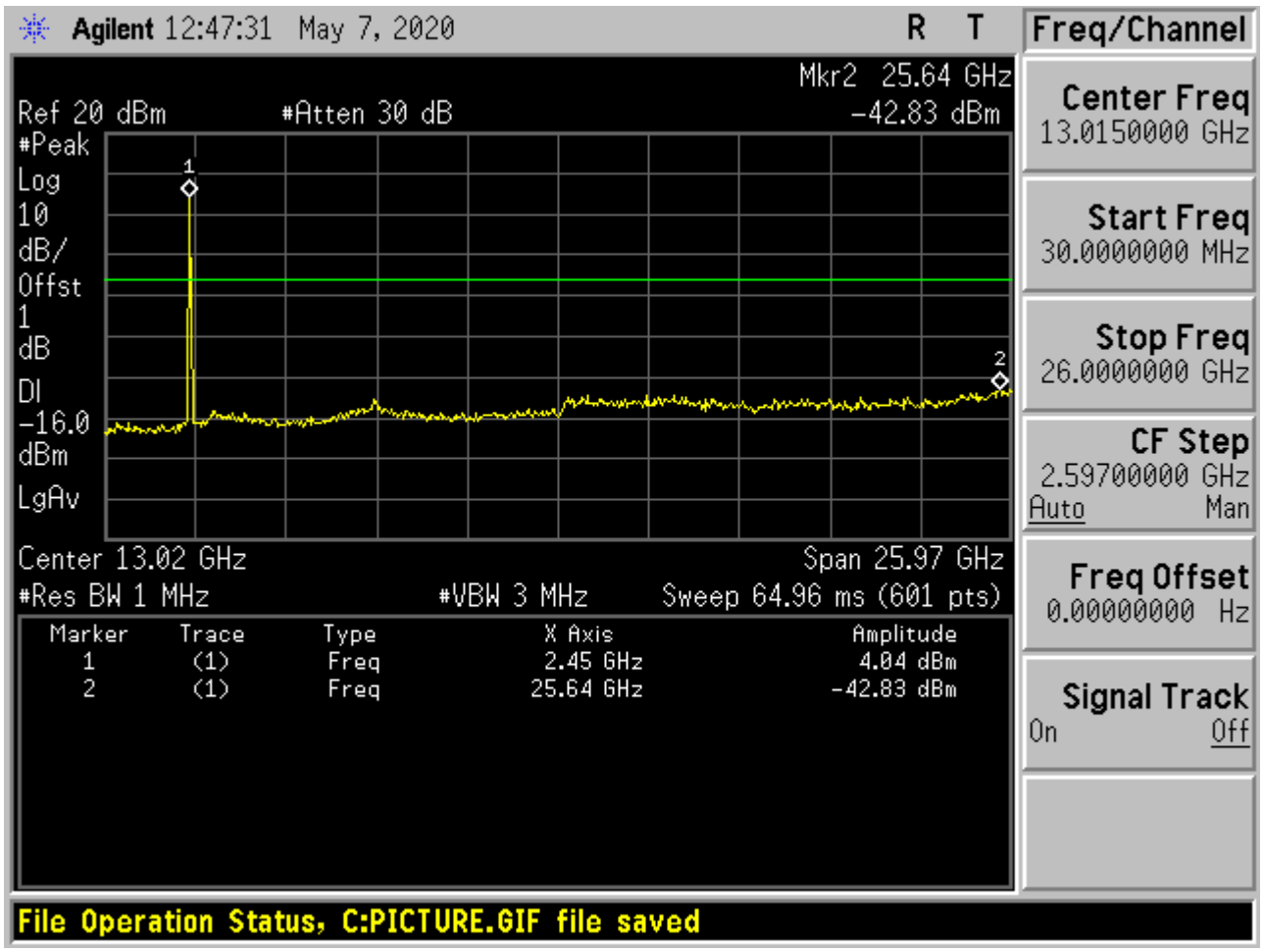

Agilent 12:43:42 May 7, 2020
R T
Freq/Channel
Mkr1 1.34 MHz
Ref 20 dBm
#Atten 30 dB
-68.66 dBm
#Peak
Log
10
dB/
Offst
1
dB
DC Coupled
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved


Agilent 12:43:05 May 7, 2020
R T
Freq/Channel
Mkr2 25.52 GHz
Ref 20 dBm
#Atten 30 dB
-43.30 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-14.3
dBm
LgAv
1
2
Center 13.02 GHz
Span 25.97 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 5.69 dBm
2 (1) Freq 25.52 GHz -43.30 dBm
Center Freq
13.0150000 GHz
Start Freq
30.0000000 MHz
Stop Freq
26.0000000 GHz
CF Step
2.59700000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

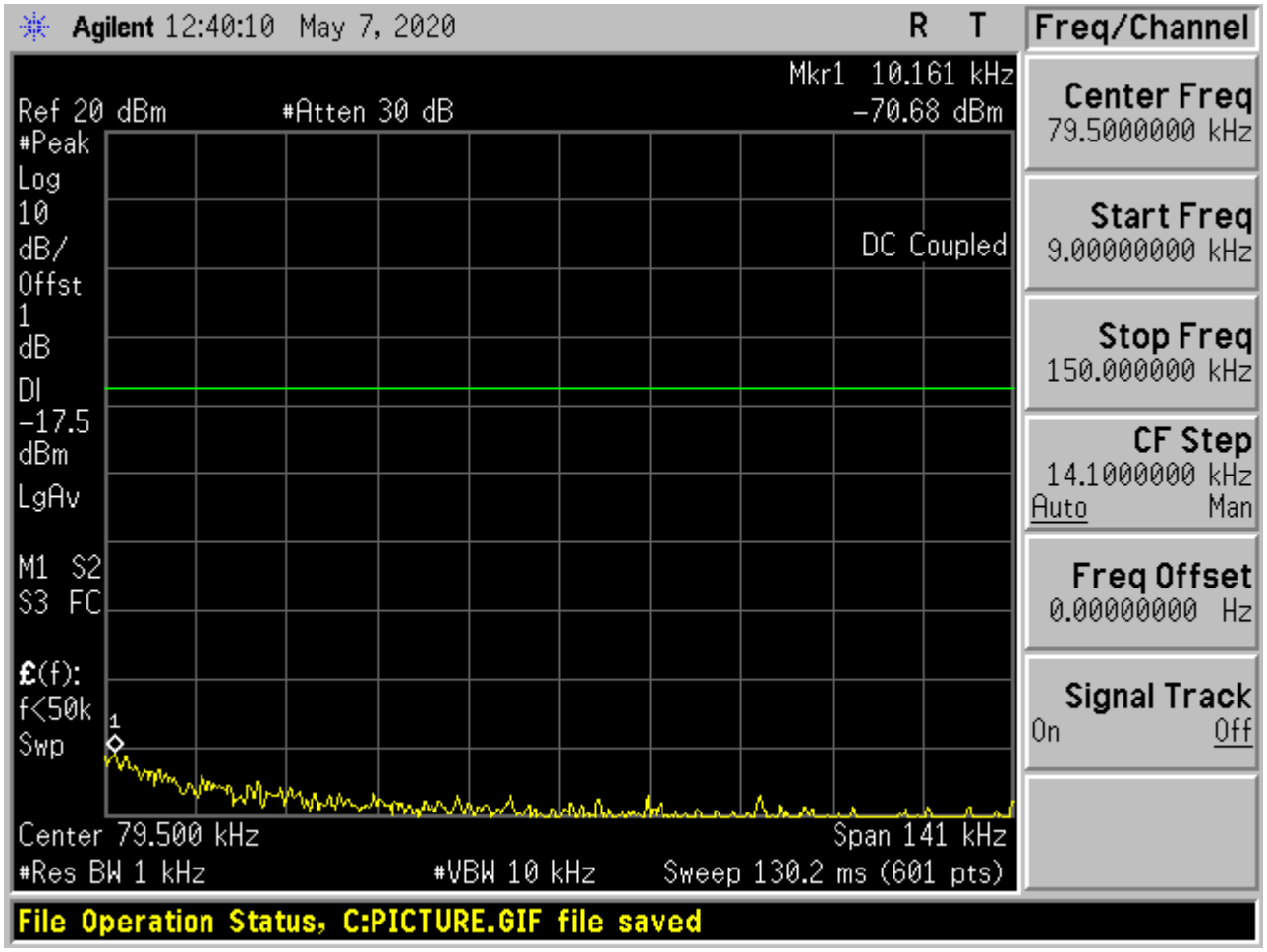
Channel 11

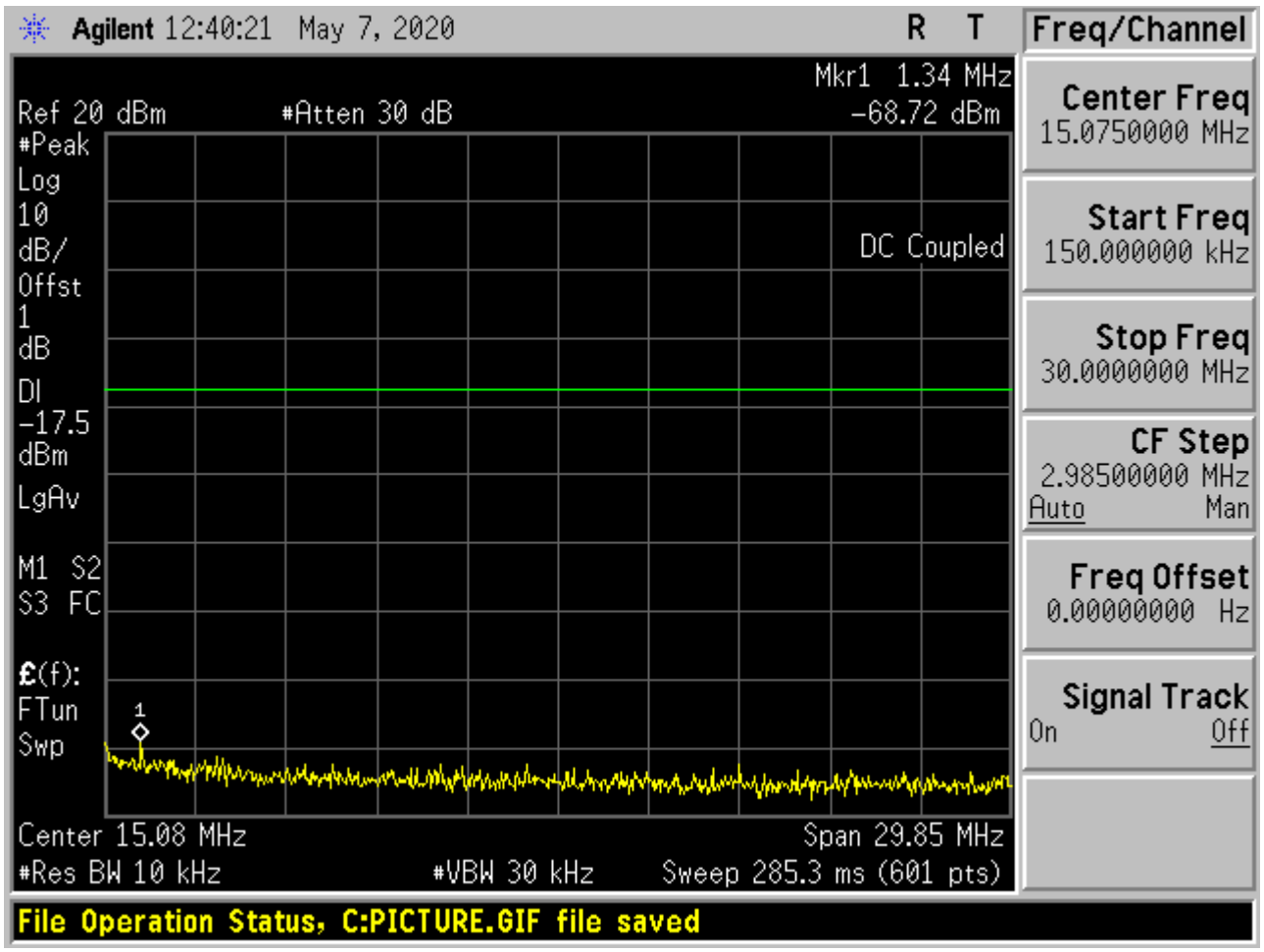

Agilent 12:47:57 May 7, 2020
R T
Freq/Channel
Mkr1 11.579 kHz
Ref 20 dBm
#Atten 30 dB
-70.71 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-16.0
dBm
LgAv
M1 S2
S3 FC
£(f):
f<50k
Swp
DC Coupled
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 79.500 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved

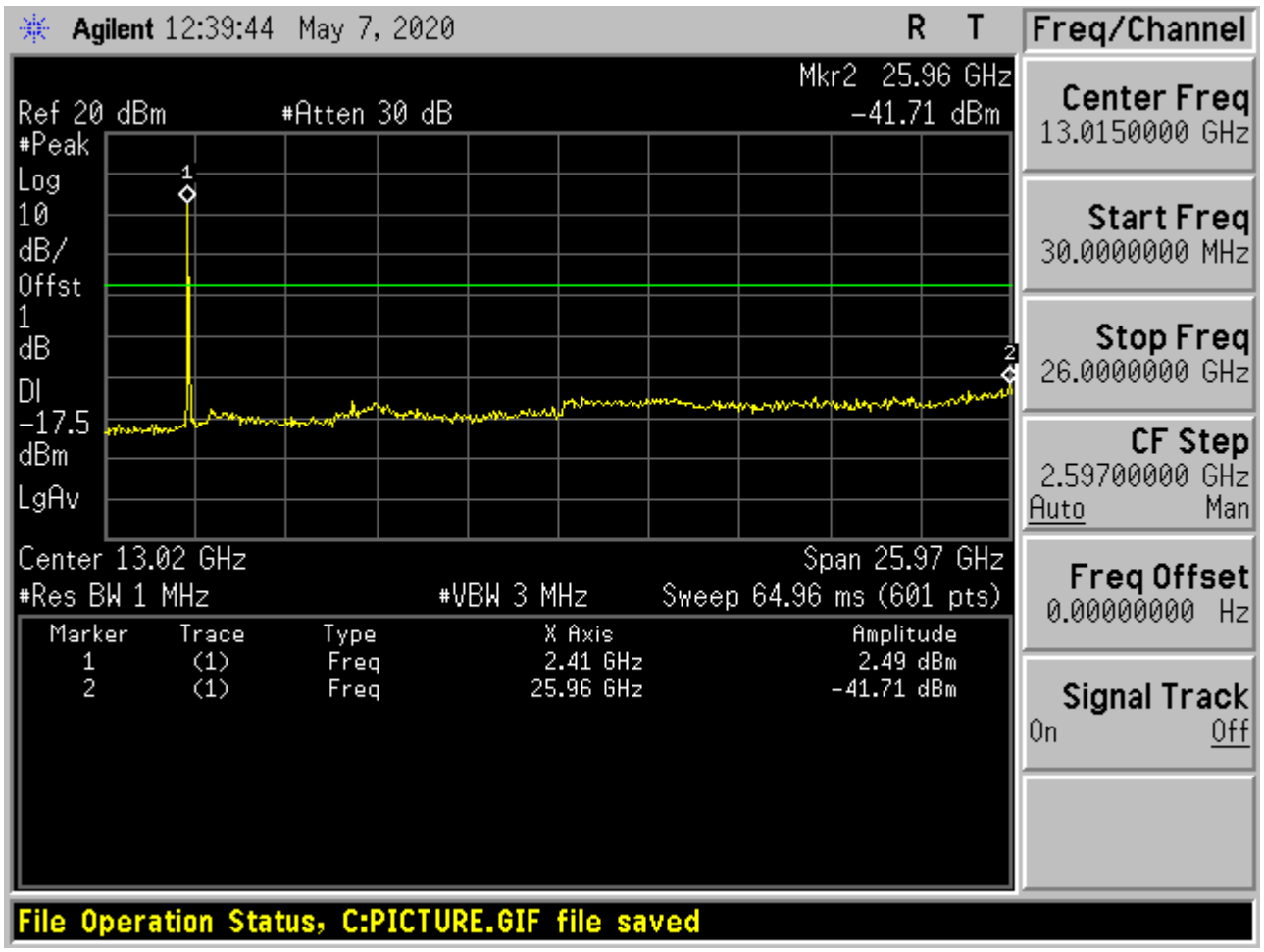

Agilent 12:48:08 May 7, 2020
R T
Freq/Channel
Mkr1 1.34 MHz
Ref 20 dBm
#Atten 30 dB
-67.18 dBm
#Peak
Log
10
dB/
Offst
1
dB
DC Coupled
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
DI
-16.0
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
1
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved


