

# A.3 Occupied Bandwidth

# 1. GSM\_GSM850

## 1.1. GSM Occupied Bandwidth(NTNV)(Channel:128)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
824.2	99	26	0.004	Peak	0.246	0.311	0.3	Pass

Agilent
Freq/Channel

Ch Freq 824.2 MHz
Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

#Peak

Log 10 dB/ Offst 8.75 dB

Center 824.200 0 MHz Span 2 MHz

#Res BW 3.9 kHz #VBW 12 kHz #Sweep 10 s (2564 pts)

Center Freq 824.200000 MHz

Start Freq 823.200000 MHz

Stop Freq 825.200000 MHz

CF Step 200.000000 kHz  
Auto Man

Freq Offset 0.00000000 Hz

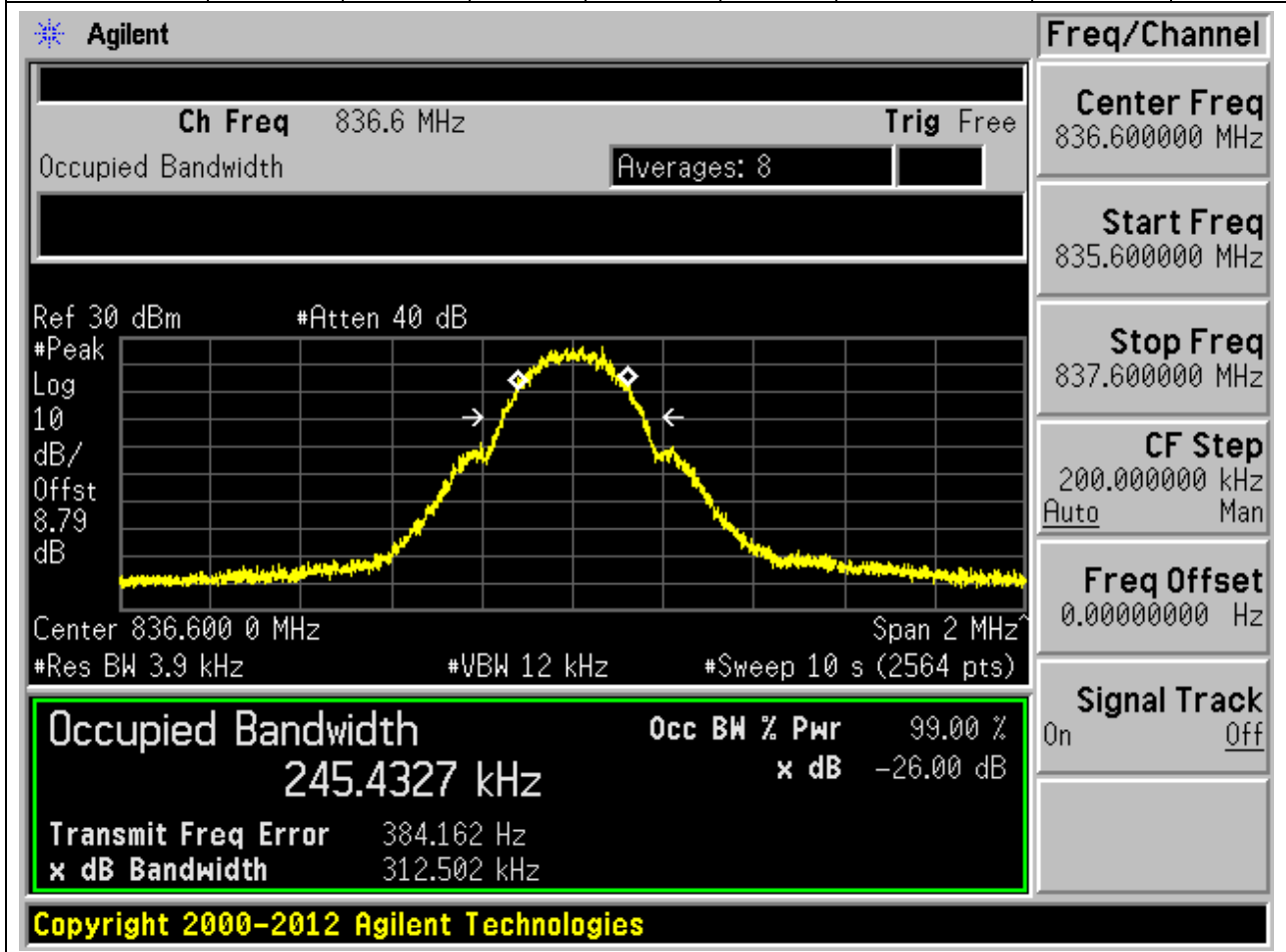
Signal Track On Off

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
245.7819 kHz	x dB -26.00 dB
<b>Transmit Freq Error</b> 1.043 kHz	
<b>x dB Bandwidth</b> 311.360 kHz	

Copyright 2000–2012 Agilent Technologies

## 1.2. GSM Occupied Bandwidth(NTNV)(Channel:190)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.6	99	26	0.004	Peak	0.245	0.313	0.3	Pass



### 1.3. GSM Occupied Bandwidth(NTNV)(Channel:251)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
848.8	99	26	0.004	Peak	0.246	0.308	0.3	Pass

**Agilent**

Ch Freq 848.8 MHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

Center 848.800 0 MHz Span 2 MHz

#Res BW 3.9 kHz #VBW 12 kHz #Sweep 10 s (2564 pts)

**Freq/Channel**

Center Freq 848.800000 MHz

Start Freq 847.800000 MHz

Stop Freq 849.800000 MHz

CF Step 200.000000 kHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

246.2319 kHz x dB -26.00 dB

Transmit Freq Error -238.571 Hz

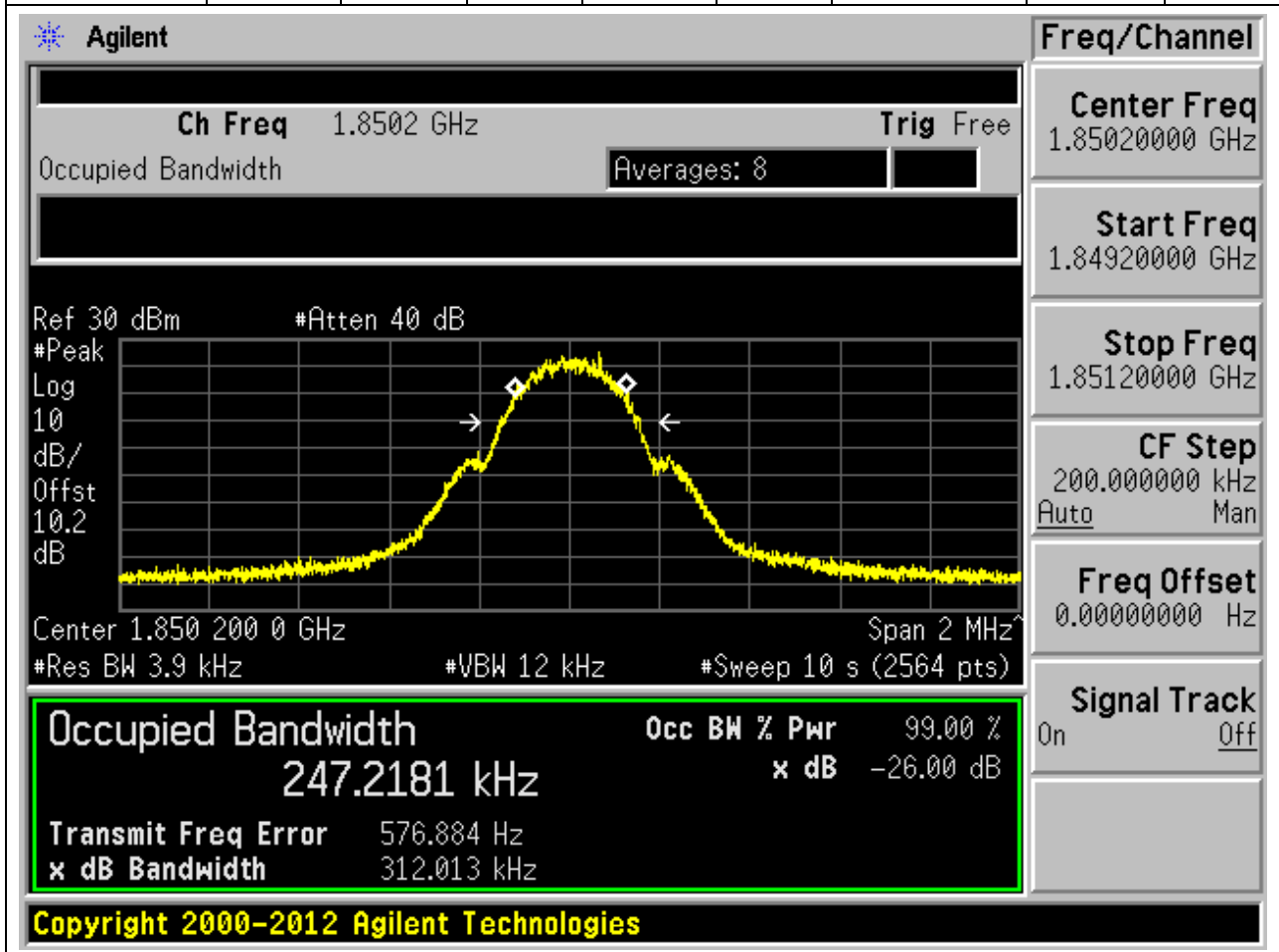
x dB Bandwidth 308.223 kHz

Copyright 2000-2012 Agilent Technologies

## 2. GSM\_PCS

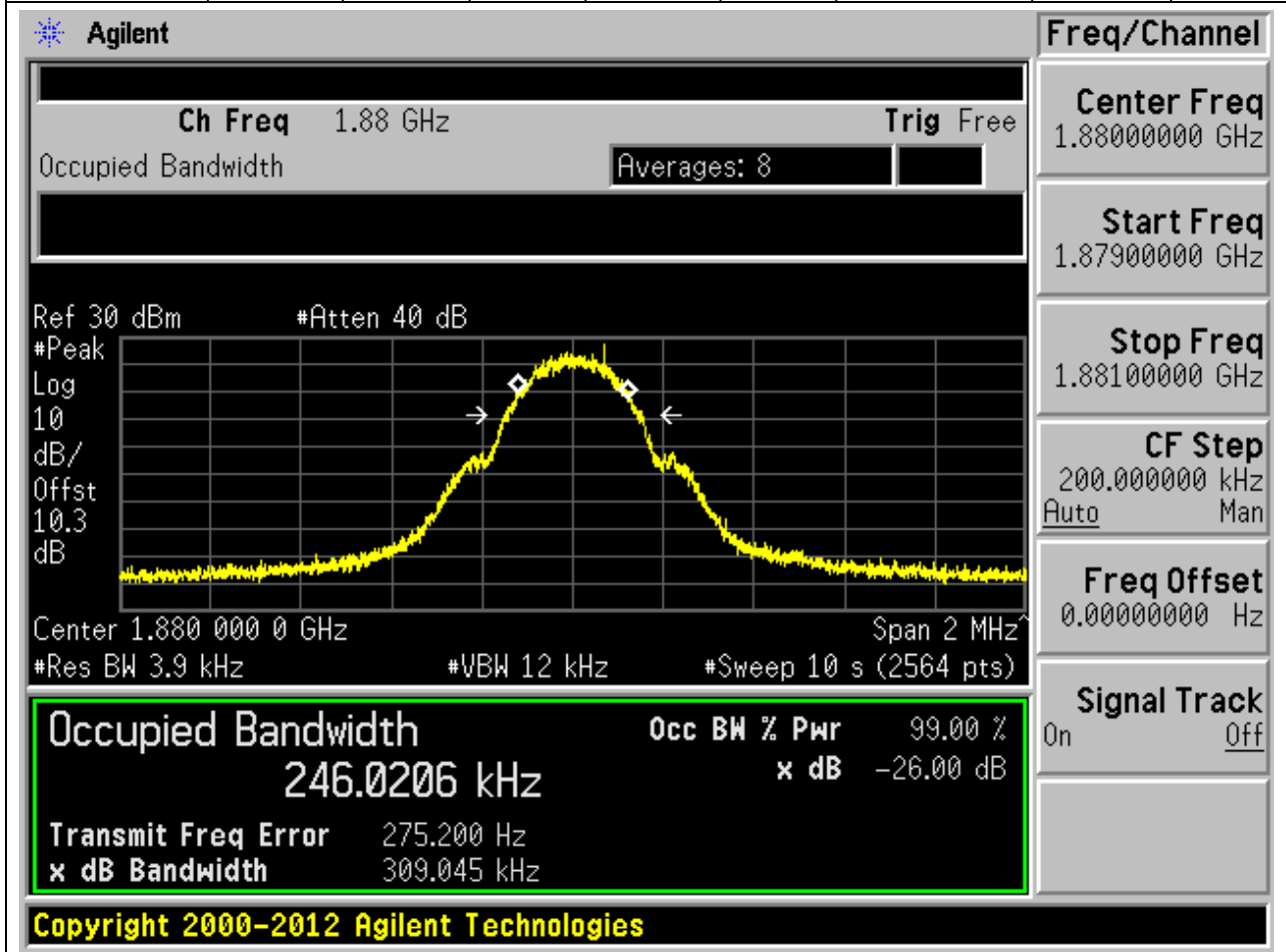
### 2.1. GSM Occupied Bandwidth(NTNV)(Channel:512)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1850.2	99	26	0.004	Peak	0.247	0.312	0.3	Pass



## 2.2. GSM Occupied Bandwidth(NTNV)(Channel:661)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.004	Peak	0.246	0.309	0.3	Pass



### 2.3. GSM Occupied Bandwidth(NTNV)(Channel:810)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1909.8	99	26	0.004	Peak	0.246	0.316	0.3	Pass

**Agilent**

Ch Freq 1.9098 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

Center 1.909 800 0 GHz Span 2 MHz

#Res BW 3.9 kHz #VBW 12 kHz #Sweep 10 s (2564 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

245.8473 kHz x dB -26.00 dB

Transmit Freq Error 480.568 Hz

x dB Bandwidth 316.151 kHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 1.90980000 GHz

Start Freq 1.90880000 GHz

Stop Freq 1.91080000 GHz

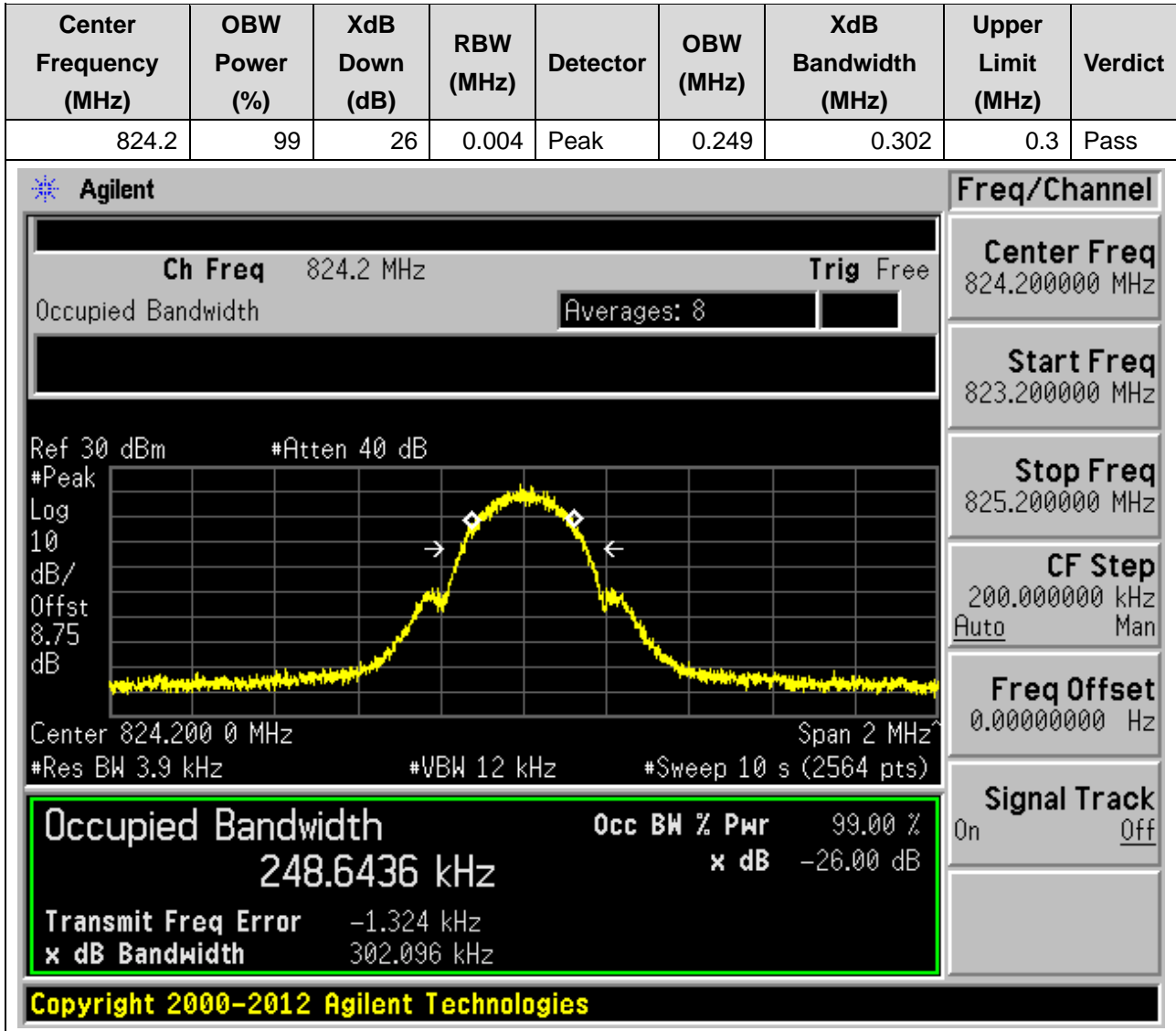
CF Step 200.000000 kHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

### 3. EGPRS\_GSM850

#### 3.1. EGPRS Occupied Bandwidth(NTNV)(Channel:128)





### 3.2. EGPRS Occupied Bandwidth(NTNV)(Channel:190)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.6	99	26	0.004	Peak	0.249	0.314	0.3	Pass

**Agilent**

Ch Freq 836.6 MHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

#Peak Log 10 dB/ Offst 8.79 dB

Center 836.600 0 MHz Span 2 MHz

#Res BW 3.9 kHz #VBW 12 kHz #Sweep 10 s (2564 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

248.5315 kHz x dB -26.00 dB

Transmit Freq Error -796.309 Hz

x dB Bandwidth 314.247 kHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 836.600000 MHz

Start Freq 835.600000 MHz

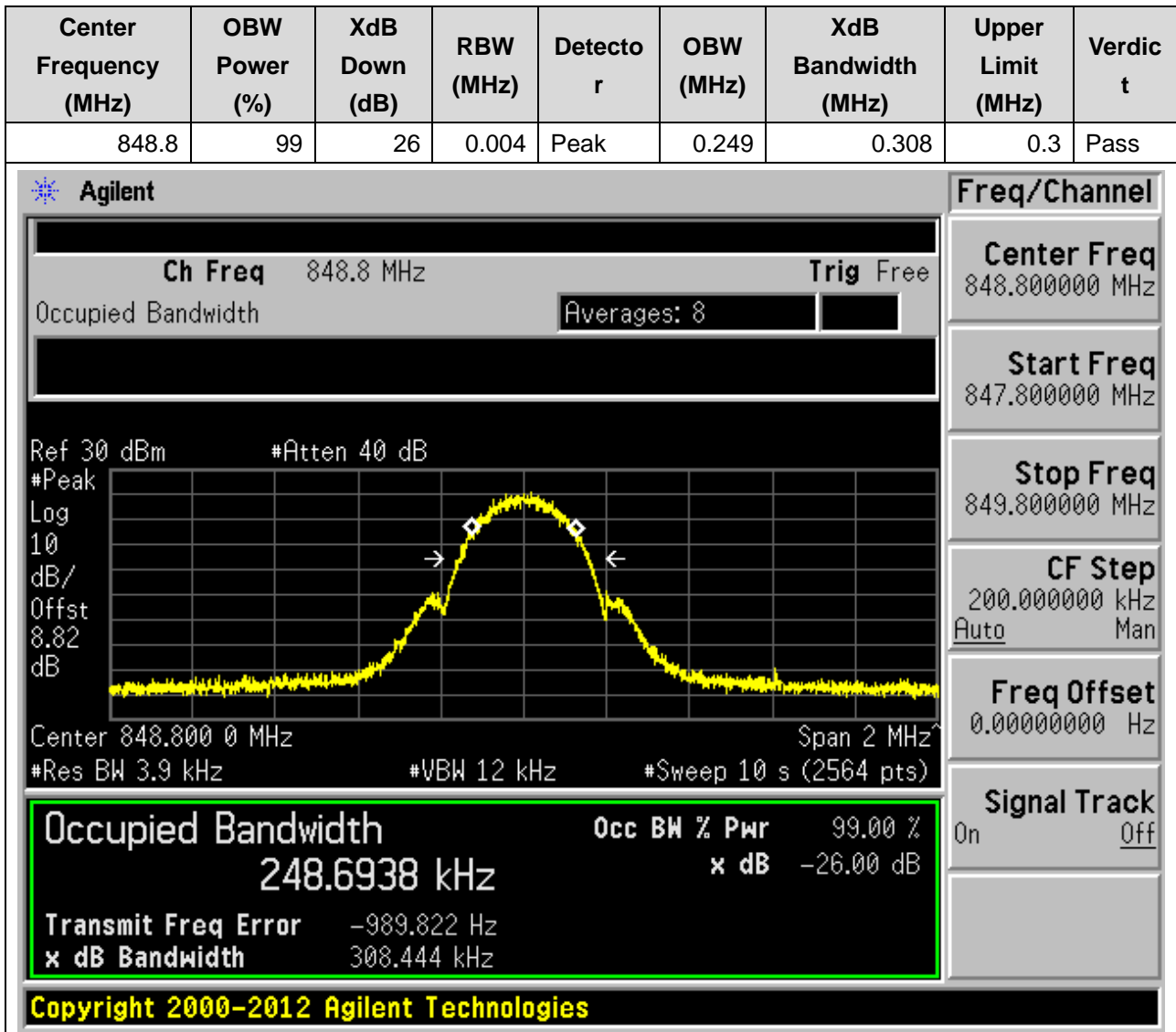
Stop Freq 837.600000 MHz

CF Step 200.000000 kHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

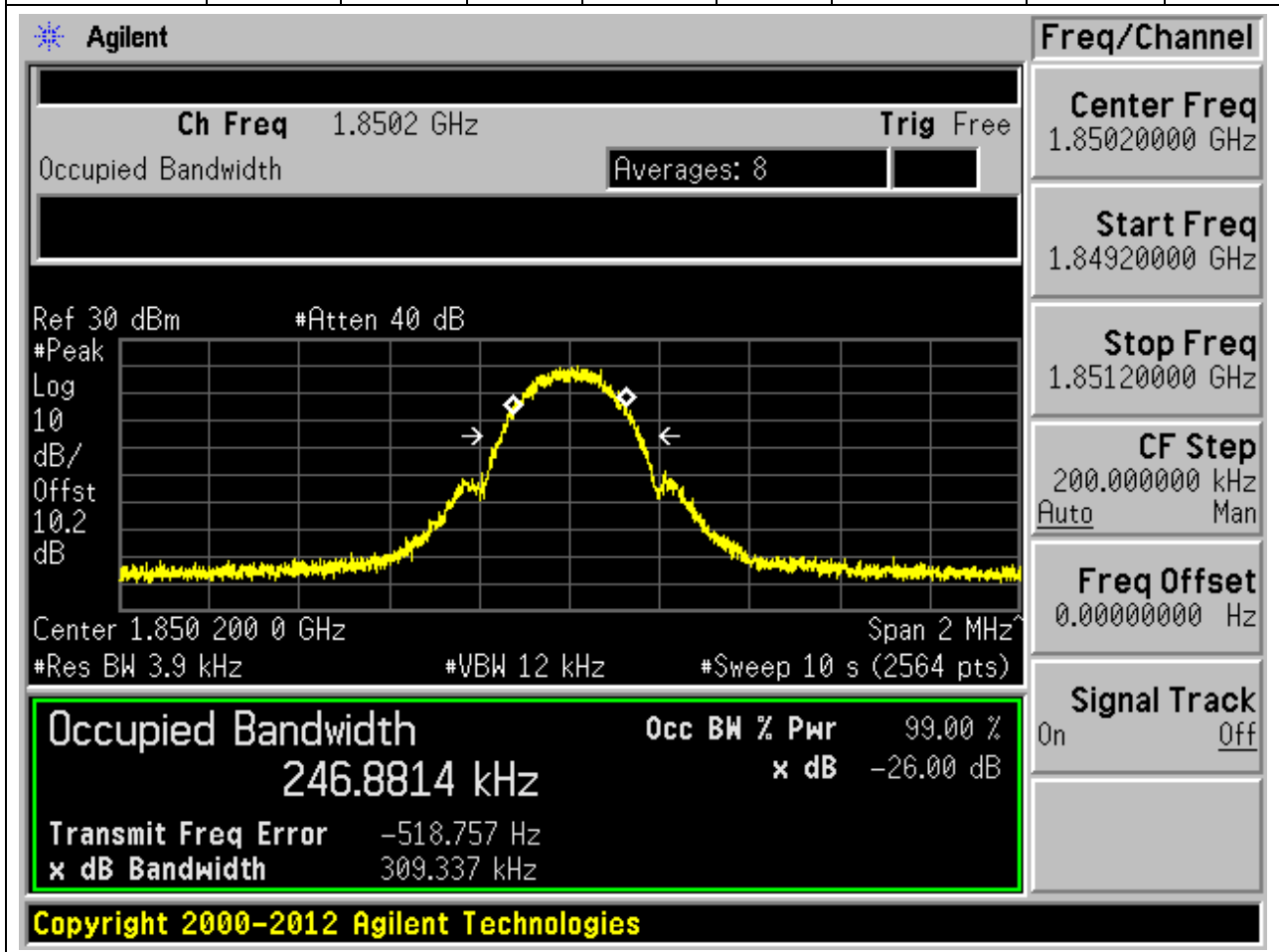
### 3.3. EGPRS Occupied Bandwidth(NTNV)(Channel:251)



## 4. EGPRS\_PCS

### 4.1. EGPRS Occupied Bandwidth(NTNV)(Channel:512)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1850.2	99	26	0.004	Peak	0.247	0.309	0.3	Pass



#### 4.2. EGPRS Occupied Bandwidth(NTNV)(Channel:661)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.004	Peak	0.251	0.313	0.3	Pass

**Agilent**

Ch Freq 1.88 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

Center 1.880 000 0 GHz Span 2 MHz

#Res BW 3.9 kHz #VBW 12 kHz #Sweep 10 s (2564 pts)

**Freq/Channel**

Center Freq 1.88000000 GHz

Start Freq 1.87900000 GHz

Stop Freq 1.88100000 GHz

CF Step 200.000000 kHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
251.3491 kHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-555.964 Hz
<b>x dB Bandwidth</b>	312.708 kHz

Copyright 2000-2012 Agilent Technologies

### 4.3. EGPRS Occupied Bandwidth(NTNV)(Channel:810)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1909.8	99	26	0.004	Peak	0.249	0.312	0.3	Pass

**Agilent**

Ch Freq 1.9098 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

Center 1.909 800 0 GHz Span 2 MHz

#Res BW 3.9 kHz #VBW 12 kHz #Sweep 10 s (2564 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

248.6980 kHz x dB -26.00 dB

Transmit Freq Error -435.480 Hz

x dB Bandwidth 311.670 kHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 1.90980000 GHz

Start Freq 1.90880000 GHz

Stop Freq 1.91080000 GHz

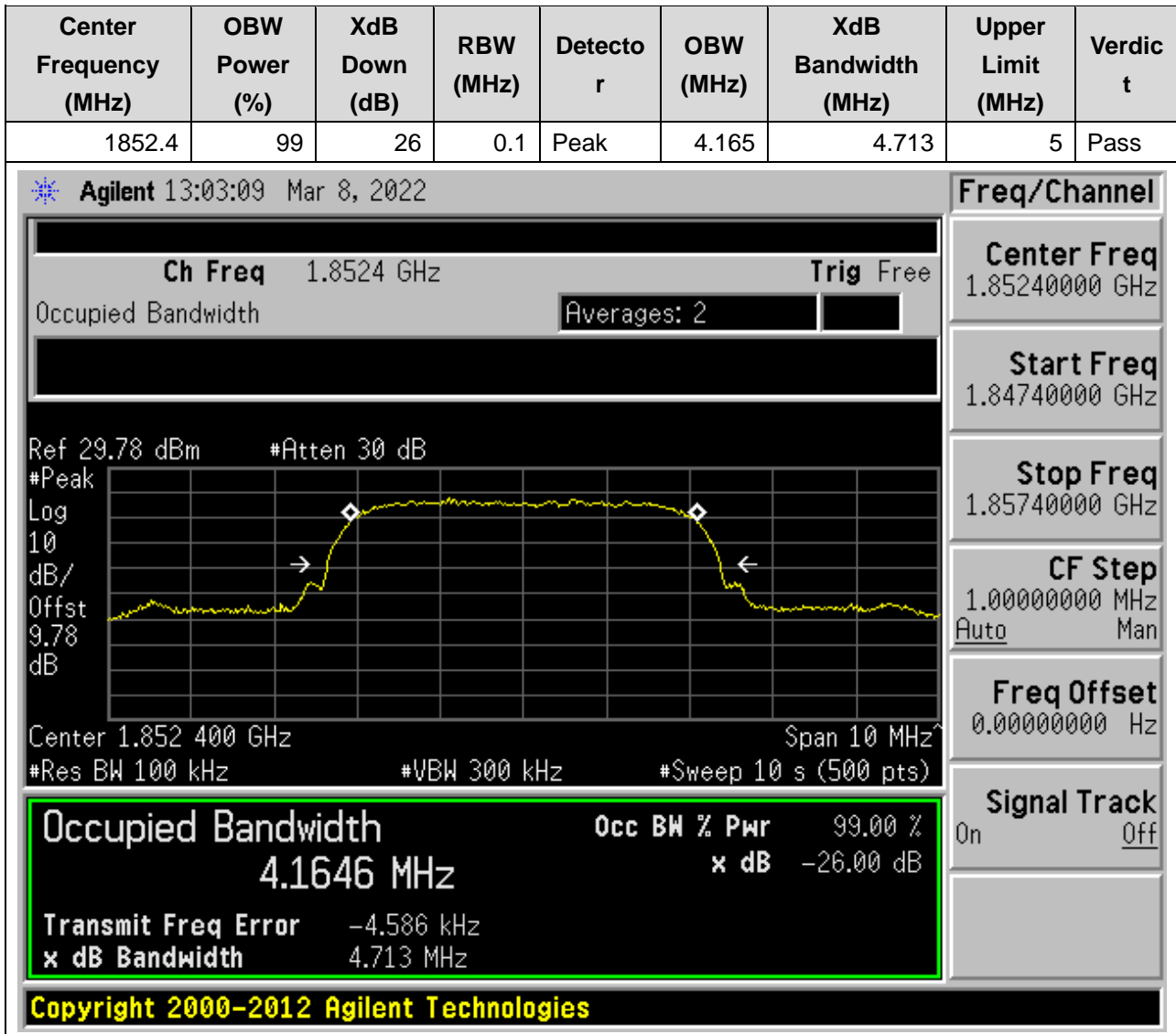
CF Step 200.000000 kHz  
Auto Man

Freq Offset 0.00000000 Hz

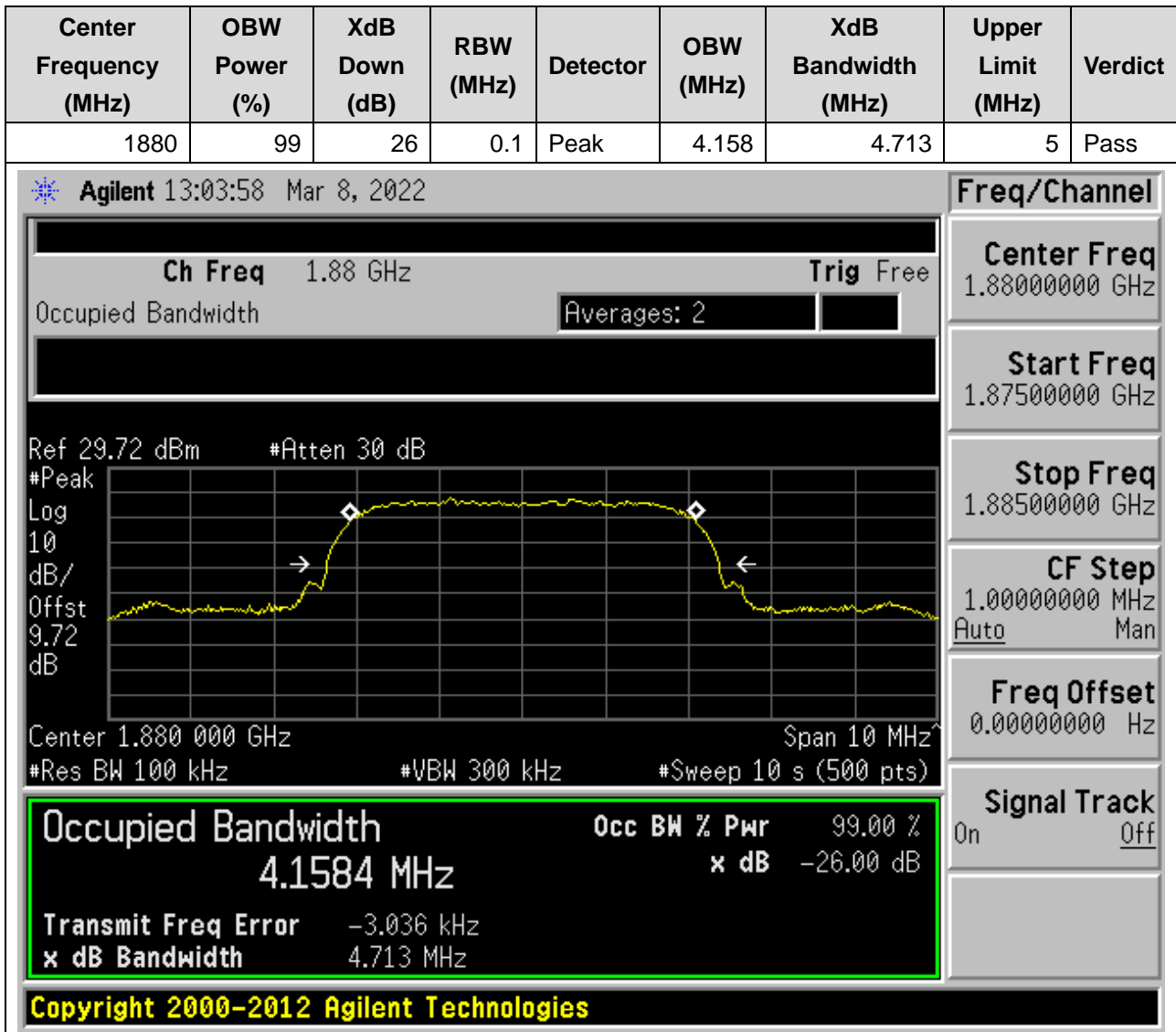
Signal Track On Off

## 5. WCDMA\_Band2

### 5.1. WCDMA Occupied Bandwidth(NTNV)(Channel:9262)



## 5.2. WCDMA Occupied Bandwidth(NTNV)(Channel:9400)



### 5.3. WCDMA Occupied Bandwidth(NTNV)(Channel:9538)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1907.6	99	26	0.1	Peak	4.161	4.717	5	Pass

**Agilent** 13:04:47 Mar 8, 2022

**Ch Freq** 1.9076 GHz **Trig** Free

Occupied Bandwidth **Averages: 2**

Ref 29.8 dBm #Atten 30 dB

Center 1.907 600 GHz Span 10 MHz  
 #Res BW 100 kHz #VBW 300 kHz #Sweep 10 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
4.1612 MHz	x dB	-26.00 dB
<b>Transmit Freq Error</b>	-4.744 kHz	
<b>x dB Bandwidth</b>	4.717 MHz	