Agilent 12:47:31 May 7, 2020
R T
Freq/Channel
Mkr2 25.64 GHz
Ref 20 dBm
#Atten 30 dB
-42.83 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-16.0
dBm
LgAv
Center 13.02 GHz
Span 25.97 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 4.04 dBm
2 (1) Freq 25.64 GHz -42.83 dBm
Center Freq
13.0150000 GHz
Start Freq
30.0000000 MHz
Stop Freq
26.0000000 GHz
CF Step
2.59700000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

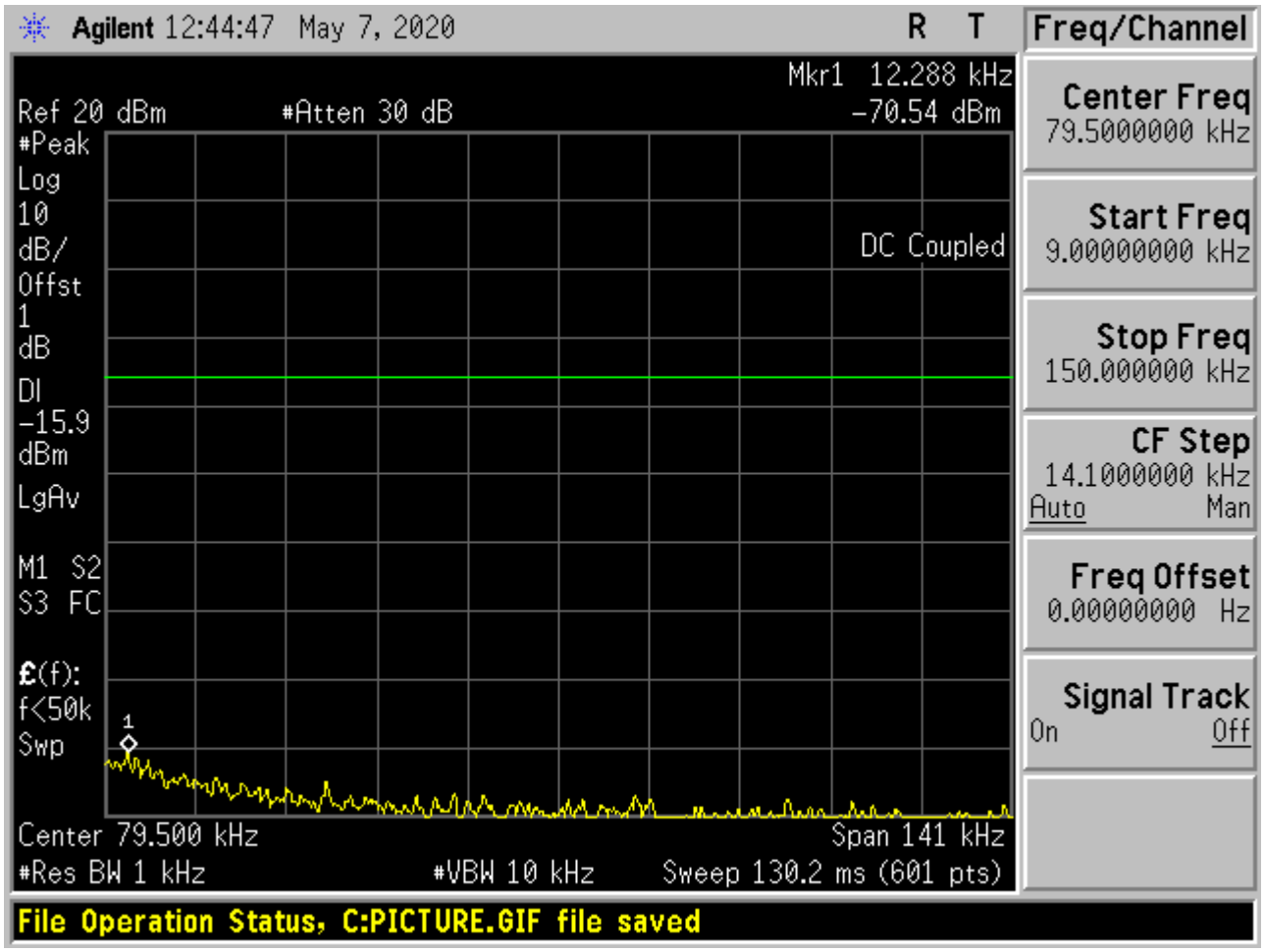
TM3
Channel 1

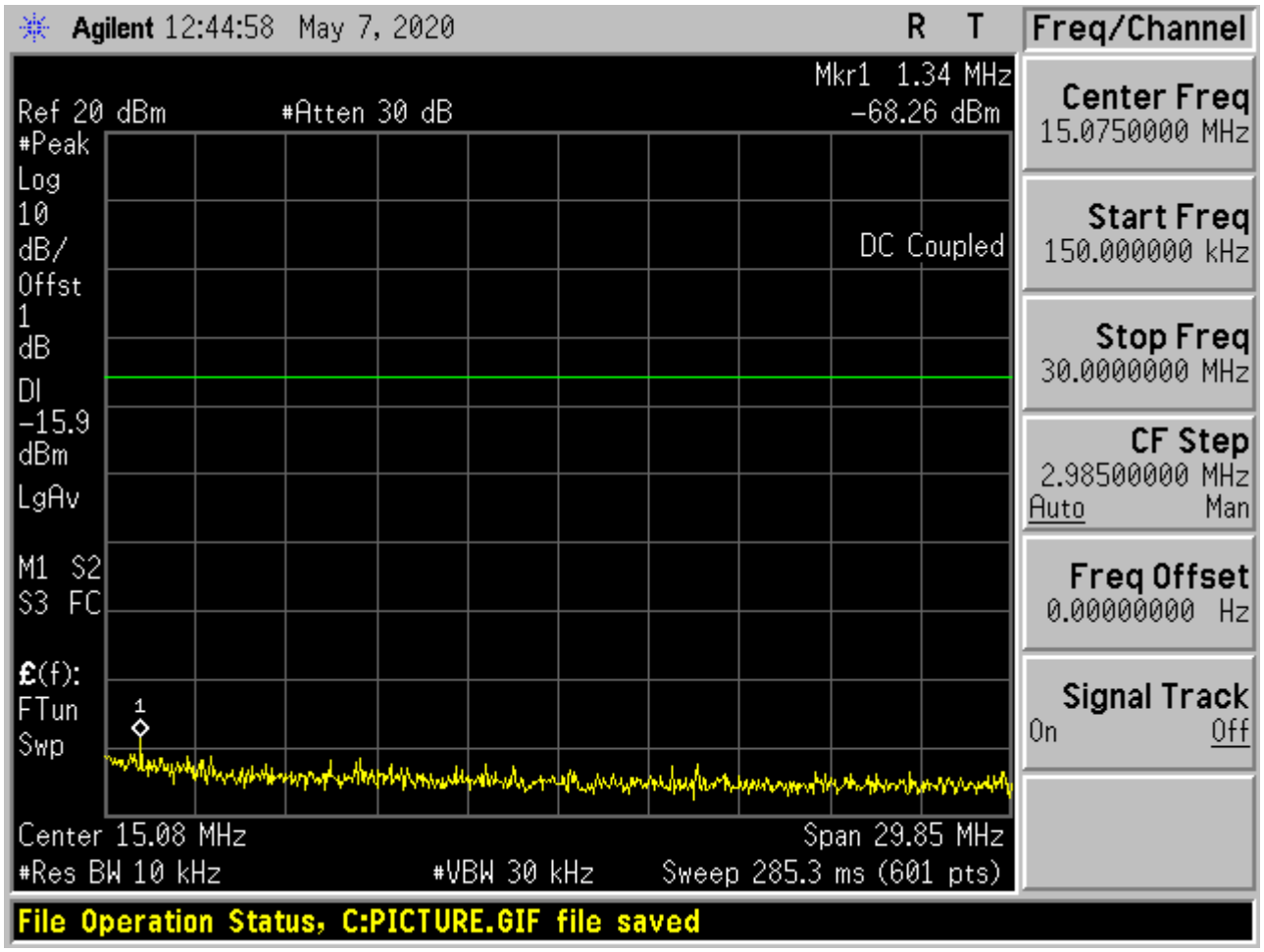


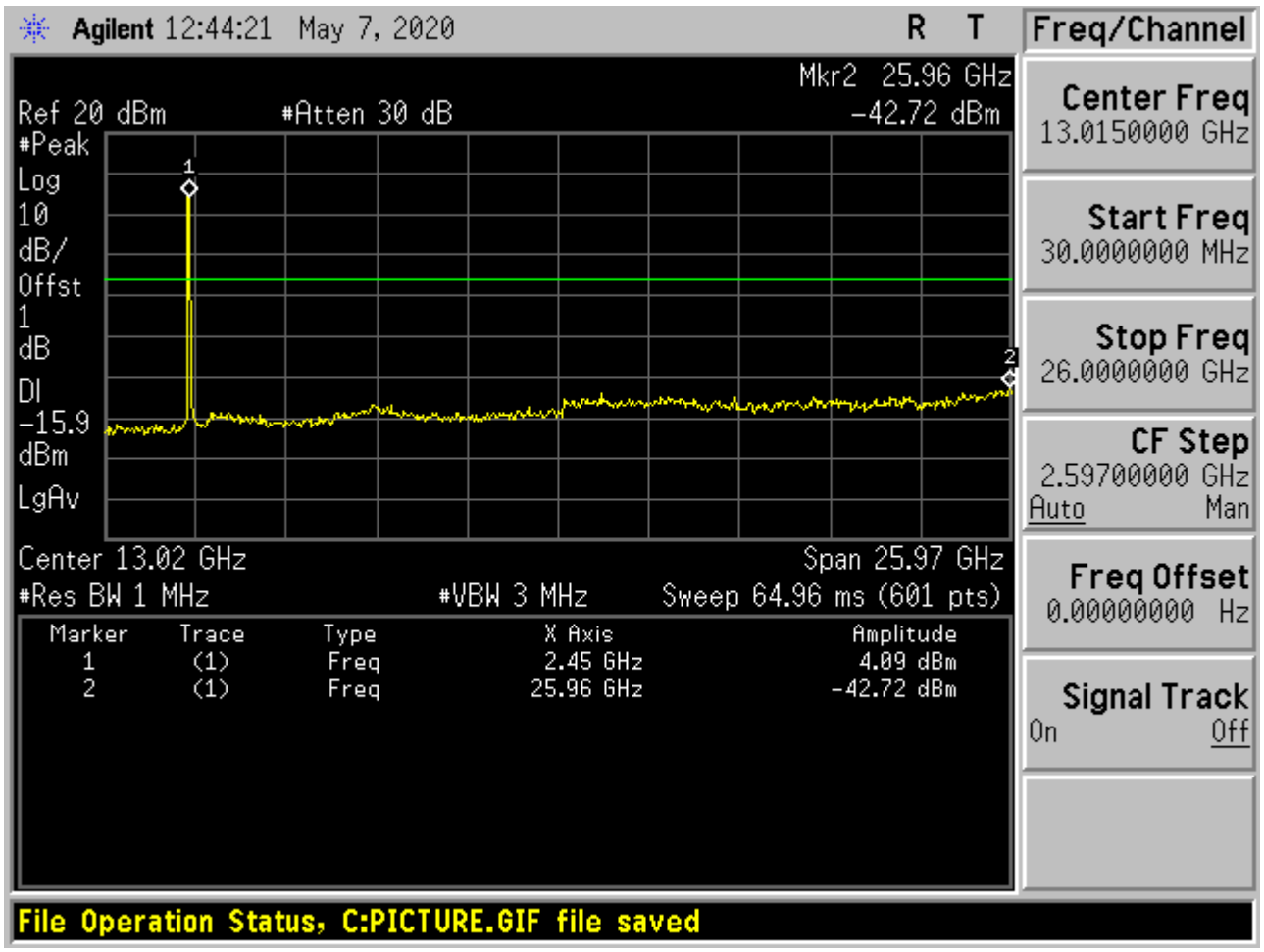

Agilent 12:40:21 May 7, 2020
R T
Freq/Channel
Mkr1 1.34 MHz
Ref 20 dBm
#Atten 30 dB
-68.72 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-17.5
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
DC Coupled
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved


Agilent 12:39:44 May 7, 2020
R T
Freq/Channel
Mkr2 25.96 GHz
Ref 20 dBm
#Atten 30 dB
-41.71 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-17.5
dBm
LgAv
Center 13.02 GHz
Span 25.97 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 2.49 dBm
2 (1) Freq 25.96 GHz -41.71 dBm
Center Freq
13.0150000 GHz
Start Freq
30.0000000 MHz
Stop Freq
26.0000000 GHz
CF Step
2.59700000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

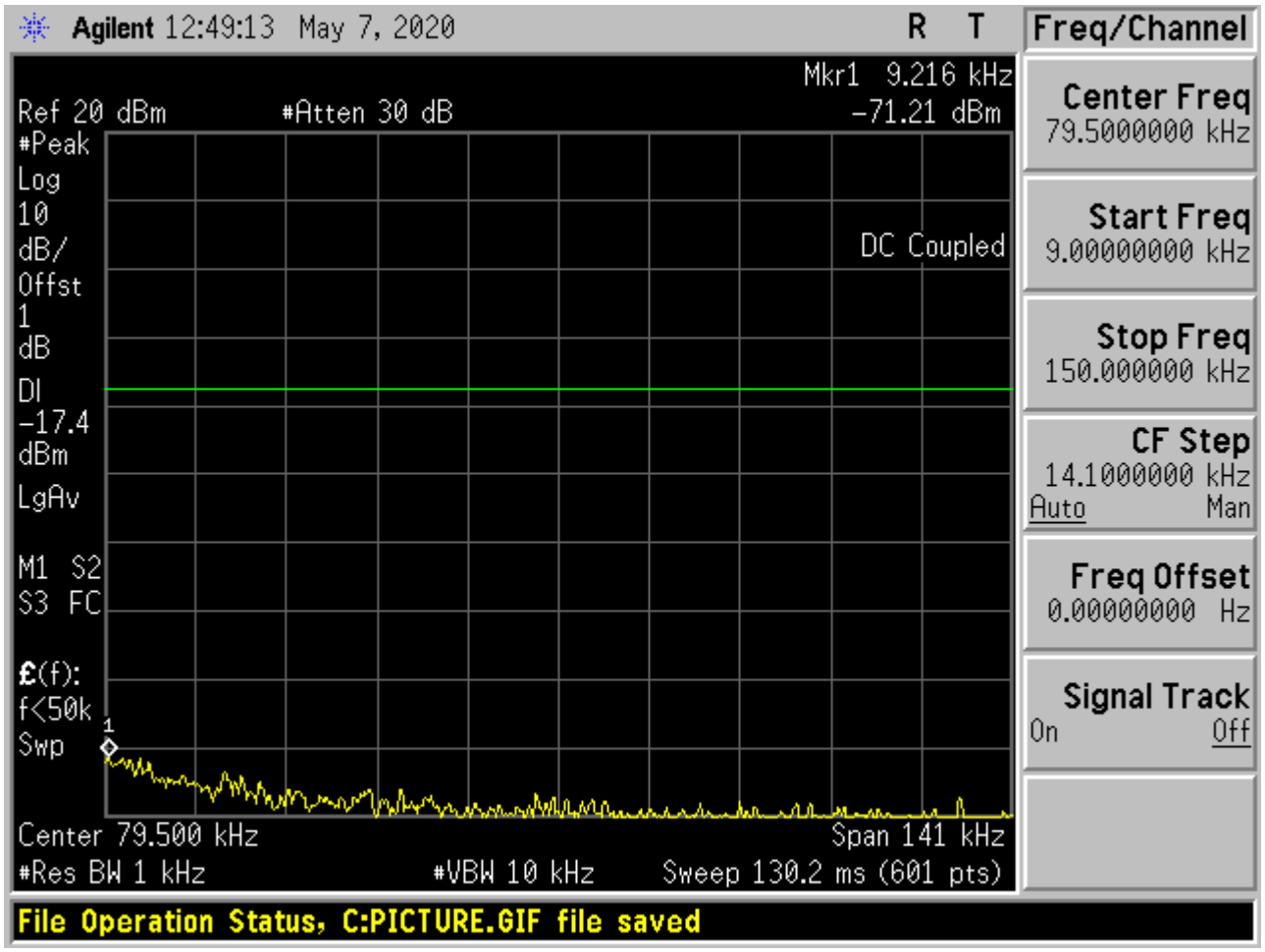
Channel 6

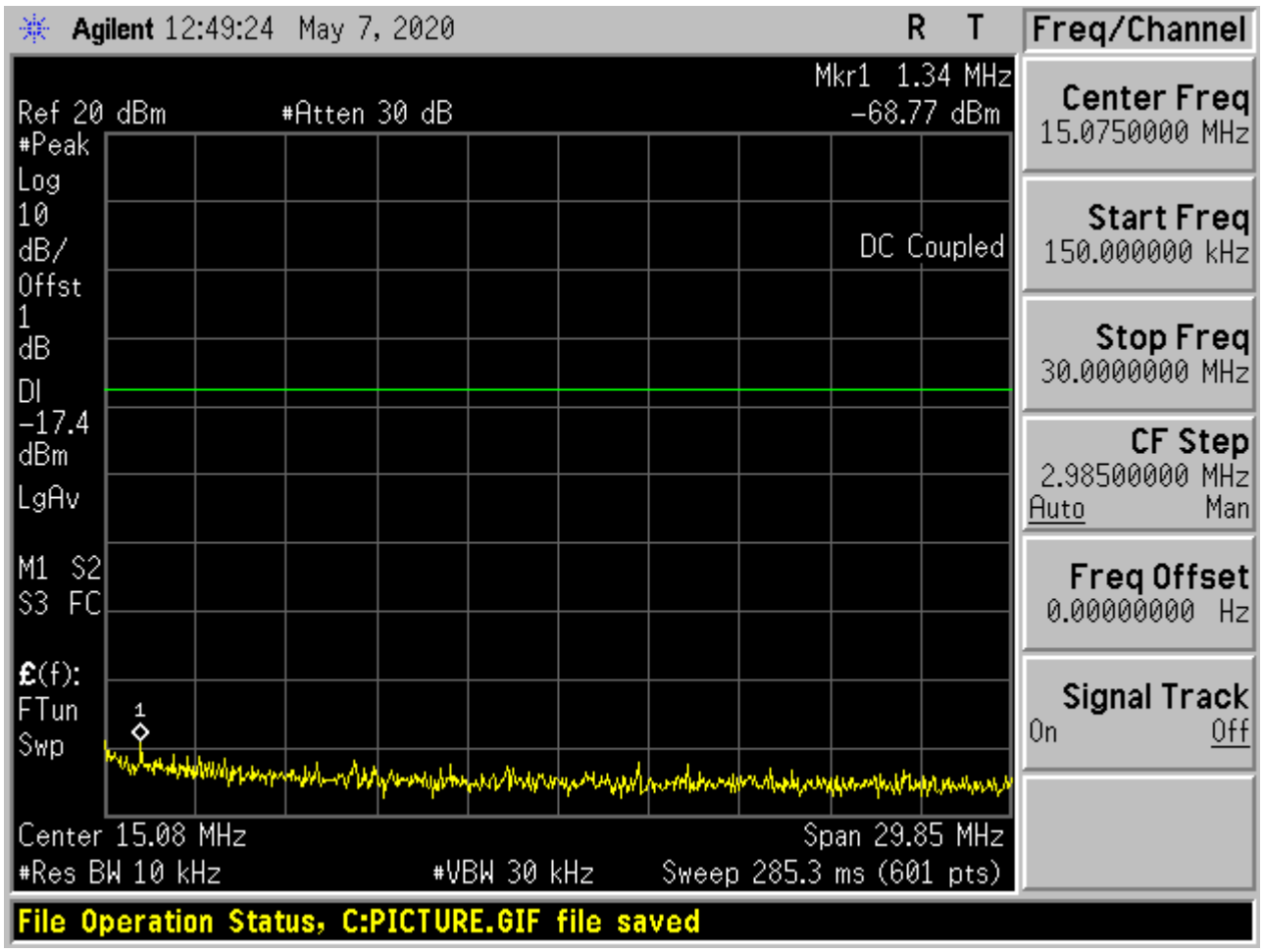

Agilent 12:44:47 May 7, 2020
R T
Freq/Channel
Mkr1 12.288 kHz
Ref 20 dBm
#Atten 30 dB
-70.54 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-15.9
dBm
LgAv
M1 S2
S3 FC
£(f):
f<50k
Swp
DC Coupled
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 79.500 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved

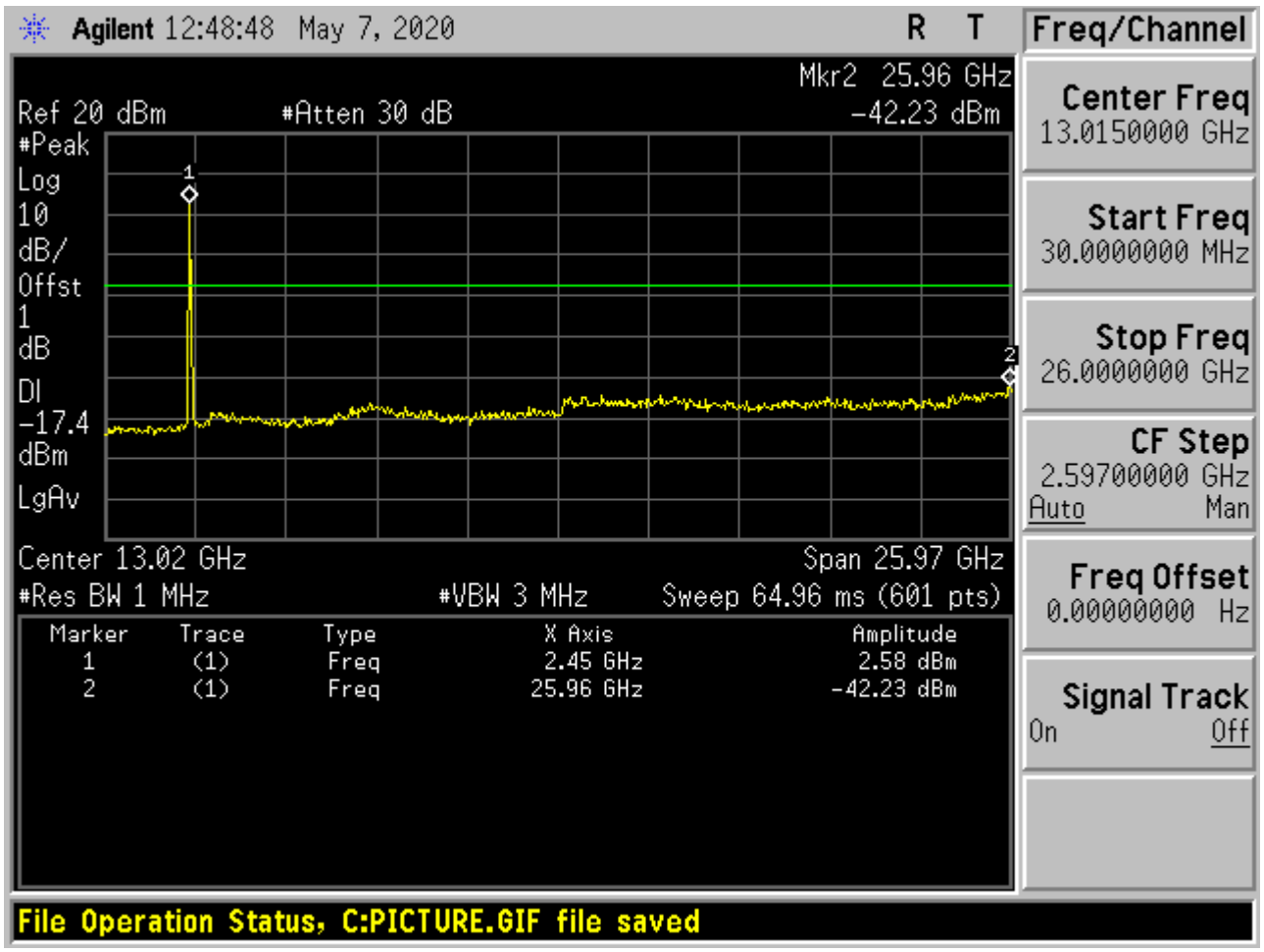

Agilent 12:44:58 May 7, 2020
R T
Freq/Channel
Mkr1 1.34 MHz
Ref 20 dBm
#Atten 30 dB
-68.26 dBm
#Peak
Log
10
dB/
Offst
1
dB
DI
-15.9
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
DC Coupled
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved


Agilent 12:44:21 May 7, 2020
R T
Freq/Channel
Mkr2 25.96 GHz
Ref 20 dBm
#Atten 30 dB
-42.72 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-15.9
dBm
LgAv
Center 13.02 GHz
Span 25.97 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 4.09 dBm
2 (1) Freq 25.96 GHz -42.72 dBm
Center Freq
13.0150000 GHz
Start Freq
30.0000000 MHz
Stop Freq
26.0000000 GHz
CF Step
2.59700000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

Channel 11


Agilent 12:49:13 May 7, 2020
R T
Freq/Channel
Mkr1 9.216 kHz
Ref 20 dBm
#Atten 30 dB
-71.21 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-17.4
dBm
LgAv
DC Coupled
M1 S2
S3 FC
£(f):
f<50k
Swp
Center 79.500 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 10 kHz
Sweep 130.2 ms (601 pts)
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved


Agilent 12:49:24 May 7, 2020
R T
Freq/Channel
Mkr1 1.34 MHz
Ref 20 dBm
#Atten 30 dB
-68.77 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-17.4
dBm
LgAv
M1 S2
S3 FC
£(f):
FTun
Swp
DC Coupled
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 285.3 ms (601 pts)
File Operation Status, C:PICTURE.GIF file saved

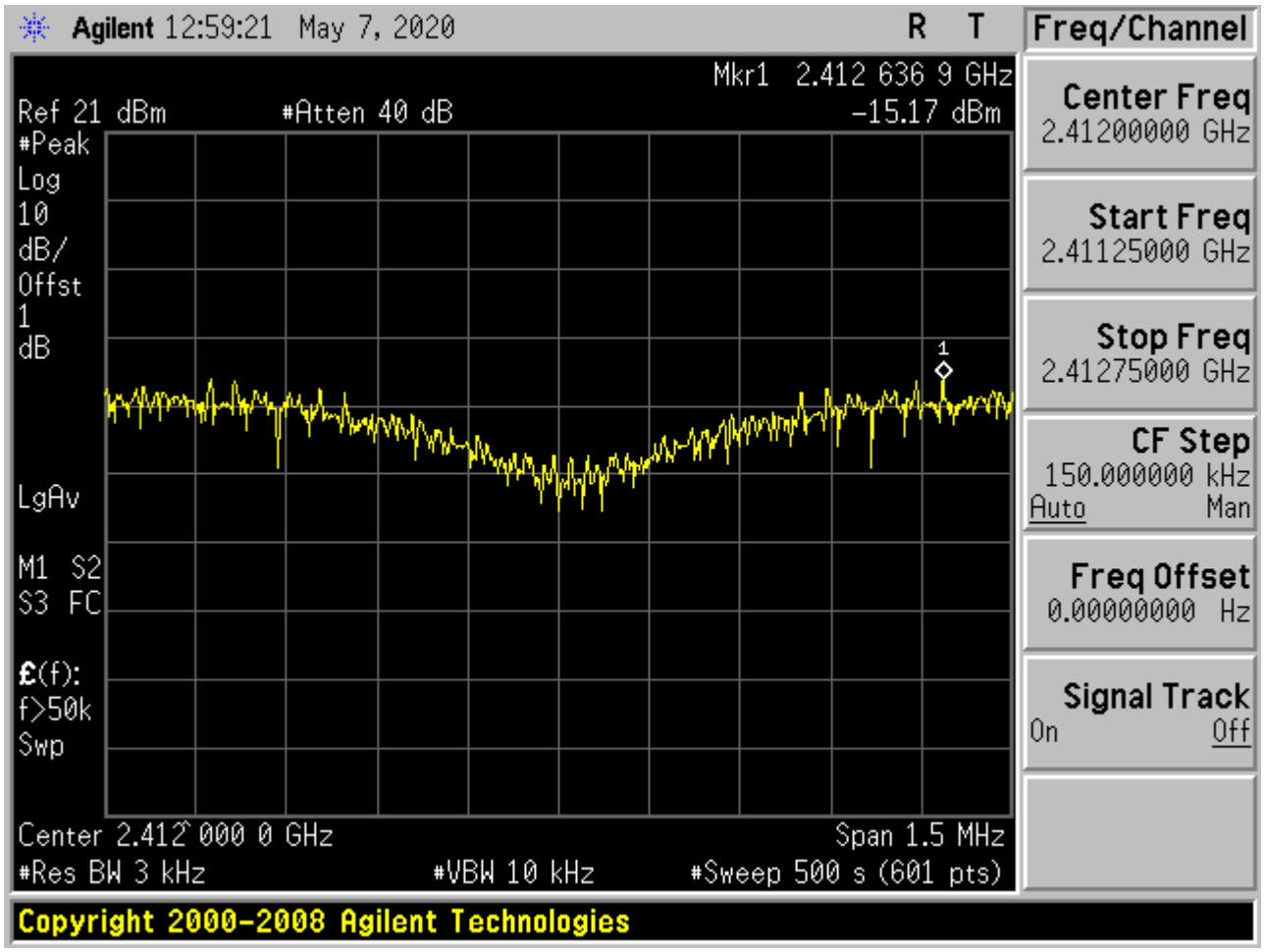

Agilent 12:48:48 May 7, 2020
R T
Freq/Channel
Mkr2 25.96 GHz
Ref 20 dBm
#Atten 30 dB
-42.23 dBm
#Peak
Log
10
dB/
Offst
1
dB
Dl
-17.4
dBm
LgAv
Center 13.02 GHz
Span 25.97 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 64.96 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.45 GHz 2.58 dBm
2 (1) Freq 25.96 GHz -42.23 dBm
Center Freq
13.0150000 GHz
Start Freq
30.0000000 MHz
Stop Freq
26.0000000 GHz
CF Step
2.59700000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
File Operation Status, C:PICTURE.GIF file saved

Appendix E

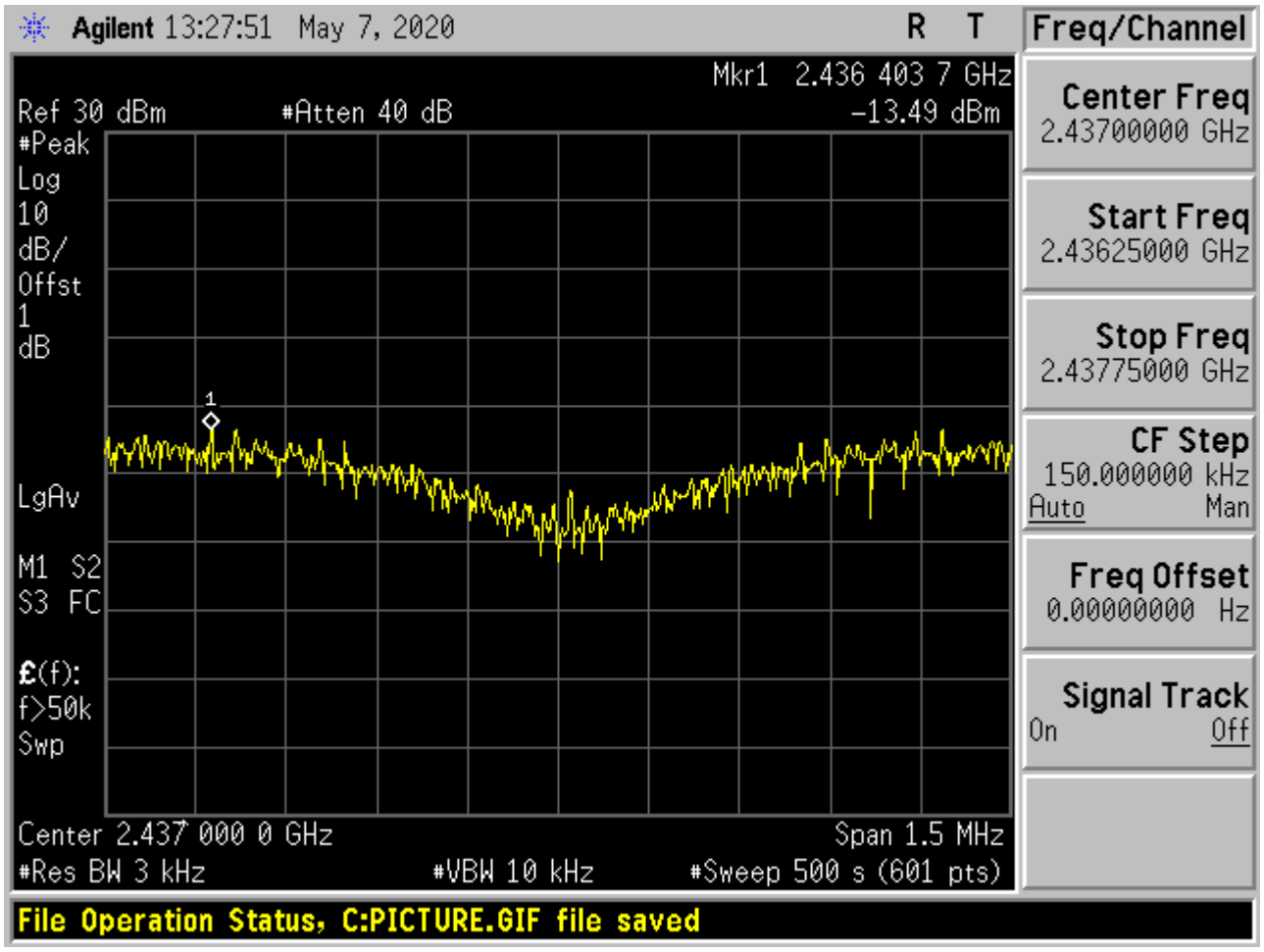
Power spectral density

According to FCC Part 15.247 (e)