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

**Center Freq** 1.90760000 GHz

**Start Freq** 1.90260000 GHz

**Stop Freq** 1.91260000 GHz

**CF Step** 1.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

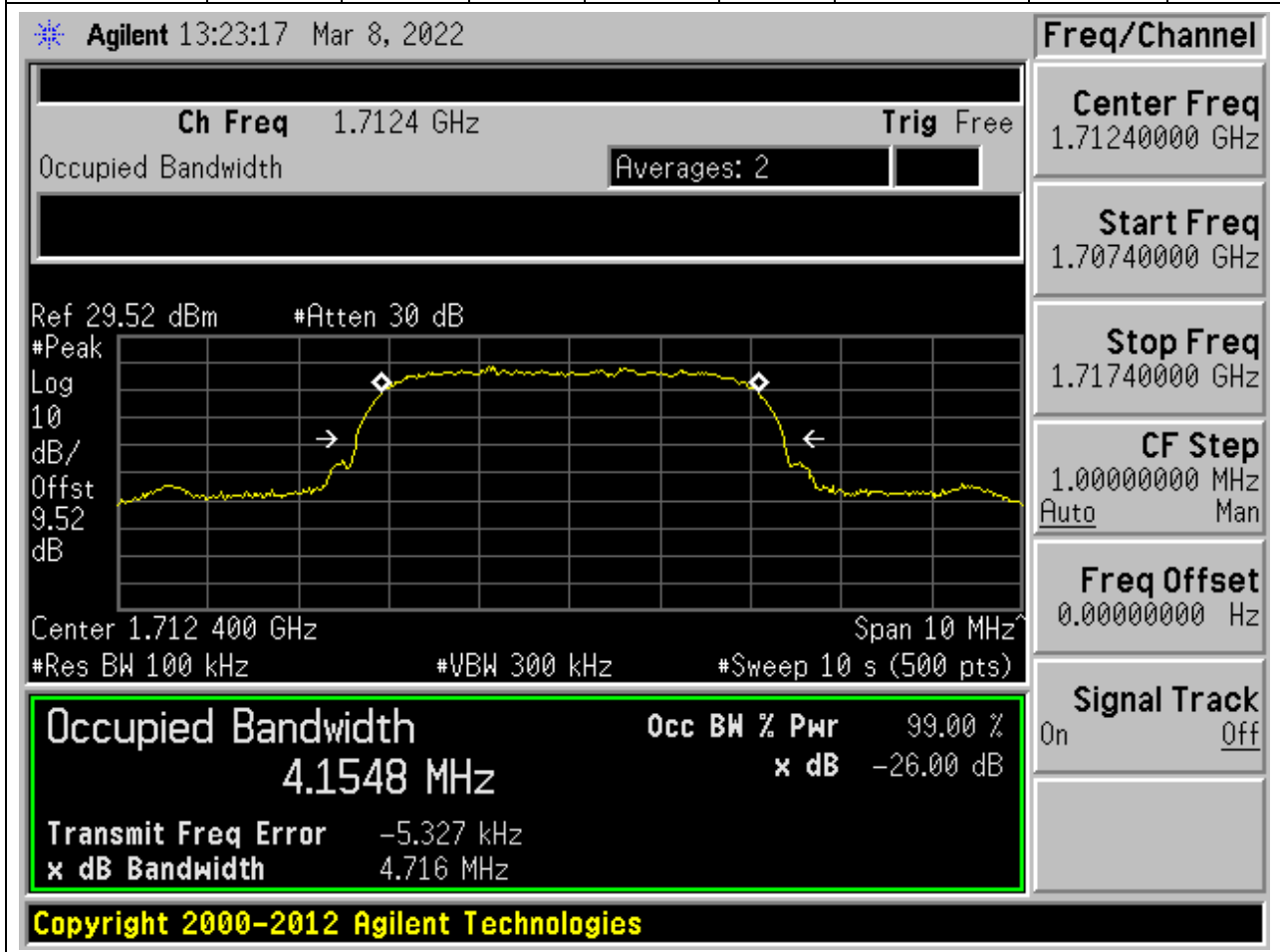
**Signal Track** On Off



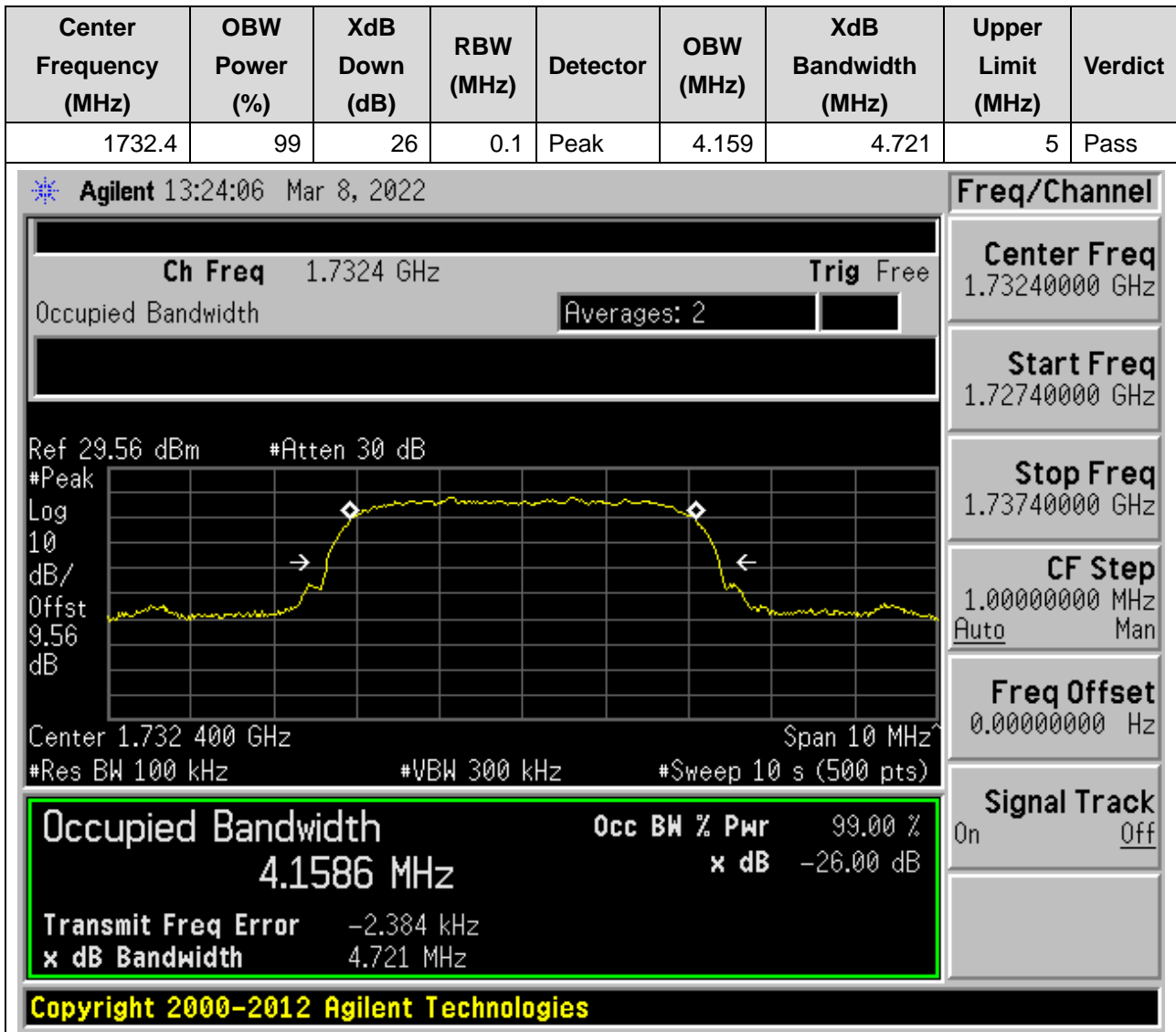
## 6. WCDMA\_Band4

### 6.1. WCDMA Occupied Bandwidth(NTNV)(Channel:1312)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1712.4	99	26	0.1	Peak	4.155	4.716	5	Pass



## 6.2. WCDMA Occupied Bandwidth(NTNV)(Channel:1412)



### 6.3. WCDMA Occupied Bandwidth(NTNV)(Channel:1513)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1752.6	99	26	0.1	Peak	4.153	4.721	5	Pass

**Agilent** 13:24:56 Mar 8, 2022

**Ch Freq** 1.7526 GHz **Trig** Free

Occupied Bandwidth **Averages: 2**

Ref 29.6 dBm #Atten 30 dB

Center 1.752 600 GHz Span 10 MHz  
#Res BW 100 kHz #VBW 300 kHz #Sweep 10 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
4.1532 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-8.448 kHz	
<b>x dB Bandwidth</b>	4.721 MHz	

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

**Center Freq** 1.75260000 GHz

**Start Freq** 1.74760000 GHz

**Stop Freq** 1.75760000 GHz

**CF Step** 1.00000000 MHz  
Auto Man

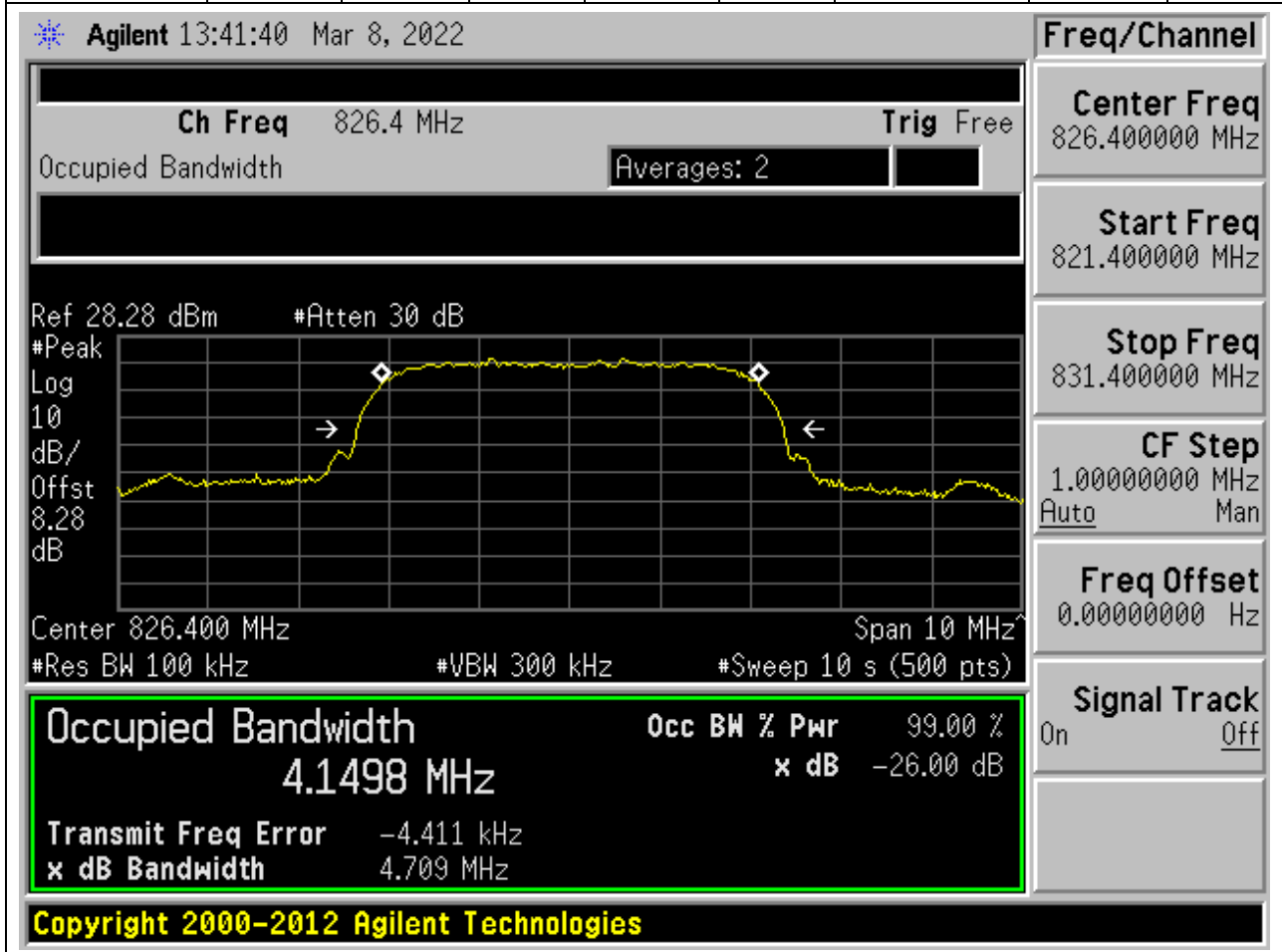
**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

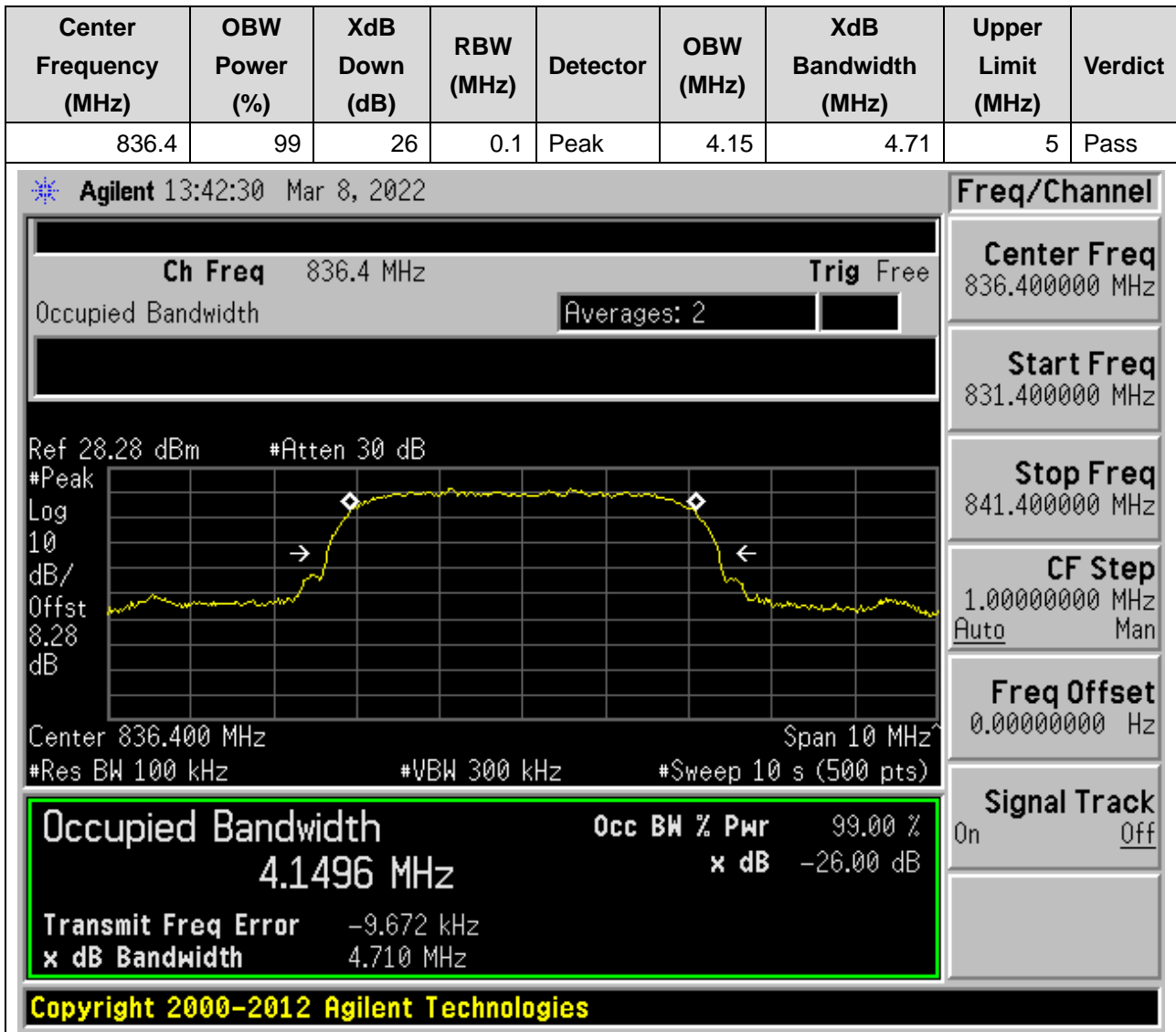
## 7. WCDMA\_Band5

### 7.1. WCDMA Occupied Bandwidth(NTNV)(Channel:4132)

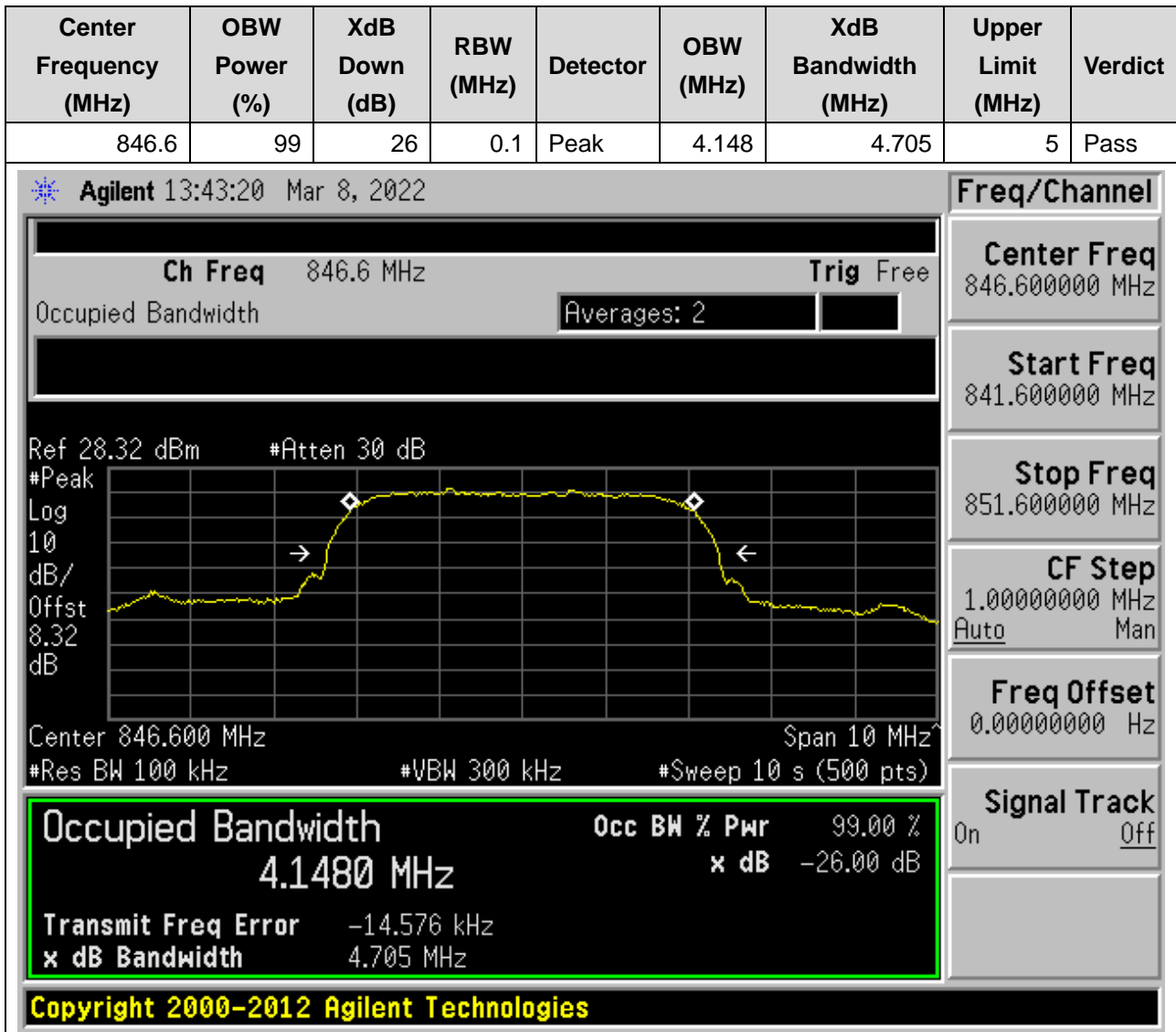
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
826.4	99	26	0.1	Peak	4.15	4.709	5	Pass



## 7.2. WCDMA Occupied Bandwidth(NTNV)(Channel:4182)

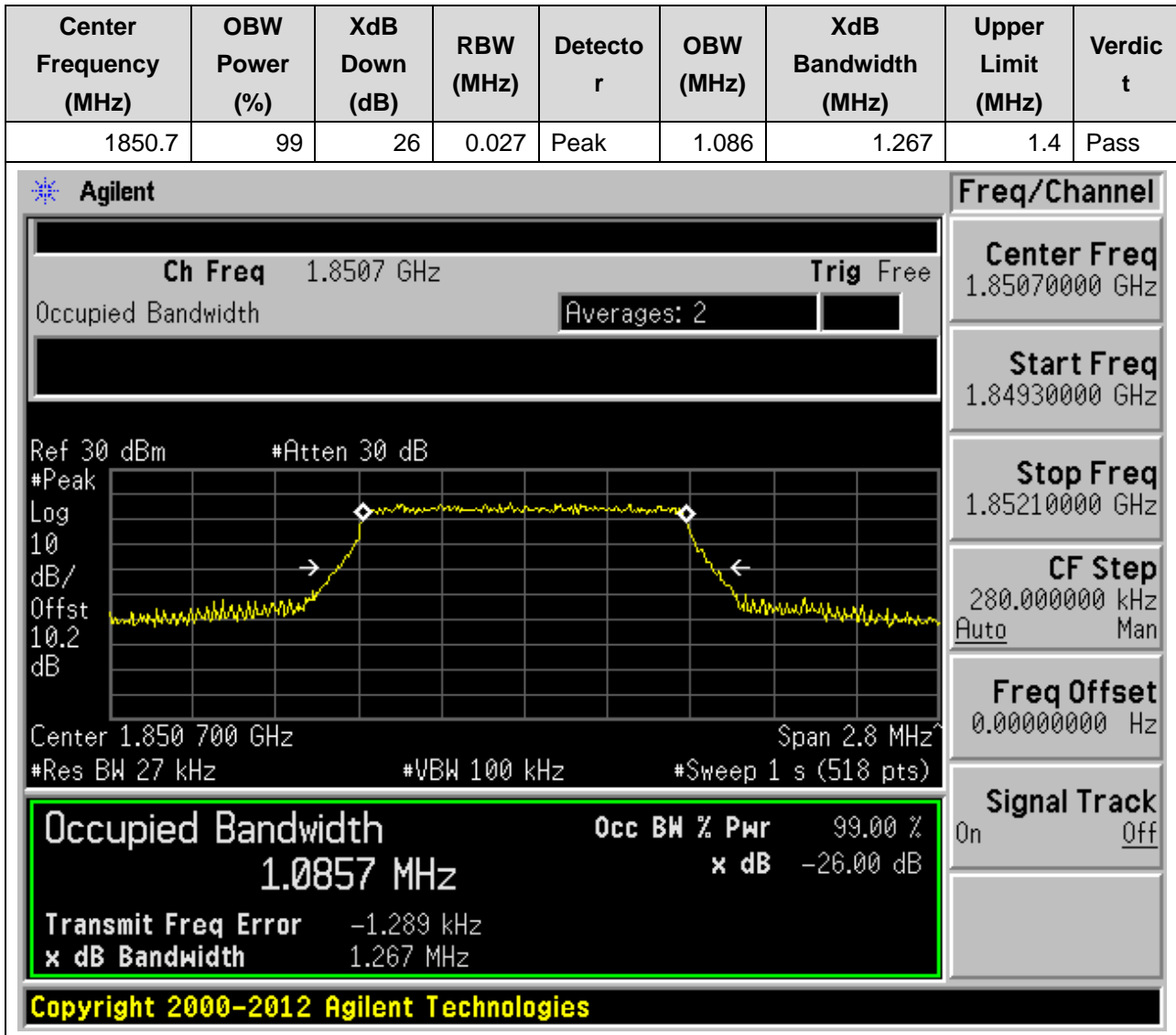


### 7.3. WCDMA Occupied Bandwidth(NTNV)(Channel:4233)



## 8. LTE\_Band2

### 8.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:18607, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



**8.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:18607, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1850.7	99	26	0.027	Peak	1.089	1.289	1.4	Pass

**Agilent**

Ch Freq 1.8507 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.2 dB

Center 1.850 700 GHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**1.0894 MHz** x dB -26.00 dB

Transmit Freq Error -1.625 kHz

x dB Bandwidth 1.289 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

**Center Freq**  
1.85070000 GHz

**Start Freq**  
1.84930000 GHz

**Stop Freq**  
1.85210000 GHz

**CF Step**  
280.000000 kHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

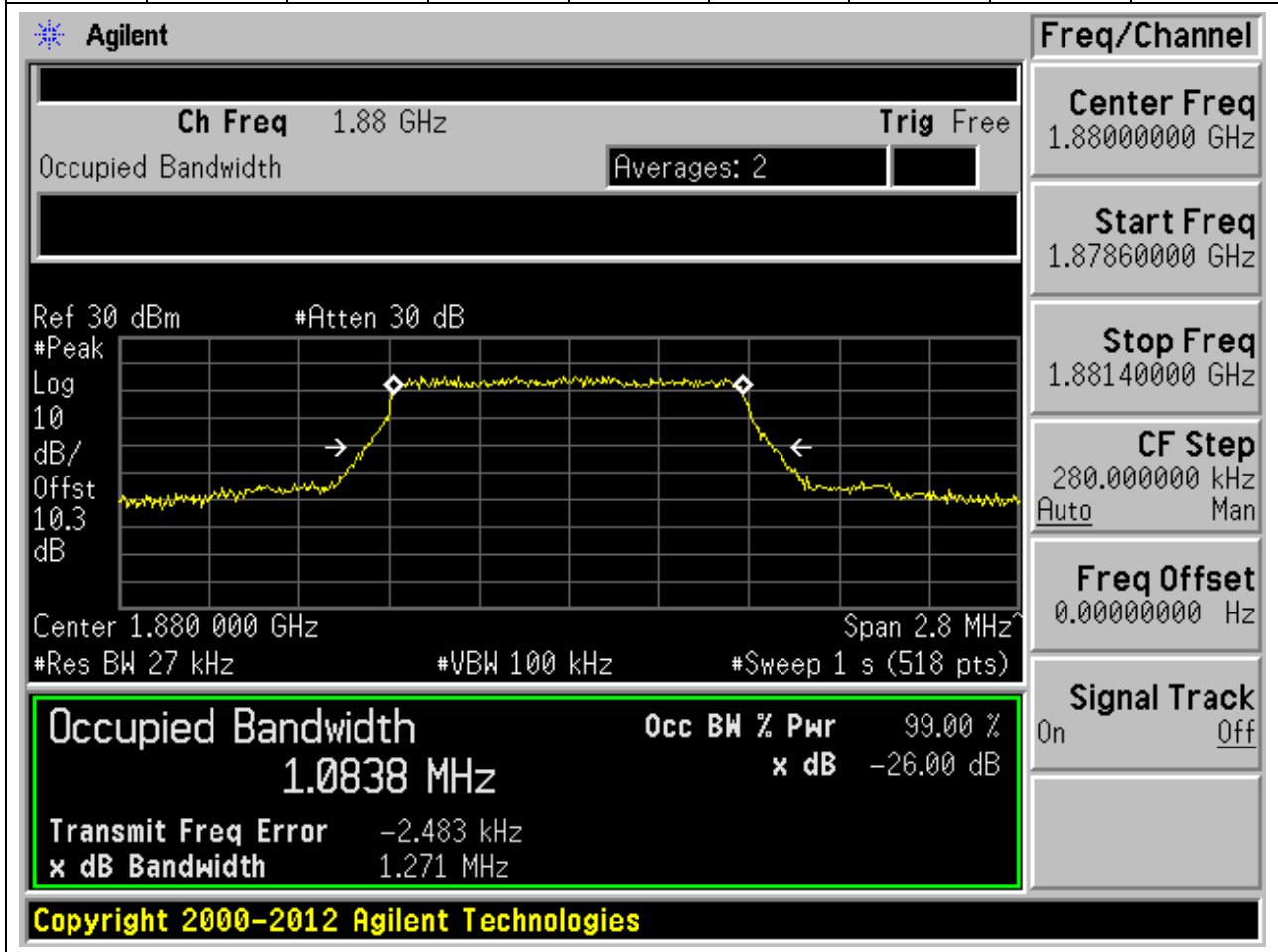


**8.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:18900, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



**8.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:18900, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.027	Peak	1.084	1.271	1.4	Pass



**8.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:19193, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1909.3	99	26	0.027	Peak	1.089	1.268	1.4	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 1.9093 GHz. The occupied bandwidth is highlighted in a green box with the following values:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>1.0894 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-2.761 kHz
<b>x dB Bandwidth</b>		1.268 MHz

Other parameters visible in the interface include: Ch Freq 1.9093 GHz, Trig Free, Averages: 2, Ref 30 dBm, #Atten 30 dB, #Peak, Log 10, dB/Offst 10.3 dB, Center 1.909 300 GHz, Span 2.8 MHz, #Res BW 27 kHz, #VBW 100 kHz, #Sweep 1 s (518 pts), Freq/Channel, Center Freq 1.90930000 GHz, Start Freq 1.90790000 GHz, Stop Freq 1.91070000 GHz, CF Step 280.000000 kHz (Auto/Man), Freq Offset 0.00000000 Hz, and Signal Track On/Off.

Copyright 2000-2012 Agilent Technologies

**8.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:19193, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1909.3	99	26	0.027	Peak	1.087	1.273	1.4	Pass

Agilent

**Freq/Channel**  
**Center Freq** 1.90930000 GHz  
**Start Freq** 1.90790000 GHz  
**Stop Freq** 1.91070000 GHz  
**CF Step** 280.000000 kHz  
Auto Man  
**Freq Offset** 0.00000000 Hz  
**Signal Track** On Off

**Ch Freq** 1.9093 GHz
**Trig** Free

Occupied Bandwidth
Averages: 2

Ref 30 dBm      #Atten 30 dB

Center 1.909 300 GHz      Span 2.8 MHz

#Res BW 27 kHz      #VBW 100 kHz      #Sweep 1 s (518 pts)

**Occupied Bandwidth**      **Occ BW % Pwr** 99.00 %

**1.0874 MHz**

**x dB** -26.00 dB

**Transmit Freq Error** -1.644 kHz

**x dB Bandwidth** 1.273 MHz

**Copyright 2000-2012 Agilent Technologies**

**8.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:18615, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1851.5	99	26	0.062	Peak	2.685	2.911	3	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 1.8515 GHz and a span of 6 MHz. The vertical axis is labeled 'dB' and the horizontal axis is labeled 'MHz'. The plot shows a signal with a peak at approximately 1.8515 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 2.6854 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 157.346 Hz and the 'x dB Bandwidth' is 2.911 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Parameter	Value
Ch Freq	1.8515 GHz
Trig	Free
Averages	2
Ref	30 dBm
#Atten	30 dB
#Peak	Log
Log	10
dB/	Offst
Offst	10.2
dB	
Center	1.851 500 GHz
Span	6 MHz
#Res BW	62 kHz
#VBW	200 kHz
#Sweep	1 s (483 pts)
Occupied Bandwidth	2.6854 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	157.346 Hz
x dB Bandwidth	2.911 MHz

Copyright 2000-2012 Agilent Technologies

**8.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:18615, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1851.5	99	26	0.062	Peak	2.68	2.927	3	Pass

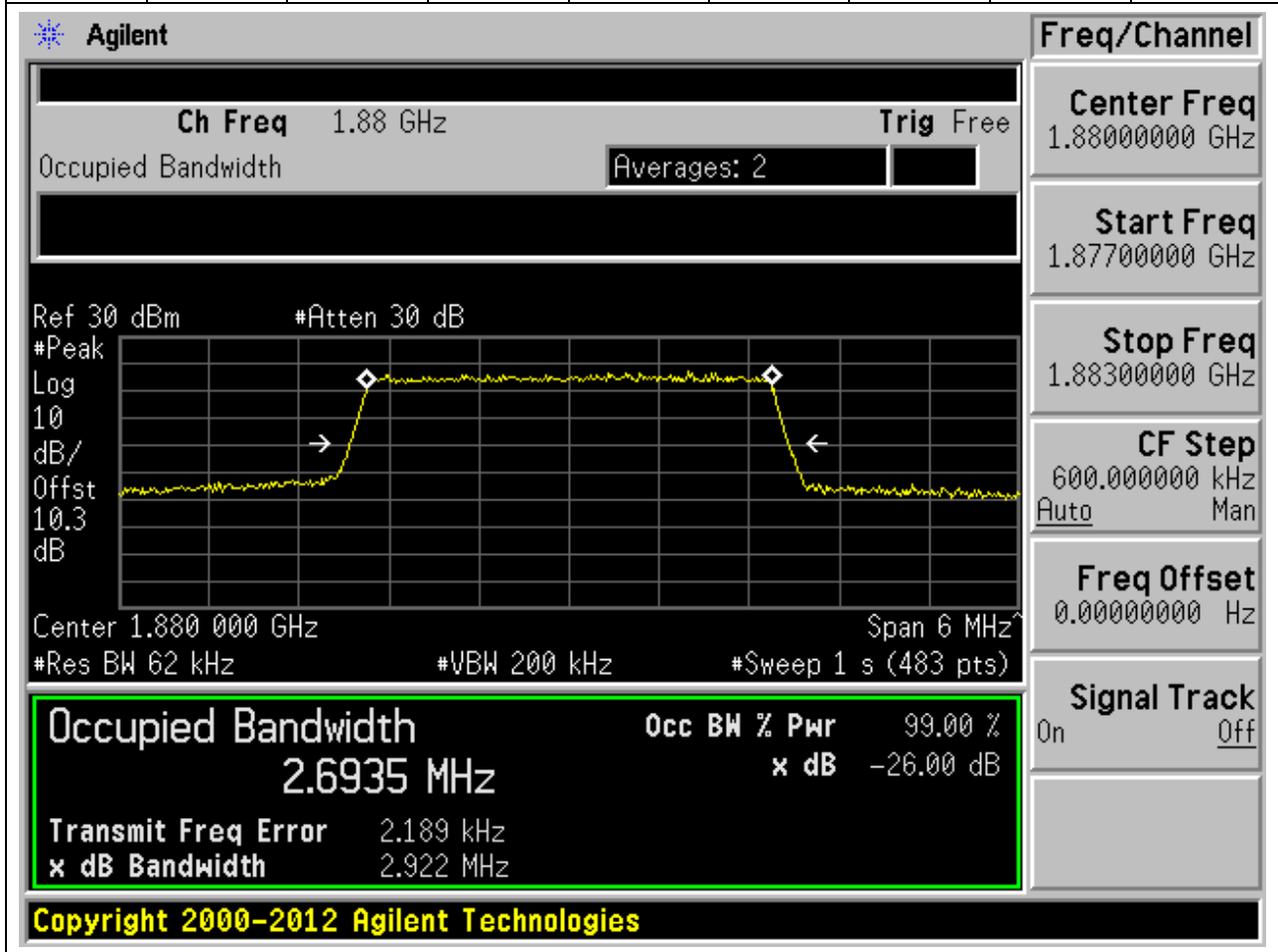
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 1.8515 GHz. The occupied bandwidth is 2.6802 MHz, which is 99.00% of the 2.68 MHz reference bandwidth. The XdB down is -26.00 dB. The transmit frequency error is -398.393 Hz. The XdB bandwidth is 2.927 MHz. The signal track is turned on.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
2.6802 MHz		x dB	-26.00 dB
Transmit Freq Error		-398.393 Hz	
x dB Bandwidth		2.927 MHz	