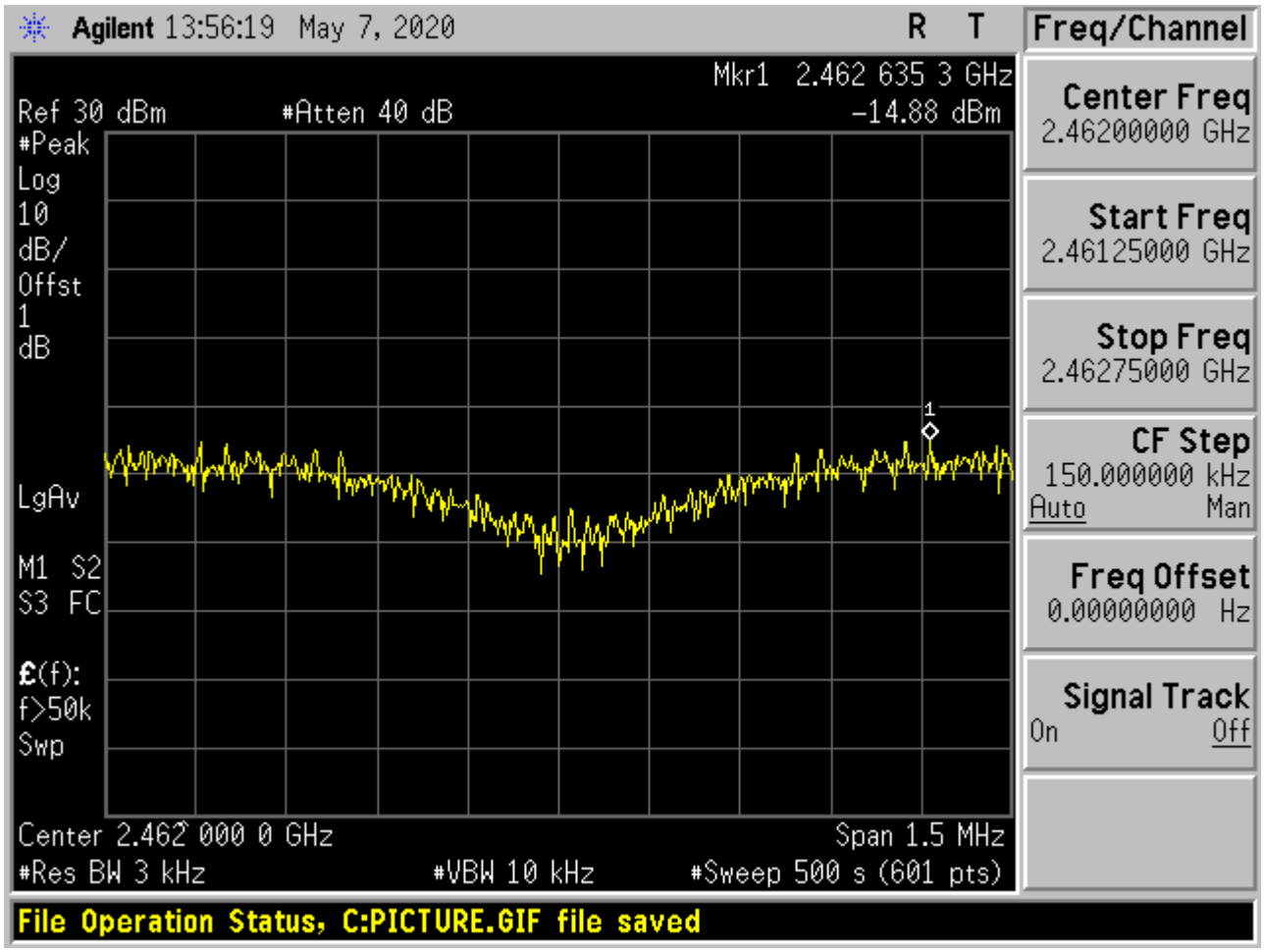
TM1
Channel 1



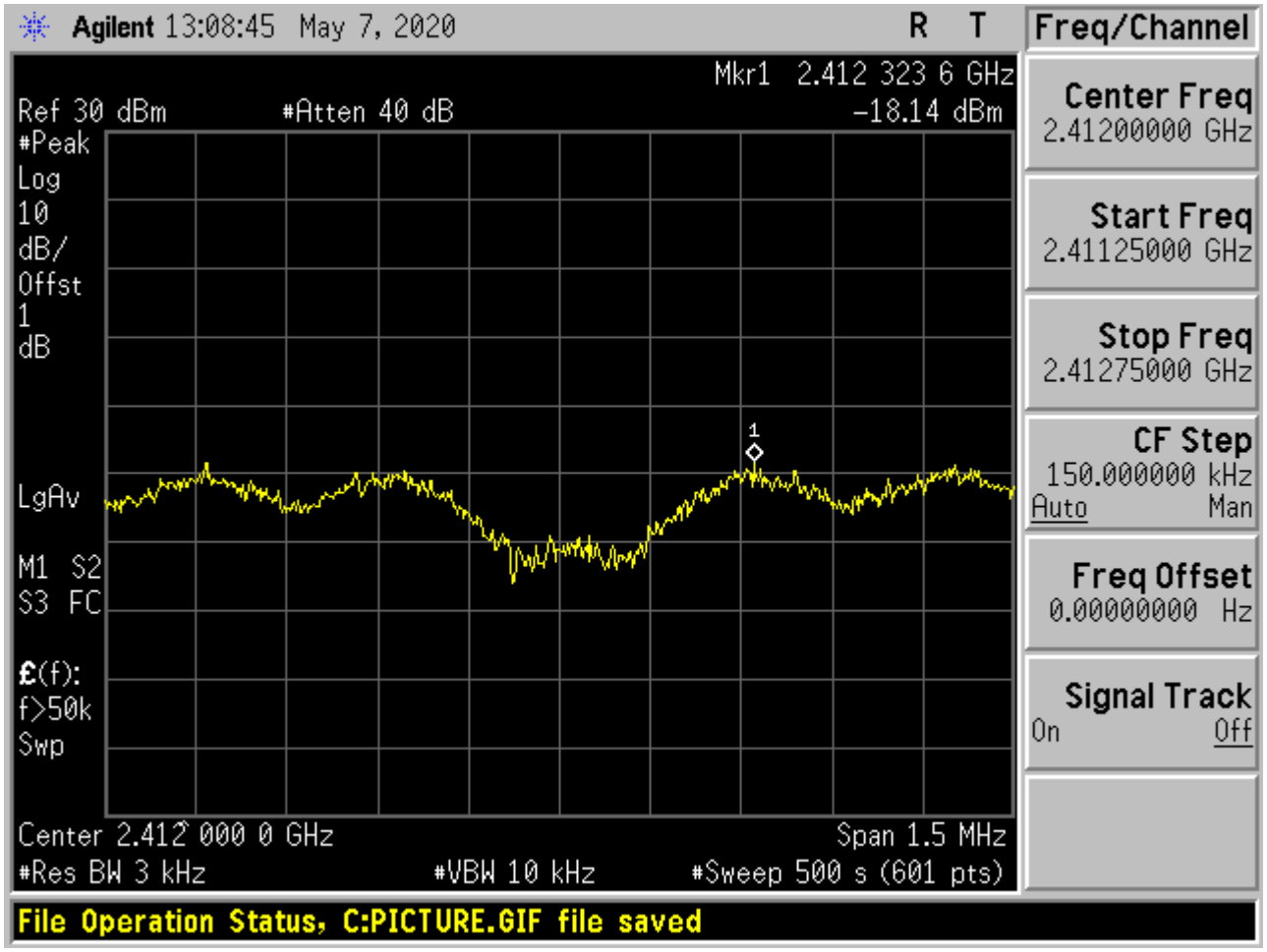
Channel 6


Agilent 13:27:51 May 7, 2020
R T
Freq/Channel
Mkr1 2.436 403 7 GHz
Ref 30 dBm
#Atten 40 dB
-13.49 dBm
#Peak
Log
10
dB/
Offst
1
dB
1
LgAv
M1 S2
S3 FC
£(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)
Center Freq
2.43700000 GHz
Start Freq
2.43625000 GHz
Stop Freq
2.43775000 GHz
CF Step
150.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

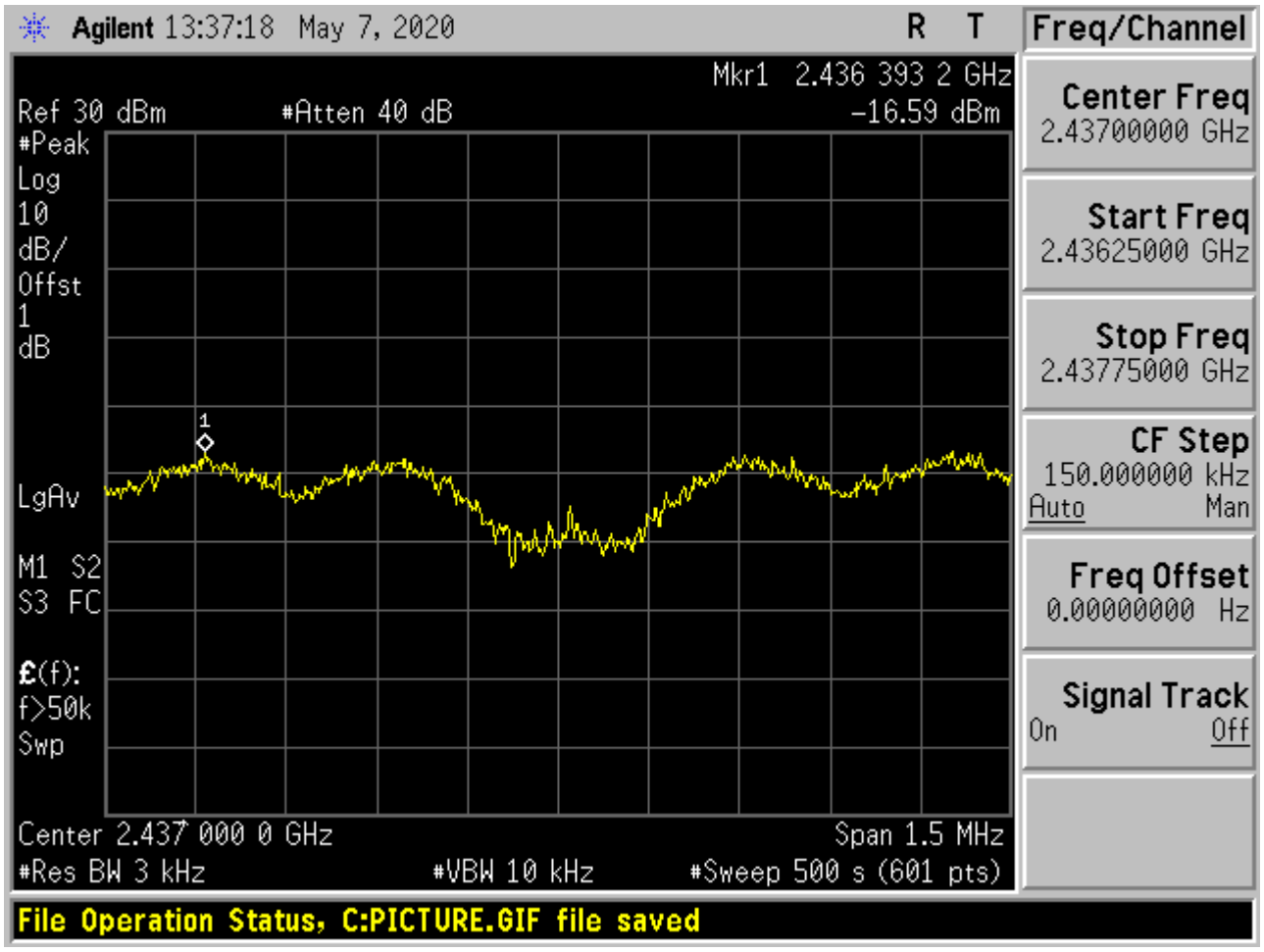
Channel 11


Agilent 13:56:19 May 7, 2020
R T
Freq/Channel
Mkr1 2.462 635 3 GHz
Ref 30 dBm
#Atten 40 dB
-14.88 dBm
#Peak
Log
10
dB/
Offst
1
dB
LgAv
M1 S2
S3 FC
£(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)
Center Freq
2.46200000 GHz
Start Freq
2.46125000 GHz
Stop Freq
2.46275000 GHz
CF Step
150.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