**Copyright 2000-2012 Agilent Technologies**

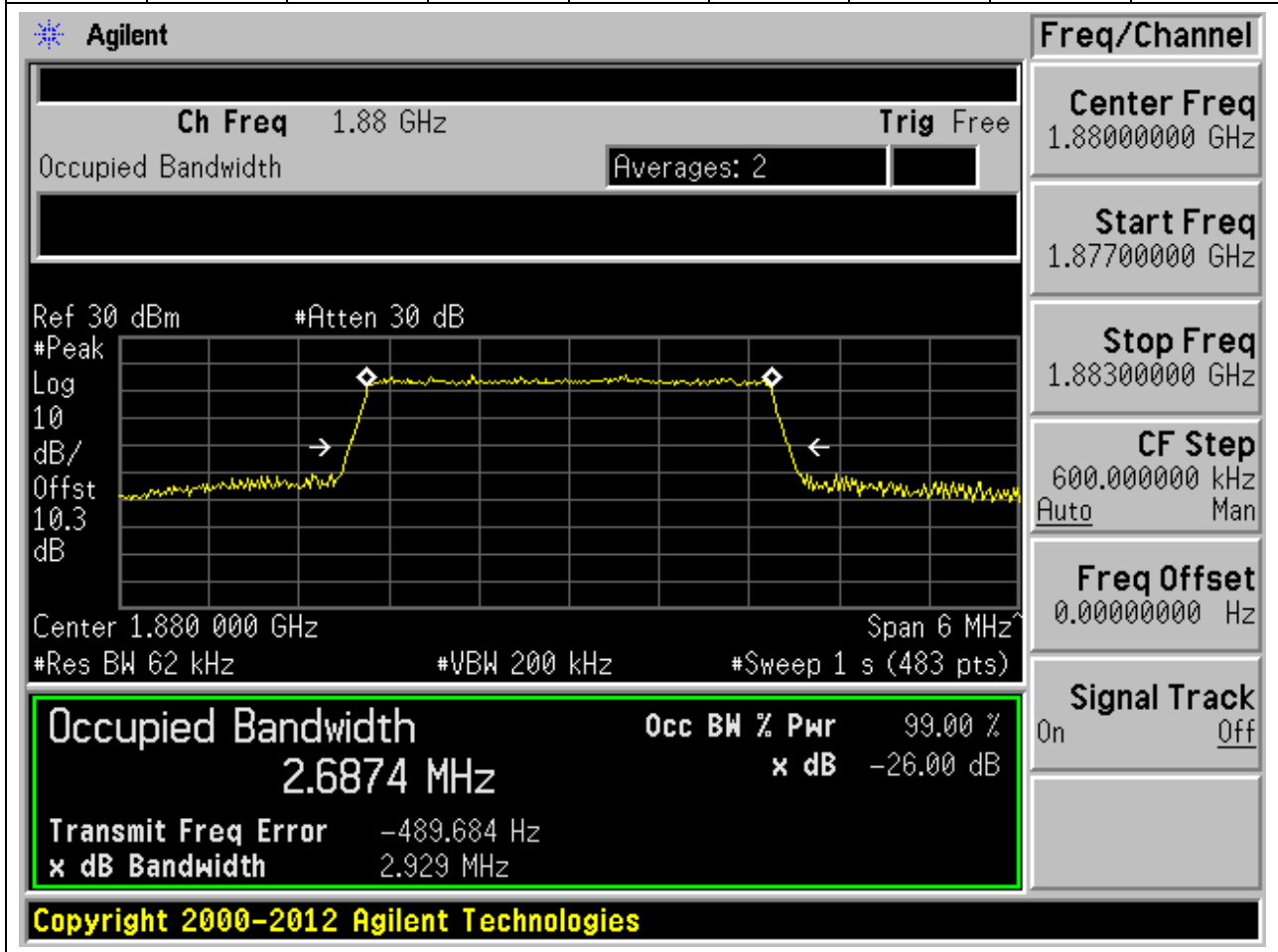
**8.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:18900, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.062	Peak	2.694	2.922	3	Pass



**8.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:18900, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.062	Peak	2.687	2.929	3	Pass





**8.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:19185, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1908.5	99	26	0.062	Peak	2.695	2.923	3	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is centered at 1.9085 GHz with a span of 6 MHz. The vertical axis is labeled 'dB' and the horizontal axis is labeled 'MHz'. The plot shows a flat signal level with a slight dip at the edges, indicating the occupied bandwidth. The 'Occupied Bandwidth' is highlighted in a green box and reads 2.6953 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -1.433 kHz and the 'x dB Bandwidth' is 2.923 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Freq/Channel	
Center Freq	1.90850000 GHz
Start Freq	1.90550000 GHz
Stop Freq	1.91150000 GHz
CF Step	600.000000 kHz Auto Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

**Occupied Bandwidth** 2.6953 MHz

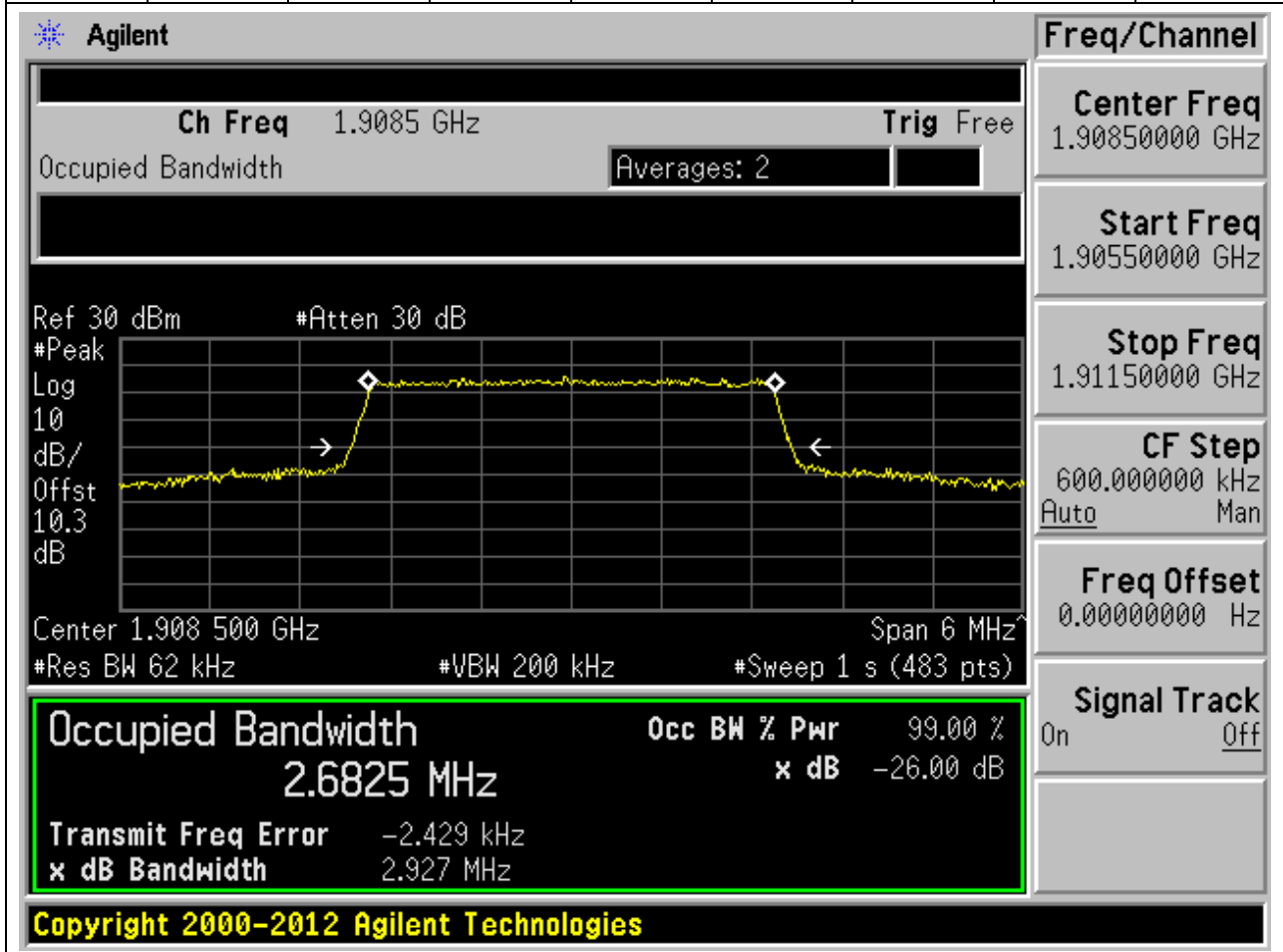
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error -1.433 kHz  
x dB Bandwidth 2.923 MHz

Copyright 2000-2012 Agilent Technologies

**8.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:19185, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1908.5	99	26	0.062	Peak	2.682	2.927	3	Pass



**8.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:18625, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1852.5	99	26	0.1	Peak	4.494	4.927	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is titled "Occupied Bandwidth" and shows a signal centered at 1.8525 GHz. The plot parameters are: Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 10.2 dB, Center 1.852 500 GHz, Span 10 MHz, #Res BW 100 kHz, #VBW 300 kHz, #Sweep 1 s (500 pts). The plot shows a signal with a peak at 1.8525 GHz and a bandwidth of 4.494 MHz. The signal is measured at -26.00 dB relative to the reference level.

The right-hand side of the screen shows the "Freq/Channel" settings:

- Center Freq: 1.85250000 GHz
- Start Freq: 1.84750000 GHz
- Stop Freq: 1.85750000 GHz
- CF Step: 1.00000000 MHz (Auto)
- Freq Offset: 0.00000000 Hz
- Signal Track: On

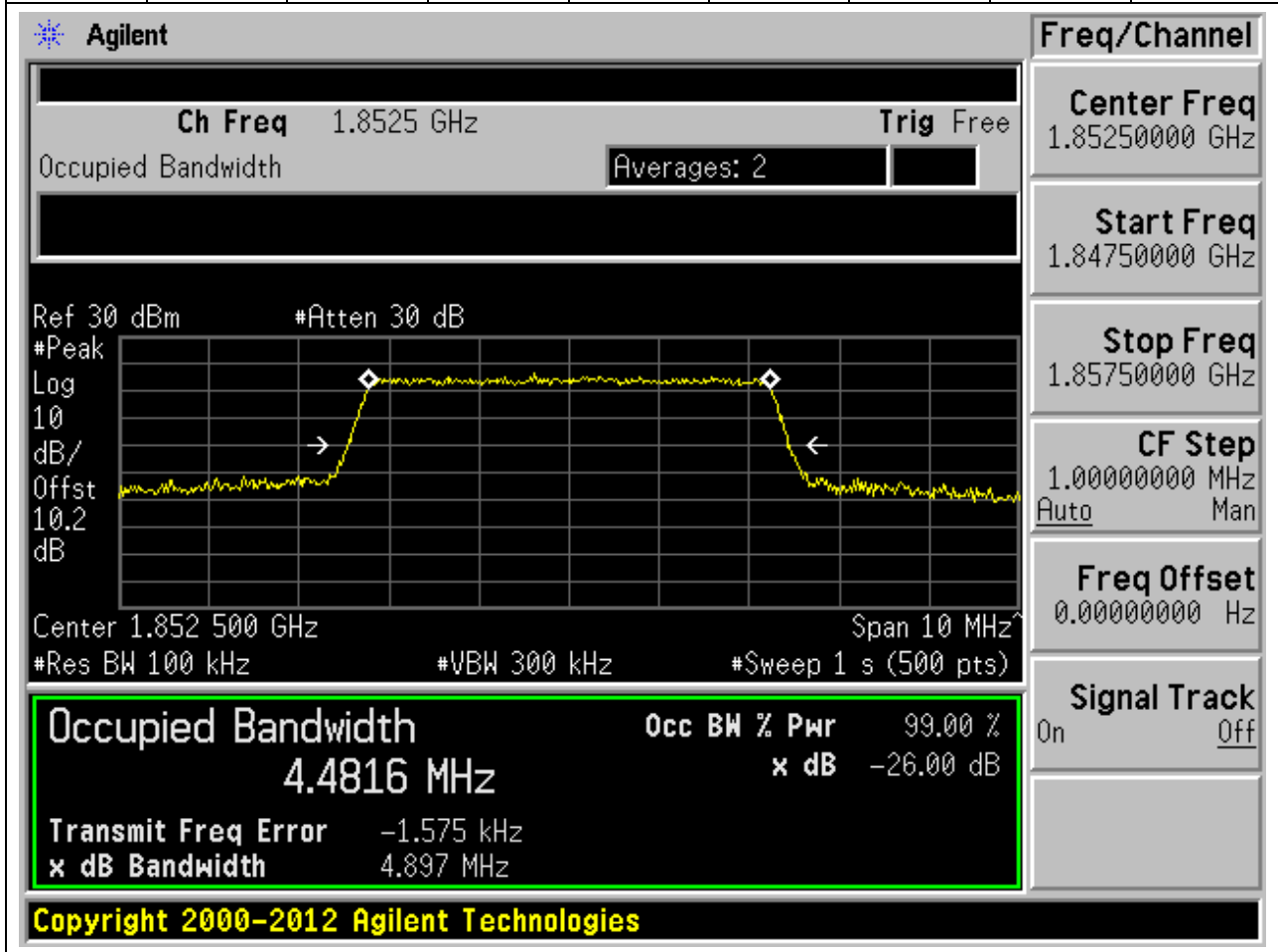
The bottom of the screen shows the "Occupied Bandwidth" measurement results:

- Occupied Bandwidth: 4.4943 MHz
- Occ BW % Pwr: 99.00 %
- x dB: -26.00 dB
- Transmit Freq Error: -2.622 kHz
- x dB Bandwidth: 4.927 MHz

Copyright 2000-2012 Agilent Technologies

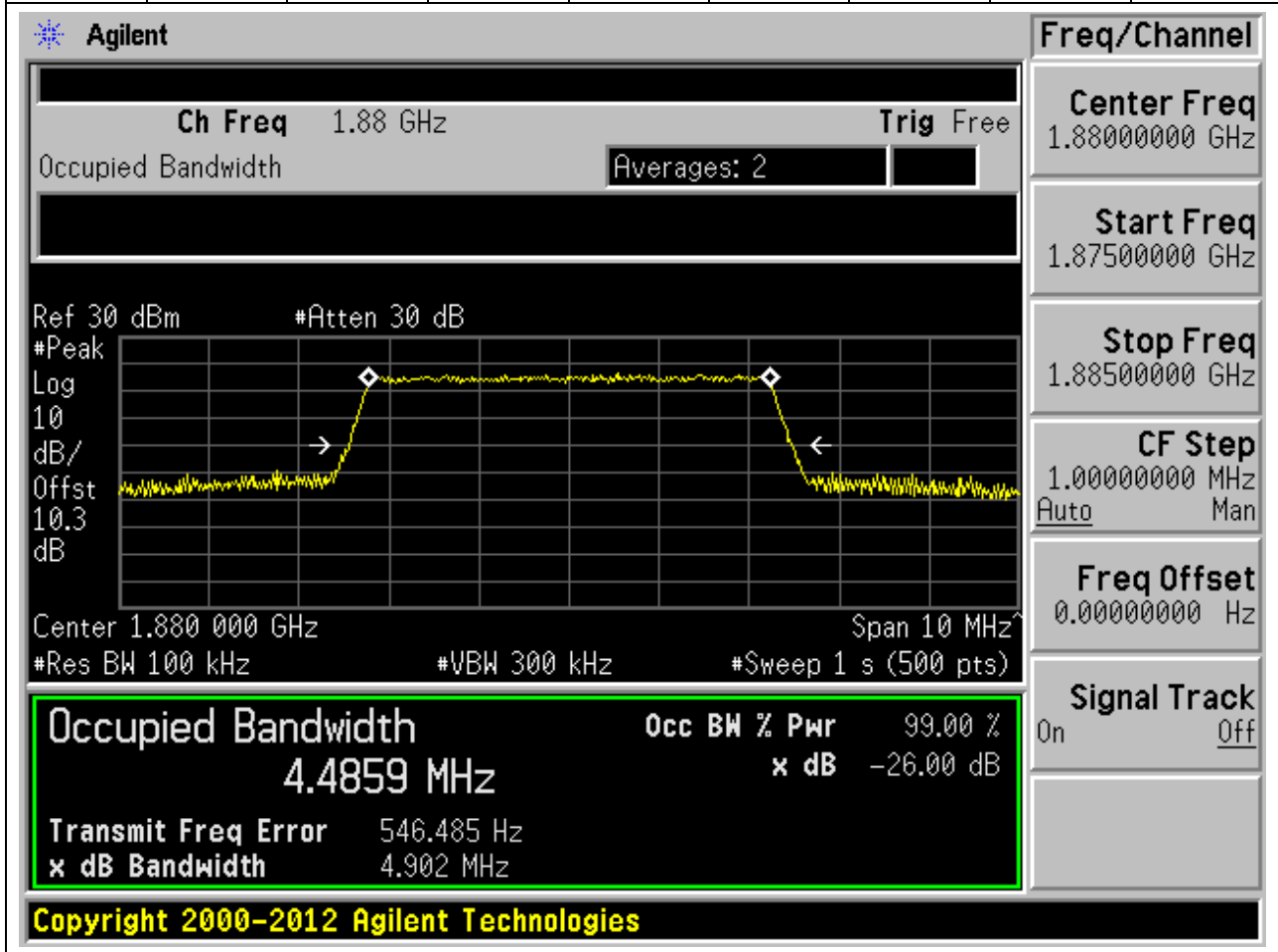
**8.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:18625, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1852.5	99	26	0.1	Peak	4.482	4.897	5	Pass



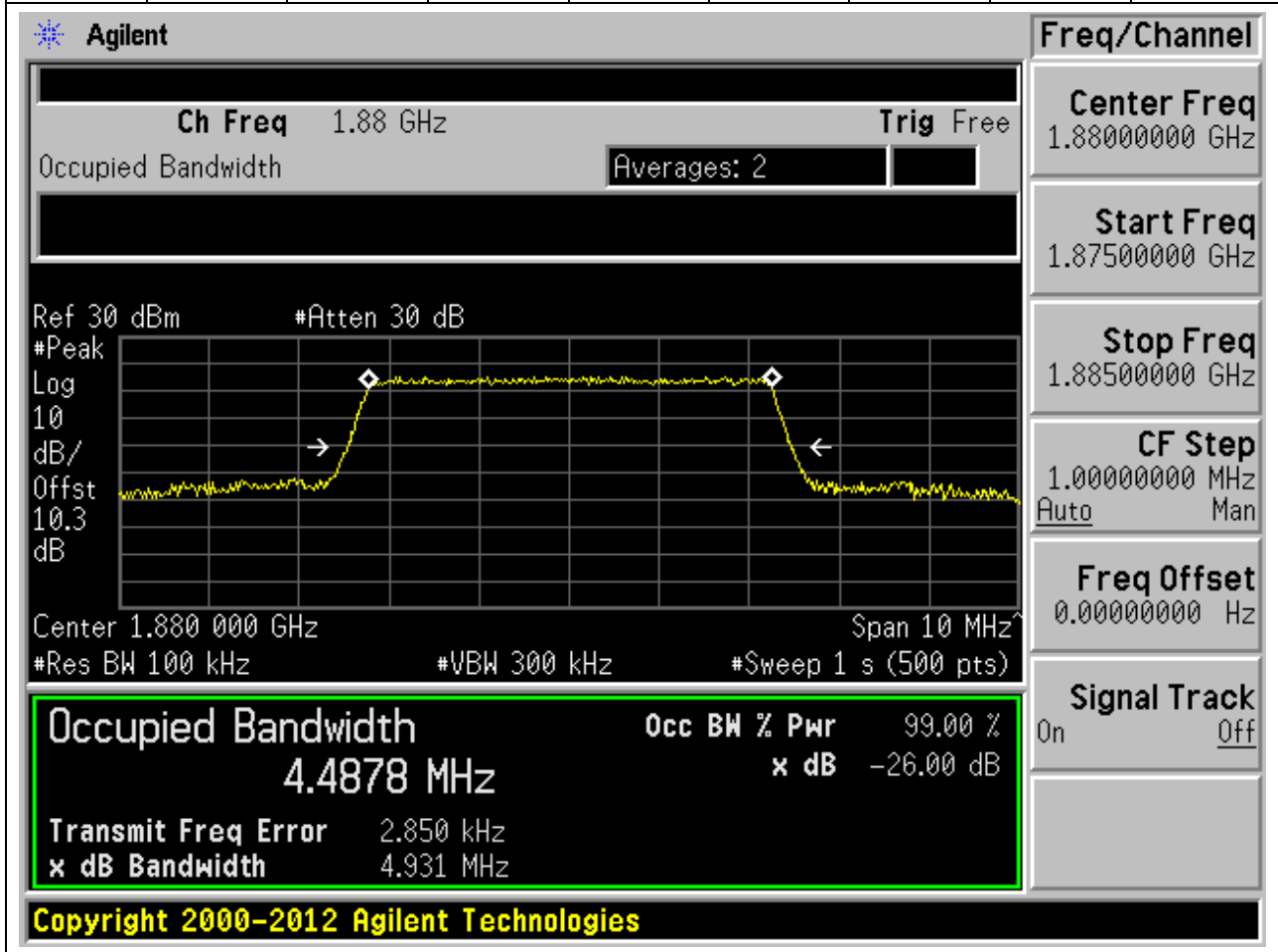
**8.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:18900, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.1	Peak	4.486	4.902	5	Pass



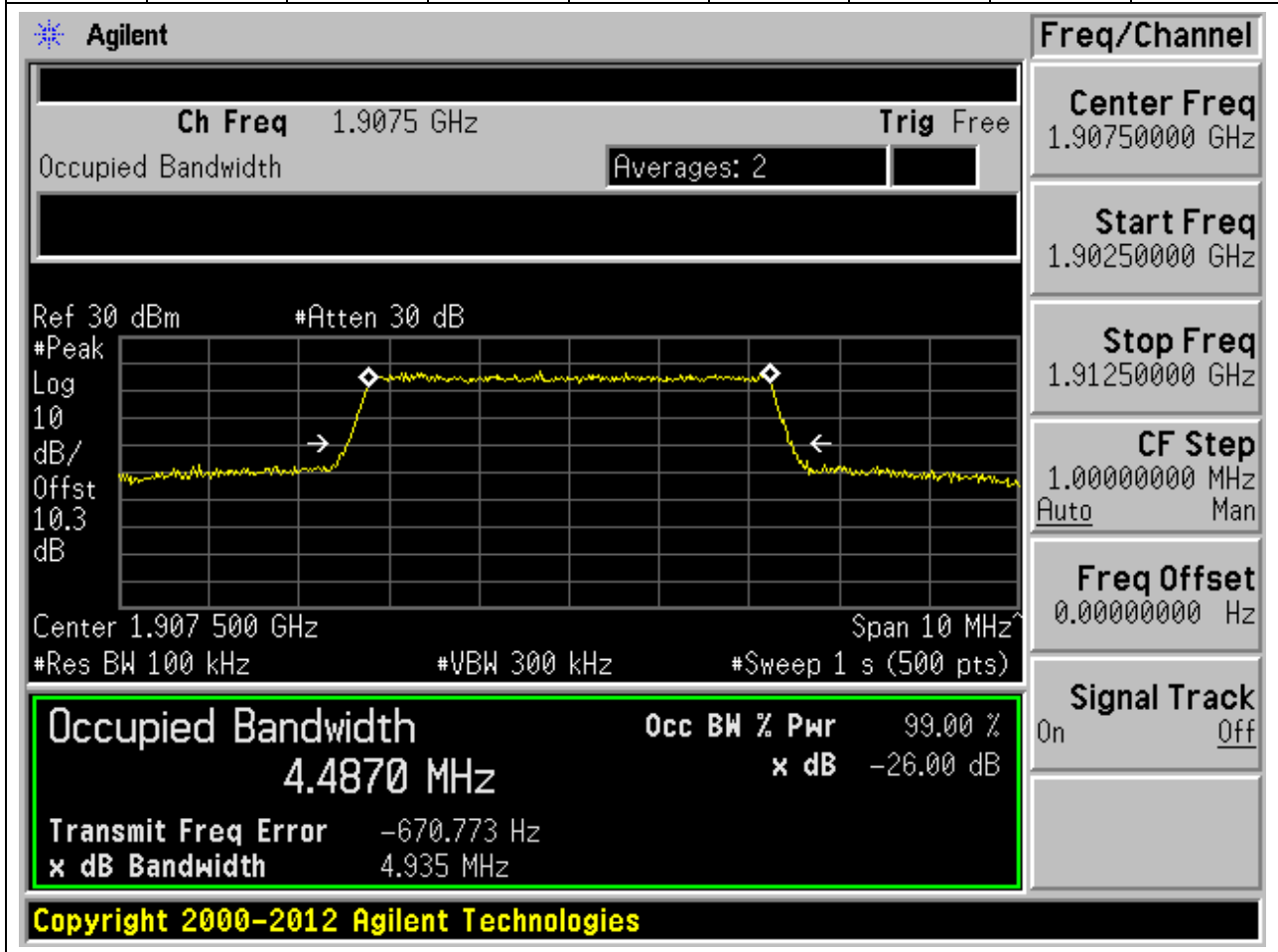
**8.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:18900, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.1	Peak	4.488	4.931	5	Pass



**8.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:19175, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1907.5	99	26	0.1	Peak	4.487	4.935	5	Pass



**8.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:19175, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1907.5	99	26	0.1	Peak	4.492	4.949	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 1.9075 GHz. The occupied bandwidth is 4.4921 MHz, which is 99.00% of the 4.949 MHz bandwidth. The XdB down is -26.00 dB. The transmit frequency error is 1.537 kHz. The interface also shows various settings like Res BW (100 kHz), VBW (300 kHz), and Span (10 MHz).

Occupied Bandwidth		Occ BW % Pwr
4.4921 MHz	99.00 %	
Transmit Freq Error		1.537 kHz
x dB Bandwidth		4.949 MHz
		x dB -26.00 dB

**Copyright 2000-2012 Agilent Technologies**



**8.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:18650, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1855	99	26	0.2	Peak	8.969	9.863	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a yellow line representing the signal level. The trace is centered at 1.855 GHz with a span of 20 MHz. The signal level is approximately -26 dB. The occupied bandwidth is measured as 8.9689 MHz, which is 99.00% of the total bandwidth. The XdB down is -26.00 dB. The RBW is 0.2 MHz and the VBW is 620 kHz. The sweep time is 1 s (500 pts). The signal track is turned on.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
8.9689 MHz		x dB	-26.00 dB
Transmit Freq Error	-2.680 kHz		
x dB Bandwidth	9.863 MHz		

**Copyright 2000-2012 Agilent Technologies**

**8.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:18650, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1855	99	26	0.2	Peak	8.975	9.718	10	Pass

**Agilent**

Ch Freq 1.855 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.2 dB

Center 1.855 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

**Occupied Bandwidth 8.9746 MHz**

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 209.569 Hz  
x dB Bandwidth 9.718 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 1.85500000 GHz

Start Freq 1.84500000 GHz

Stop Freq 1.86500000 GHz

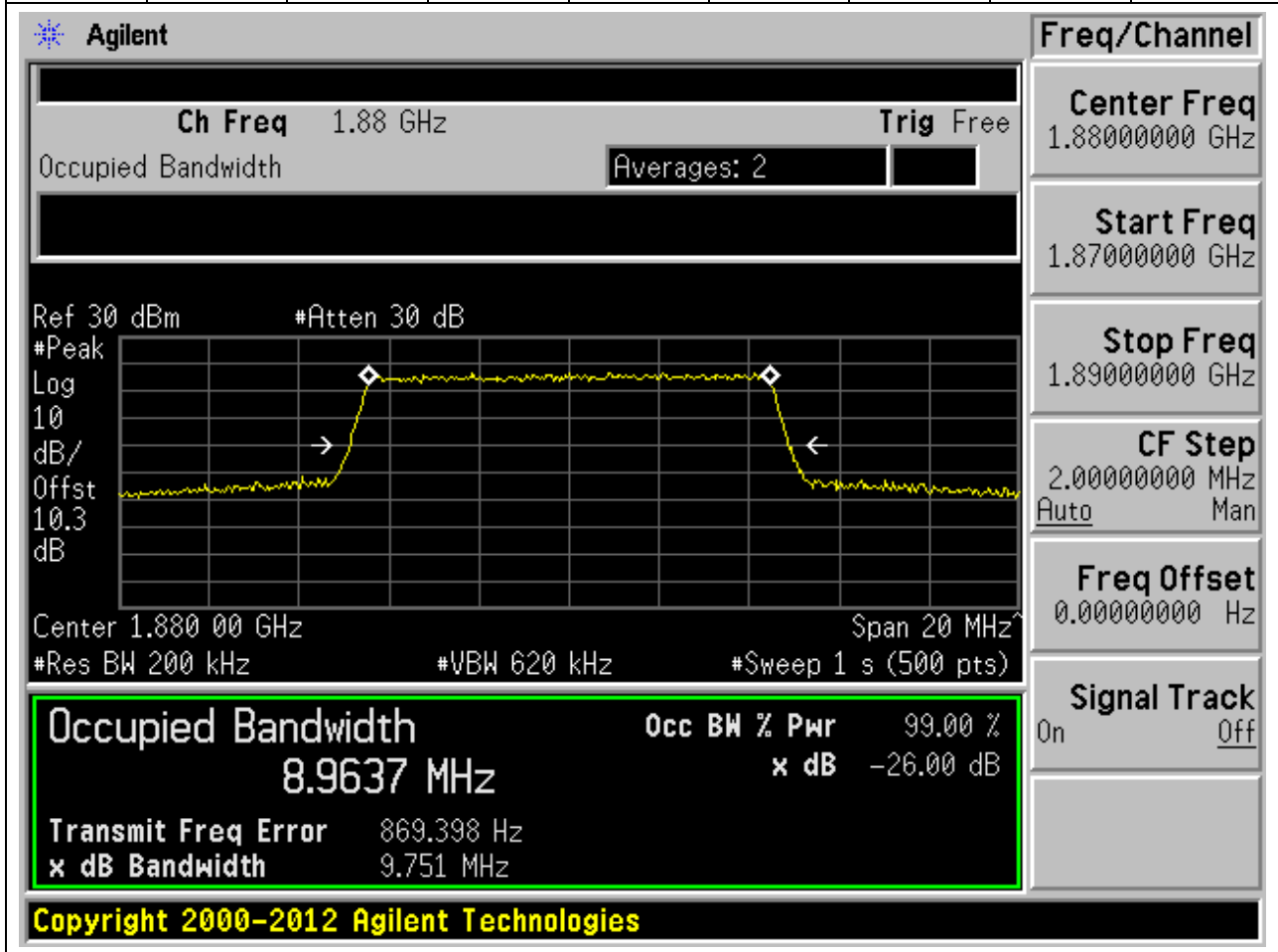
CF Step 2.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**8.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:18900, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.2	Peak	8.964	9.751	10	Pass



**8.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:18900, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.2	Peak	8.952	9.757	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is centered at 1.88 GHz with a span of 20 MHz. The vertical axis is labeled 'dB' and the horizontal axis is labeled 'MHz'. The plot shows a flat signal level with a slight dip at the edges, indicating the occupied bandwidth. The signal level is approximately -26 dB. The plot is labeled with 'Ref 30 dBm' and '#Atten 30 dB'. The plot is also labeled with '#Peak Log 10 dB/Offst 10.3 dB'. The plot is also labeled with 'Center 1.880 00 GHz' and 'Span 20 MHz'. The plot is also labeled with '#Res BW 200 kHz' and '#VBW 620 kHz' and '#Sweep 1 s (500 pts)'. The plot is also labeled with 'Occupied Bandwidth 8.9518 MHz' and 'Occ BW % Pwr 99.00 %' and 'x dB -26.00 dB'. The plot is also labeled with 'Transmit Freq Error 8.386 kHz' and 'x dB Bandwidth 9.757 MHz'. The plot is also labeled with 'Copyright 2000-2012 Agilent Technologies'.

**Agilent**

Ch Freq 1.88 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.3 dB

Center 1.880 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**8.9518 MHz** x dB -26.00 dB

Transmit Freq Error 8.386 kHz

x dB Bandwidth 9.757 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 1.88000000 GHz

Start Freq 1.87000000 GHz

Stop Freq 1.89000000 GHz

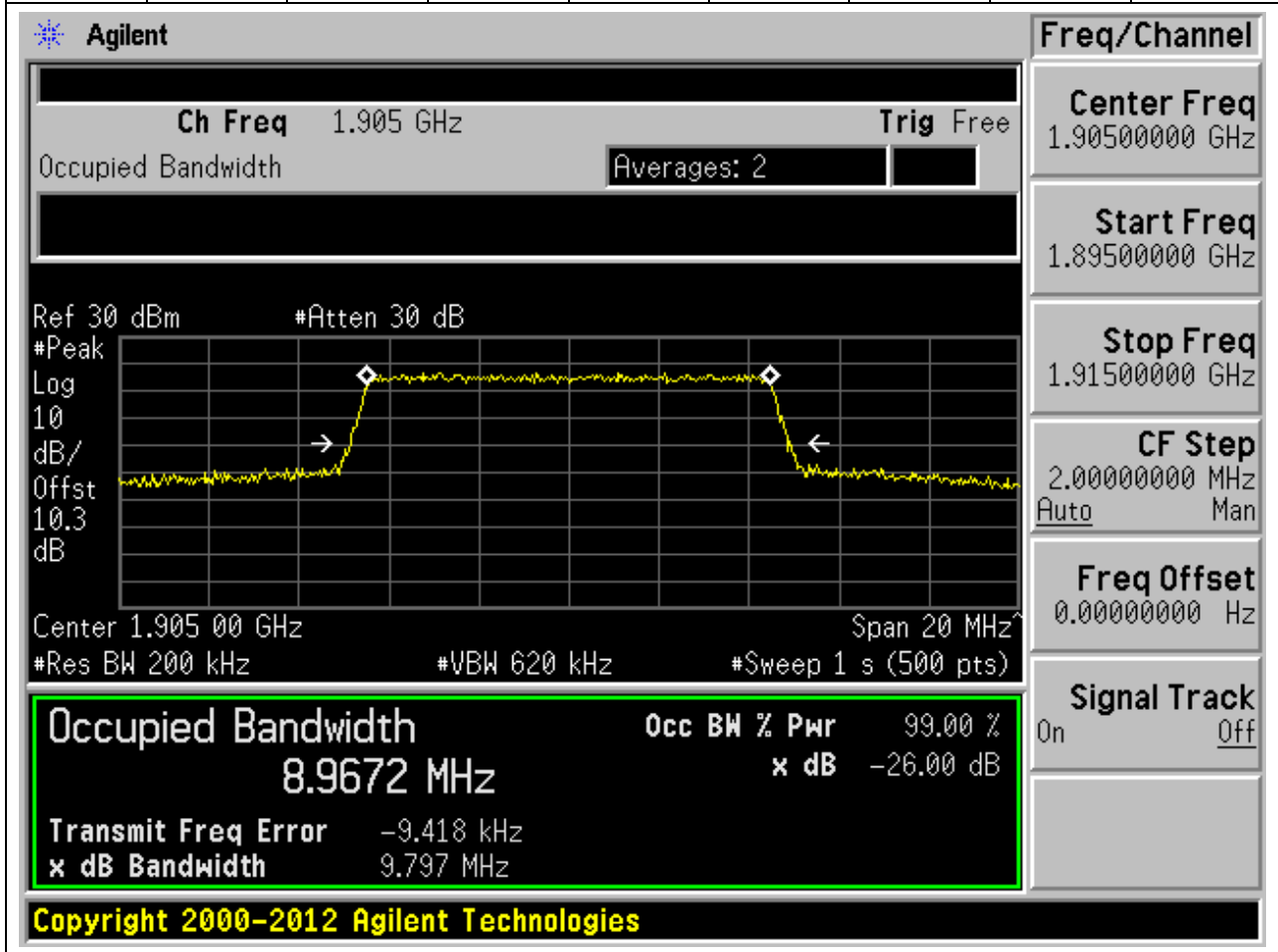
CF Step 2.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

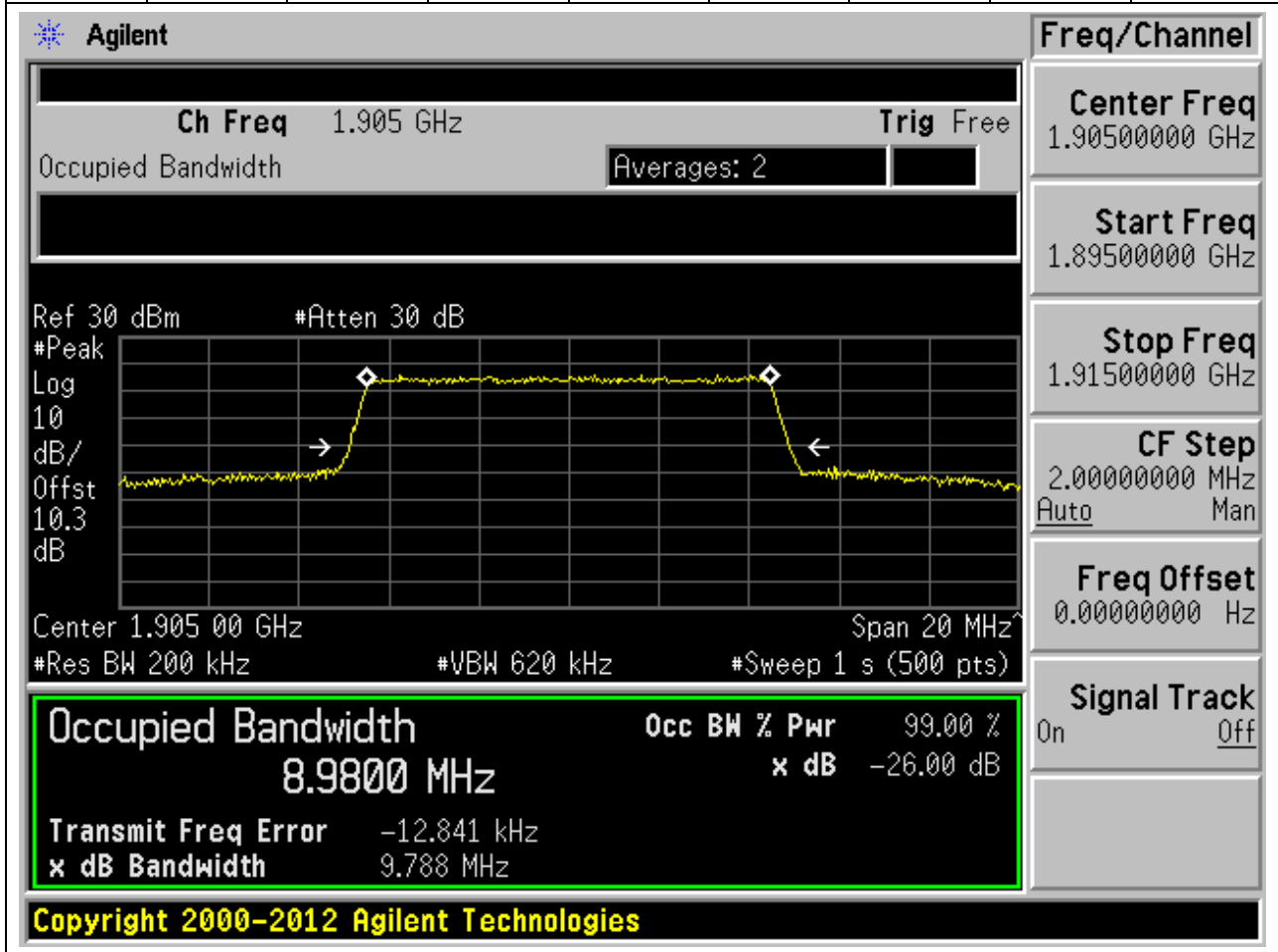
**8.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:19150, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1905	99	26	0.2	Peak	8.967	9.797	10	Pass



**8.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:19150, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1905	99	26	0.2	Peak	8.98	9.788	10	Pass



**8.25. LTE Occupied Bandwidth(NTNV)(Subtest:25, Channel:18675, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1857.5	99	26	0.3	Peak	13.447	14.668	15	Pass

**Agilent**

Ch Freq 1.8575 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.2 dB

Center 1.857 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %  
**13.4466 MHz** x dB -26.00 dB

Transmit Freq Error 3.379 kHz  
 x dB Bandwidth 14.668 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 1.85750000 GHz

Start Freq 1.84250000 GHz

Stop Freq 1.87250000 GHz

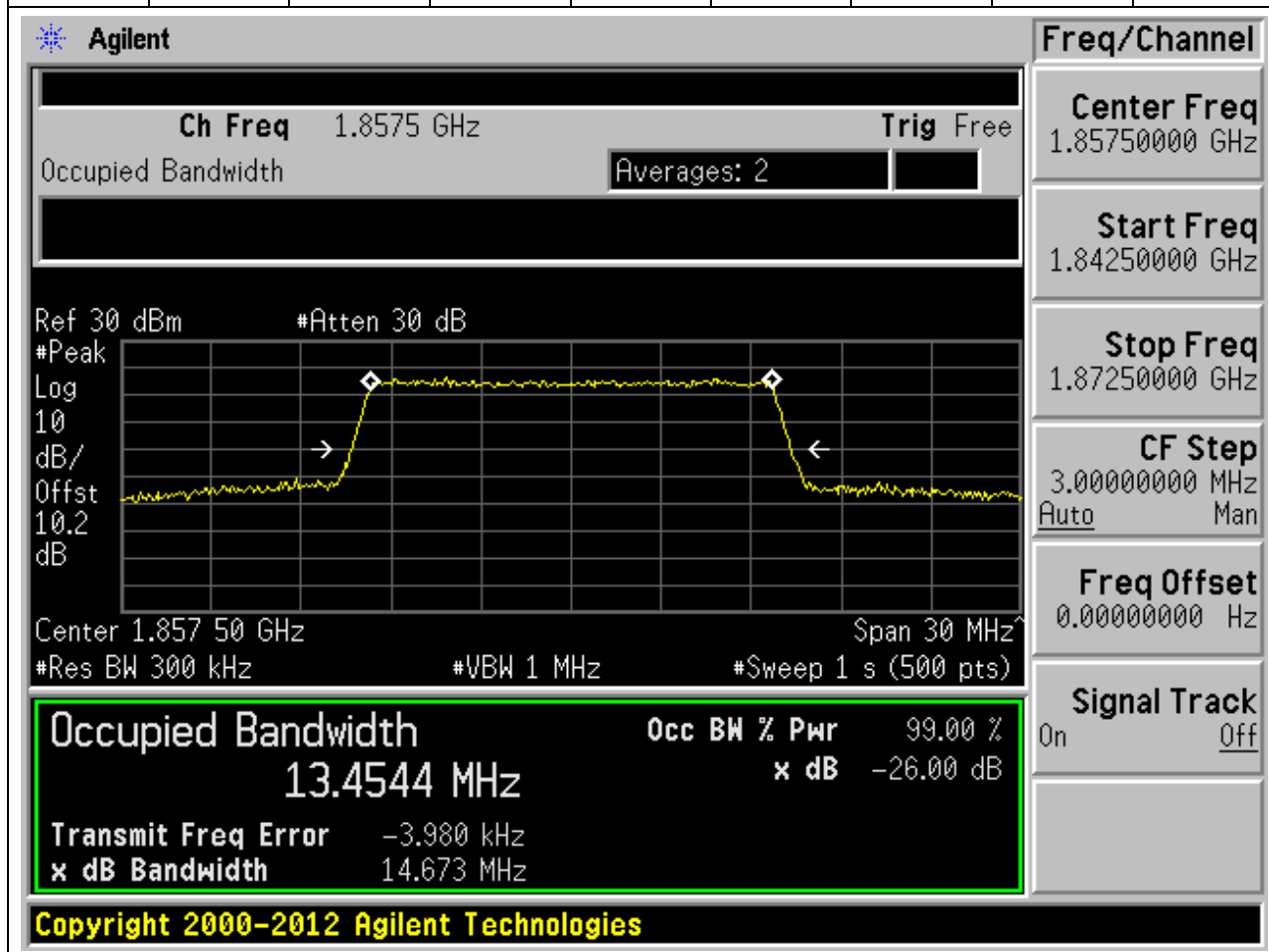
CF Step 3.00000000 MHz  
 Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**8.26. LTE Occupied Bandwidth(NTNV)(Subtest:26, Channel:18675, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

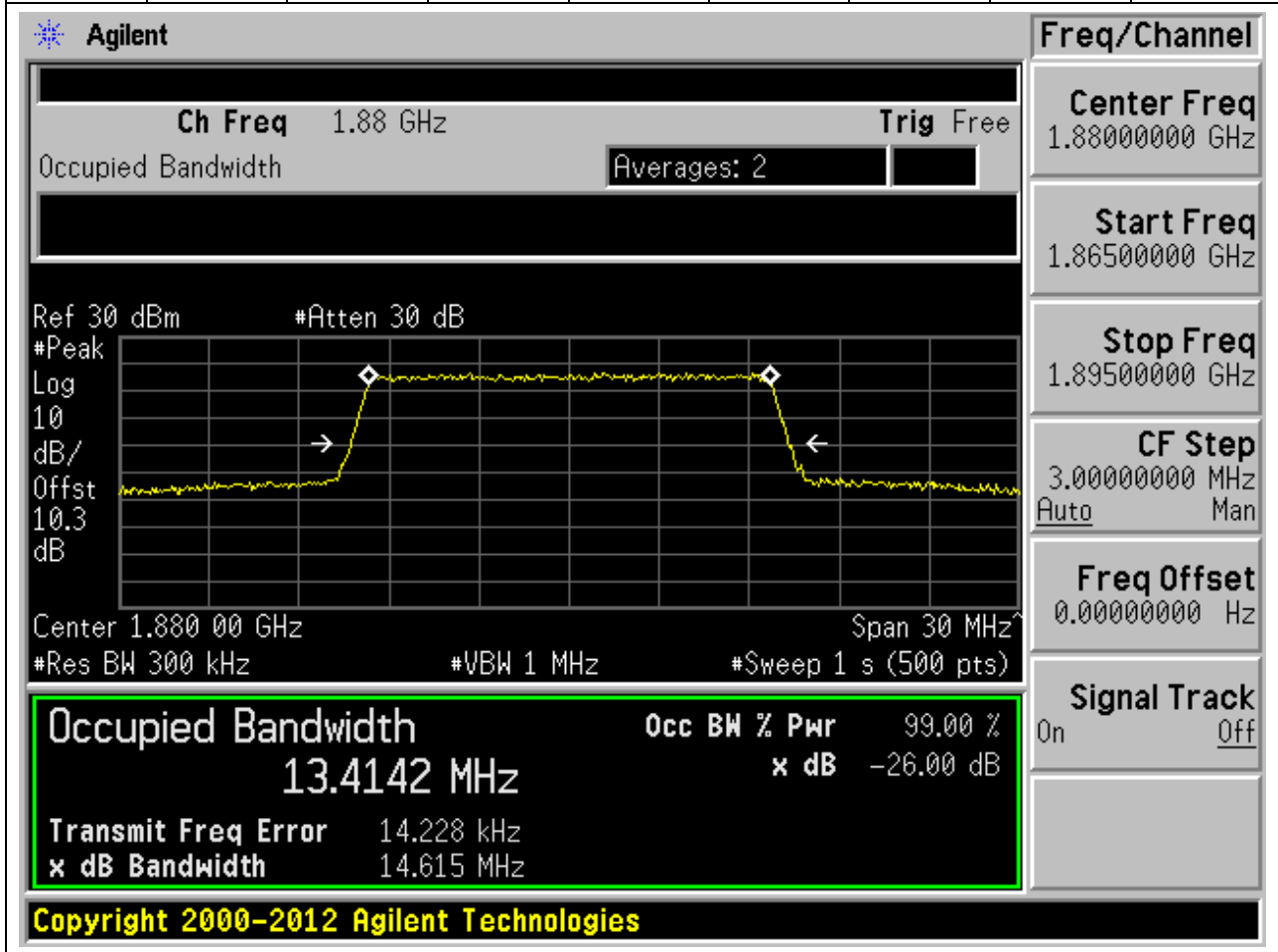
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1857.5	99	26	0.3	Peak	13.454	14.673	15	Pass





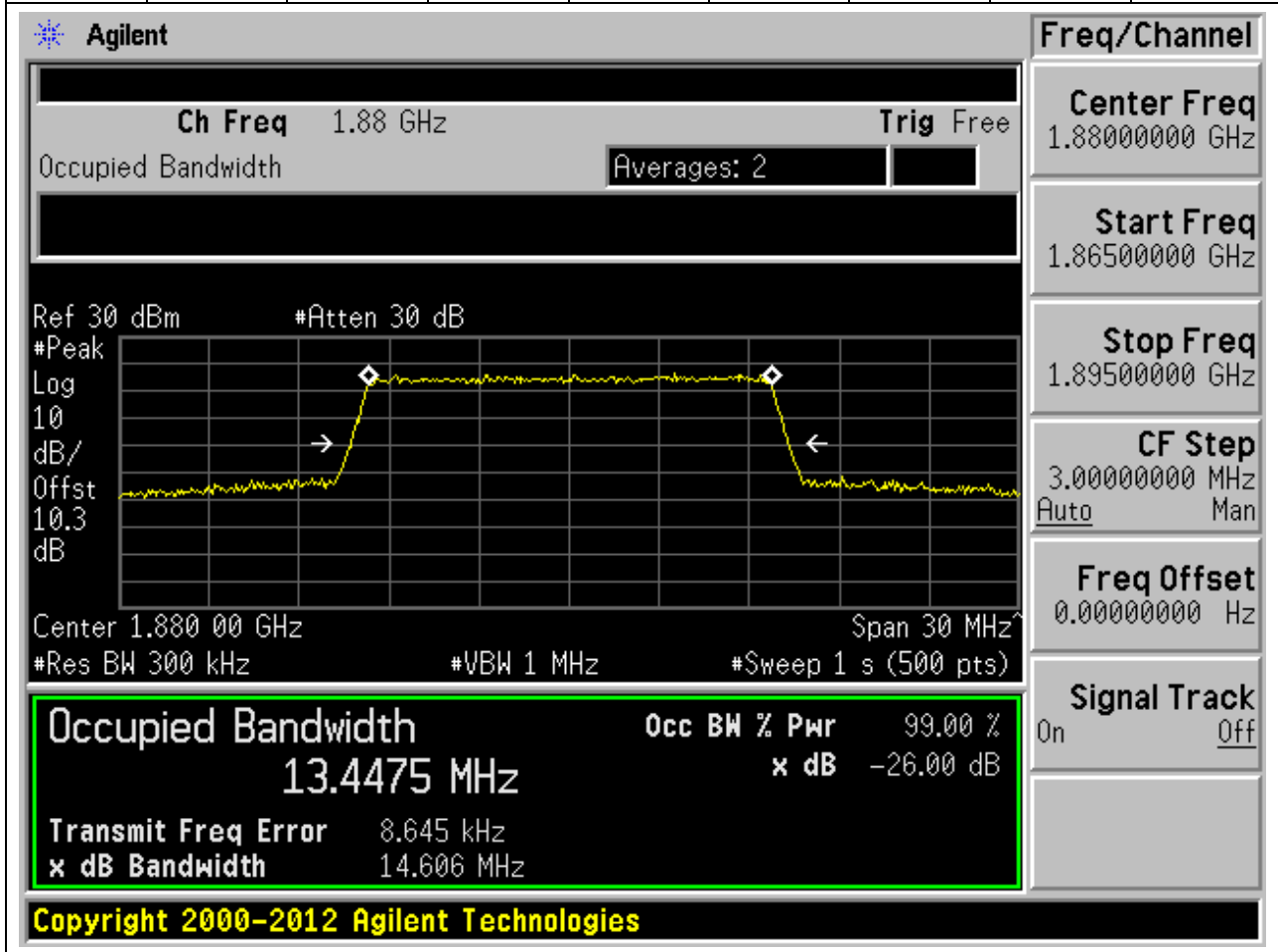
**8.27. LTE Occupied Bandwidth(NTNV)(Subtest:27, Channel:18900, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.3	Peak	13.414	14.615	15	Pass



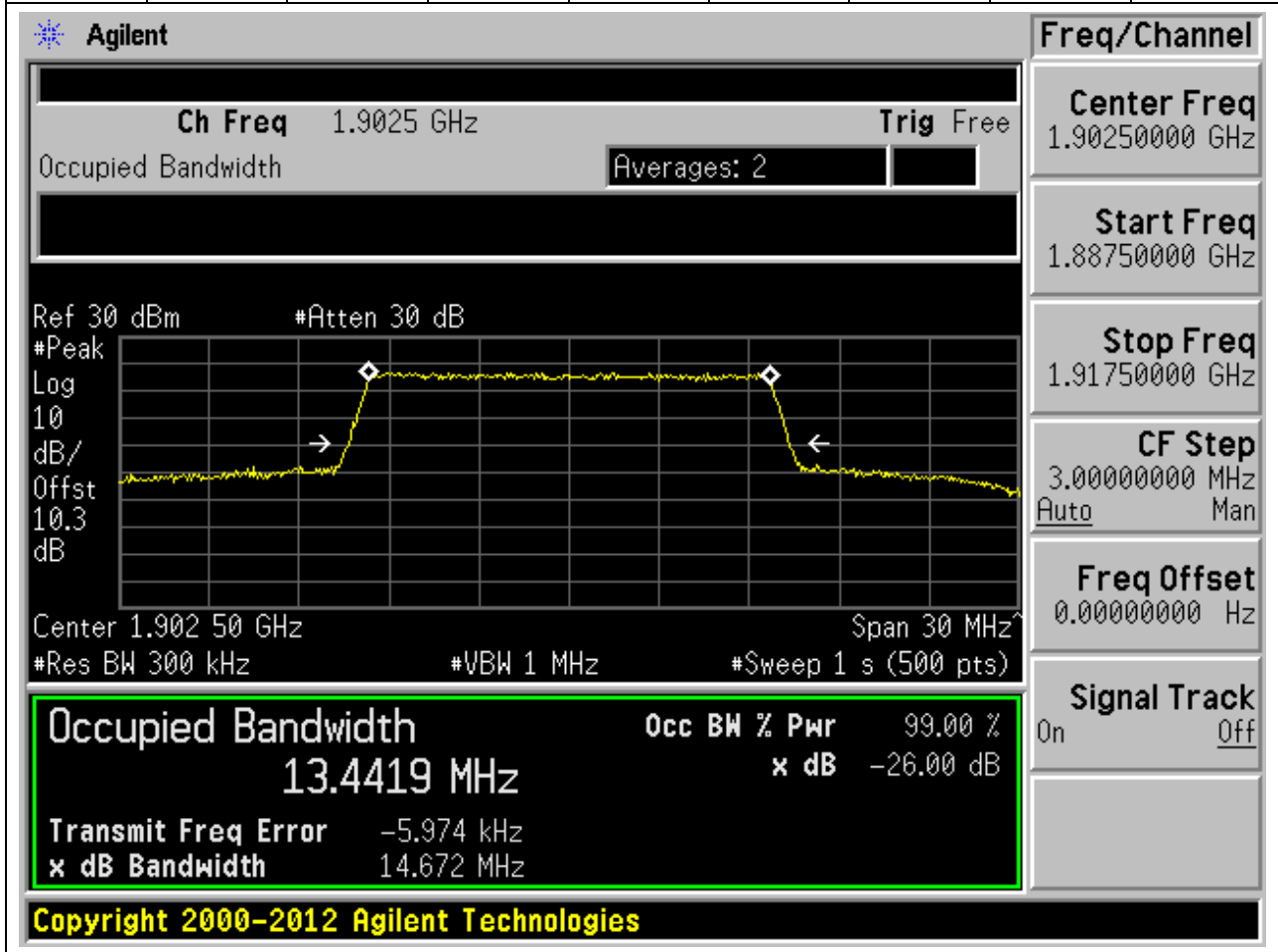
**8.28. LTE Occupied Bandwidth(NTNV)(Subtest:28, Channel:18900, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.3	Peak	13.447	14.606	15	Pass



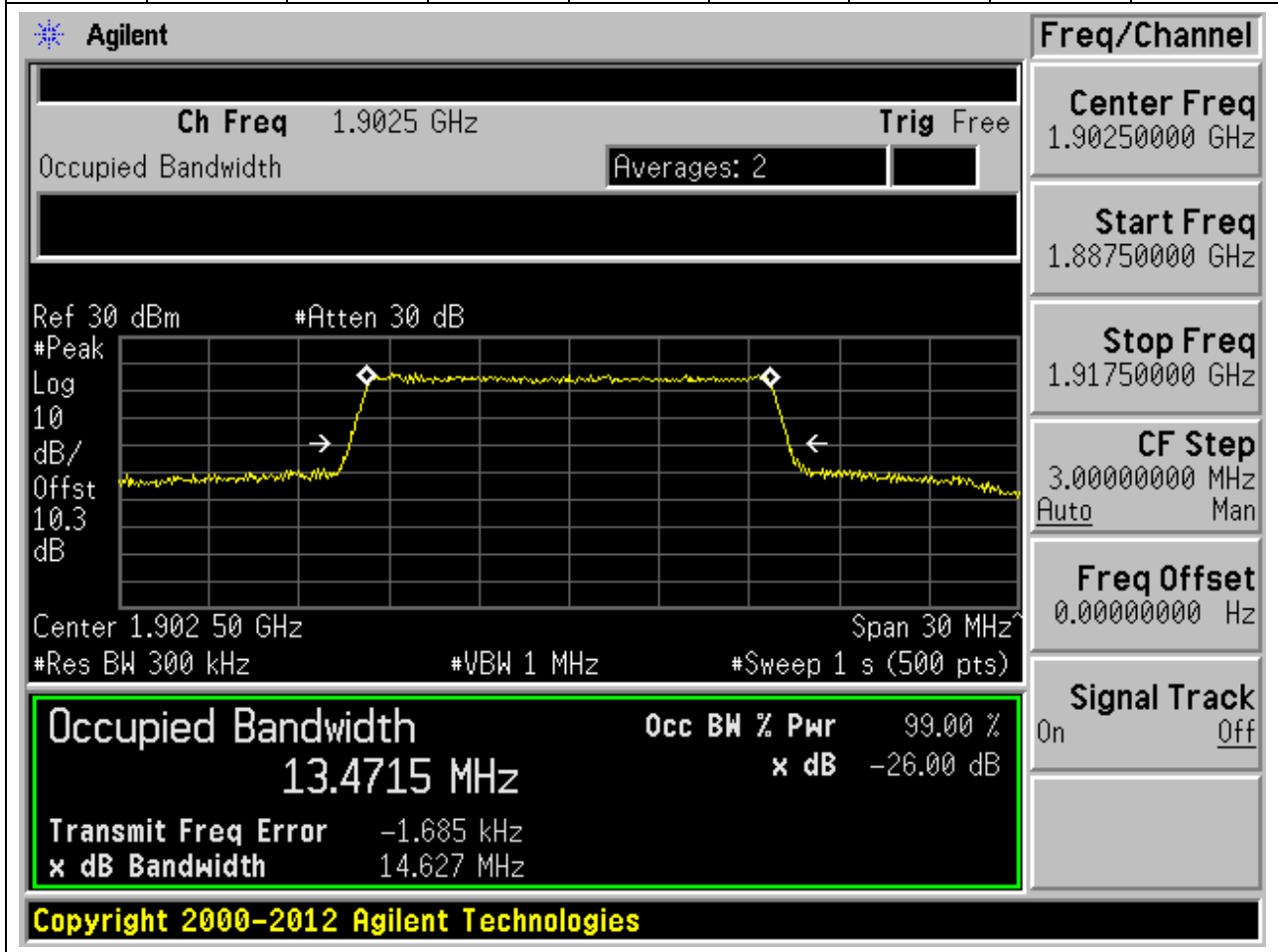
**8.29. LTE Occupied Bandwidth(NTNV)(Subtest:29, Channel:19125, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1902.5	99	26	0.3	Peak	13.442	14.672	15	Pass



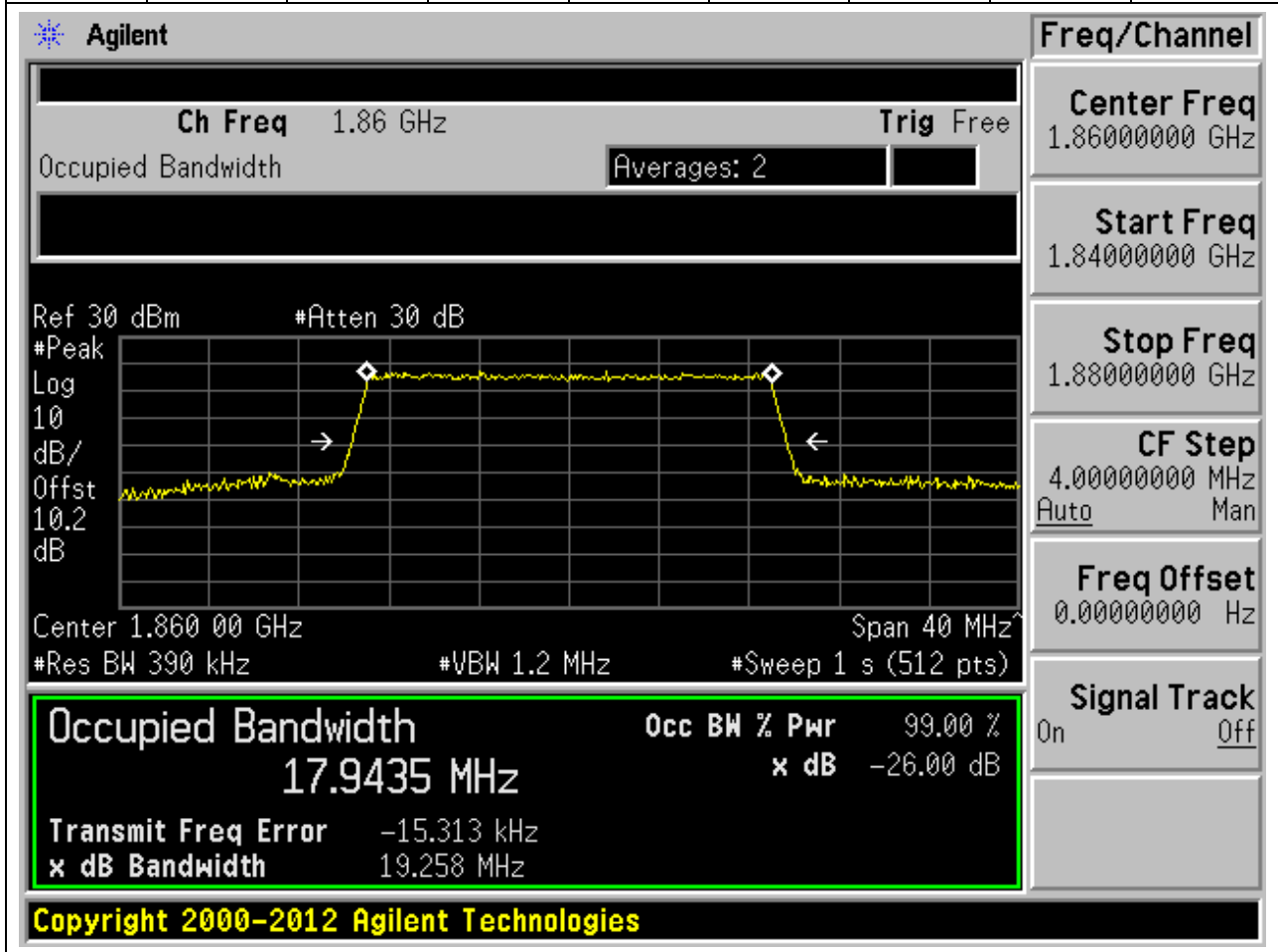
**8.30. LTE Occupied Bandwidth(NTNV)(Subtest:30, Channel:19125, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1902.5	99	26	0.3	Peak	13.472	14.627	15	Pass



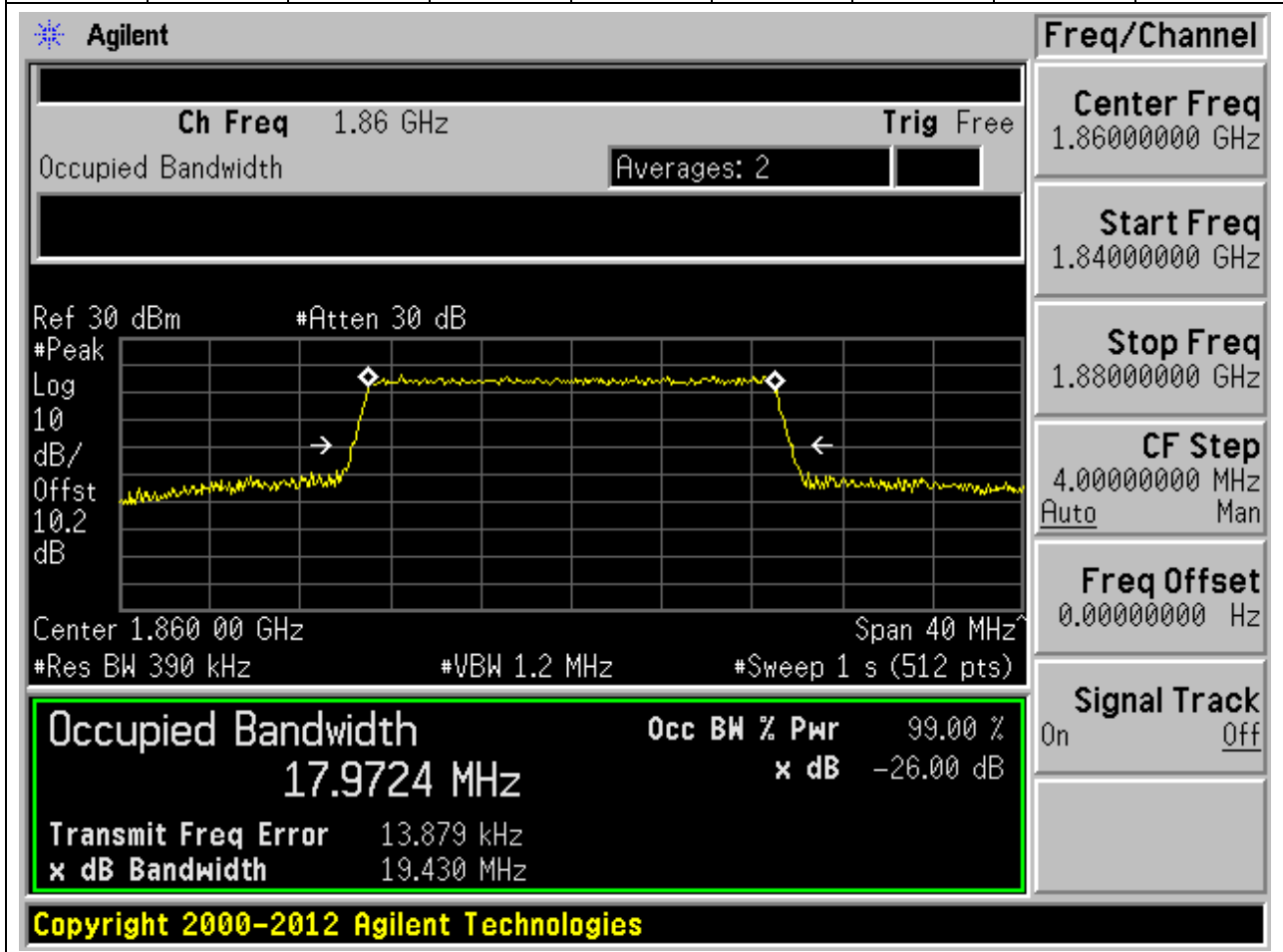
**8.31. LTE Occupied Bandwidth(NTNV)(Subtest:31, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1860	99	26	0.39	Peak	17.943	19.258	20	Pass



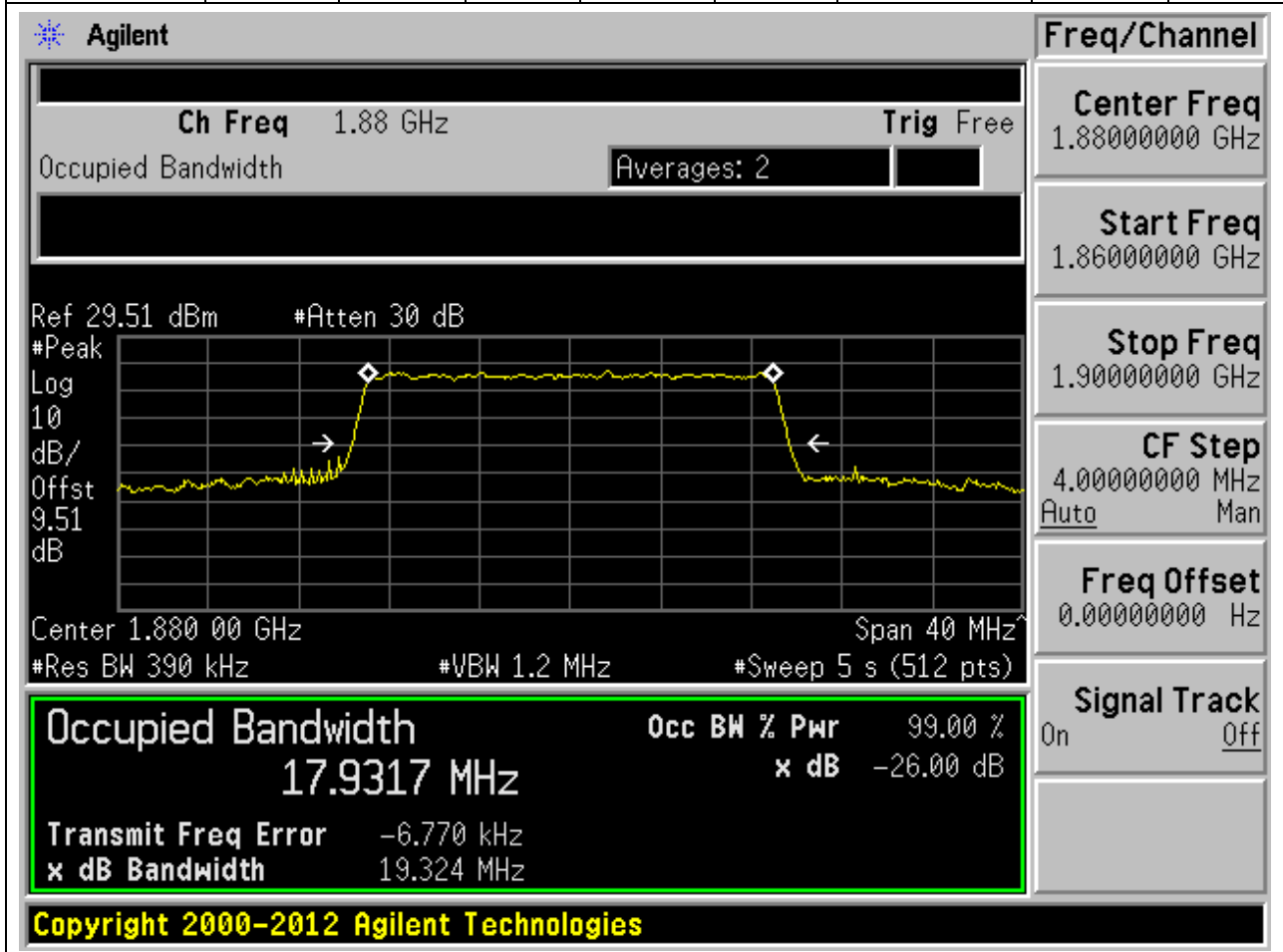
**8.32. LTE Occupied Bandwidth(NTNV)(Subtest:32, Channel:18700, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1860	99	26	0.39	Peak	17.972	19.43	20	Pass