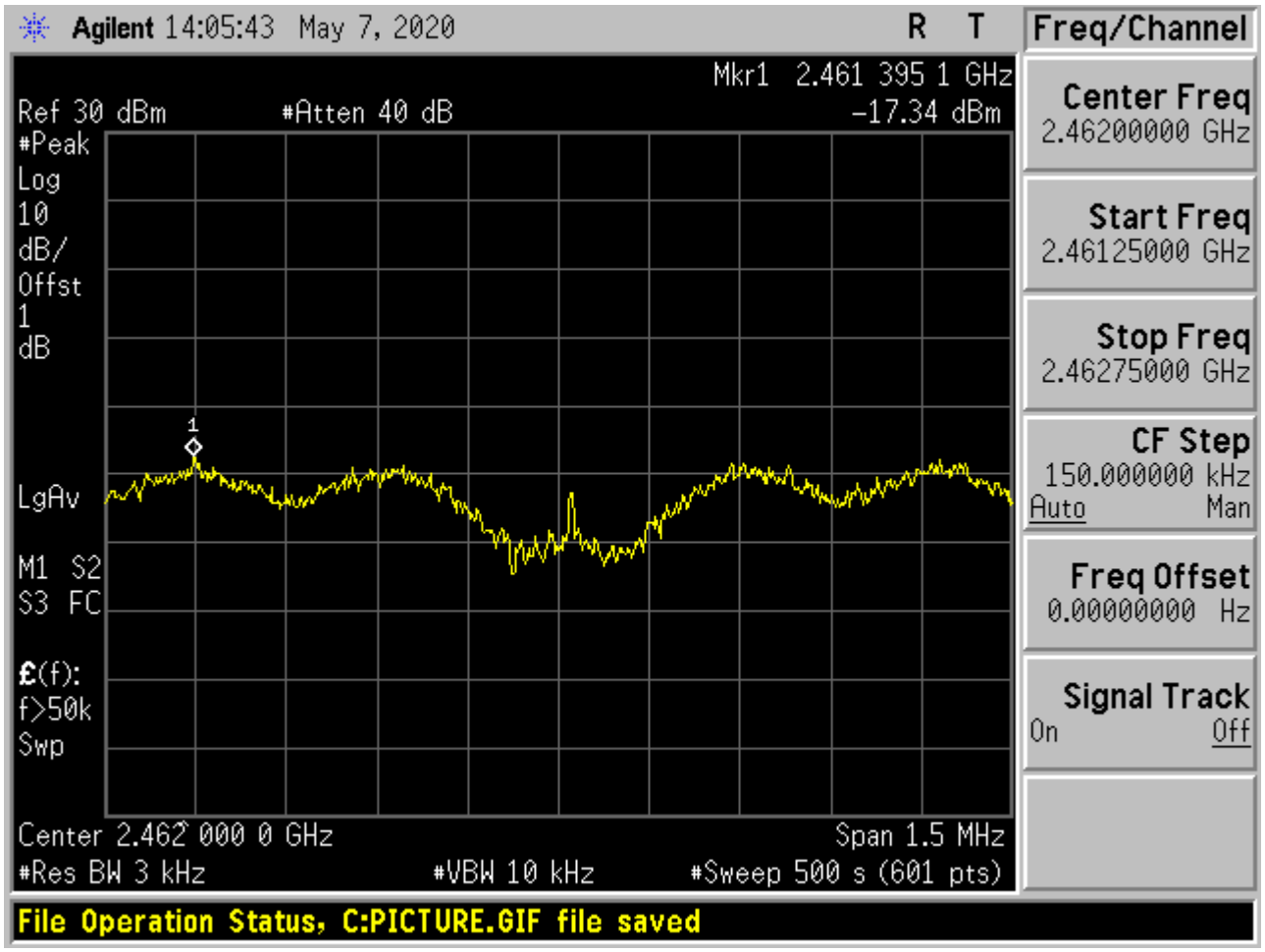
TM2
Channel 1



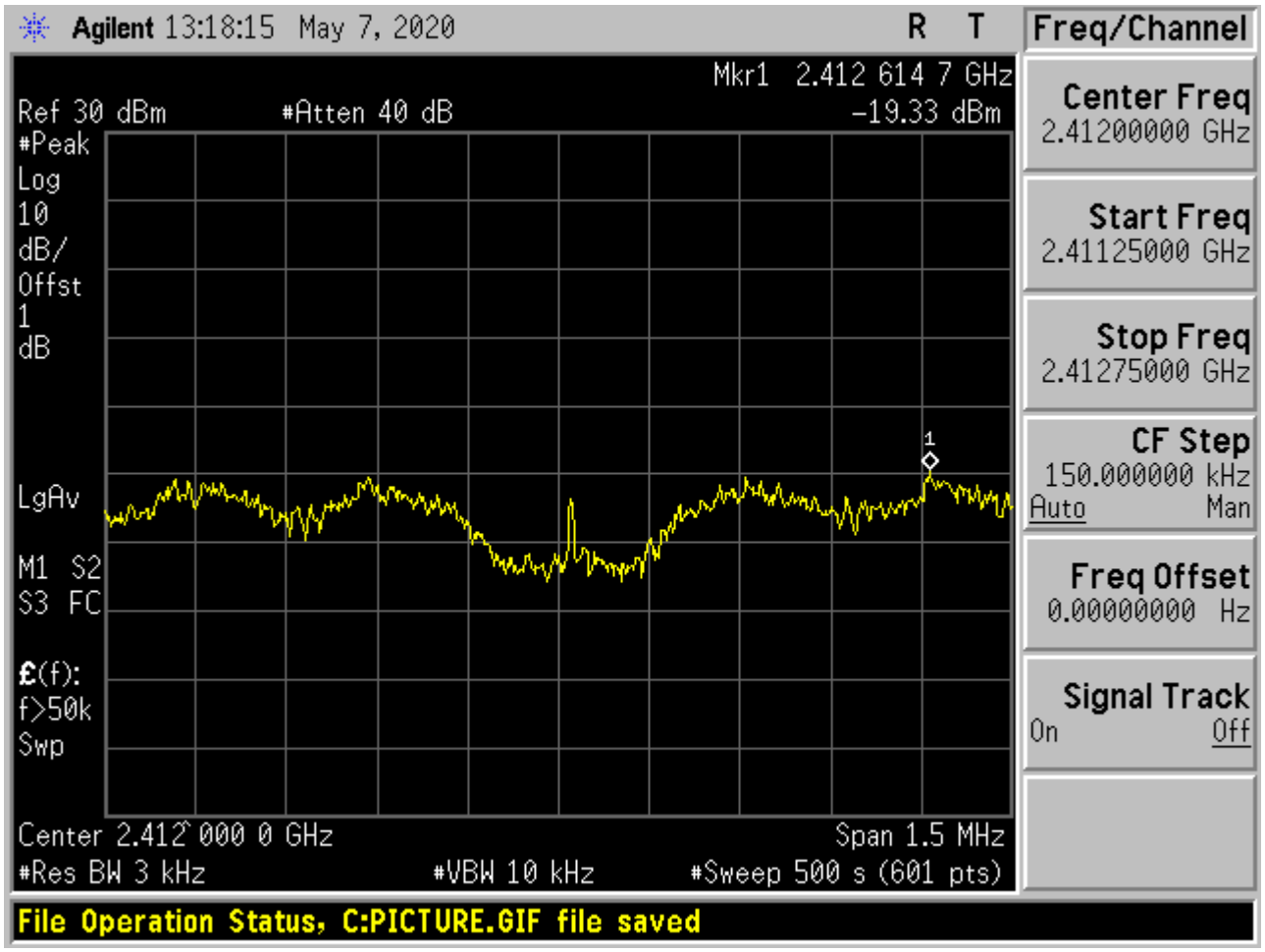
Channel 6


Agilent 13:37:18 May 7, 2020
R T
Freq/Channel
Mkr1 2.436 393 2 GHz
Ref 30 dBm
#Atten 40 dB
-16.59 dBm
#Peak
Log
10
dB/
Offst
1
dB
1
LgAv
M1 S2
S3 FC
£(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)
Center Freq
2.43700000 GHz
Start Freq
2.43625000 GHz
Stop Freq
2.43775000 GHz
CF Step
150.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

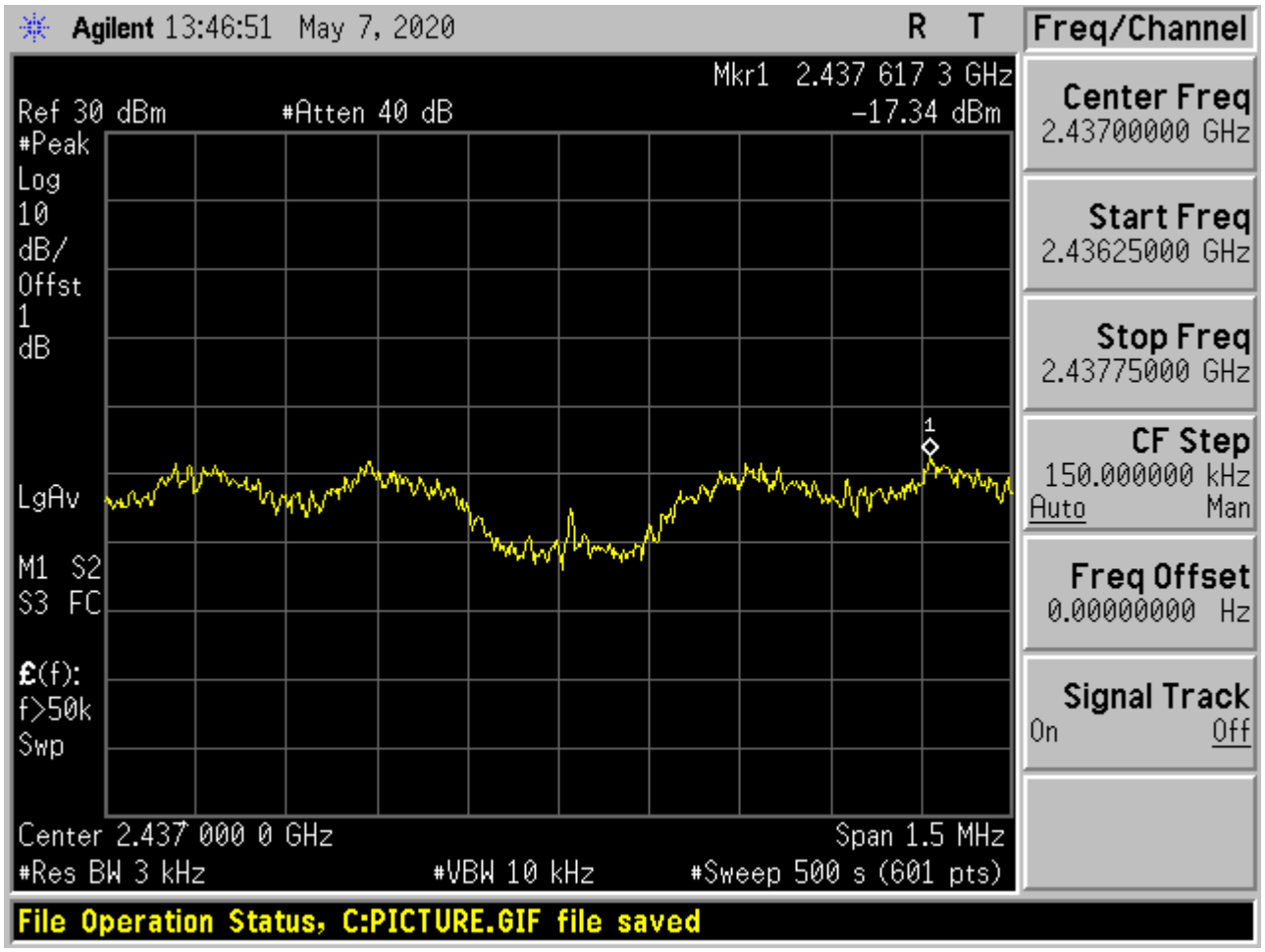
Channel 11


Agilent 14:05:43 May 7, 2020
R T
Freq/Channel
Mkr1 2.461 395 1 GHz
Ref 30 dBm
#Atten 40 dB
-17.34 dBm
#Peak
Log
10
dB/
Offst
1
dB
1
LgAv
M1 S2
S3 FC
£(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)
Center Freq
2.46200000 GHz
Start Freq
2.46125000 GHz
Stop Freq
2.46275000 GHz
CF Step
150.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

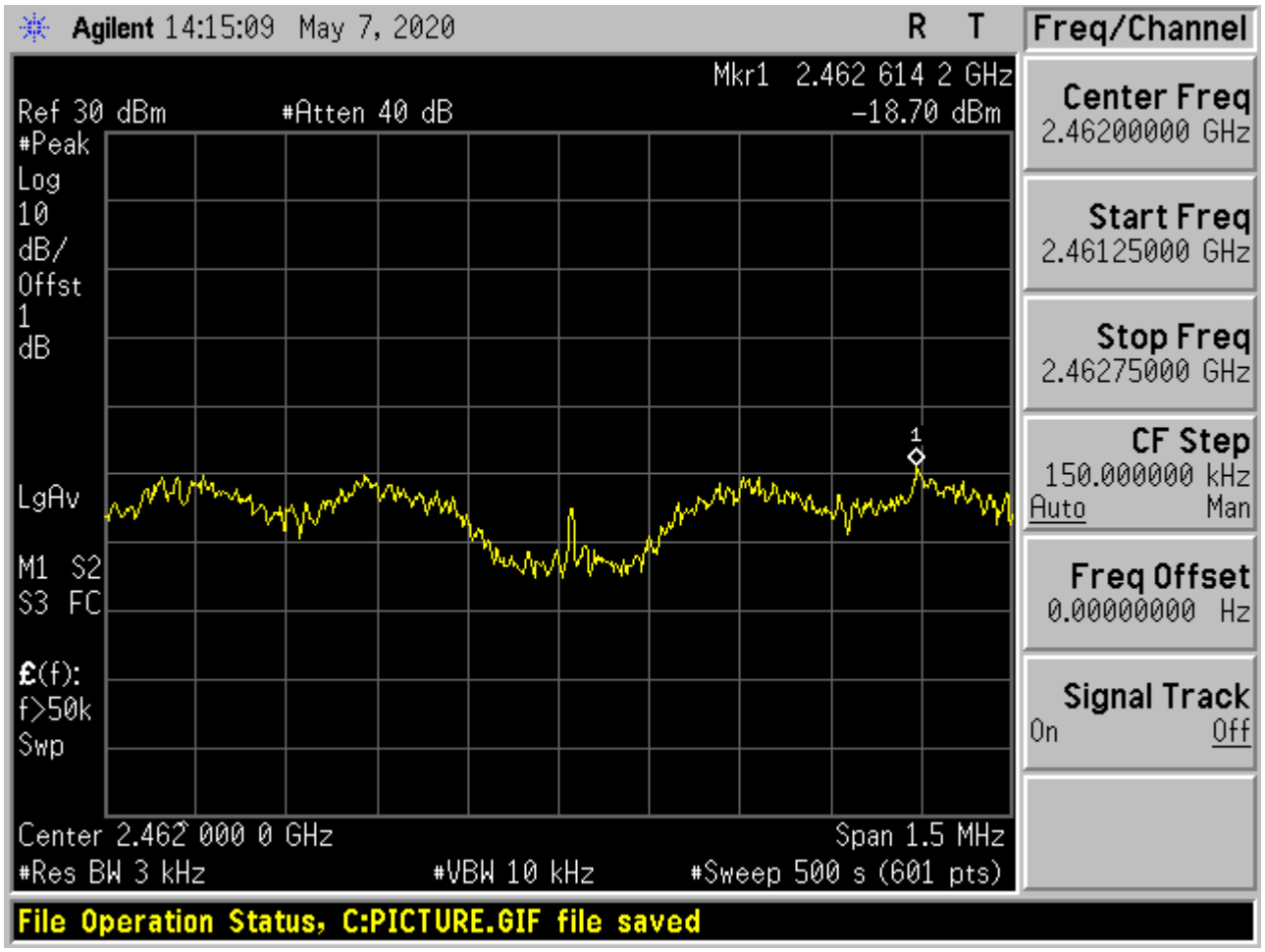
TM3
Channel 1



Channel 6


Agilent 13:46:51 May 7, 2020
R T
Freq/Channel
Mkr1 2.437 617 3 GHz
Ref 30 dBm
#Atten 40 dB
-17.34 dBm
#Peak
Log
10
dB/
Offst
1
dB
1
LgAv
M1 S2
S3 FC
£(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)
Center Freq
2.43700000 GHz
Start Freq
2.43625000 GHz
Stop Freq
2.43775000 GHz
CF Step
150.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

Channel 11


Agilent 14:15:09 May 7, 2020
R T
Freq/Channel
Mkr1 2.462 614 2 GHz
Ref 30 dBm
#Atten 40 dB
-18.70 dBm
#Peak
Log
10
dB/
Offst
1
dB
LgAv
M1 S2
S3 FC
£(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)
Center Freq
2.46200000 GHz
Start Freq
2.46125000 GHz
Stop Freq
2.46275000 GHz
CF Step
150.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
File Operation Status, C:PICTURE.GIF file saved

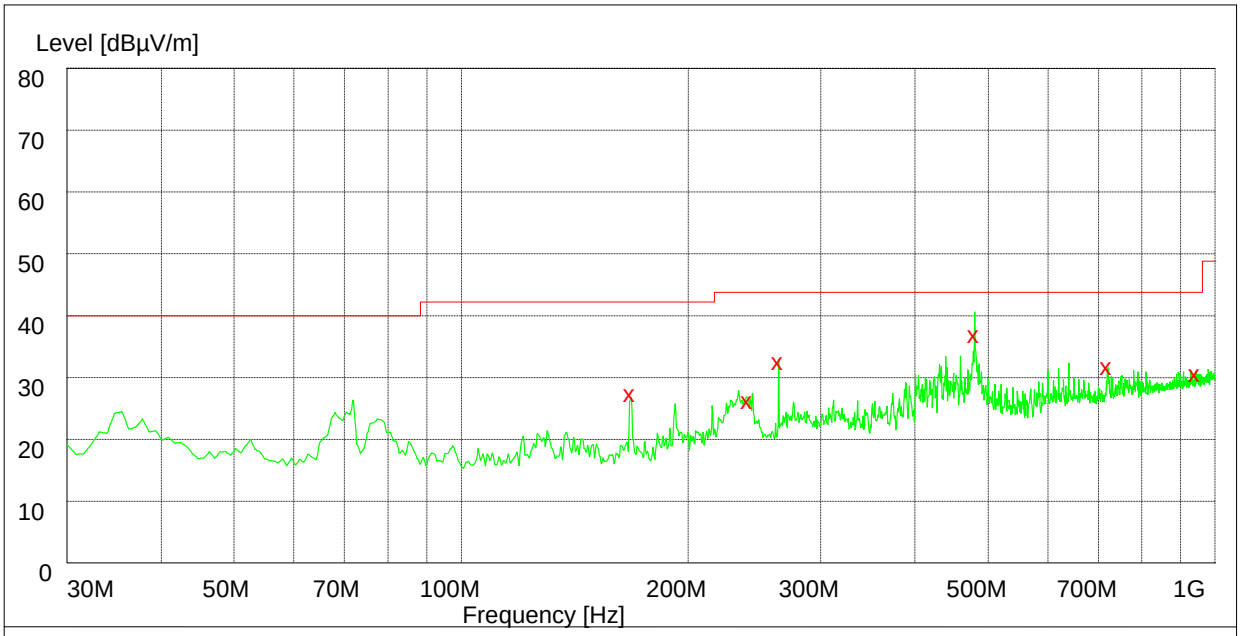
Appendix F

Radiated Spurious Emission & Spurious in Restricted Band (according to FCC Part 15.247(d) & 15.205 & 15.209)

Part 1: Testing Range of "30 MHz to 1 GHz"

Note 1: The test results and plot for testing range of "30 MHz to 1 GHz" showed as below is **the WORST case for all Test Modes and Channels**. This range will not be presented for each Test Mode and each Channel.