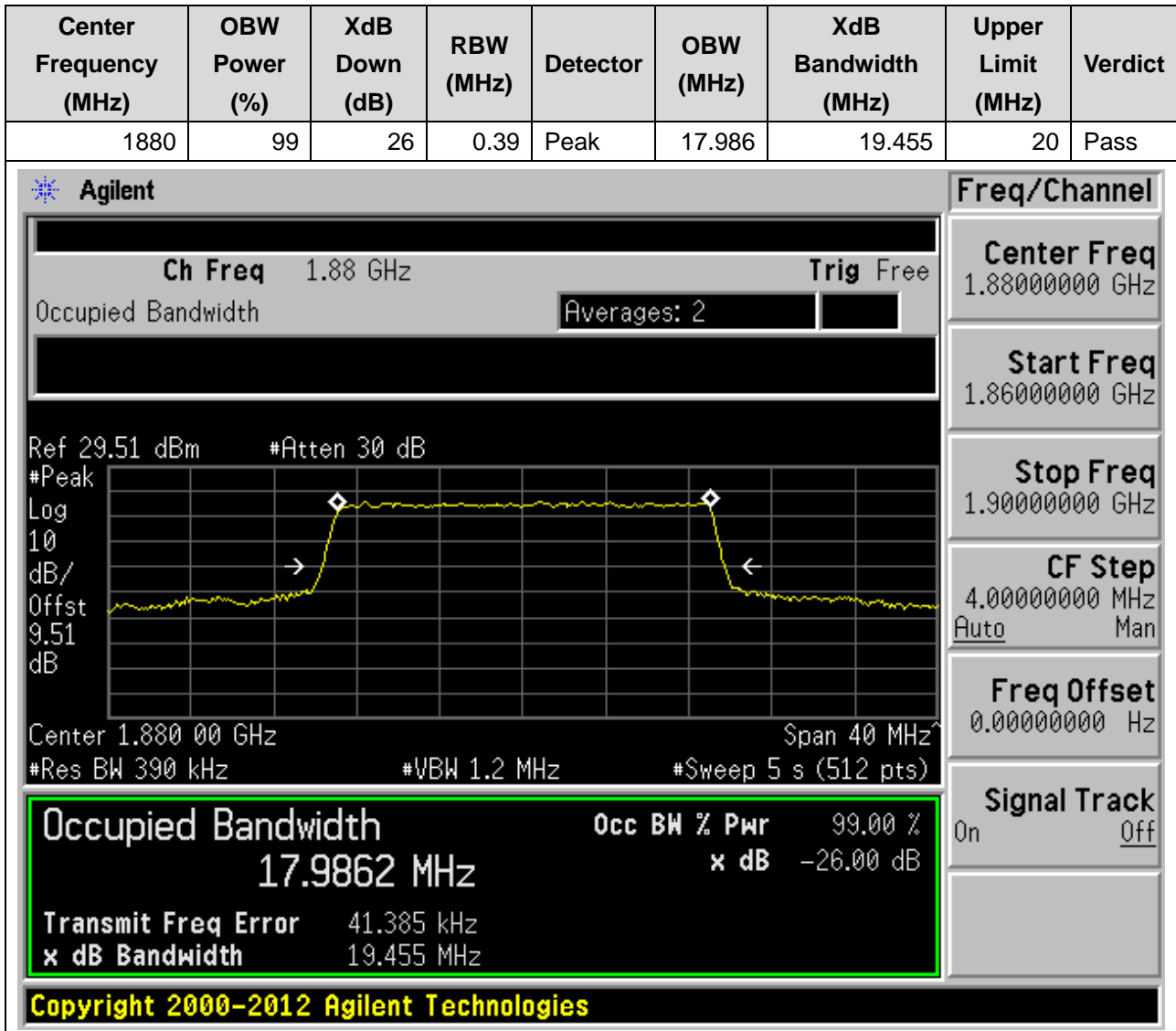


**8.33. LTE Occupied Bandwidth(NTNV)(Subtest:33, Channel:18900, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.39	Peak	17.932	19.324	20	Pass



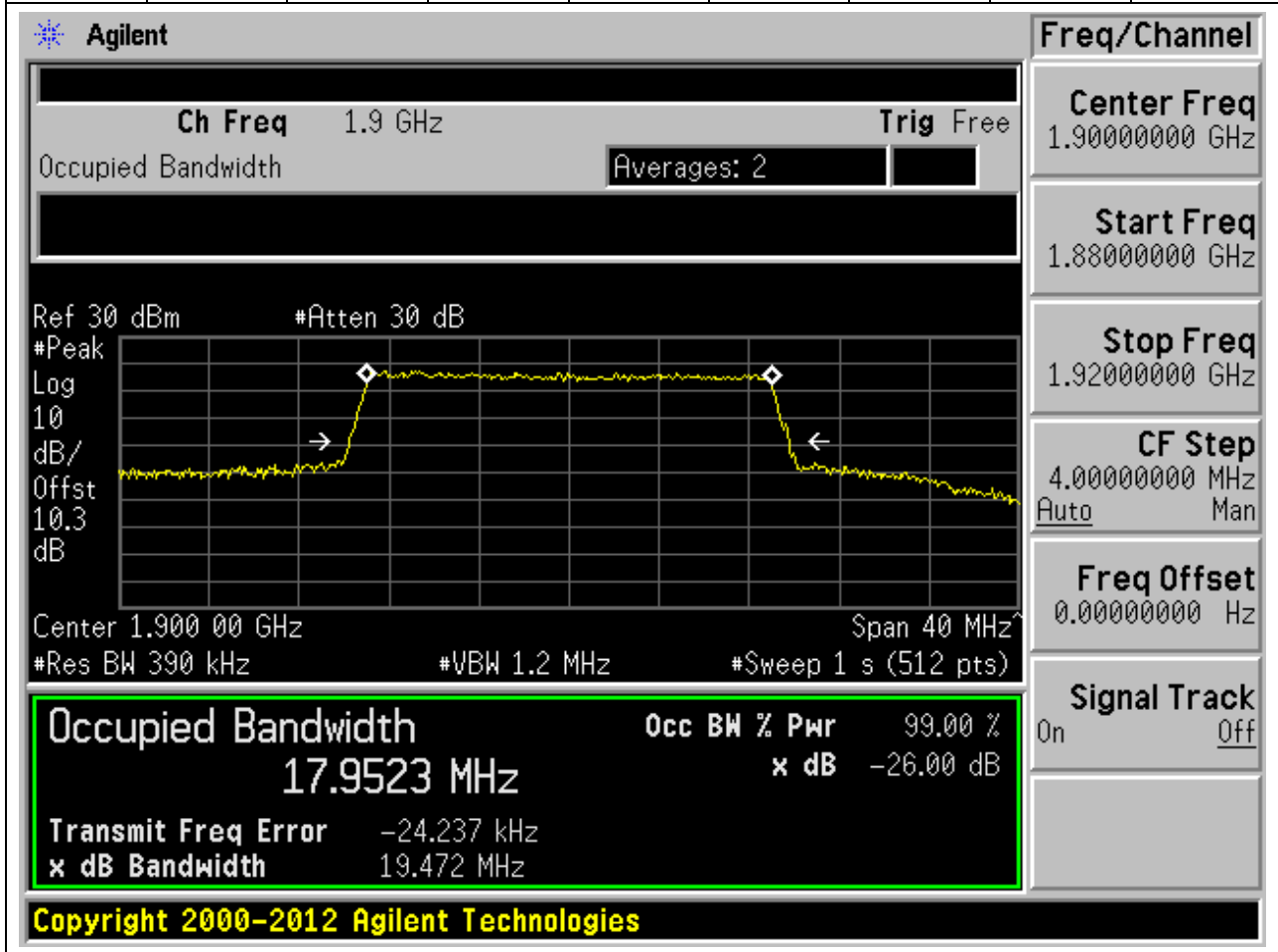
**8.34. LTE Occupied Bandwidth(NTNV)(Subtest:34, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**





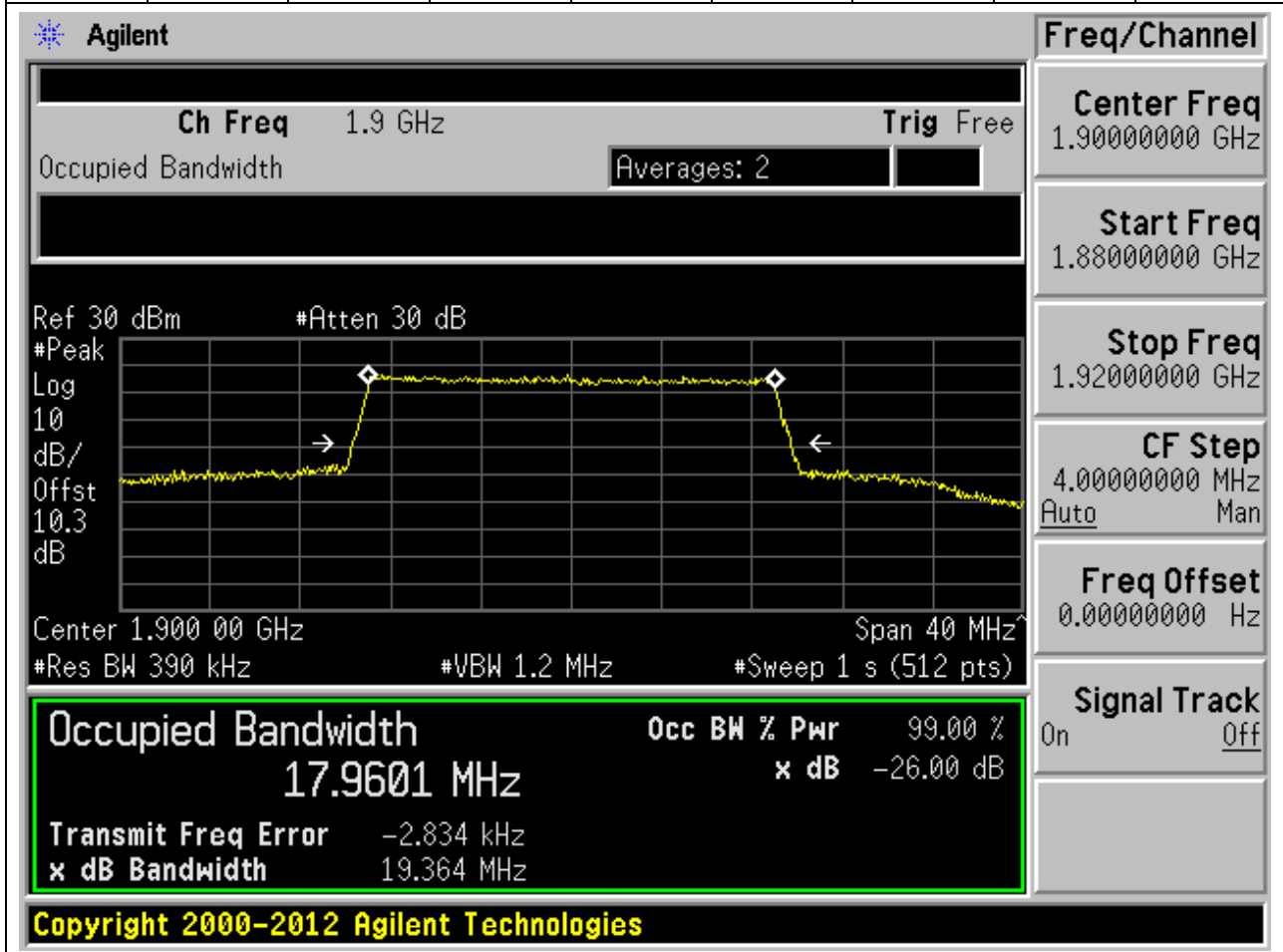
**8.35. LTE Occupied Bandwidth(NTNV)(Subtest:35, Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1900	99	26	0.39	Peak	17.952	19.472	20	Pass



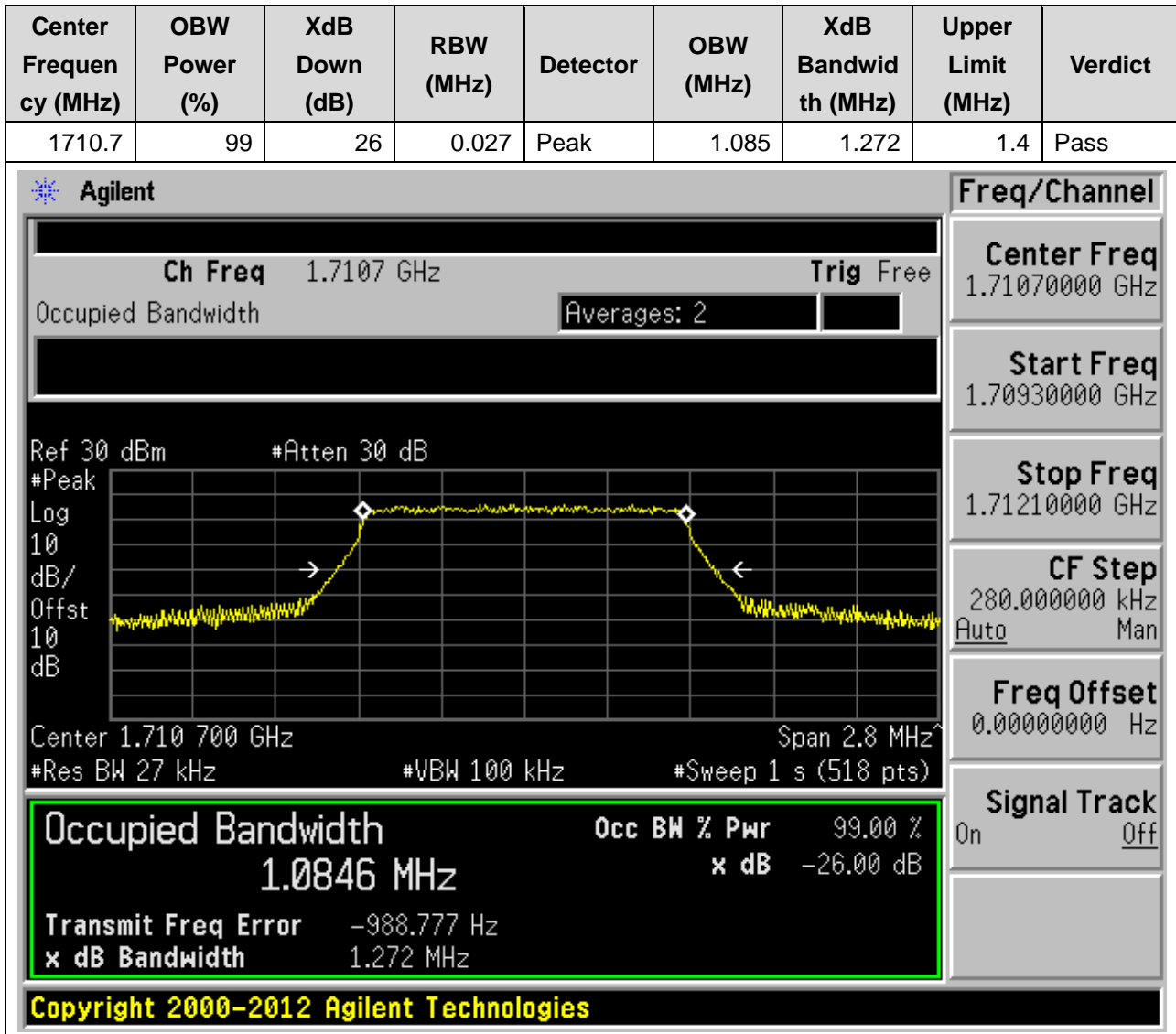
**8.36. LTE Occupied Bandwidth(NTNV)(Subtest:36, Channel:19100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1900	99	26	0.39	Peak	17.96	19.364	20	Pass



## 9. LTE\_Band4

### 9.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:19957, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



**9.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:19957, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1710.7	99	26	0.027	Peak	1.089	1.305	1.4	Pass

Agilent

**Freq/Channel**  
**Center Freq**  
1.71070000 GHz  
**Start Freq**  
1.70930000 GHz  
**Stop Freq**  
1.71210000 GHz  
**CF Step**  
280.000000 kHz  
Auto Man  
**Freq Offset**  
0.00000000 Hz  
**Signal Track**  
On Off

Ch Freq 1.7107 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10 dB

Center 1.710 700 GHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

1.0891 MHz

x dB -26.00 dB

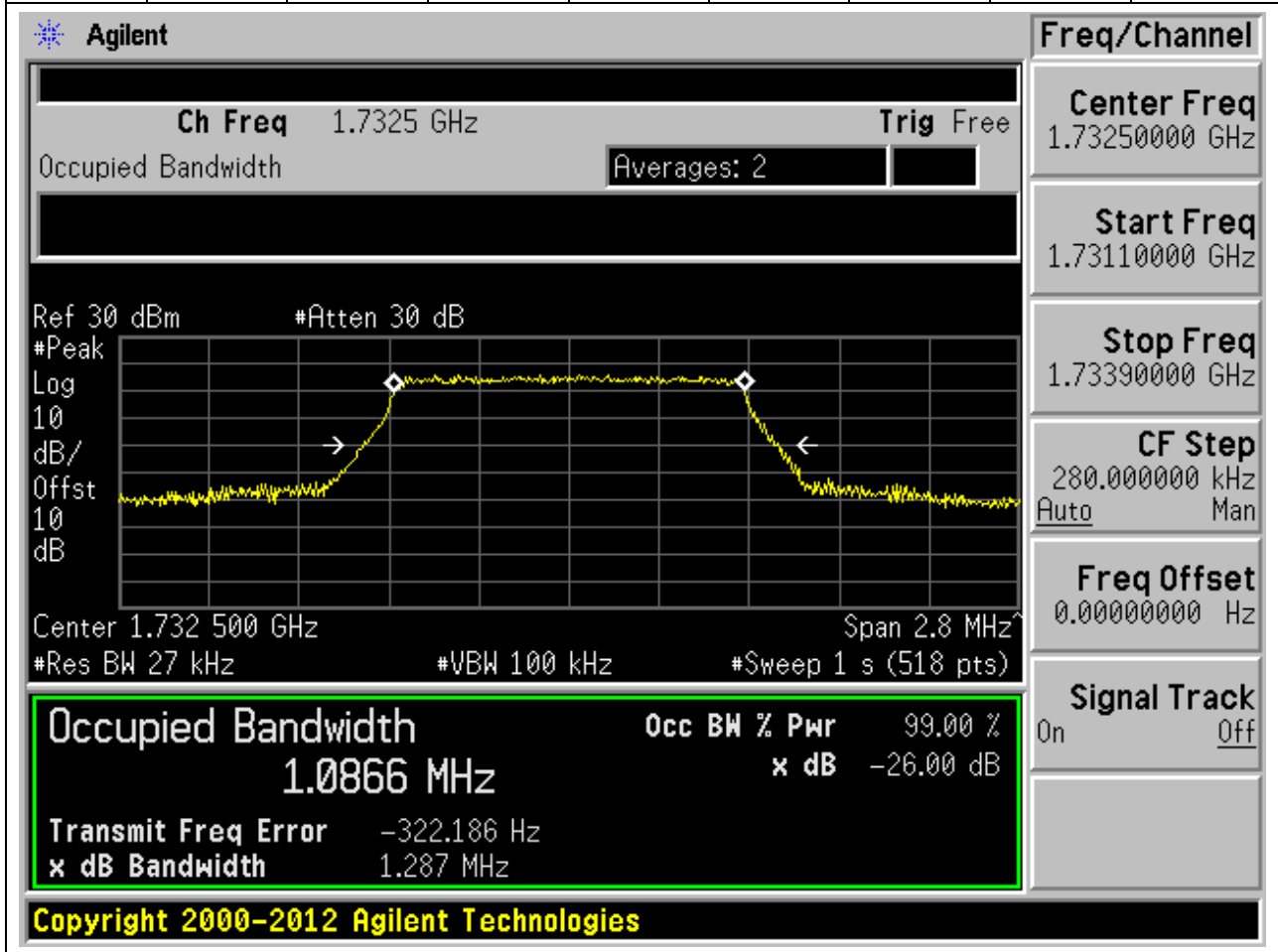
Transmit Freq Error -1.368 kHz

x dB Bandwidth 1.305 MHz

Copyright 2000-2012 Agilent Technologies

**9.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:20175, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.027	Peak	1.087	1.287	1.4	Pass



**9.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:20175, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.027	Peak	1.085	1.268	1.4	Pass

Agilent
Freq/Channel

Ch Freq 1.7325 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 1.732 500 GHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)

Center Freq  
1.73250000 GHz

Start Freq  
1.73110000 GHz

Stop Freq  
1.73390000 GHz

CF Step  
280.000000 kHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**1.0854 MHz** x dB -26.00 dB

Transmit Freq Error -167.852 Hz

x dB Bandwidth 1.268 MHz

Copyright 2000-2012 Agilent Technologies

**9.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:20393, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1754.3	99	26	0.027	Peak	1.087	1.269	1.4	Pass

Agilent

**Freq/Channel**  
**Center Freq**  
1.75430000 GHz  
**Start Freq**  
1.75290000 GHz  
**Stop Freq**  
1.75570000 GHz  
**CF Step**  
280.000000 kHz  
Auto Man  
**Freq Offset**  
0.00000000 Hz  
**Signal Track**  
On Off

Ch Freq 1.7543 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.1 dB

Center 1.754 300 GHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

1.0871 MHz

x dB -26.00 dB

Transmit Freq Error -1.763 kHz

x dB Bandwidth 1.269 MHz

Copyright 2000-2012 Agilent Technologies

**9.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:20393, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1754.3	99	26	0.027	Peak	1.088	1.273	1.4	Pass

Agilent

**Freq/Channel**  
**Center Freq**  
1.75430000 GHz  
**Start Freq**  
1.75290000 GHz  
**Stop Freq**  
1.75570000 GHz  
**CF Step**  
280.000000 kHz  
Auto Man  
**Freq Offset**  
0.00000000 Hz  
**Signal Track**  
On Off

Ch Freq 1.7543 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.1 dB

Center 1.754 300 GHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

1.0877 MHz

x dB -26.00 dB

Transmit Freq Error -190.059 Hz

x dB Bandwidth 1.273 MHz

Copyright 2000-2012 Agilent Technologies



**9.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:19965, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1711.5	99	26	0.062	Peak	2.687	2.914	3	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 1.7115 GHz and a span of 6 MHz. The vertical axis is labeled 'dB' and the horizontal axis is labeled 'MHz'. The plot shows a signal with a peak at approximately 1.7115 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 2.6872 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -67.375 Hz and the 'x dB Bandwidth' is 2.914 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Freq/Channel	
Center Freq	1.71150000 GHz
Start Freq	1.70850000 GHz
Stop Freq	1.71450000 GHz
CF Step	600.000000 kHz Auto Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

**Occupied Bandwidth** 2.6872 MHz  
**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB  
**Transmit Freq Error** -67.375 Hz  
**x dB Bandwidth** 2.914 MHz

Copyright 2000-2012 Agilent Technologies

**9.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:19965, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1711.5	99	26	0.062	Peak	2.68	2.928	3	Pass

Agilent

**Freq/Channel**  
**Center Freq**  
1.71150000 GHz  
**Start Freq**  
1.70850000 GHz  
**Stop Freq**  
1.71450000 GHz  
**CF Step**  
600.000000 kHz  
Auto Man  
**Freq Offset**  
0.00000000 Hz  
**Signal Track**  
On Off

Ch Freq 1.7115 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10 dB

Center 1.711 500 GHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**2.6798 MHz** x dB -26.00 dB

Transmit Freq Error -886.960 Hz

x dB Bandwidth 2.928 MHz

Copyright 2000-2012 Agilent Technologies

**9.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:20175, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.062	Peak	2.693	2.922	3	Pass

Agilent
Freq/Channel

Ch Freq 1.7325 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 1.732 500 GHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

Center Freq  
1.73250000 GHz

Start Freq  
1.72950000 GHz

Stop Freq  
1.73550000 GHz

CF Step  
600.000000 kHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**2.6926 MHz** x dB -26.00 dB

Transmit Freq Error 2.293 kHz

x dB Bandwidth 2.922 MHz

Copyright 2000-2012 Agilent Technologies

**9.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:20175, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.062	Peak	2.682	2.912	3	Pass

Agilent
Freq/Channel

Ch Freq 1.7325 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 1.732 500 GHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

Center Freq 1.73250000 GHz

Start Freq 1.72950000 GHz

Stop Freq 1.73550000 GHz

CF Step 600.000000 kHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth**

**2.6823 MHz**

Transmit Freq Error -1.284 kHz

x dB Bandwidth 2.912 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**9.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:20385, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1753.5	99	26	0.062	Peak	2.689	2.922	3	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 1.7535 GHz. The occupied bandwidth is 2.6894 MHz, which is 99.00% of the 2.689 MHz OBW. The XdB down is -26.00 dB. The transmit frequency error is -272.889 Hz. The XdB bandwidth is 2.922 MHz. The interface also shows various settings like Res BW (62 kHz), VBW (200 kHz), and Span (6 MHz).

Occupied Bandwidth		Occ BW % Pwr
2.6894 MHz	99.00 %	
Transmit Freq Error		-272.889 Hz
x dB Bandwidth		2.922 MHz

**Copyright 2000-2012 Agilent Technologies**

**9.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:20385, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1753.5	99	26	0.062	Peak	2.686	2.928	3	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 1.7535 GHz and a span of 6 MHz. The vertical axis is labeled 'dB/Offst' with a scale of 10.1 dB. The horizontal axis is labeled 'Span 6 MHz'. The plot shows a signal with a peak at approximately 1.7535 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 2.6861 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -2.167 kHz and the 'x dB Bandwidth' is 2.928 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom of the interface.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
2.6861 MHz		x dB	-26.00 dB
Transmit Freq Error		-2.167 kHz	
x dB Bandwidth		2.928 MHz	

**9.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:19975, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1712.5	99	26	0.1	Peak	4.496	4.932	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 1.7125 GHz and a span of 10 MHz. The occupied bandwidth is measured as 4.4962 MHz, which is 99.00% of the 4.932 MHz bandwidth. The XdB down is -26.00 dB. The transmit frequency error is -615.350 Hz. The interface also shows various settings like Res BW (100 kHz), VBW (300 kHz), and Sweep (1 s). A summary box at the bottom left highlights the Occupied Bandwidth, Transmit Freq Error, and x dB Bandwidth. The bottom of the screen displays the copyright notice: Copyright 2000-2012 Agilent Technologies.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
4.4962 MHz		x dB	-26.00 dB
Transmit Freq Error		-615.350 Hz	
x dB Bandwidth		4.932 MHz	

**9.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:19975, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1712.5	99	26	0.1	Peak	4.486	4.918	5	Pass



**9.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:20175, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.1	Peak	4.489	4.926	5	Pass

Agilent
Freq/Channel

Ch Freq 1.7325 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 1.732 500 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)

Center Freq  
1.73250000 GHz

Start Freq  
1.72750000 GHz

Stop Freq  
1.73750000 GHz

CF Step  
1.00000000 MHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

4.4894 MHz

x dB -26.00 dB

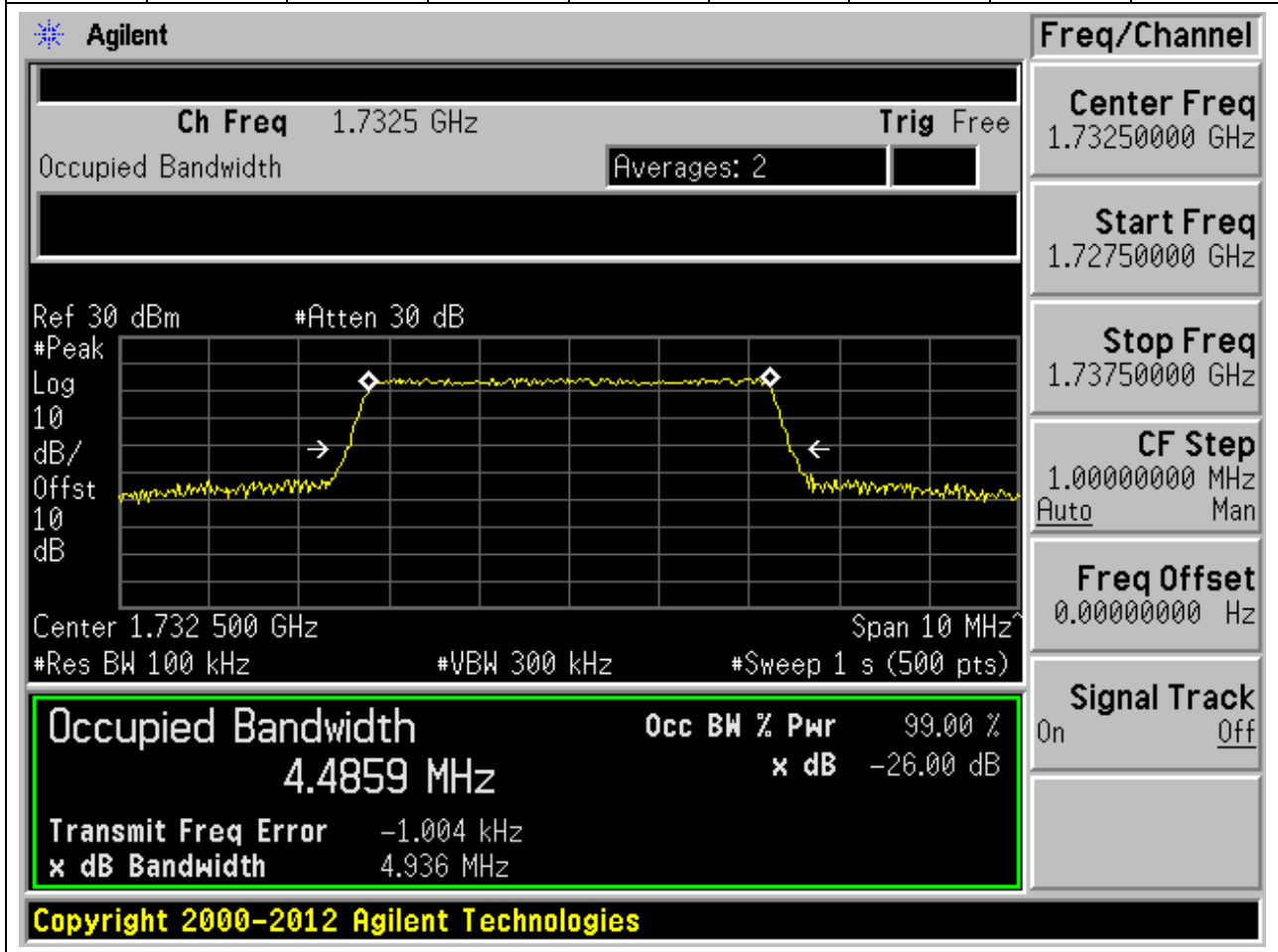
Transmit Freq Error -1.241 kHz

x dB Bandwidth 4.926 MHz

Copyright 2000-2012 Agilent Technologies

**9.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:20175, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.1	Peak	4.486	4.936	5	Pass



**9.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:20375, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1752.5	99	26	0.1	Peak	4.52	5.537	5	Pass

**Agilent**

Ch Freq 1.7525 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 29.39 dBm #Atten 30 dB

Center 1.752 500 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 5 s (500 pts)

**Freq/Channel**

Center Freq 1.75250000 GHz

Start Freq 1.74750000 GHz

Stop Freq 1.75750000 GHz

CF Step 1.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

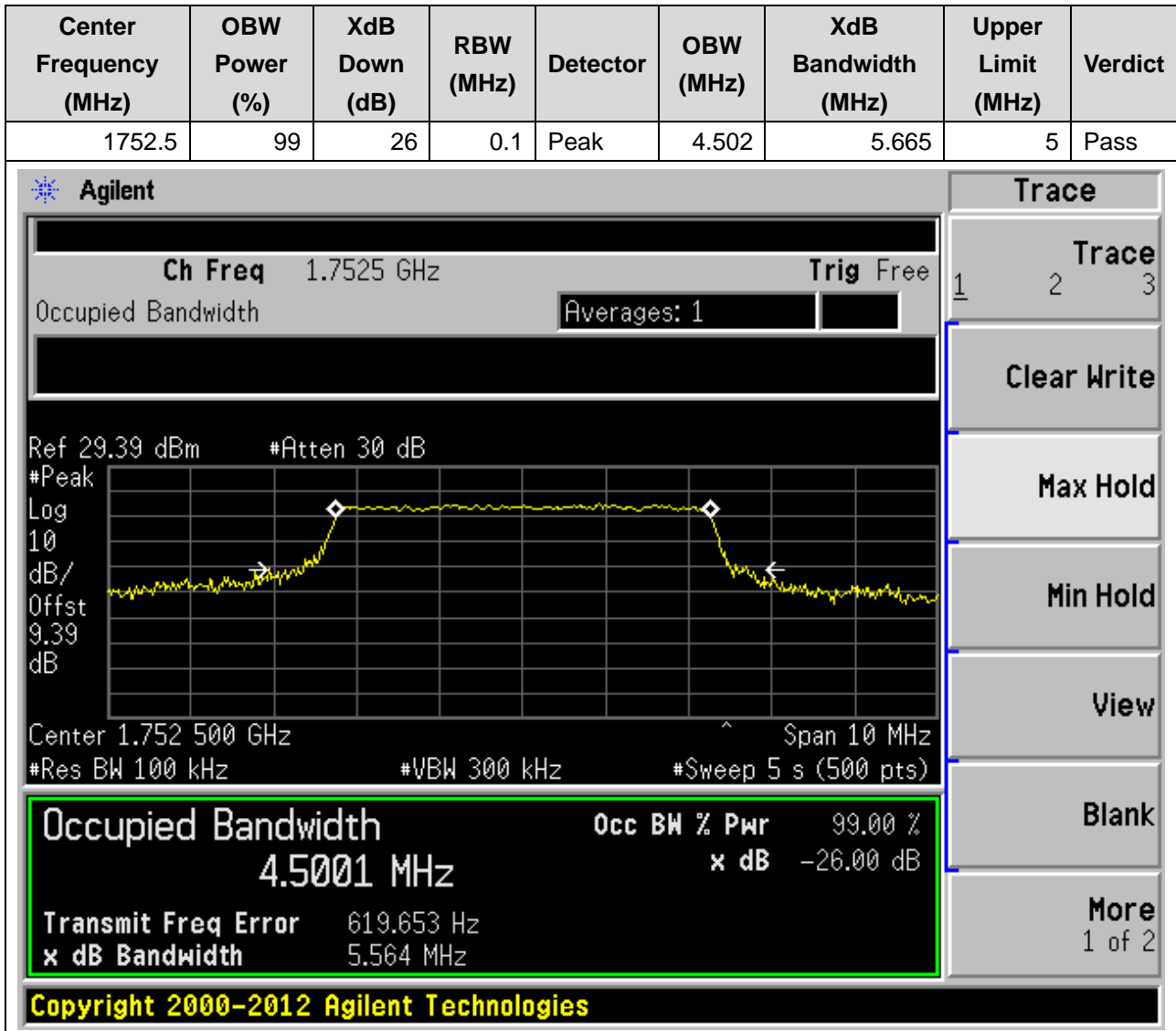
4.5197 MHz x dB -26.00 dB

Transmit Freq Error -1.374 kHz

x dB Bandwidth 5.537 MHz

Copyright 2000-2012 Agilent Technologies

**9.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:20375, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



**9.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:20000, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1715	99	26	0.2	Peak	8.956	9.786	10	Pass

**Agilent**

Ch Freq 1.715 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10 dB

Center 1.715 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**8.9560 MHz** x dB -26.00 dB

Transmit Freq Error 819.643 Hz

x dB Bandwidth 9.786 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 1.71500000 GHz