Note 2: **The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).**



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
168.000000	28.50	10.5	43.5	15	200.0	9.00	HORIZONTAL
240.000000	26.90	13.8	46.0	19.1	121.0	143.00	HORIZONTAL
264.000000	32.90	14.2	46.0	13.1	100.0	132.00	HORIZONTAL
480.000000	36.60	18.8	46.0	9.4	100.0	249.00	HORIZONTAL
720.000000	31.80	22.6	46.0	14.2	118.0	128.00	HORIZONTAL
956.760000	30.10	25.2	46.0	15.9	100.0	13.00	HORIZONTAL

Part 2: Testing Range of “18 GHz to 26.5 GHz”

Note: No peak found in pre- test.

Part 3: Testing Range of "2.3GHz to 2.5GHz"

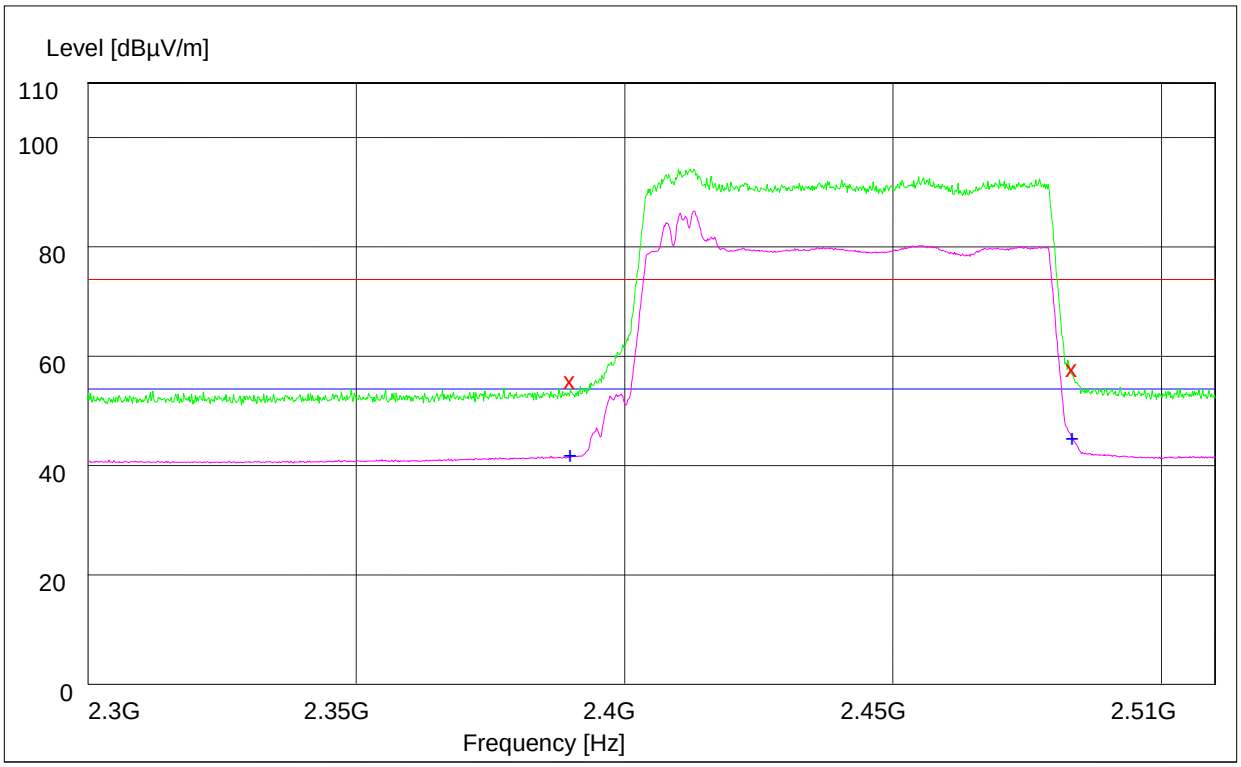
Note 1: The testing range of "2.3 GHz to 2.5 GHz" is for checking radiated emissions located in restricted bands near the EUT operating bands.

Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dBµV/m) and Average Limit (54 dBµV/m).

Note 3: The peak spike exceeds the limit line is EUT's operating frequency.

1 Test Mode: 11b / Chain 1

1.1 Channel 01



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

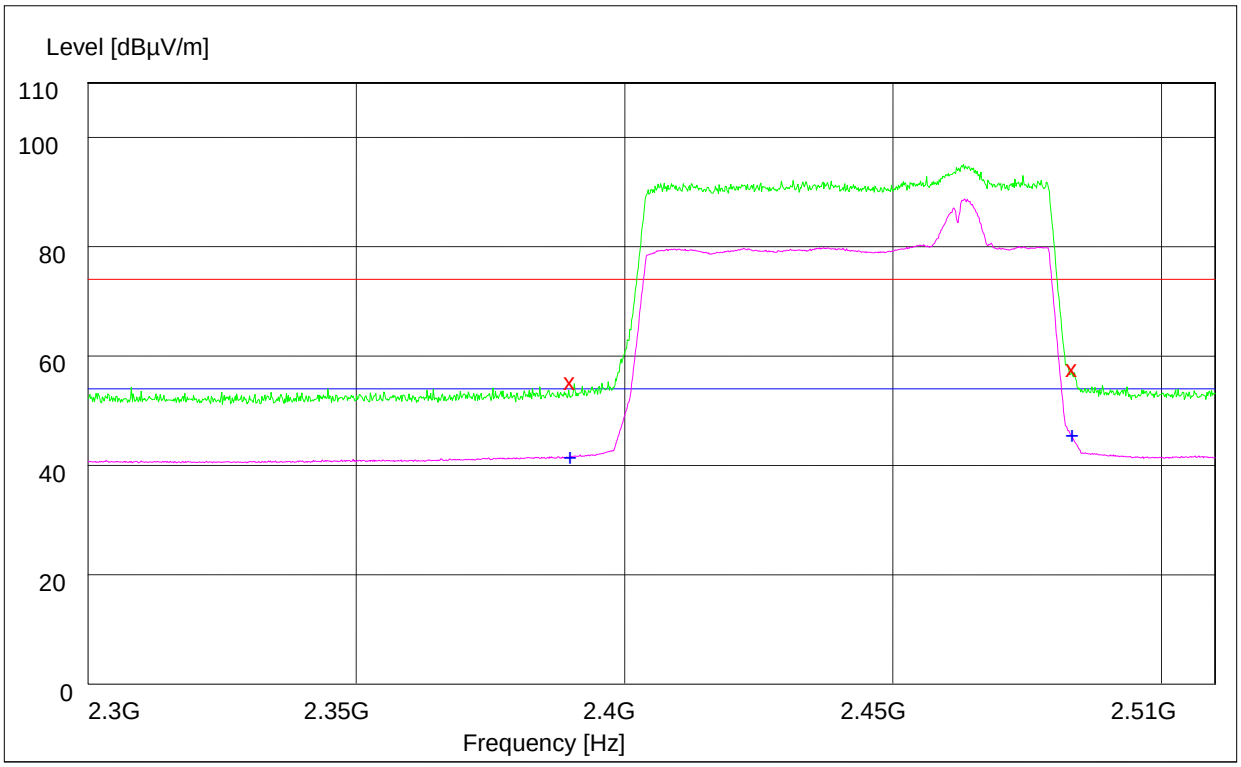
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	54.80	36.3	74.0	19.2	199.0	322.00	VERTICAL
2483.500000	57.40	39.9	74.0	16.6	108.0	114.00	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	42.20	36.3	54.0	11.8	121.0	305.00	HORIZONTAL
2483.500000	44.50	39.9	54.0	9.5	101.0	115.00	VERTICAL

1.2 Channel 11



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

MEASUREMENT RESULT: PK Detector

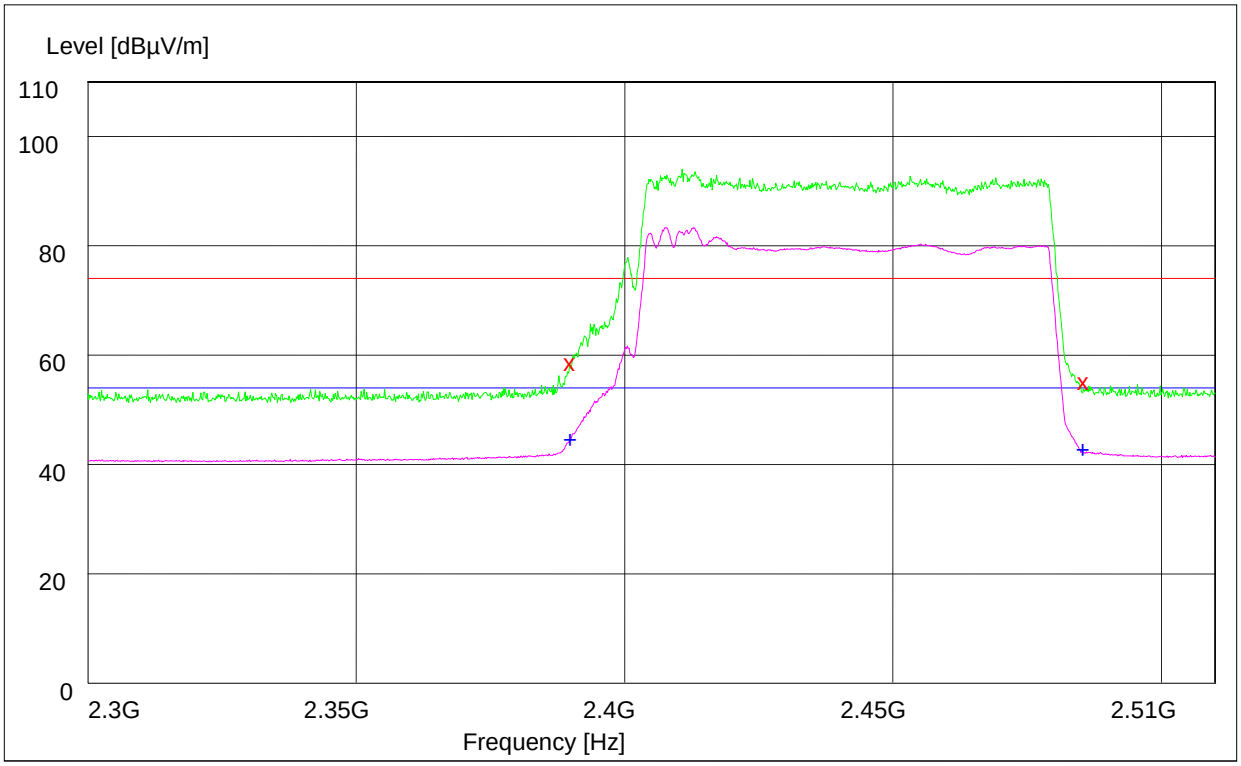
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	54.70	36.3	74.0	19.3	114.0	112.00	VERTICAL
2483.500000	57.70	39.9	74.0	16.3	200.0	91.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	41.30	36.3	54.0	12.7	115.0	130.00	VERTICAL
2483.472000	44.70	39.9	54.0	9.3	100.0	260.00	HORIZONTAL

2 Test Mode: 11g / Chain 1

2.1 Channel 01



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

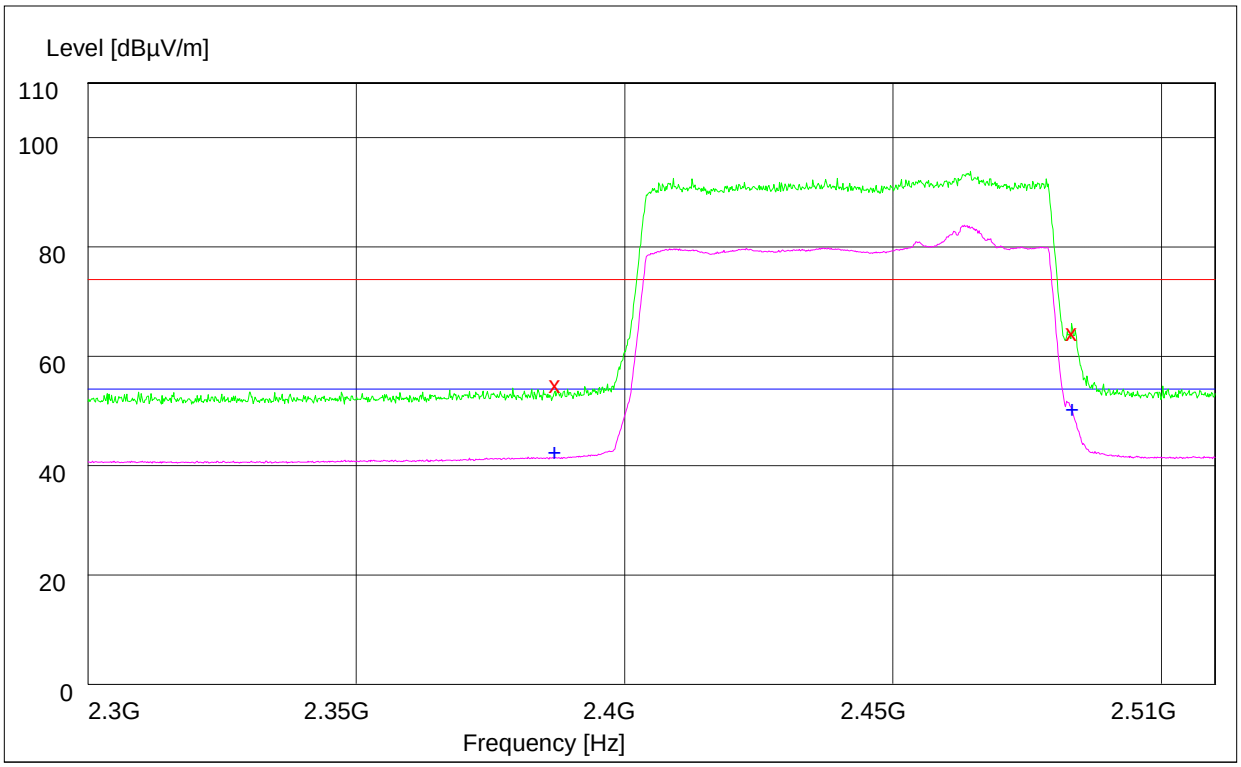
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.032000	59.20	36.3	74.0	14.8	122.0	304.00	HORIZONTAL
2483.500000	54.20	33.8	74.0	19.8	110.0	206.00	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.032000	43.80	36.3	54.0	10.2	124.0	305.00	HORIZONTAL
2483.500000	41.50	33.8	54.0	12.5	125.0	254.00	VERTICAL

2.2 Channel 11



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

MEASUREMENT RESULT: PK Detector

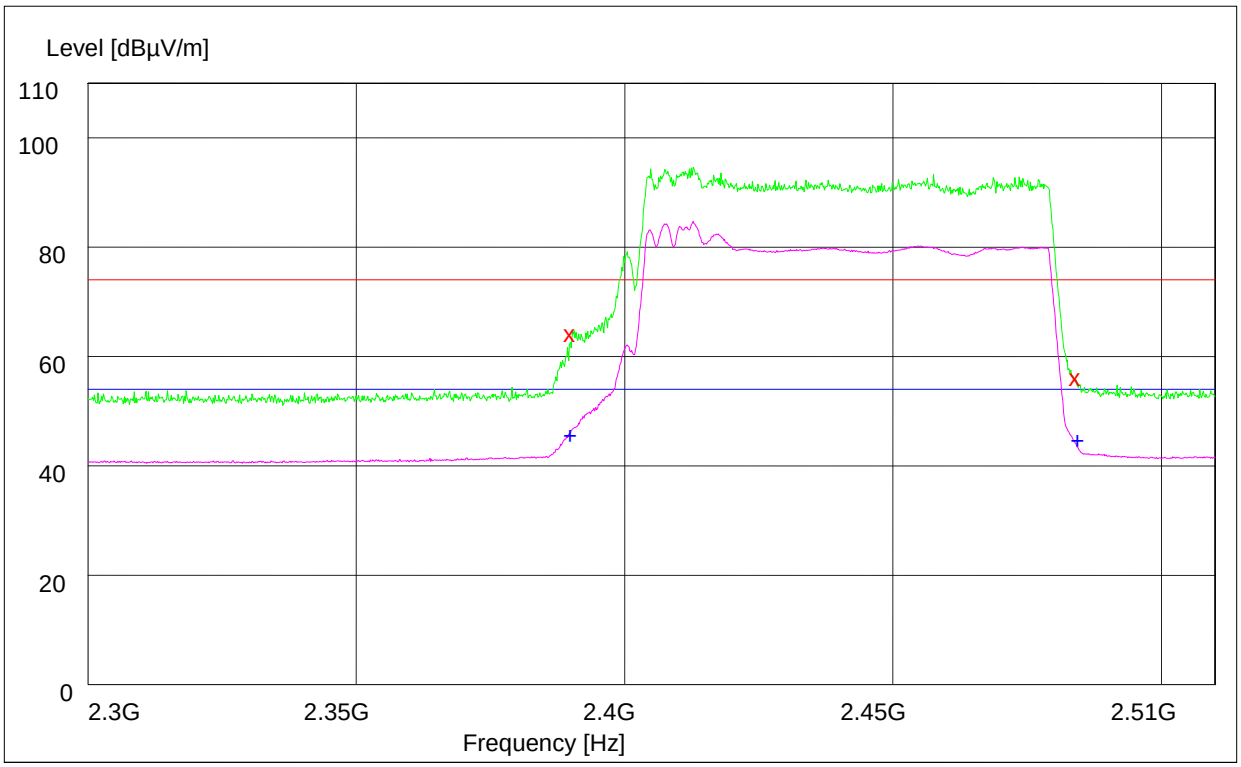
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	54.10	33.5	74.0	19.9	149.0	214.00	HORIZONTAL
2483.472000	62.90	39.9	74.0	11.1	100.0	218.00	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	42.30	33.5	54.0	11.7	120.0	310.00	VERTICAL
2483.472000	50.60	39.9	54.0	3.4	103.0	256.00	HORIZONTAL

3 Test Mode: 11n / Chain 1

3.1 Channel 01



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

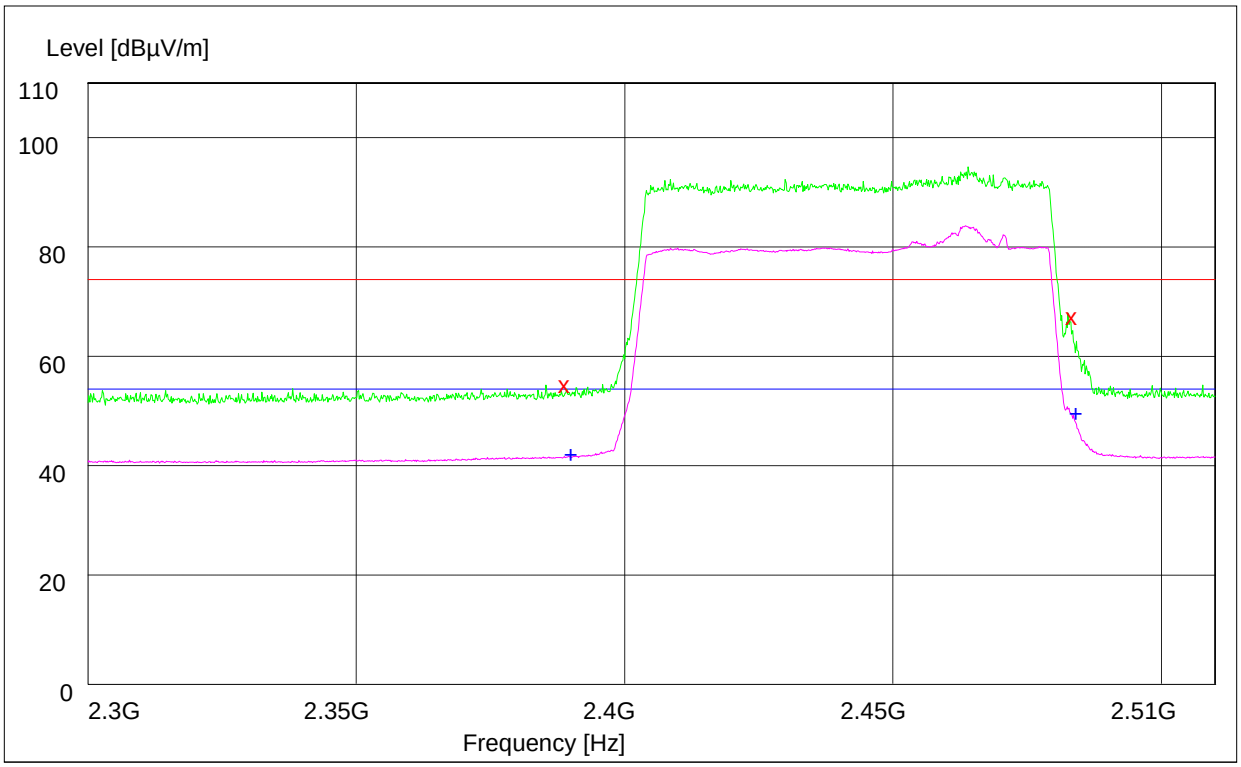
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.032000	65.00	36.3	74.0	9	123.0	303.00	HORIZONTAL
2483.500000	55.10	33.8	74.0	18.9	120.0	214.00	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.032000	46.90	36.3	54.0	7.1	122.0	308.00	HORIZONTAL
2483.500000	46.40	33.5	54.0	7.6	123.0	257.00	VERTICAL

3.2 Channel 11



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

MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2388.000000	54.30	33.5	74.0	19.7	200.0	310.00	VERTICAL
2483.472000	67.80	39.9	74.0	6.2	122.0	299.00	HORIZONTAL

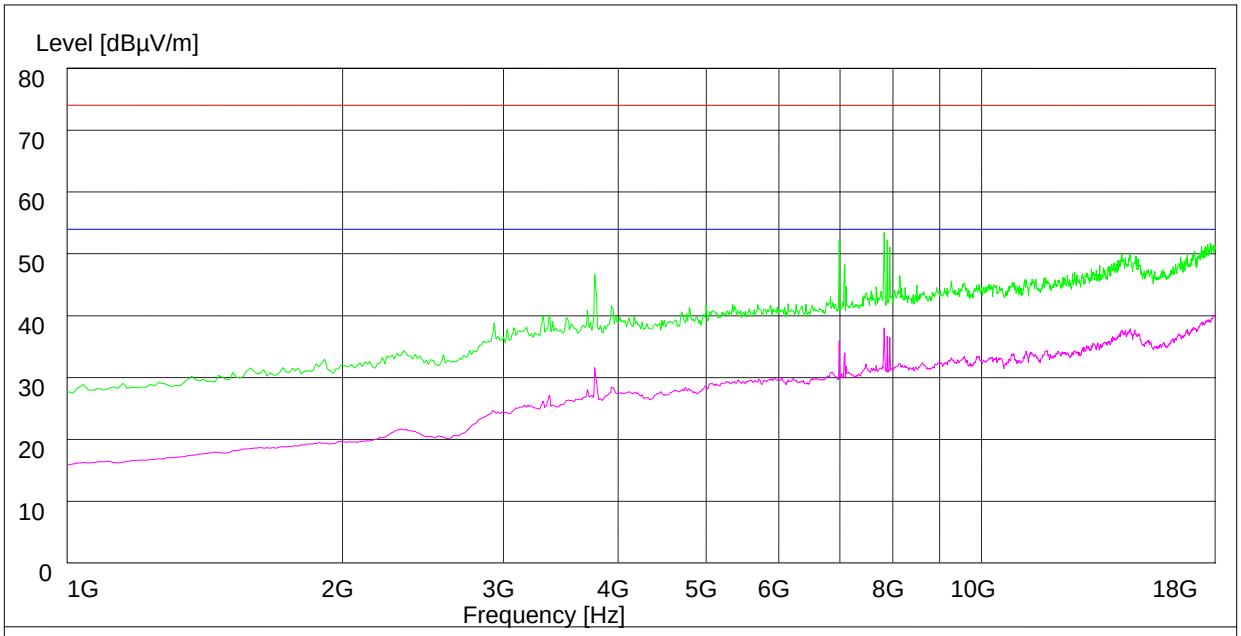
MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2389.000000	42.40	33.5	54.0	11.6	100.0	317.00	VERTICAL
2483.472000	49.60	39.9	54.0	4.4	124.0	299.00	HORIZONTAL

Part 4: Testing Range of "1 GHz to 18 GHz"

Note 1: The testing range of "1 GHz to 18 GHz" is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.

Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dBµV/m) and Average Limit (54 dBµV/m).

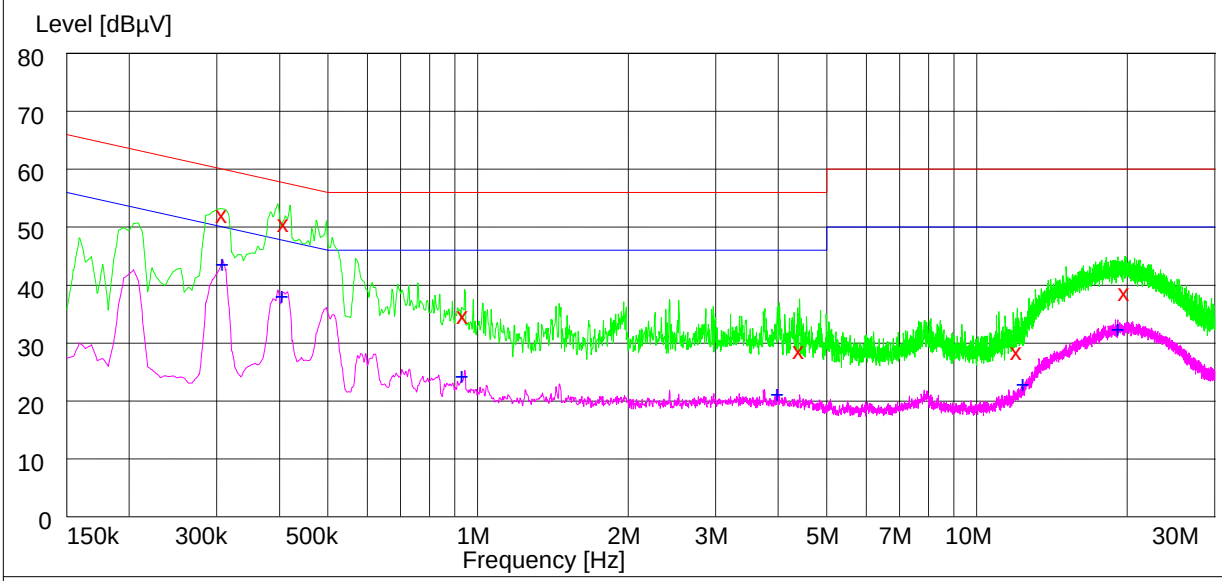


Appendix G

Conducted Emission at Power Port

According to FCC Part 15.207

Channel 6



MEASUREMENT RESULT: QP Detector

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.308000	51.70	10.0	60	8.3	N	FLO
0.410000	50.10	10.0	58	7.9	L1	FLO
0.938000	34.00	10.1	56	22	L1	FLO
4.428000	28.80	10.2	56	27.2	L1	FLO
12.054000	28.60	10.3	60	31.4	L1	FLO
19.830000	38.80	10.4	60	21.2	N	FLO

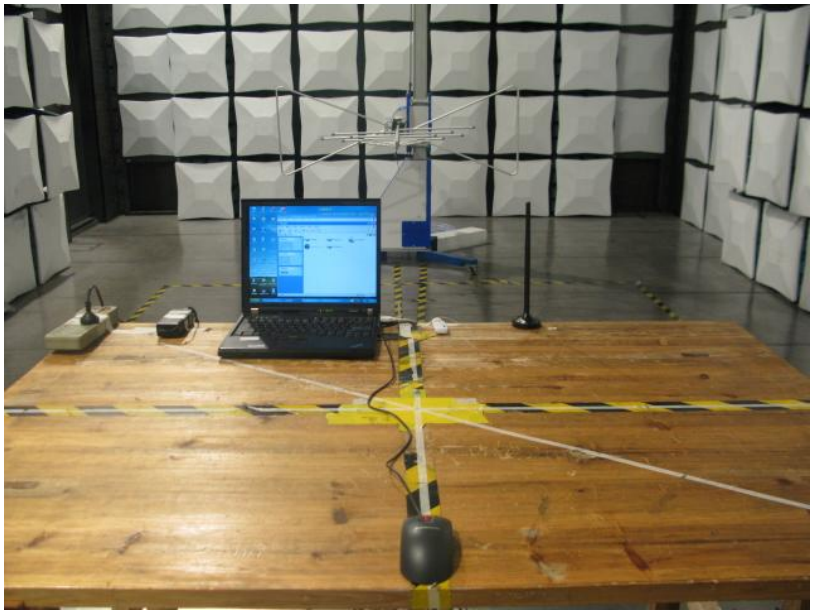
MEASUREMENT RESULT: AV Detector

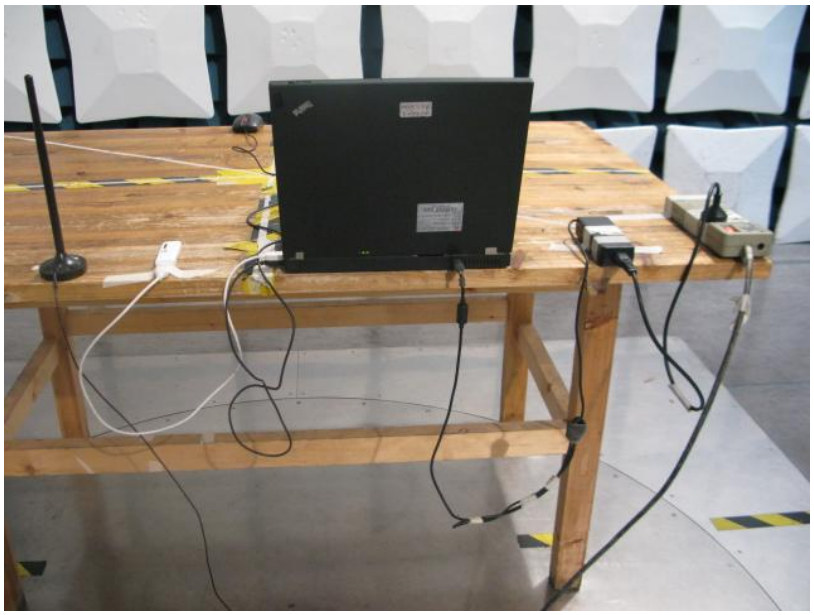
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.308000	43.10	10.0	50	6.9	N	FLO
0.406000	38.60	10.0	48	9.4	L1	FLO
0.932000	24.00	10.1	46	22	L1	FLO
4.000000	20.90	10.2	46	25.1	L1	FLO
12.298000	22.60	10.3	50	27.4	L1	FLO
19.218000	32.40	10.3	50	17.6	N	FLO