Start Freq 1.70500000 GHz

Stop Freq 1.72500000 GHz

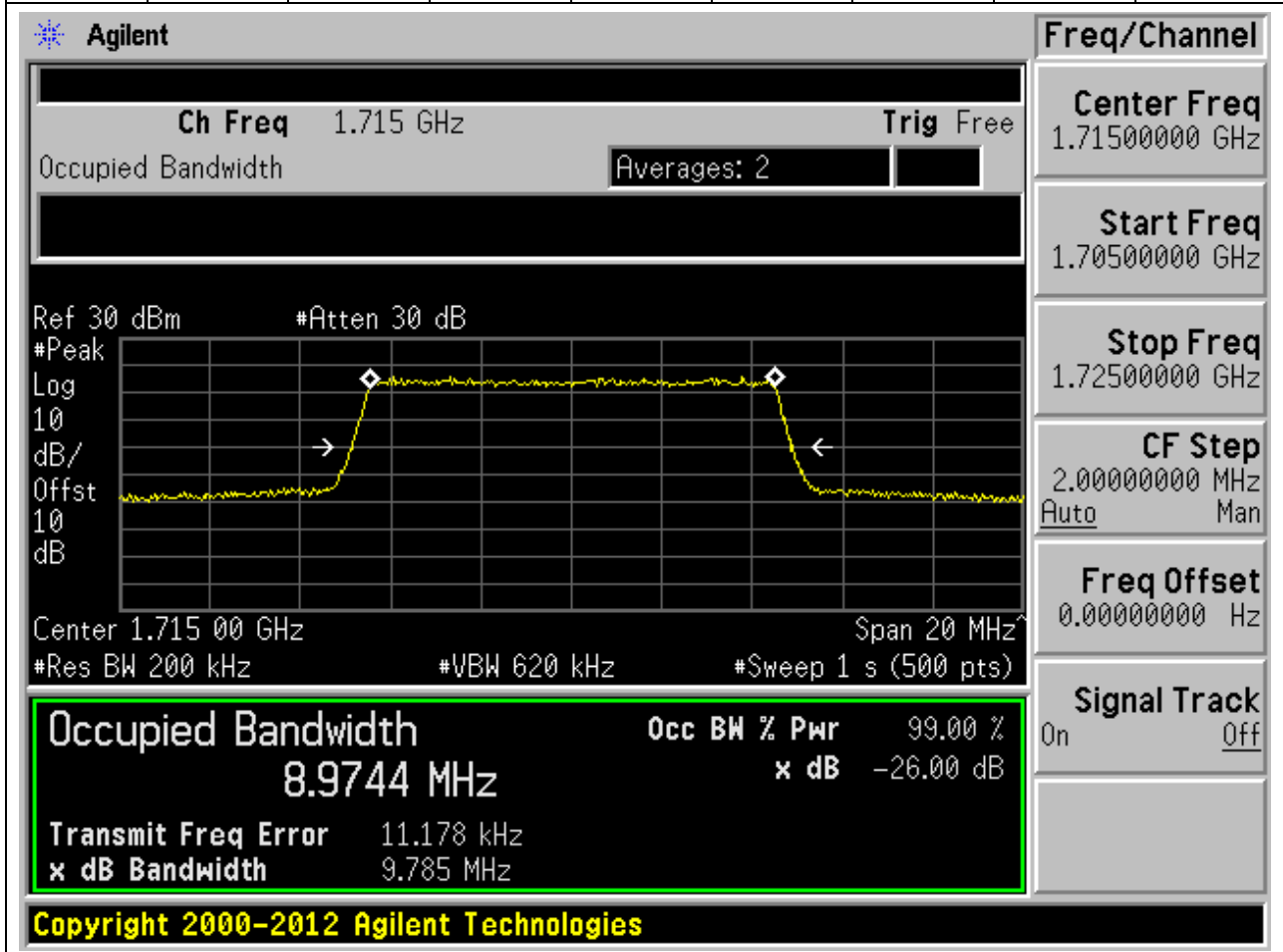
CF Step 2.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

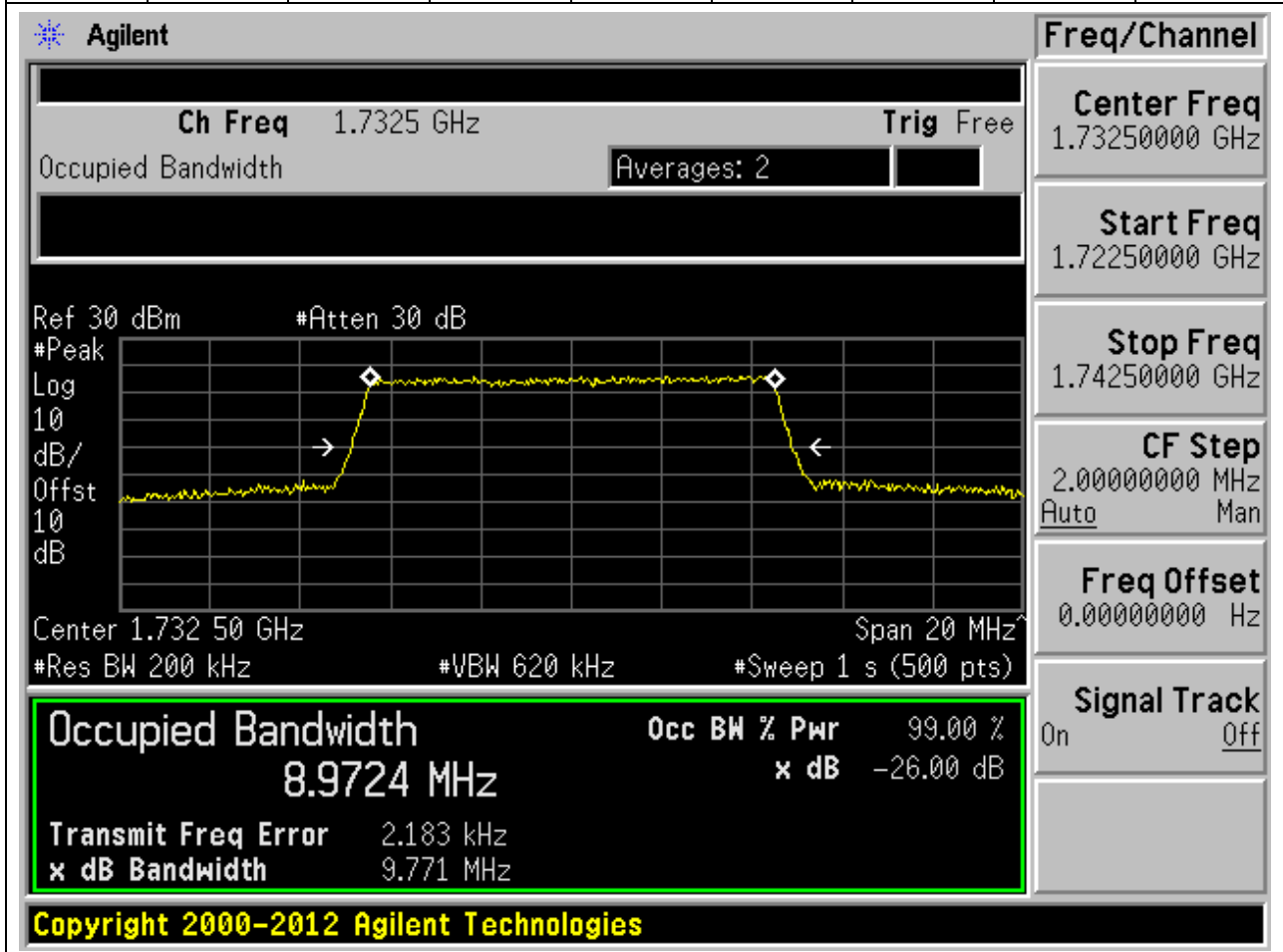
**9.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:20000, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1715	99	26	0.2	Peak	8.974	9.785	10	Pass



**9.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:20175, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.2	Peak	8.972	9.771	10	Pass



**9.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:20175, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.2	Peak	8.959	9.771	10	Pass

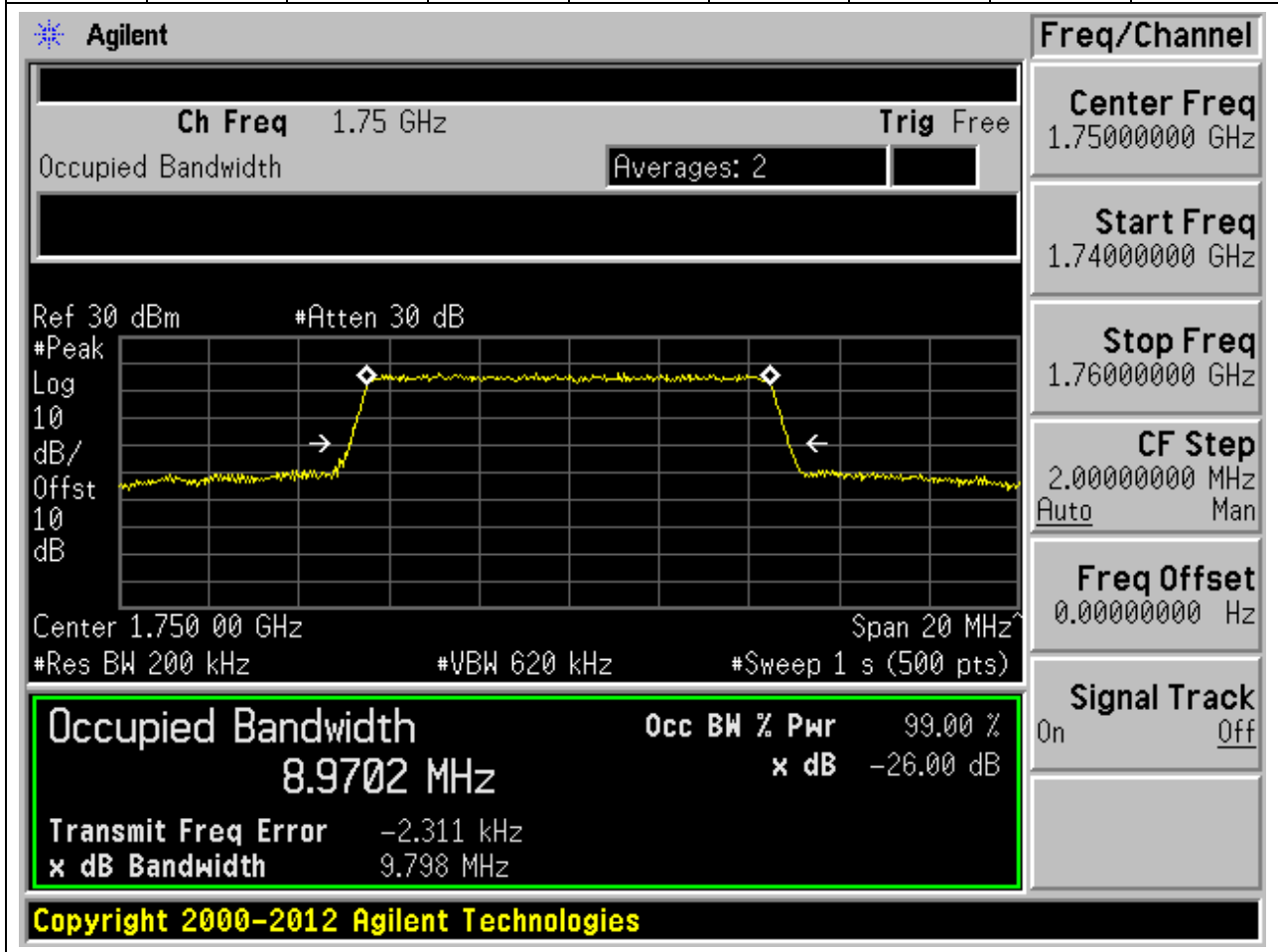
The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.7325 GHz' and 'Trig Free'. Below this, the 'Occupied Bandwidth' measurement is shown with 'Averages: 2'. The main display area shows a spectrum plot with a yellow trace. The plot has a center frequency of 1.7325 GHz and a span of 20 MHz. The y-axis is labeled 'dB' and the x-axis is labeled 'MHz'. The plot shows a signal with a flat top and sloped sides, indicating a bandpass filter response. The 'Occupied Bandwidth' is highlighted in a green box and shows a value of 8.9586 MHz. Other parameters shown include 'Ref 30 dBm', '#Atten 30 dB', '#Peak', 'Log', '10 dB/Offst', '10 dB', 'Center 1.732 50 GHz', 'Span 20 MHz', '#Res BW 200 kHz', '#VBW 620 kHz', and '#Sweep 1 s (500 pts)'. The 'Signal Track' is set to 'On'. The bottom of the screen shows the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth		Occ BW % Pwr
8.9586 MHz	99.00 %	
Transmit Freq Error	8.407 kHz	
x dB Bandwidth	9.771 MHz	-26.00 dB



**9.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:20350, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1750	99	26	0.2	Peak	8.97	9.798	10	Pass



**9.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:20350, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1750	99	26	0.2	Peak	8.976	9.806	10	Pass

**Agilent**

Ch Freq 1.75 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10 dB

Center 1.750 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %  
**8.9755 MHz** x dB -26.00 dB

Transmit Freq Error -14.332 kHz  
x dB Bandwidth 9.806 MHz

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

Center Freq 1.75000000 GHz

Start Freq 1.74000000 GHz

Stop Freq 1.76000000 GHz

CF Step 2.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**9.25. LTE Occupied Bandwidth(NTNV)(Subtest:25, Channel:20025, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1717.5	99	26	0.3	Peak	13.465	14.655	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 1.7175 GHz and a span of 30 MHz. The vertical axis is labeled 'dB' and the horizontal axis is labeled 'MHz'. The plot shows a signal with a peak at approximately 1.7175 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 13.4653 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 1.749 kHz and the 'x dB Bandwidth' is 14.655 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom of the interface.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
13.4653 MHz		x dB	-26.00 dB
Transmit Freq Error	1.749 kHz		
x dB Bandwidth	14.655 MHz		

**9.26. LTE Occupied Bandwidth(NTNV)(Subtest:26, Channel:20025, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1717.5	99	26	0.3	Peak	13.46	14.675	15	Pass

Agilent
Freq/Channel

**Ch Freq** 1.7175 GHz **Trig** Free

Occupied Bandwidth Averages: 2

Ref 30 dBm      #Atten 30 dB

#Peak

Log

10

dB/

Offst

10

dB

Center 1.717 50 GHz Span 30 MHz

#Res BW 300 kHz      #VBW 1 MHz      #Sweep 1 s (500 pts)

**Center Freq**  
1.71750000 GHz

**Start Freq**  
1.70250000 GHz

**Stop Freq**  
1.73250000 GHz

**CF Step**  
3.00000000 MHz  
Auto      Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On      Off

**Occupied Bandwidth**

**13.4596 MHz**

**Occ BW % Pwr** 99.00 %

**x dB** -26.00 dB

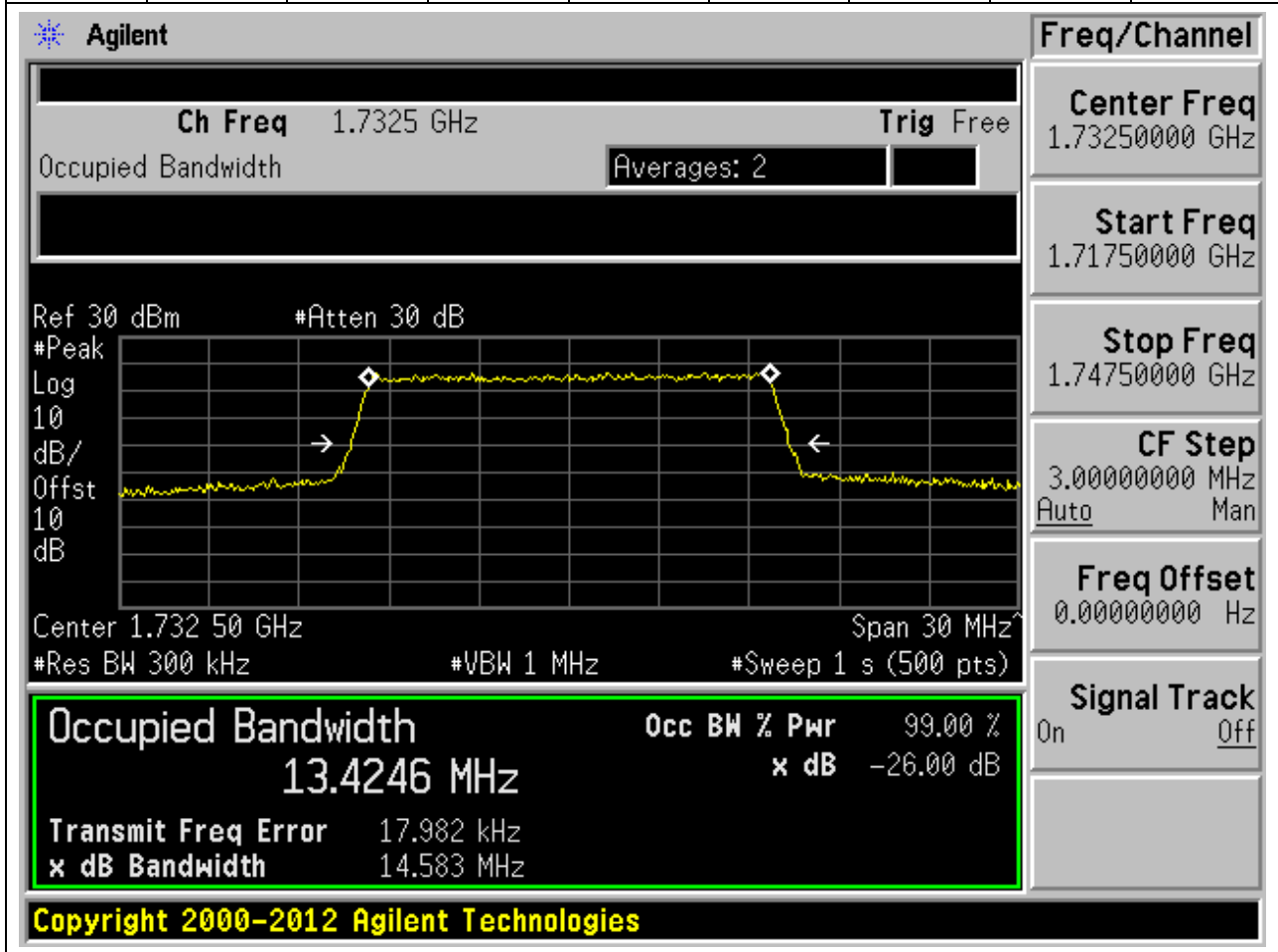
**Transmit Freq Error** -2.180 kHz

**x dB Bandwidth** 14.675 MHz

Copyright 2000-2012 Agilent Technologies

**9.27. LTE Occupied Bandwidth(NTNV)(Subtest:27, Channel:20175, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.3	Peak	13.425	14.583	15	Pass



**9.28. LTE Occupied Bandwidth(NTNV)(Subtest:28, Channel:20175, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

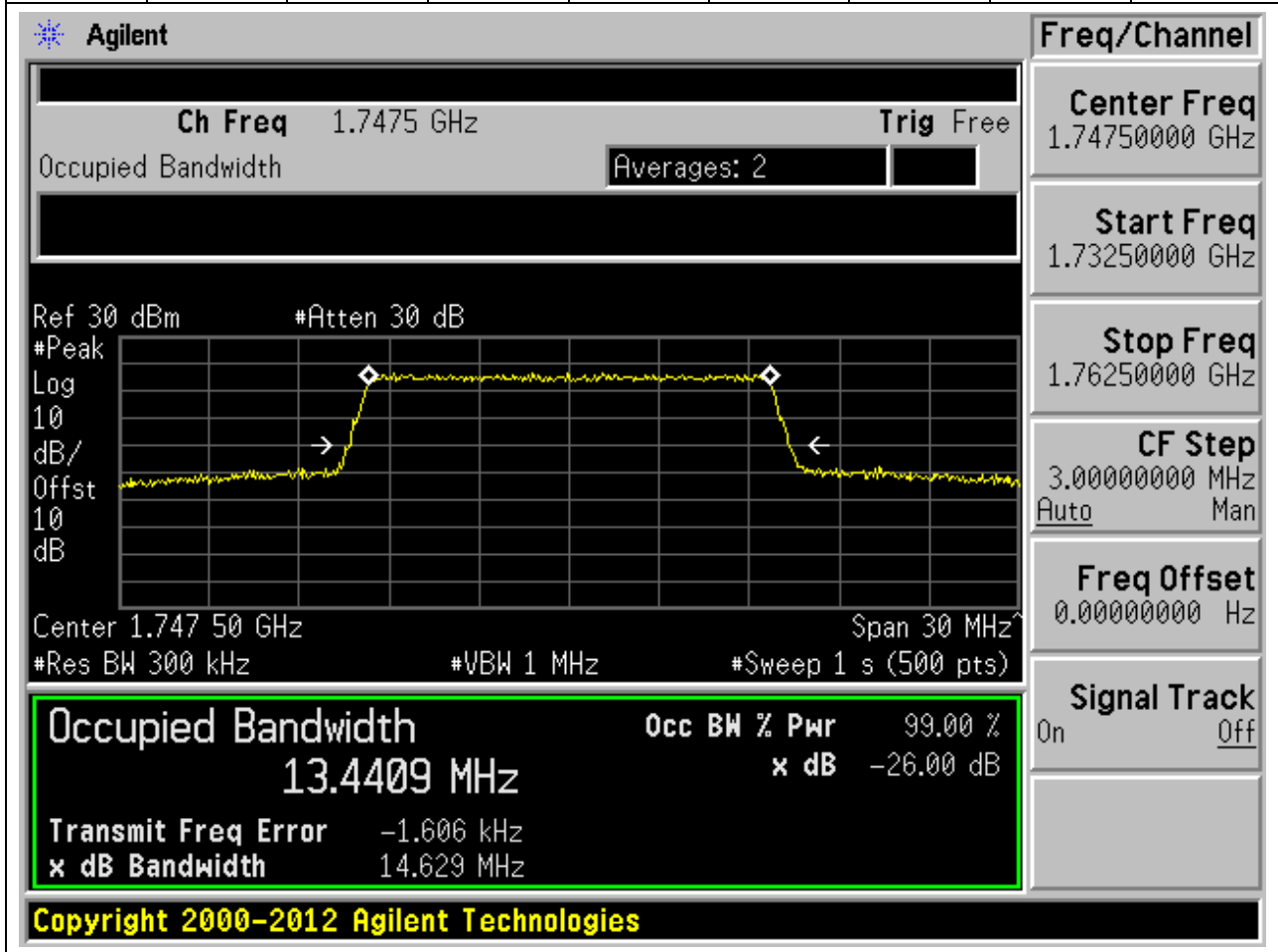
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.3	Peak	13.45	14.626	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 1.7325 GHz and a span of 30 MHz. The vertical axis is labeled 'dB' and the horizontal axis is labeled 'MHz'. The plot shows a signal with a peak at approximately 1.7325 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 13.4498 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 23.192 kHz and the 'x dB Bandwidth' is 14.626 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Agilent		Freq/Channel	
Ch Freq	1.7325 GHz	Center Freq	1.73250000 GHz
Occupied Bandwidth	Averages: 2	Start Freq	1.71750000 GHz
Ref 30 dBm	#Atten 30 dB	Stop Freq	1.74750000 GHz
#Peak		CF Step	3.00000000 MHz Auto Man
Log		Freq Offset	0.00000000 Hz
10		Signal Track	On Off
dB/			
Offst			
10			
dB			
Center	1.732 50 GHz		
#Res BW	300 kHz		
#VBW	1 MHz		
#Sweep	1 s (500 pts)		
Span 30 MHz			
<b>Occupied Bandwidth</b>		Occ BW % Pwr	99.00 %
<b>13.4498 MHz</b>		x dB	-26.00 dB
Transmit Freq Error	23.192 kHz		
x dB Bandwidth	14.626 MHz		
<b>Copyright 2000-2012 Agilent Technologies</b>			

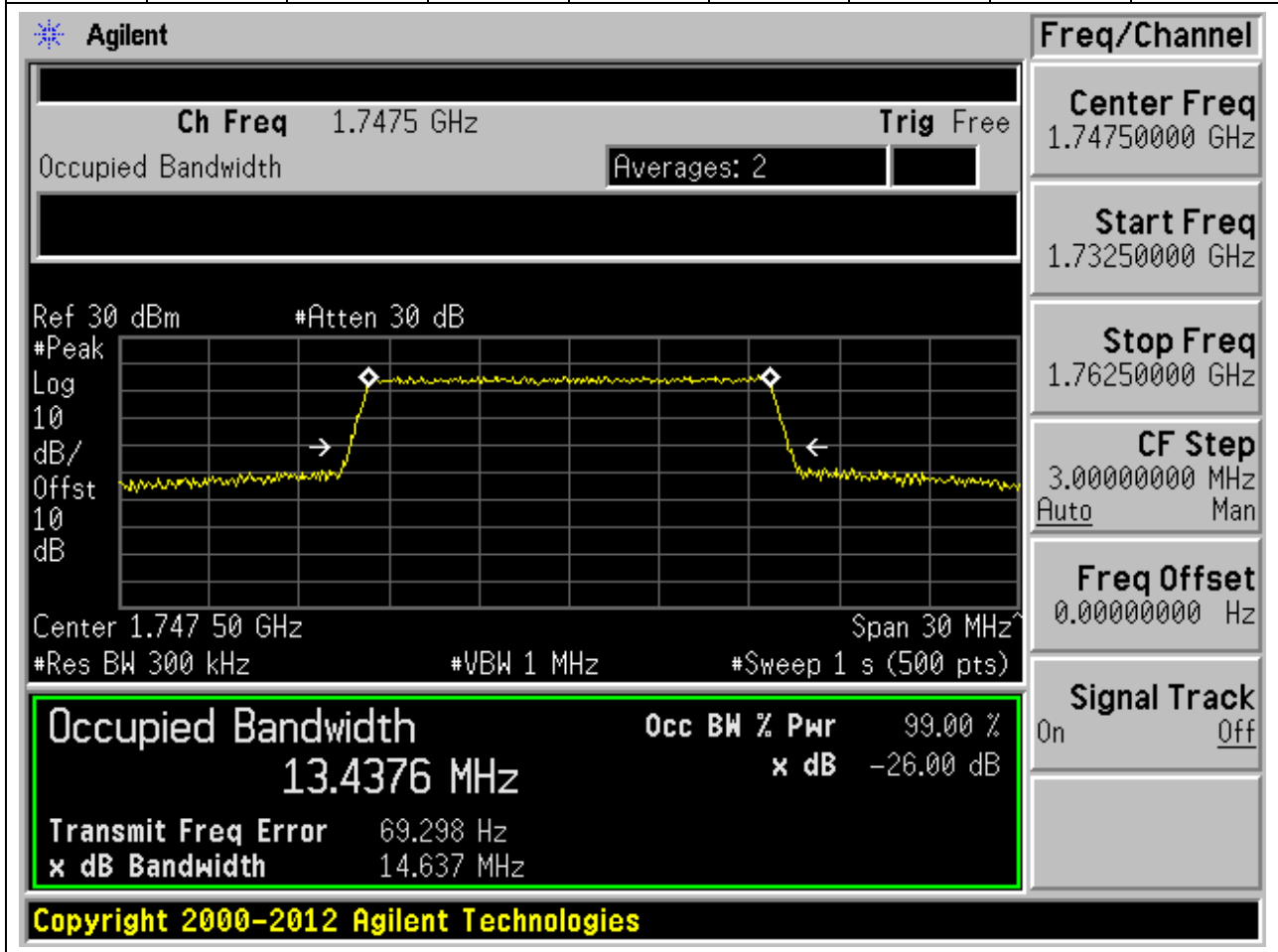
**9.29. LTE Occupied Bandwidth(NTNV)(Subtest:29, Channel:20325, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1747.5	99	26	0.3	Peak	13.441	14.629	15	Pass



**9.30. LTE Occupied Bandwidth(NTNV)(Subtest:30, Channel:20325, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1747.5	99	26	0.3	Peak	13.438	14.637	15	Pass





**9.31. LTE Occupied Bandwidth(NTNV)(Subtest:31, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

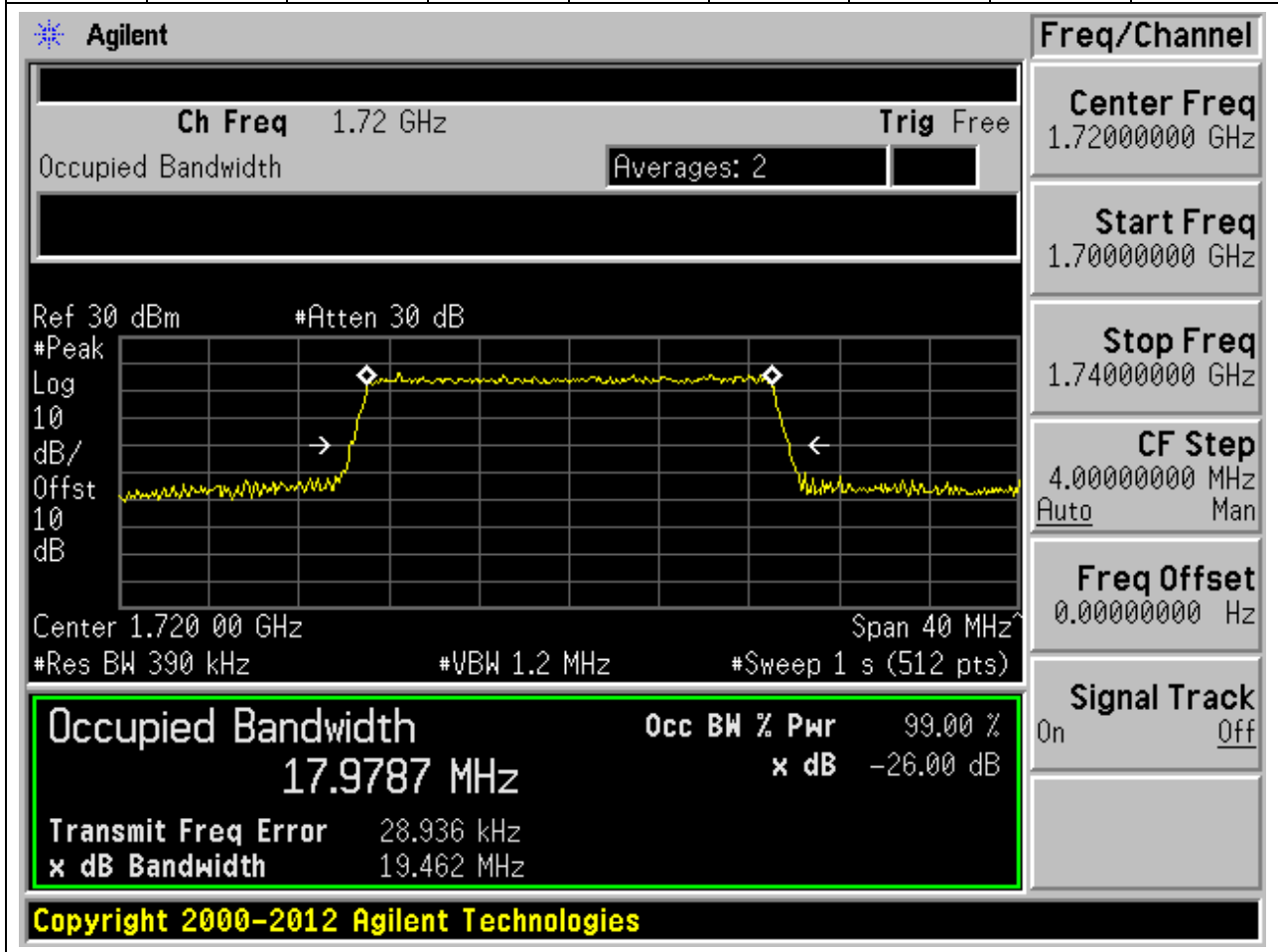
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1720	99	26	0.39	Peak	17.933	19.29	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is centered at 1.720 GHz with a span of 40 MHz. The vertical axis is labeled 'dB' and the horizontal axis is labeled 'MHz'. The plot shows a signal with a peak at approximately 1.720 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 17.9335 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 8.230 kHz and the 'x dB Bandwidth' is 19.290 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
17.9335 MHz		x dB	-26.00 dB
Transmit Freq Error		8.230 kHz	
x dB Bandwidth		19.290 MHz	

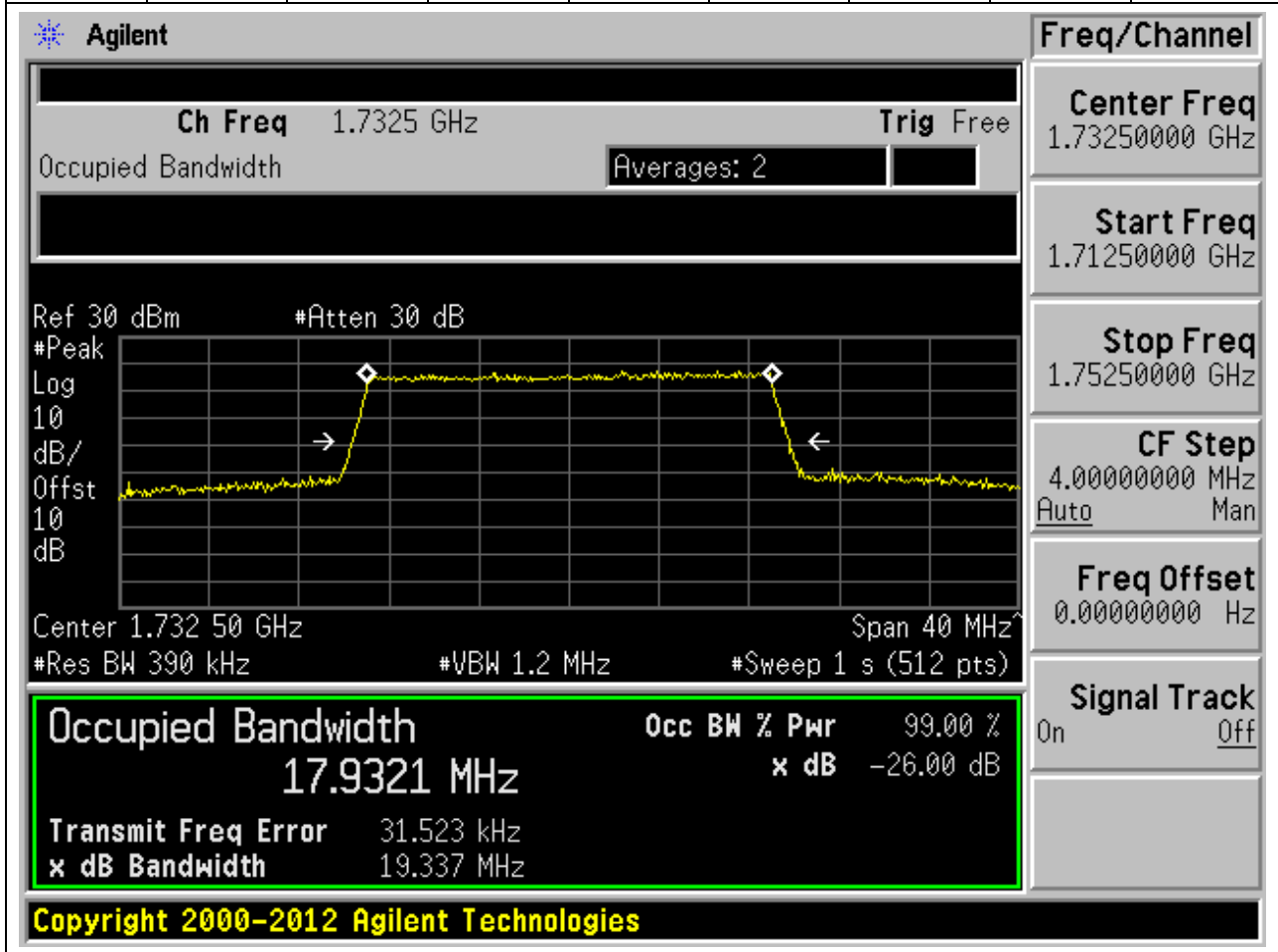
**9.32. LTE Occupied Bandwidth(NTNV)(Subtest:32, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1720	99	26	0.39	Peak	17.979	19.462	20	Pass