Appendix H

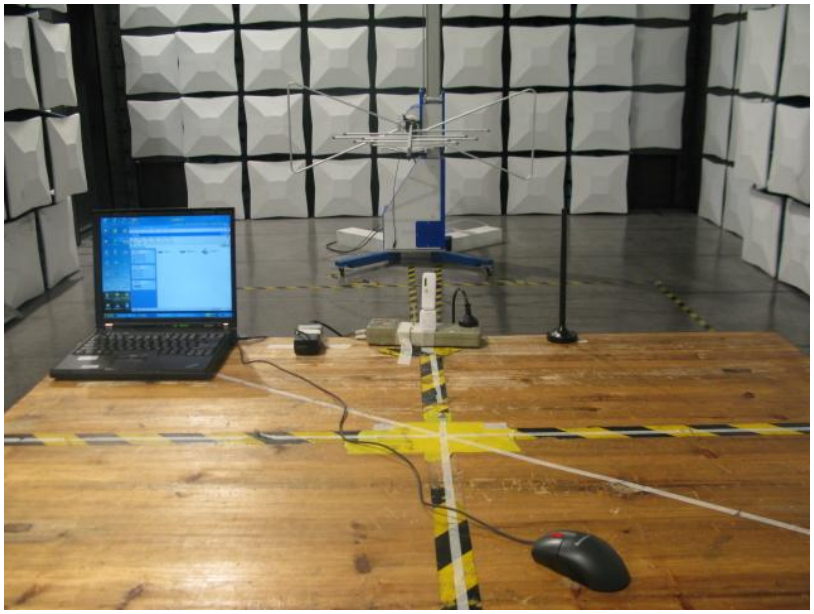
Photos of Test Setup

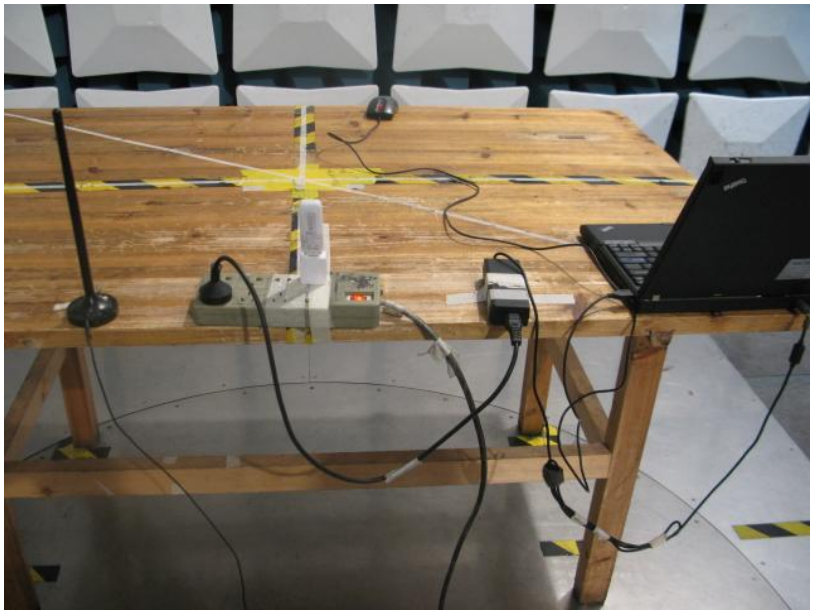
1 Radiated Spurious Emissions



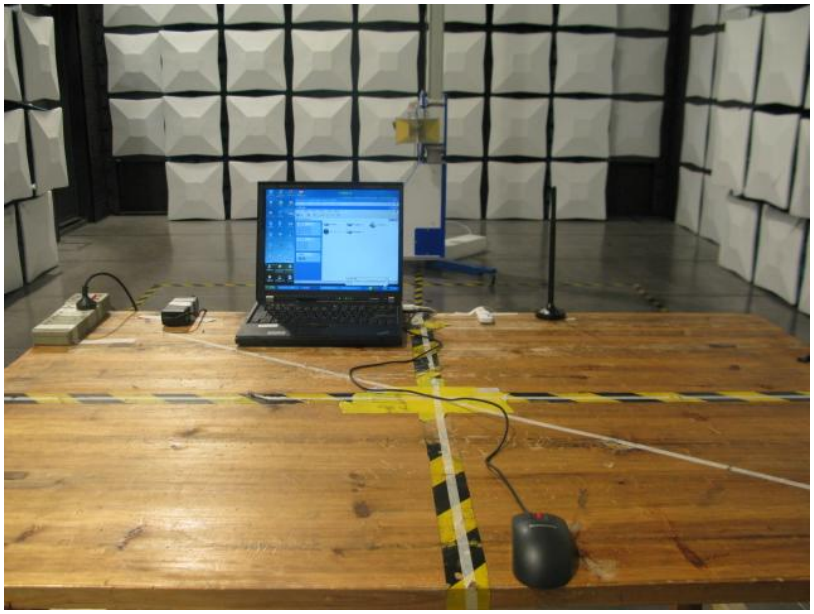


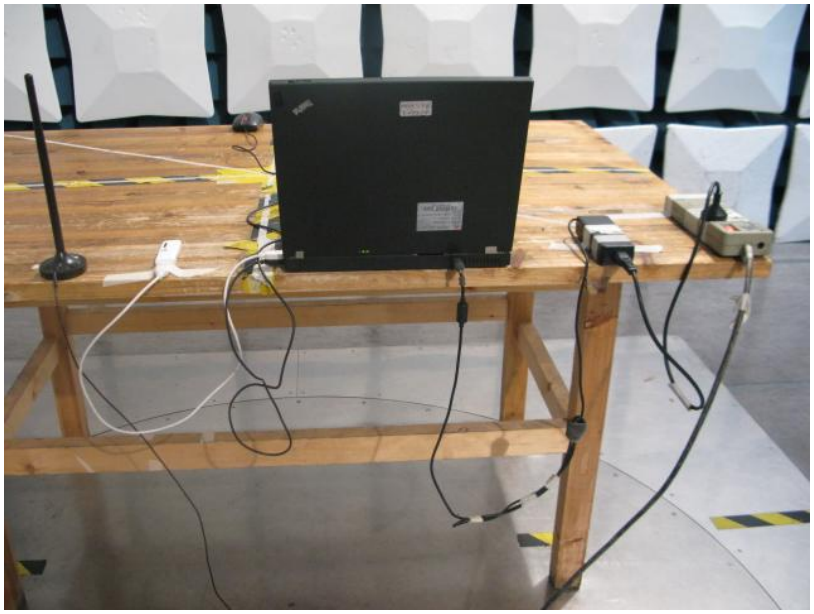
Radiated Spurious Emission (below 1GHz)



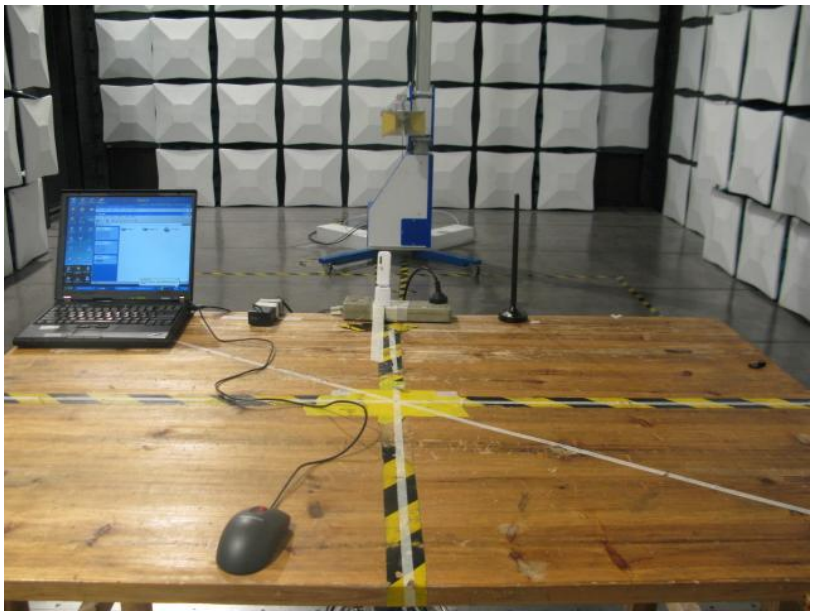


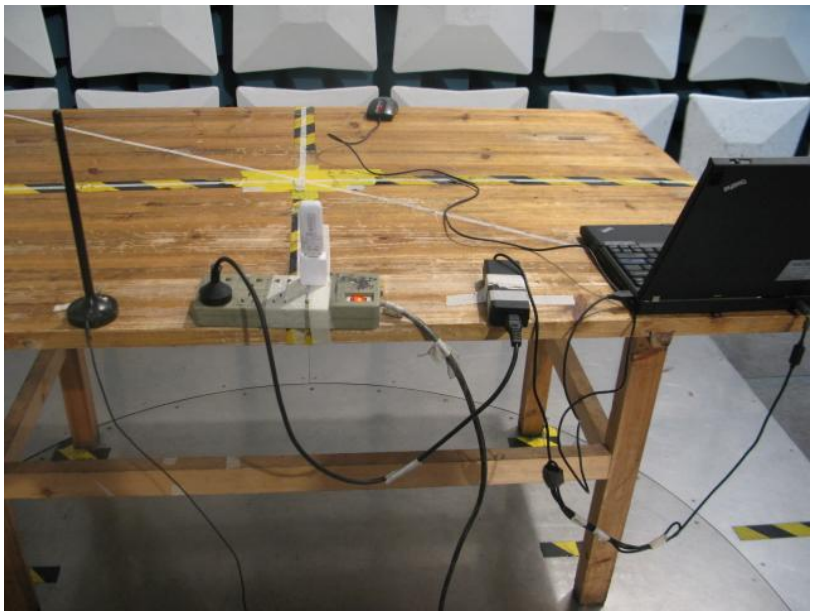
Radiated Spurious Emission (below 1GHz)



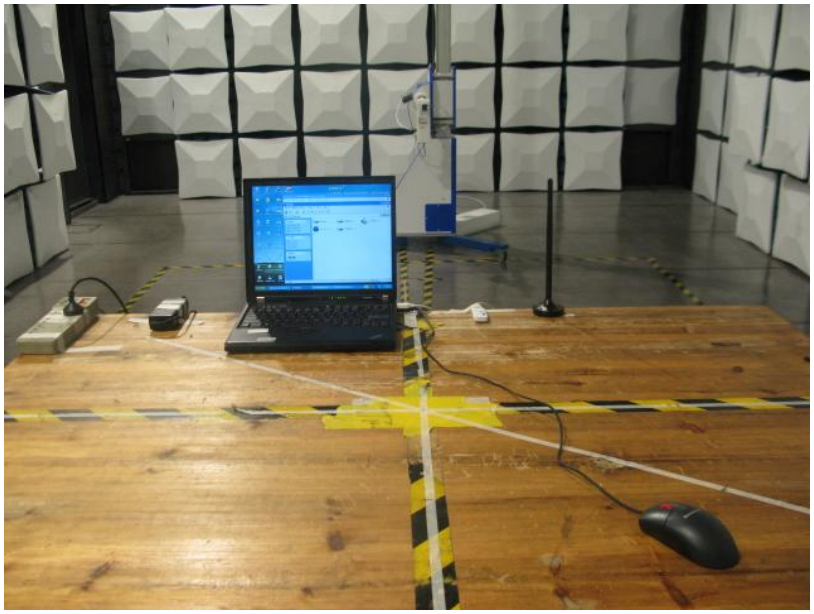


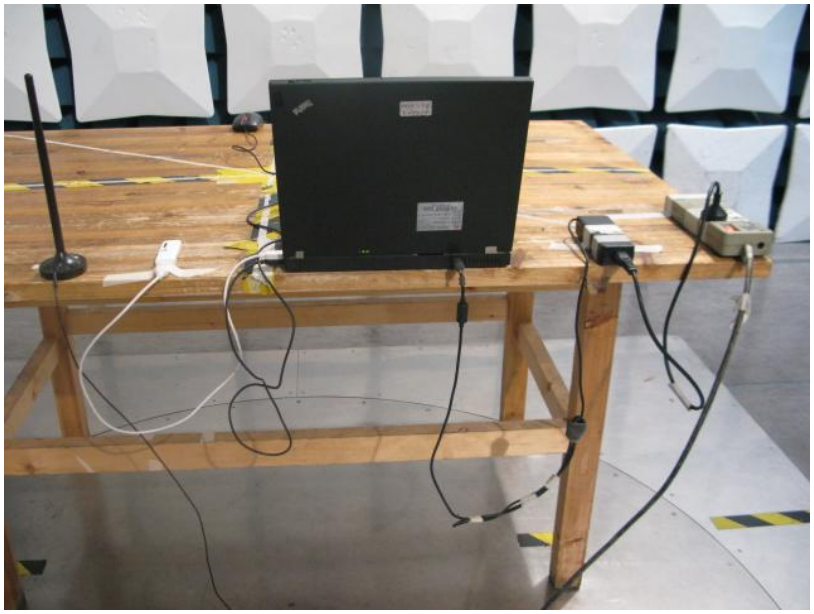
Radiated Spurious Emission (1GHz to18GHz)



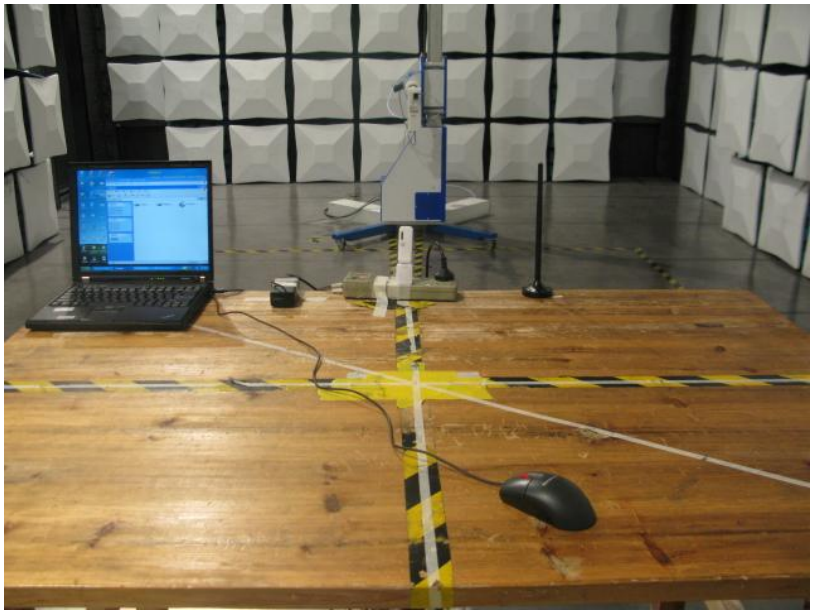


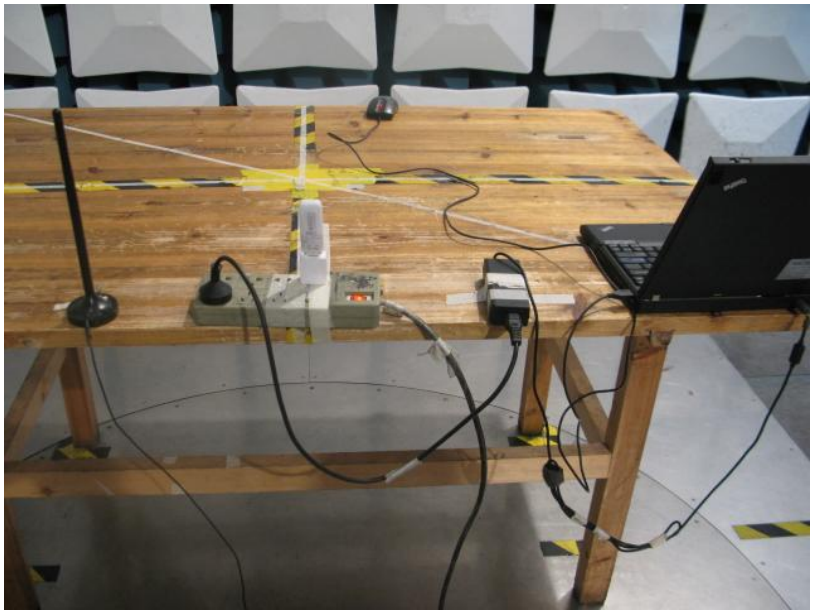
Radiated Spurious Emission (1GHz to18GHz)





Radiated Spurious Emission (above 18GHz)





Radiated Spurious Emission (above 18GHz)

2 Conducted Emissions

Conducted Emissions for AC Ports

Conducted Emissions for AC Ports