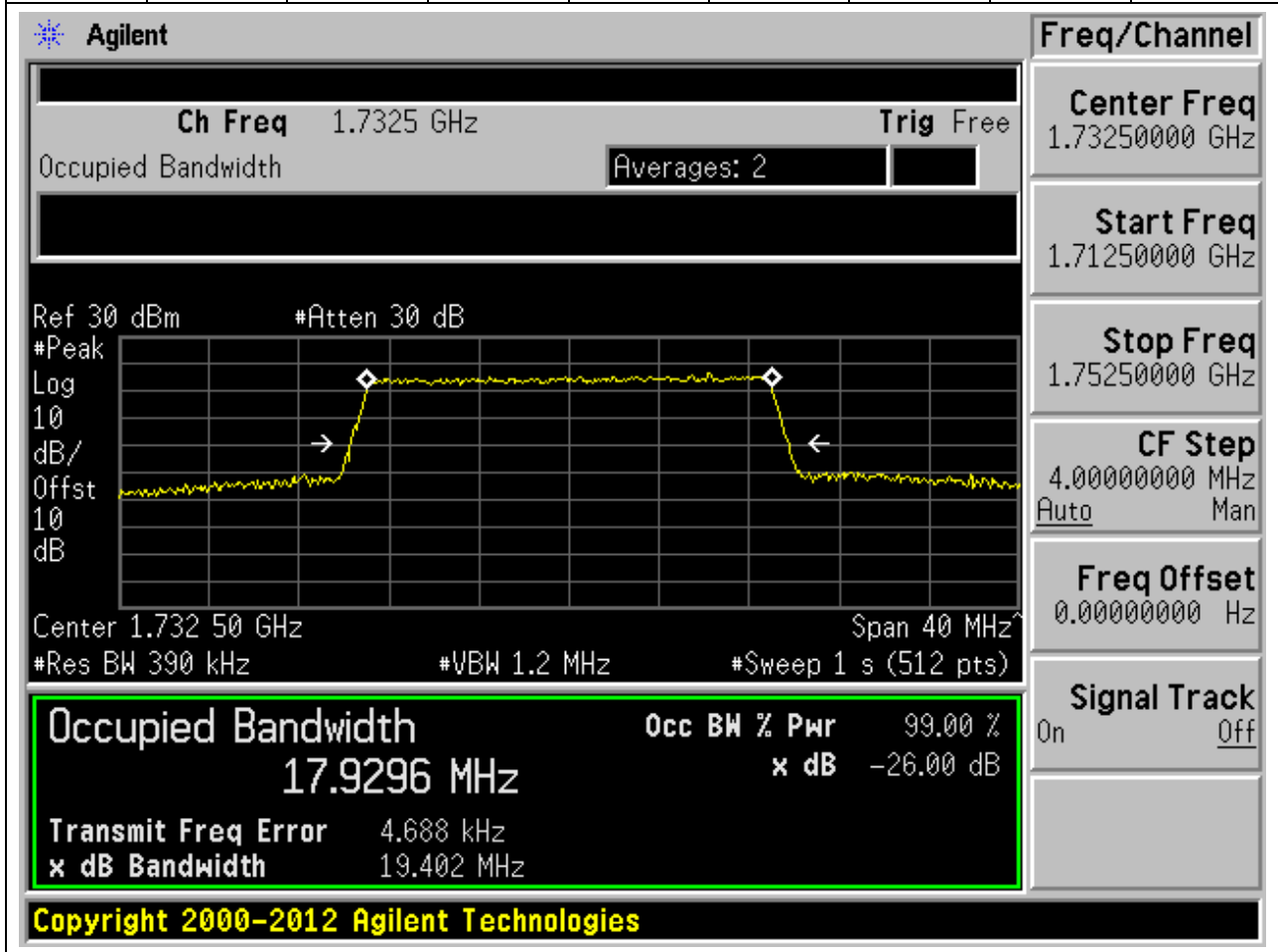
**9.33. LTE Occupied Bandwidth(NTNV)(Subtest:33, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.39	Peak	17.932	19.337	20	Pass



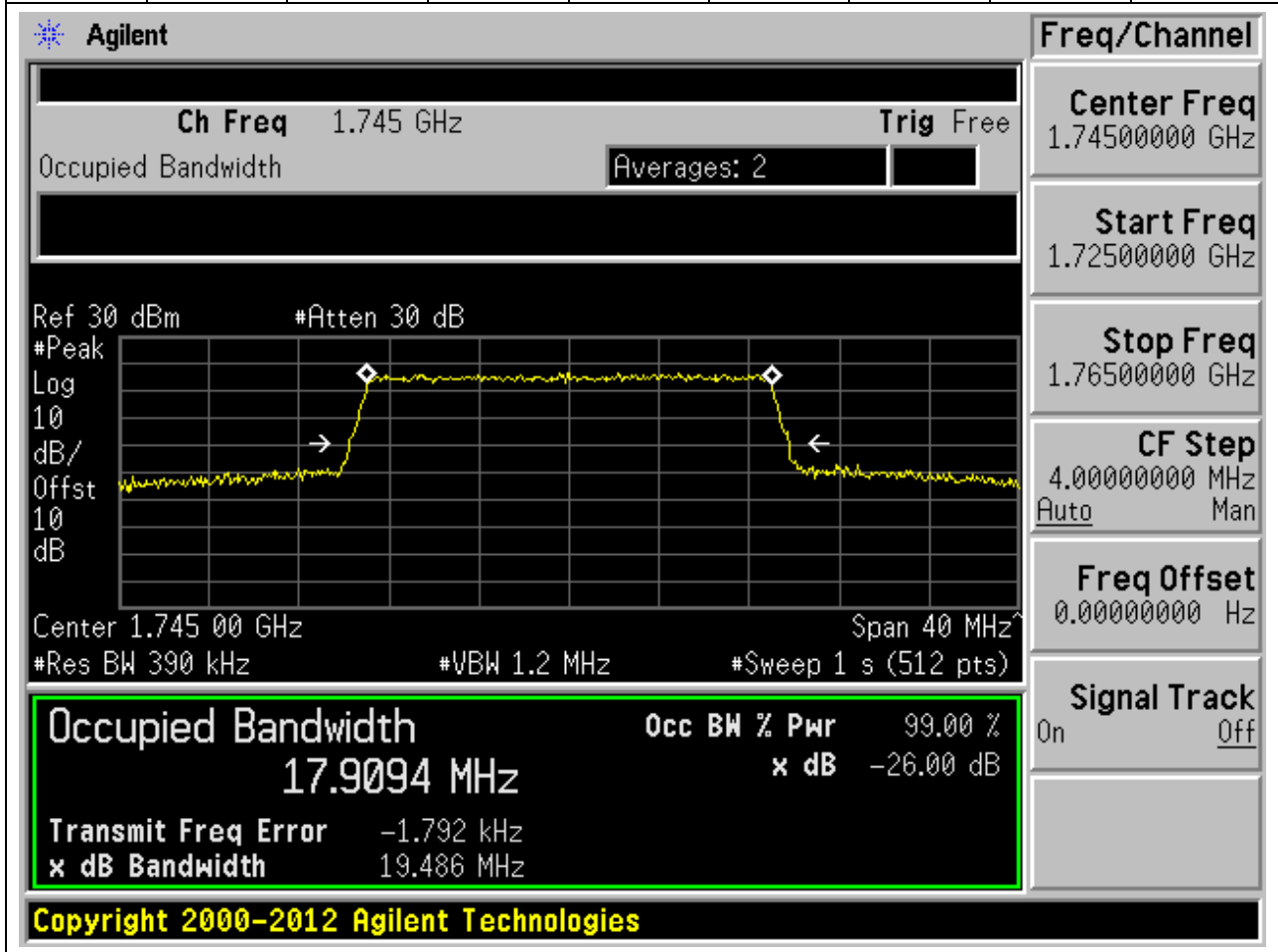
**9.34. LTE Occupied Bandwidth(NTNV)(Subtest:34, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1732.5	99	26	0.39	Peak	17.93	19.402	20	Pass



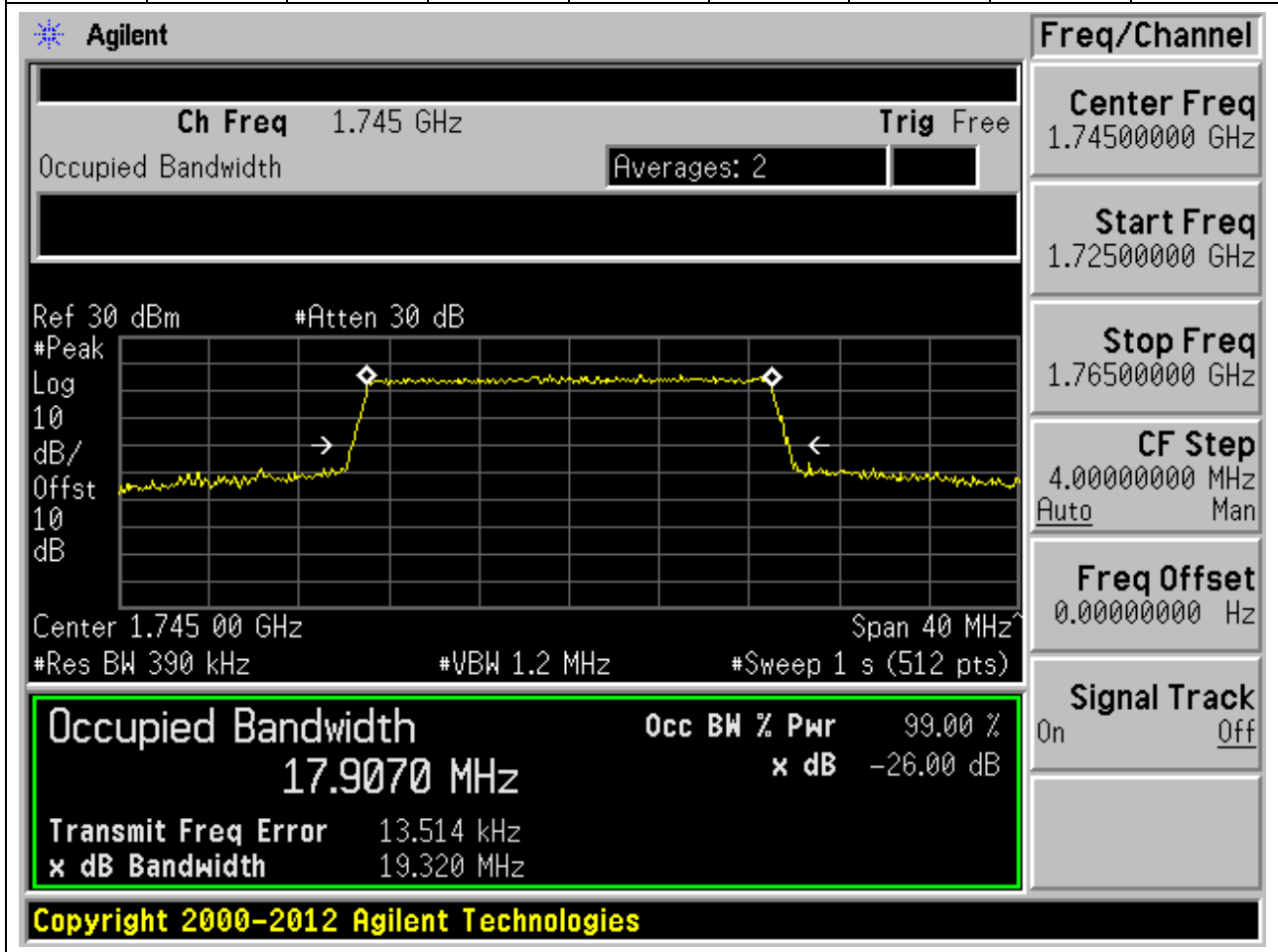
**9.35. LTE Occupied Bandwidth(NTNV)(Subtest:35, Channel:20300, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.39	Peak	17.909	19.486	20	Pass



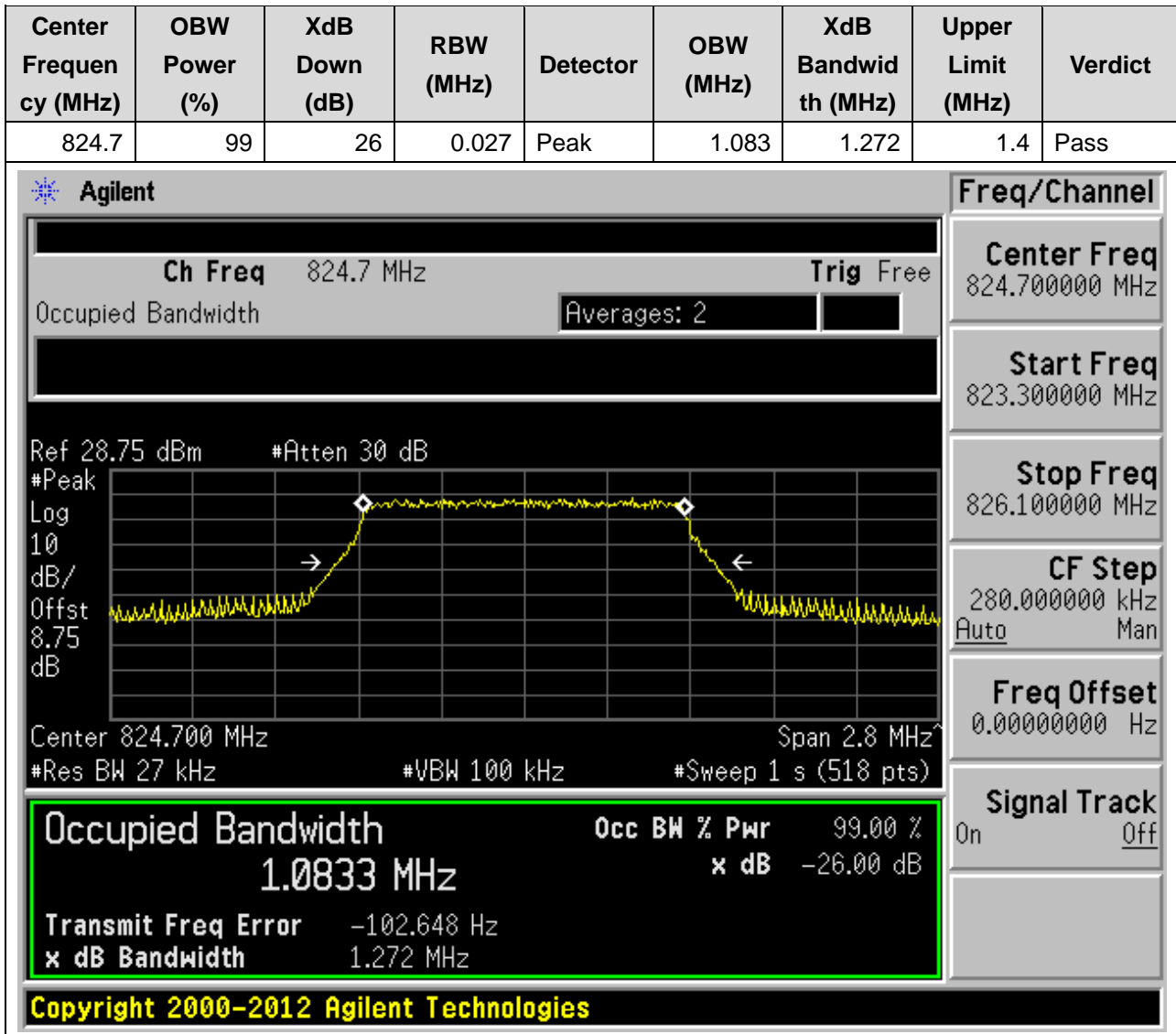
**9.36. LTE Occupied Bandwidth(NTNV)(Subtest:36, Channel:20300, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.39	Peak	17.907	19.32	20	Pass



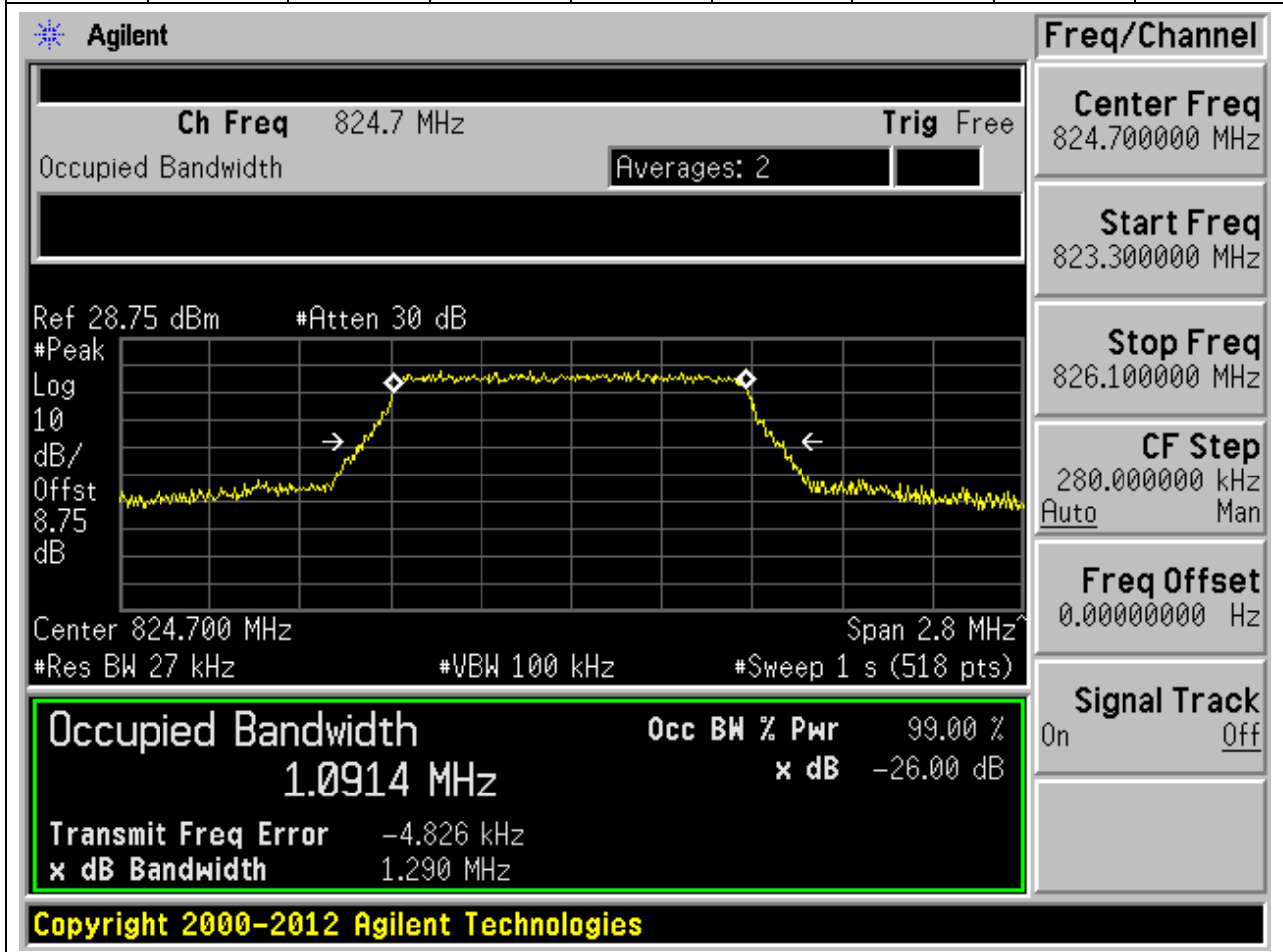
## 10. LTE\_Band5

### 10.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:20407, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



**10.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:20407, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

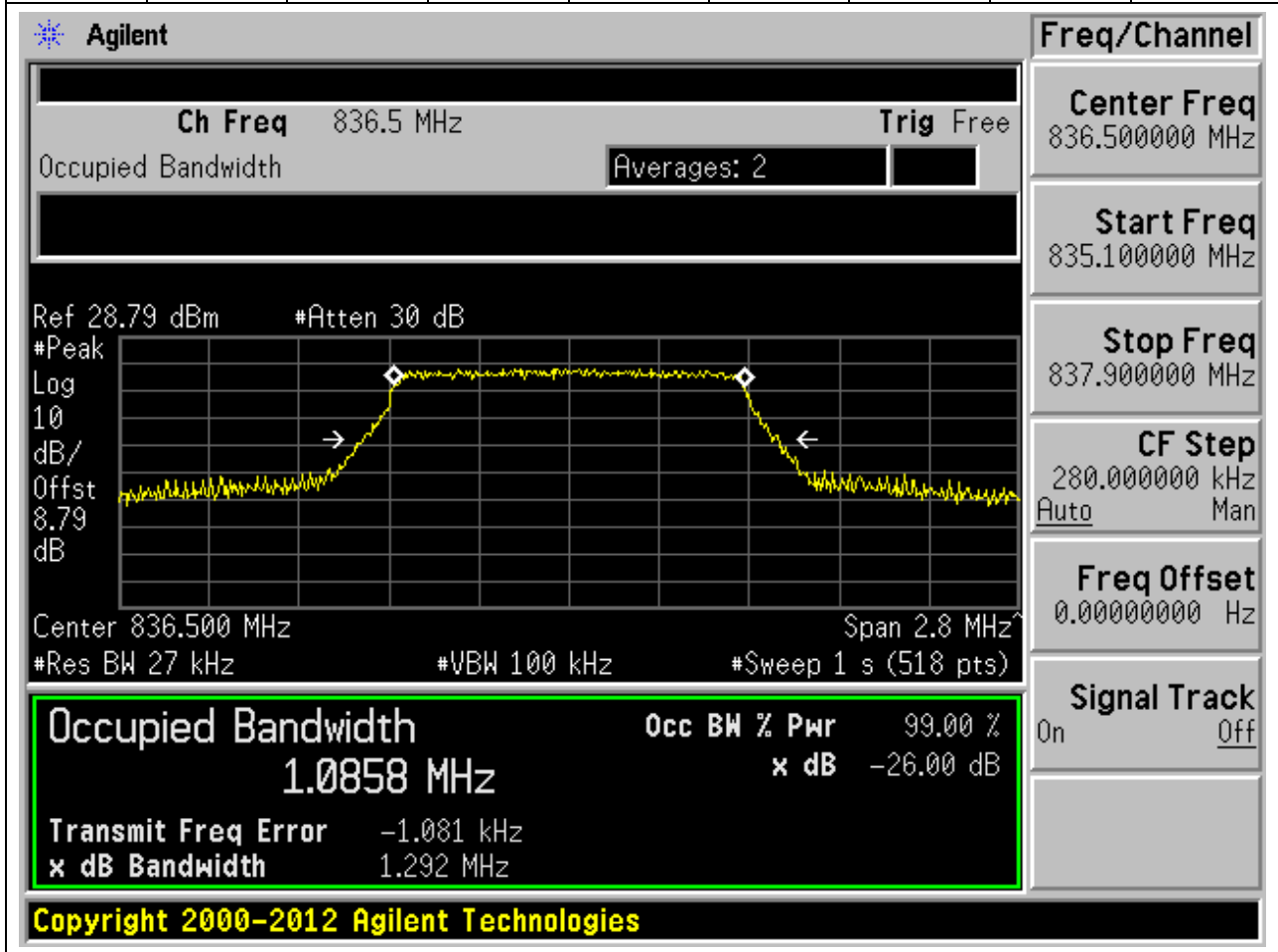
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
824.7	99	26	0.027	Peak	1.091	1.29	1.4	Pass





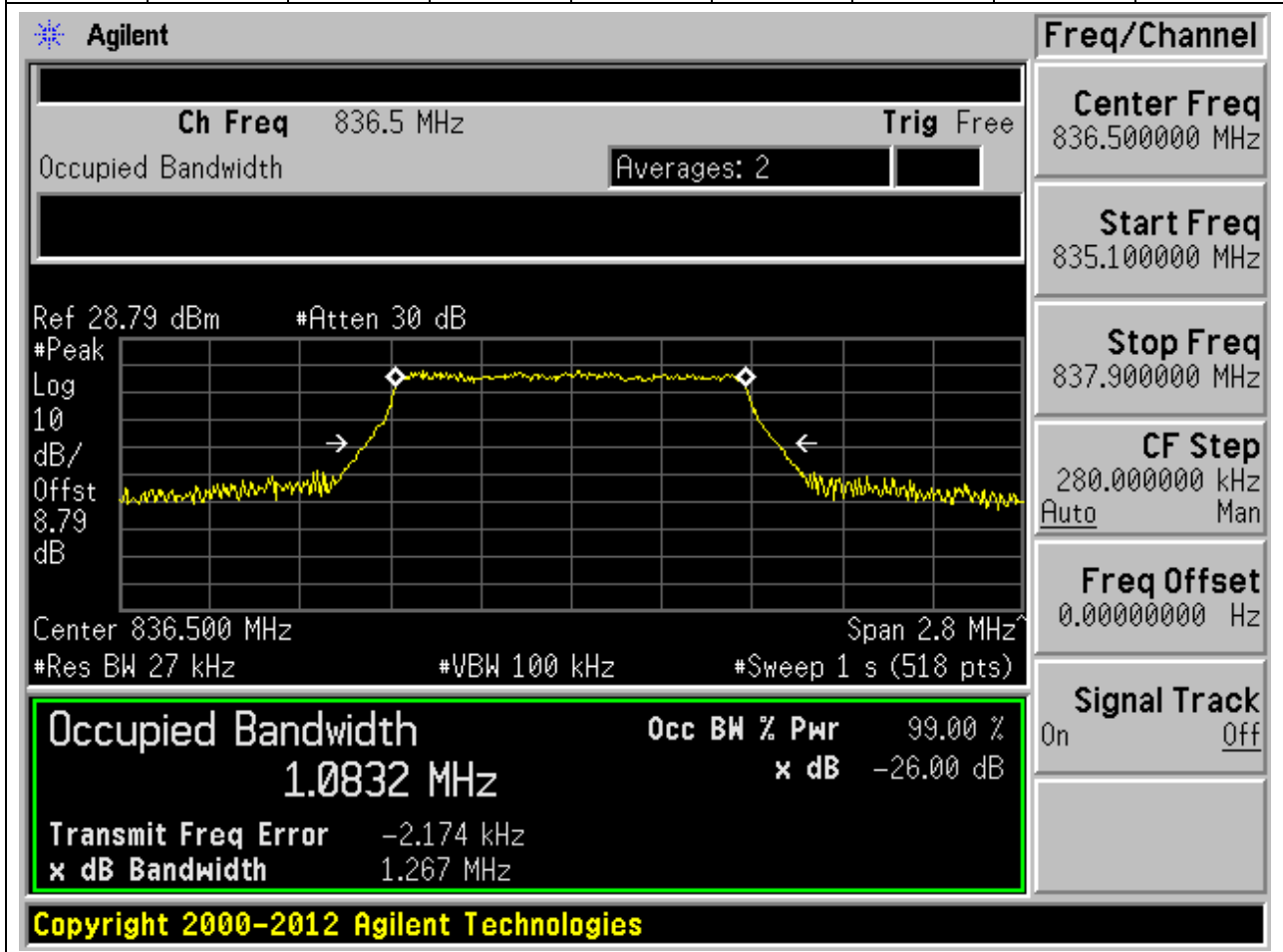
**10.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:20525, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.027	Peak	1.086	1.292	1.4	Pass



**10.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:20525, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.027	Peak	1.083	1.267	1.4	Pass



**10.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:20643, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
848.3	99	26	0.027	Peak	1.09	1.27	1.4	Pass

**Agilent**
**Freq/Channel**

**Ch Freq** 848.3 MHz **Trig** Free

Occupied Bandwidth Averages: 2

**Center Freq**  
848.300000 MHz

**Start Freq**  
846.900000 MHz

**Stop Freq**  
849.700000 MHz

**CF Step**  
280.000000 kHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

Ref 28.82 dBm #Atten 30 dB

Center 848.300 MHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)

**Occupied Bandwidth** **Occ BW % Pwr** 99.00 %

**1.0901 MHz**

**x dB** -26.00 dB

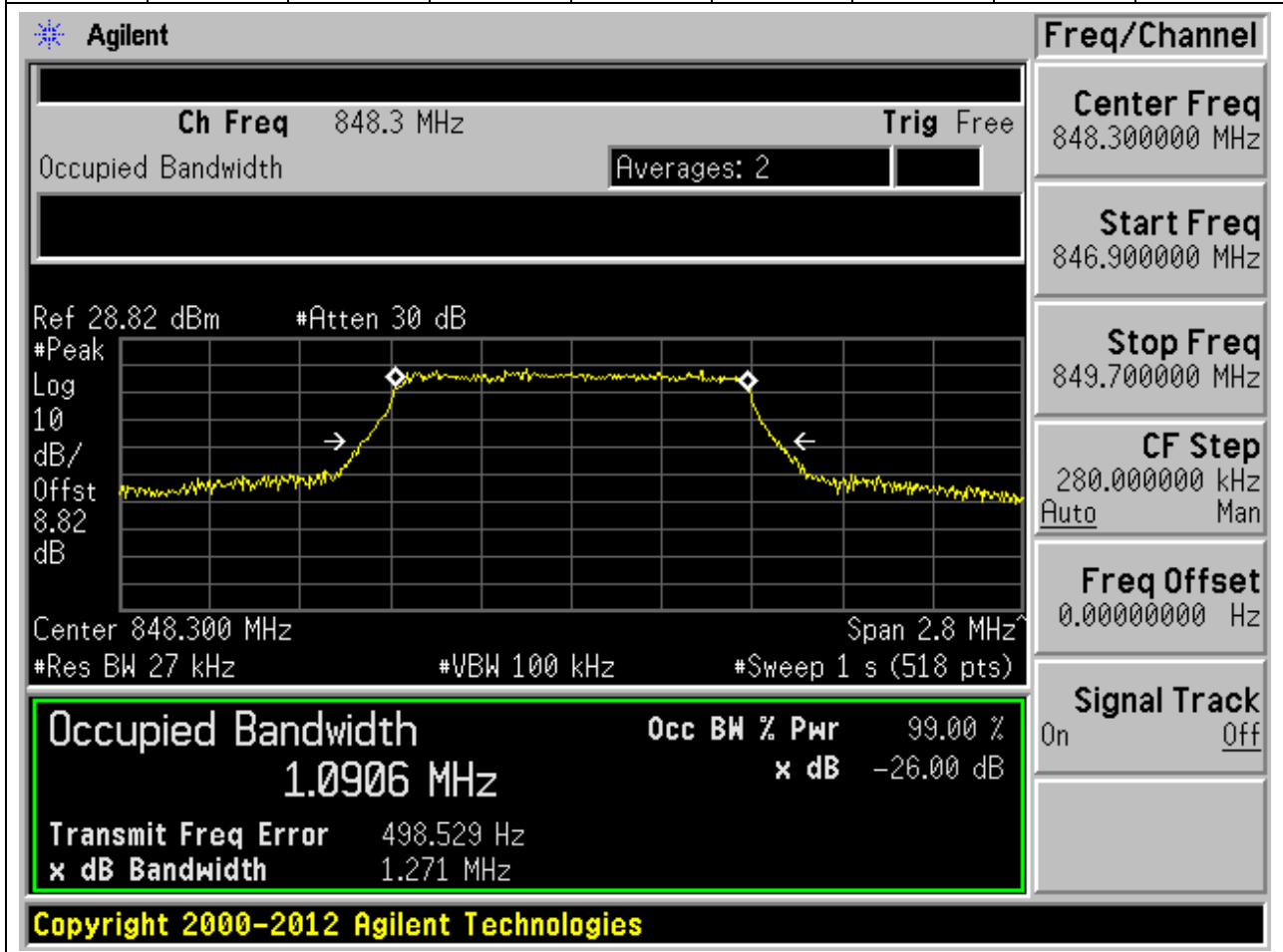
**Transmit Freq Error** -2.655 kHz

**x dB Bandwidth** 1.270 MHz

Copyright 2000-2012 Agilent Technologies

**10.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:20643, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
848.3	99	26	0.027	Peak	1.091	1.271	1.4	Pass



**10.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:20415, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
825.5	99	26	0.062	Peak	2.684	2.909	3	Pass

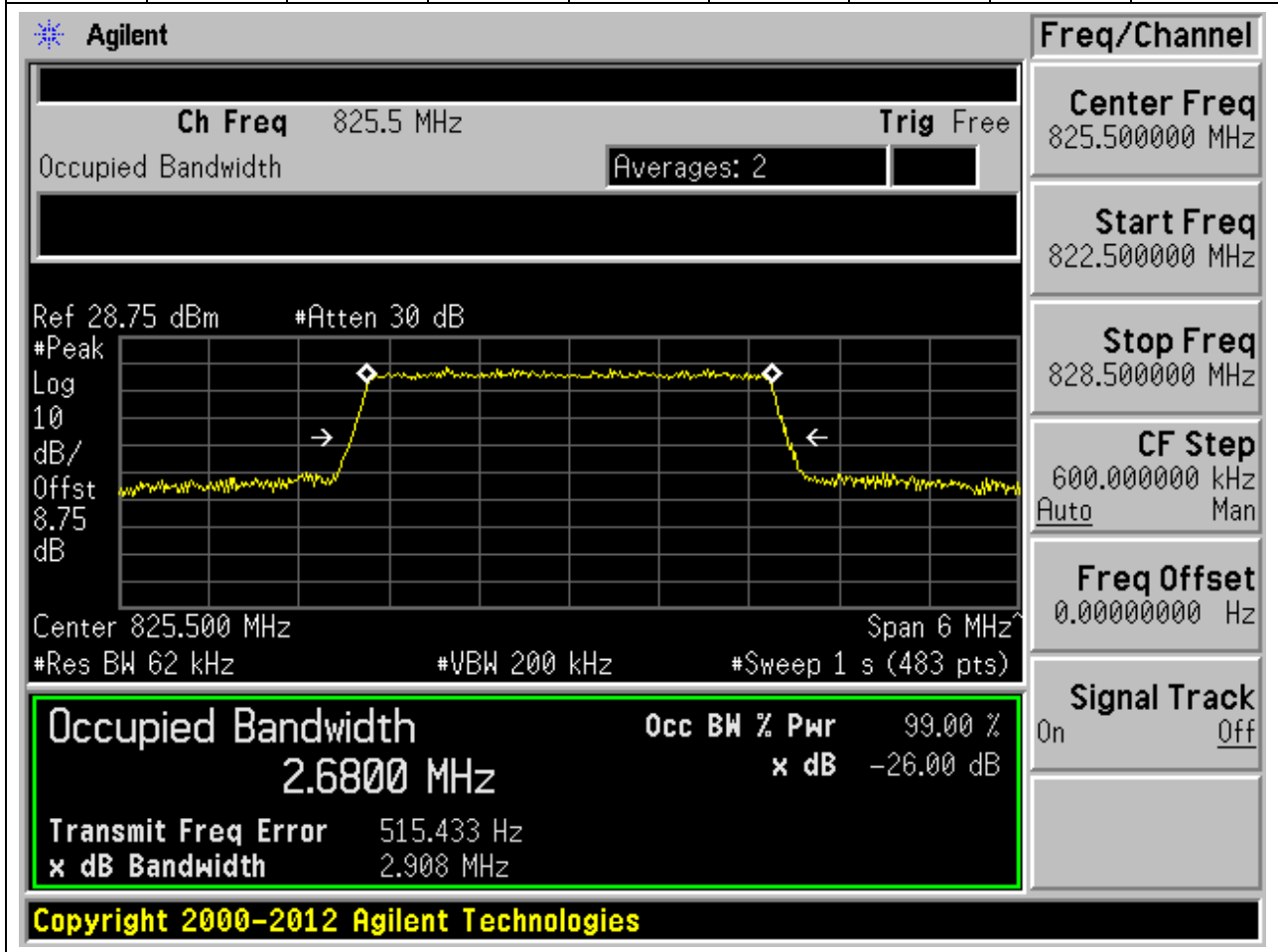
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 825.5 MHz, and the span is 6 MHz. The occupied bandwidth is measured as 2.684 MHz, which is 99.00% of the power. The XdB down is -26.00 dB. The transmit frequency error is -1.824 kHz, and the XdB bandwidth is 2.909 MHz. The interface also shows various settings such as Res BW (62 kHz), VBW (200 kHz), and Sweep (1 s). A green box highlights the Occupied Bandwidth and related parameters.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
2.6844 MHz	x dB	-26.00 dB
Transmit Freq Error	-1.824 kHz	
x dB Bandwidth	2.909 MHz	

**Copyright 2000-2012 Agilent Technologies**

**10.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:20415, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
825.5	99	26	0.062	Peak	2.68	2.908	3	Pass



**10.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:20525, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.062	Peak	2.688	2.914	3	Pass

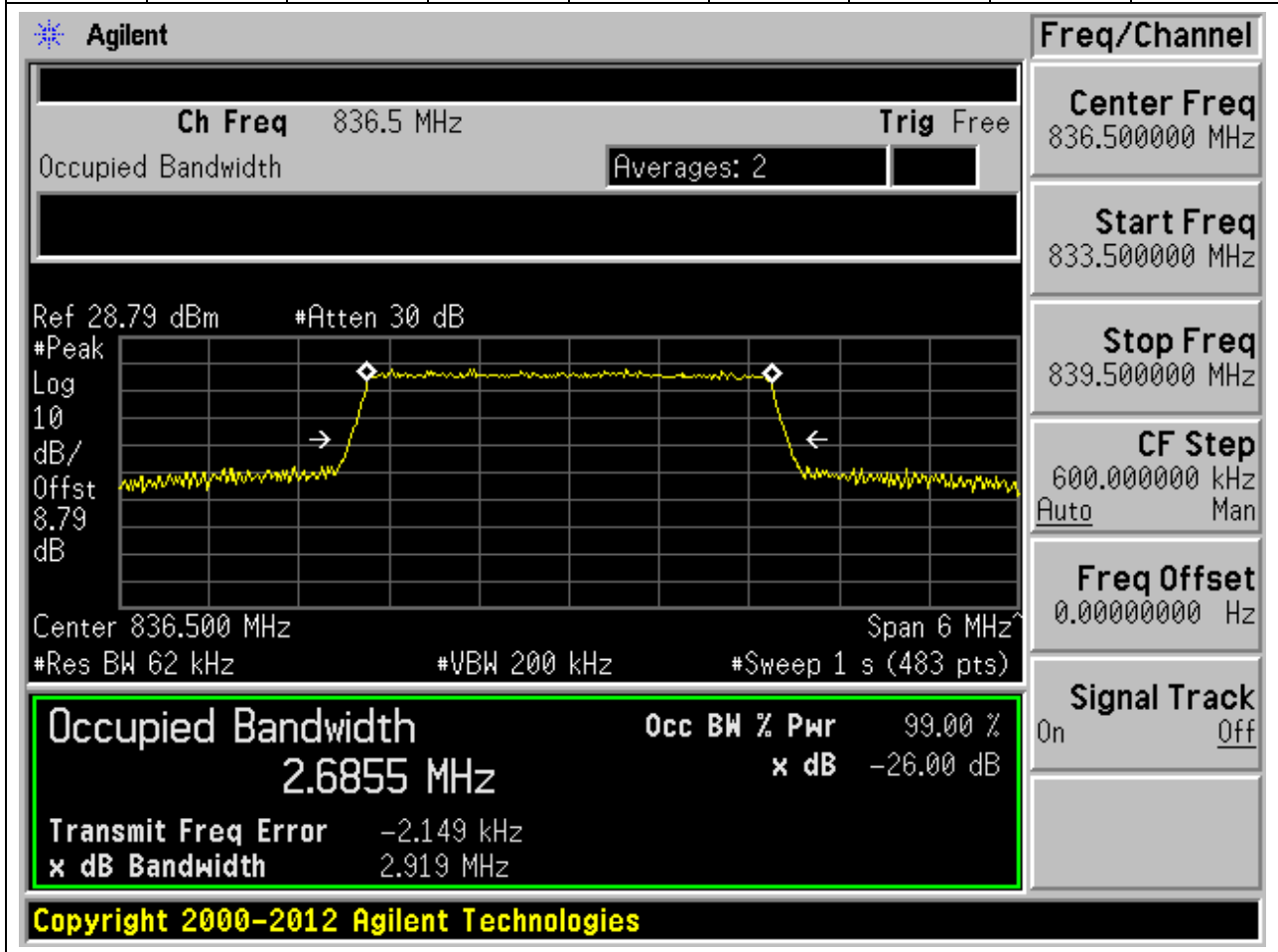
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 836.5 MHz. The occupied bandwidth is 2.6876 MHz, which is 99.00% of the power. The XdB down is -26.00 dB. The transmit frequency error is 328.933 Hz, and the XdB bandwidth is 2.914 MHz. The interface also shows various settings such as Res BW (62 kHz), VBW (200 kHz), and Span (6 MHz).

Occupied Bandwidth		Occ BW % Pwr	99.00 %
2.6876 MHz		x dB	-26.00 dB
Transmit Freq Error		328.933 Hz	
x dB Bandwidth		2.914 MHz	

**Copyright 2000-2012 Agilent Technologies**

**10.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:20525, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

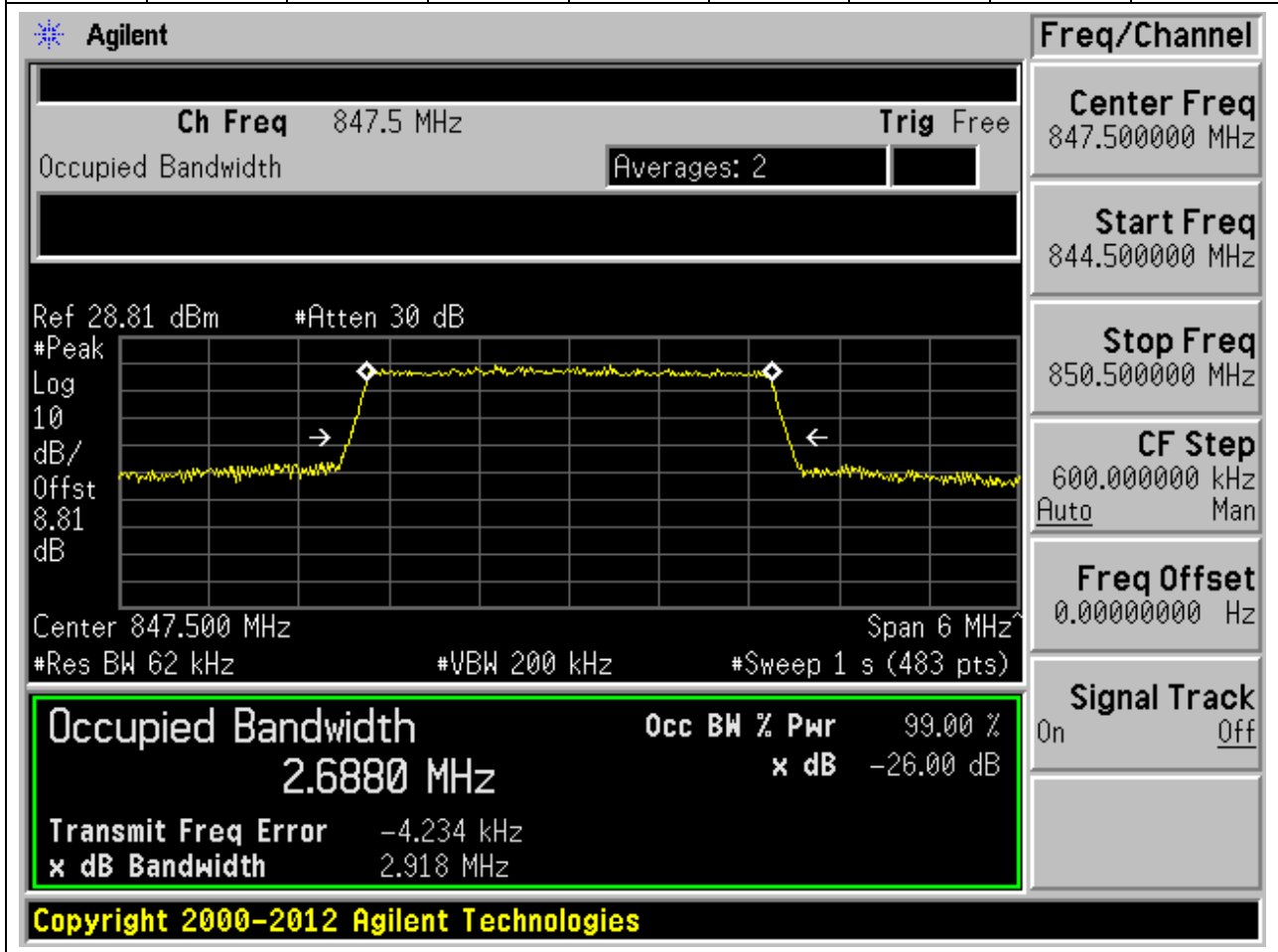
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.062	Peak	2.685	2.919	3	Pass





**10.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:20635, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
847.5	99	26	0.062	Peak	2.688	2.918	3	Pass



**10.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:20635, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
847.5	99	26	0.062	Peak	2.682	2.927	3	Pass

Agilent
Freq/Channel

Ch Freq 847.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.81 dBm #Atten 30 dB

Center 847.500 MHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

Center Freq  
847.500000 MHz

Start Freq  
844.500000 MHz

Stop Freq  
850.500000 MHz

CF Step  
600.000000 kHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

**Occupied Bandwidth**

**2.6816 MHz**

Occ BW % Pwr 99.00 %

x dB -26.00 dB

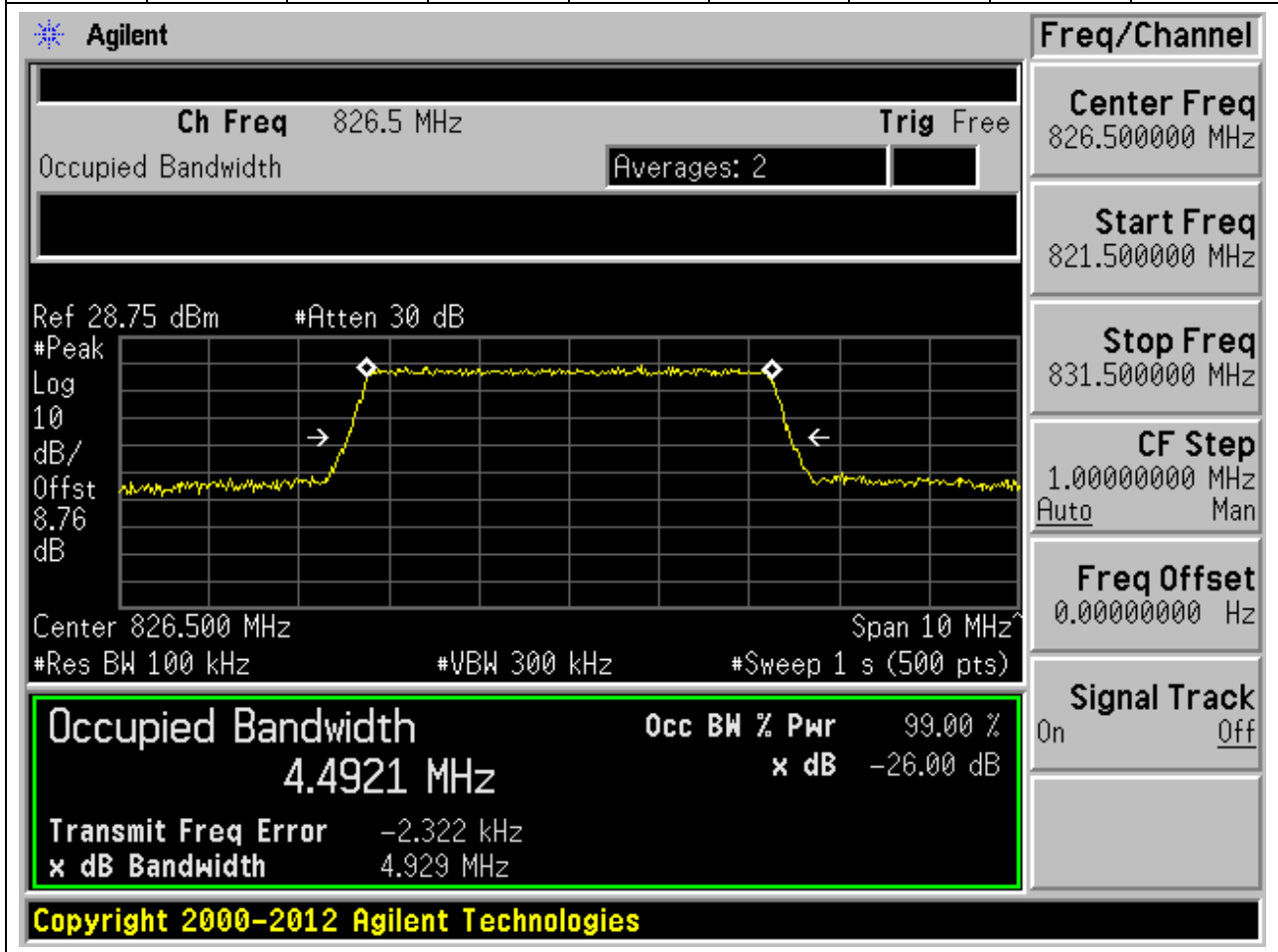
Transmit Freq Error -5.612 kHz

x dB Bandwidth 2.927 MHz

Copyright 2000-2012 Agilent Technologies

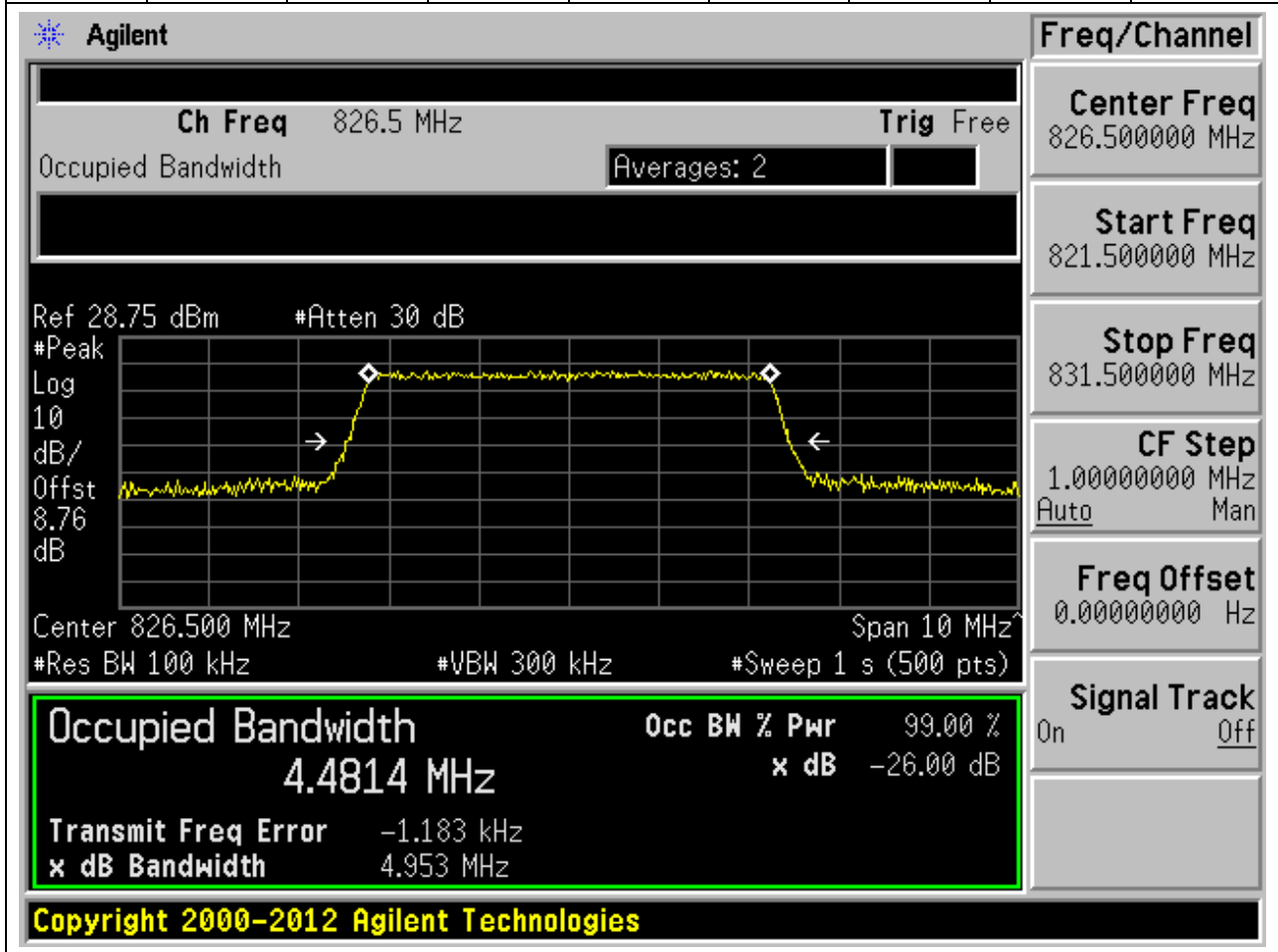
**10.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:20425, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
826.5	99	26	0.1	Peak	4.492	4.929	5	Pass



**10.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:20425, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
826.5	99	26	0.1	Peak	4.481	4.953	5	Pass



**10.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:20525, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.1	Peak	4.489	4.927	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace representing the signal. The plot is centered at 836.500 MHz with a span of 10 MHz. The vertical axis is labeled 'dB/Offst' with a value of 8.79 dB. The horizontal axis is labeled 'Span 10 MHz'. The plot shows a signal with a peak at 836.500 MHz and a bandwidth of 4.4894 MHz. The signal is measured at a reference level of 28.79 dBm and an attenuation of 30 dB. The occupied bandwidth is 4.4894 MHz, which is 99.00% of the power. The transmit frequency error is -3.702 kHz, and the x dB bandwidth is 4.927 MHz. The signal track is set to 'Off'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.4894 MHz	x dB	-26.00 dB
Transmit Freq Error	-3.702 kHz	
x dB Bandwidth	4.927 MHz	

**Copyright 2000-2012 Agilent Technologies**

**10.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:20525, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.1	Peak	4.486	4.889	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace representing the signal. The plot is centered at 836.500 MHz with a span of 10 MHz. The vertical axis is labeled 'dB/Offst' with a value of 8.79 dB. The horizontal axis is labeled 'Span 10 MHz'. The plot shows a signal with a peak at 836.500 MHz and a bandwidth of 4.4863 MHz. The signal is measured at a reference level of 28.79 dBm and an attenuation of 30 dB. The occupied bandwidth is 4.4863 MHz, which is 99.00% of the power. The transmit frequency error is -231.920 Hz, and the x dB bandwidth is 4.889 MHz. The signal track is set to 'Off'.

Parameter	Value
Center Freq	836.5 MHz
Occupied Bandwidth	4.4863 MHz
Ref	28.79 dBm
#Atten	30 dB
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-231.920 Hz
x dB Bandwidth	4.889 MHz

**Copyright 2000-2012 Agilent Technologies**

**10.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:20625, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
846.5	99	26	0.1	Peak	4.491	4.897	5	Pass

Agilent
Freq/Channel

Ch Freq 846.5 MHz
Trig Free

Occupied Bandwidth Averages: 2

Ref 28.81 dBm #Atten 30 dB

Center 846.500 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)

Center Freq  
846.500000 MHz

Start Freq  
841.500000 MHz

Stop Freq  
851.500000 MHz

CF Step  
1.00000000 MHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
4.4909 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-3.369 kHz	
<b>x dB Bandwidth</b>	4.897 MHz	

Copyright 2000-2012 Agilent Technologies

**10.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:20625, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
846.5	99	26	0.1	Peak	4.491	4.954	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 846.5 MHz. The occupied bandwidth is 4.4909 MHz, which is 99.00% of the power. The XdB down is -26.00 dB. The transmit frequency error is -2.060 kHz, and the XdB bandwidth is 4.954 MHz. The plot shows a flat top with a slight dip in the center, indicating a narrowband signal. The reference level is 28.81 dBm, and the attenuation is 30 dB. The resolution bandwidth is 100 kHz, and the video bandwidth is 300 kHz. The span is 10 MHz, and the sweep time is 1 second (500 points). The signal track is turned off.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
4.4909 MHz		x dB	-26.00 dB
Transmit Freq Error		-2.060 kHz	
x dB Bandwidth		4.954 MHz	

**Copyright 2000-2012 Agilent Technologies**



**10.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:20450, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
829	99	26	0.2	Peak	8.969	9.847	10	Pass

**Agilent**

Ch Freq 829 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.76 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.76 dB

Center 829.00 MHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>8.9690 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		3.434 kHz
<b>x dB Bandwidth</b>		9.847 MHz

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

**Center Freq** 829.000000 MHz

**Start Freq** 819.000000 MHz

**Stop Freq** 839.000000 MHz

**CF Step** 2.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

**10.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:20450, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
829	99	26	0.2	Peak	8.982	9.76	10	Pass

**Agilent**

Ch Freq 829 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.76 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.76 dB

Center 829.00 MHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>8.9824 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	15.077 kHz	
<b>x dB Bandwidth</b>	9.760 MHz	

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

**Center Freq** 829.000000 MHz

**Start Freq** 819.000000 MHz

**Stop Freq** 839.000000 MHz

**CF Step** 2.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

**10.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:20525, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.2	Peak	8.95	9.775	10	Pass

Agilent
Freq/Channel

Ch Freq 836.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.79 dBm #Atten 30 dB

Center 836.50 MHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

Center Freq  
836.500000 MHz

Start Freq  
826.500000 MHz

Stop Freq  
846.500000 MHz

CF Step  
2.00000000 MHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**8.9502 MHz** x dB -26.00 dB

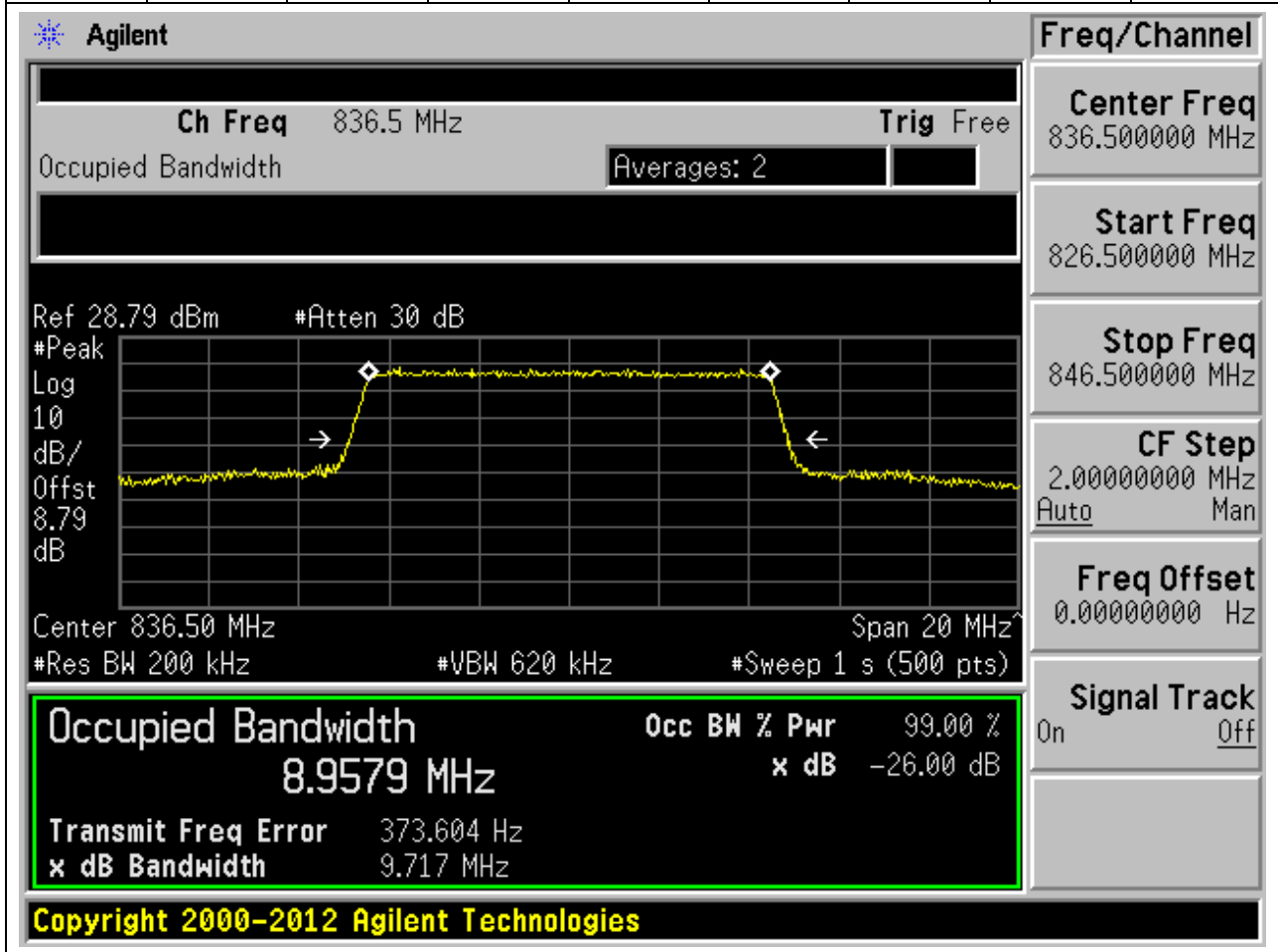
Transmit Freq Error -2.208 kHz

x dB Bandwidth 9.775 MHz

Copyright 2000-2012 Agilent Technologies

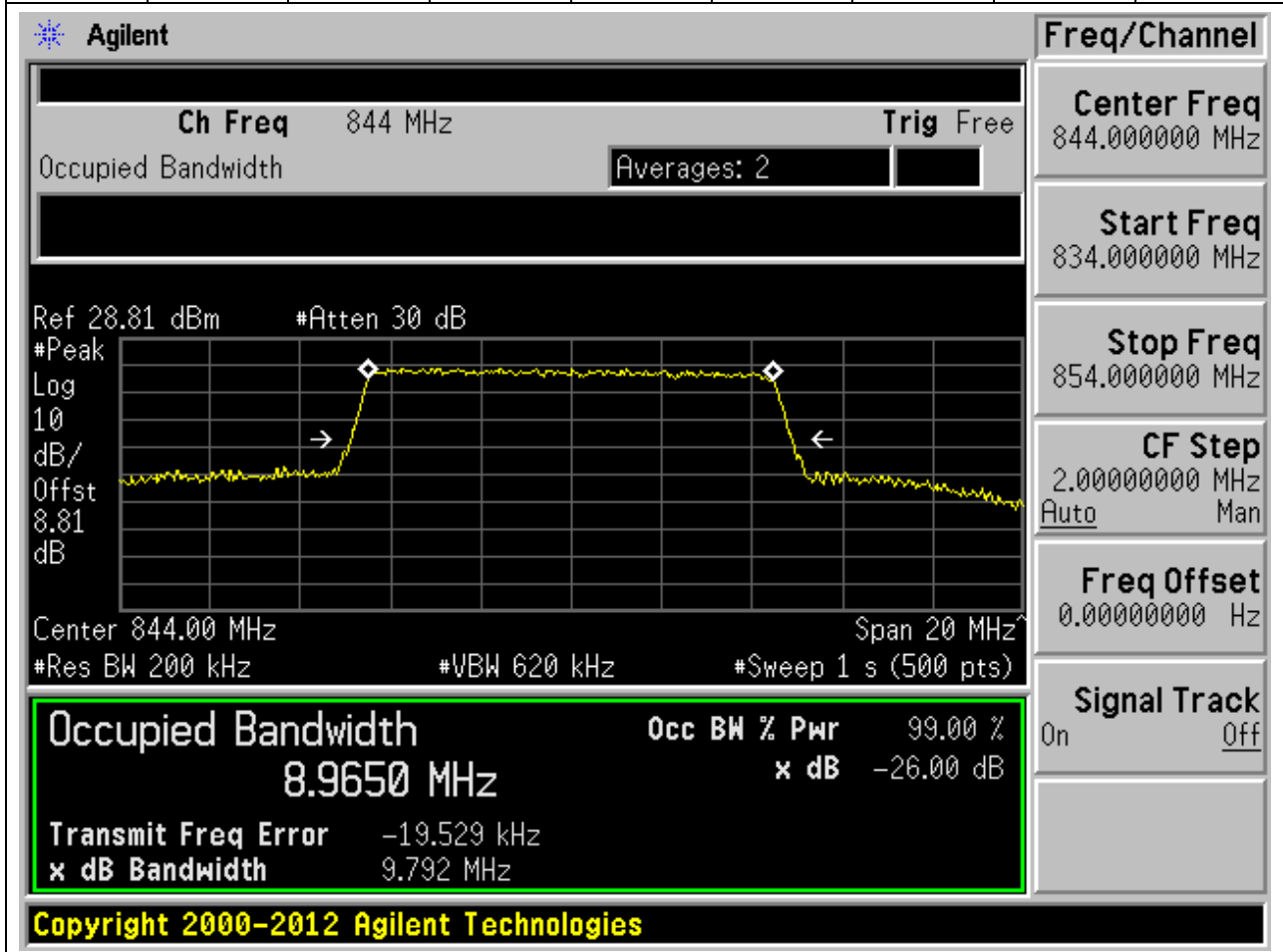
**10.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:20525, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.2	Peak	8.958	9.717	10	Pass



**10.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
844	99	26	0.2	Peak	8.965	9.792	10	Pass



**10.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:20600, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
844	99	26	0.2	Peak	8.953	9.752	10	Pass

Agilent
Freq/Channel

Ch Freq 844 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.81 dBm #Atten 30 dB

Center 844.00 MHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

Center Freq 844.000000 MHz

Start Freq 834.000000 MHz

Stop Freq 854.000000 MHz

CF Step 2.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**8.9531 MHz** x dB -26.00 dB

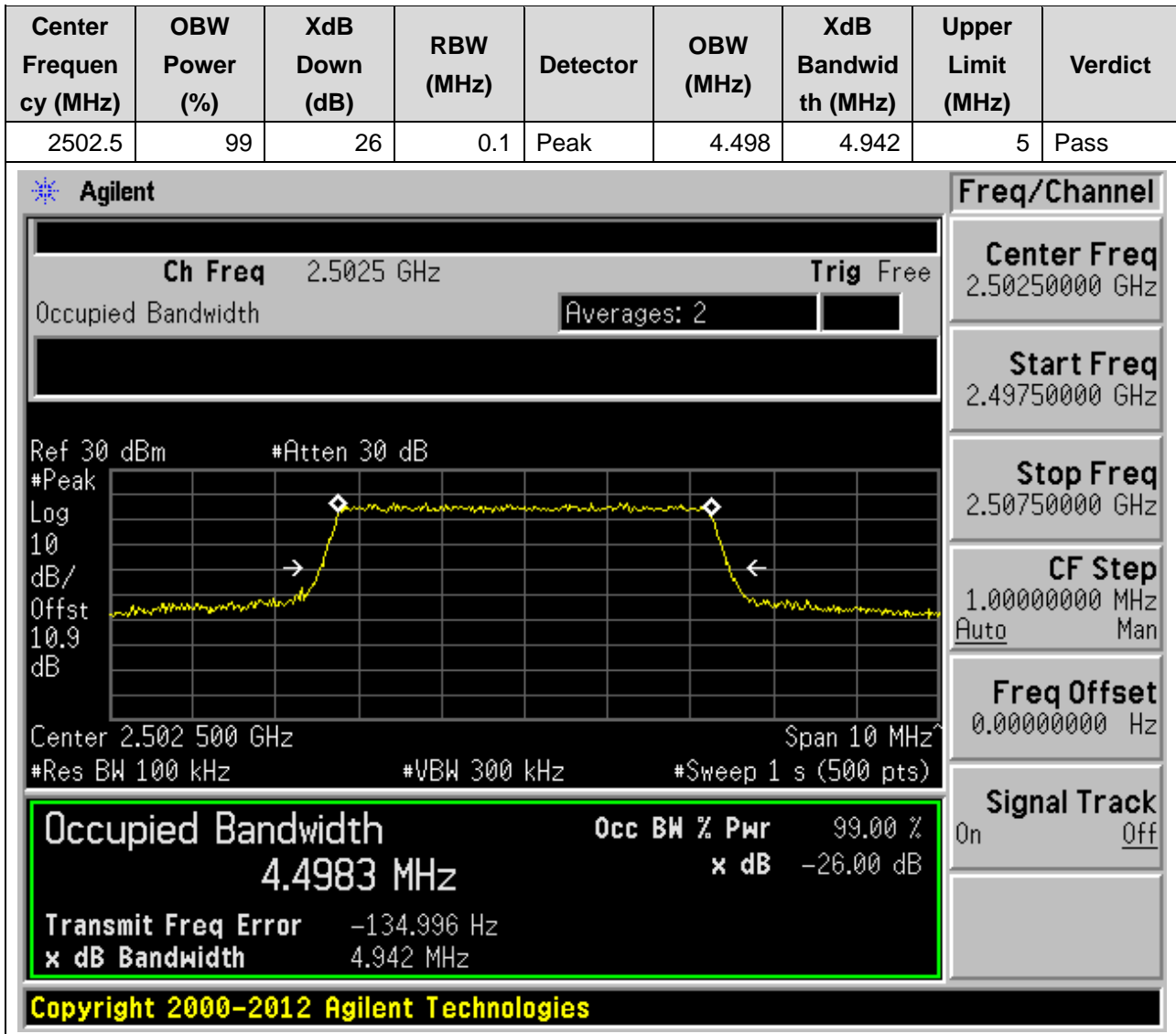
Transmit Freq Error -22.843 kHz

x dB Bandwidth 9.752 MHz

Copyright 2000-2012 Agilent Technologies

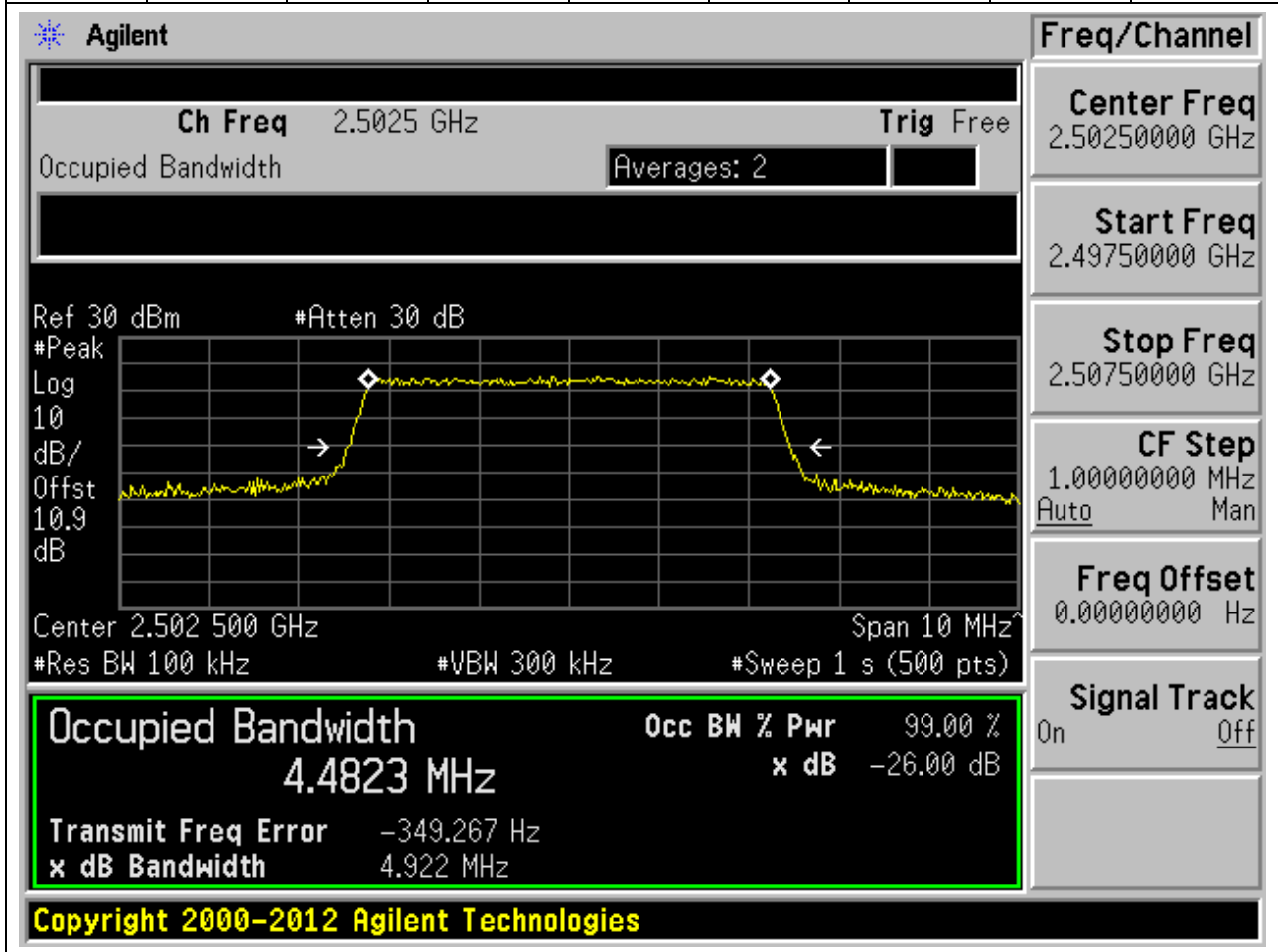
## 11. LTE\_Band7

### 11.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



**11.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2502.5	99	26	0.1	Peak	4.482	4.922	5	Pass





**11.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:21100, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.1	Peak	4.488	4.908	5	Pass

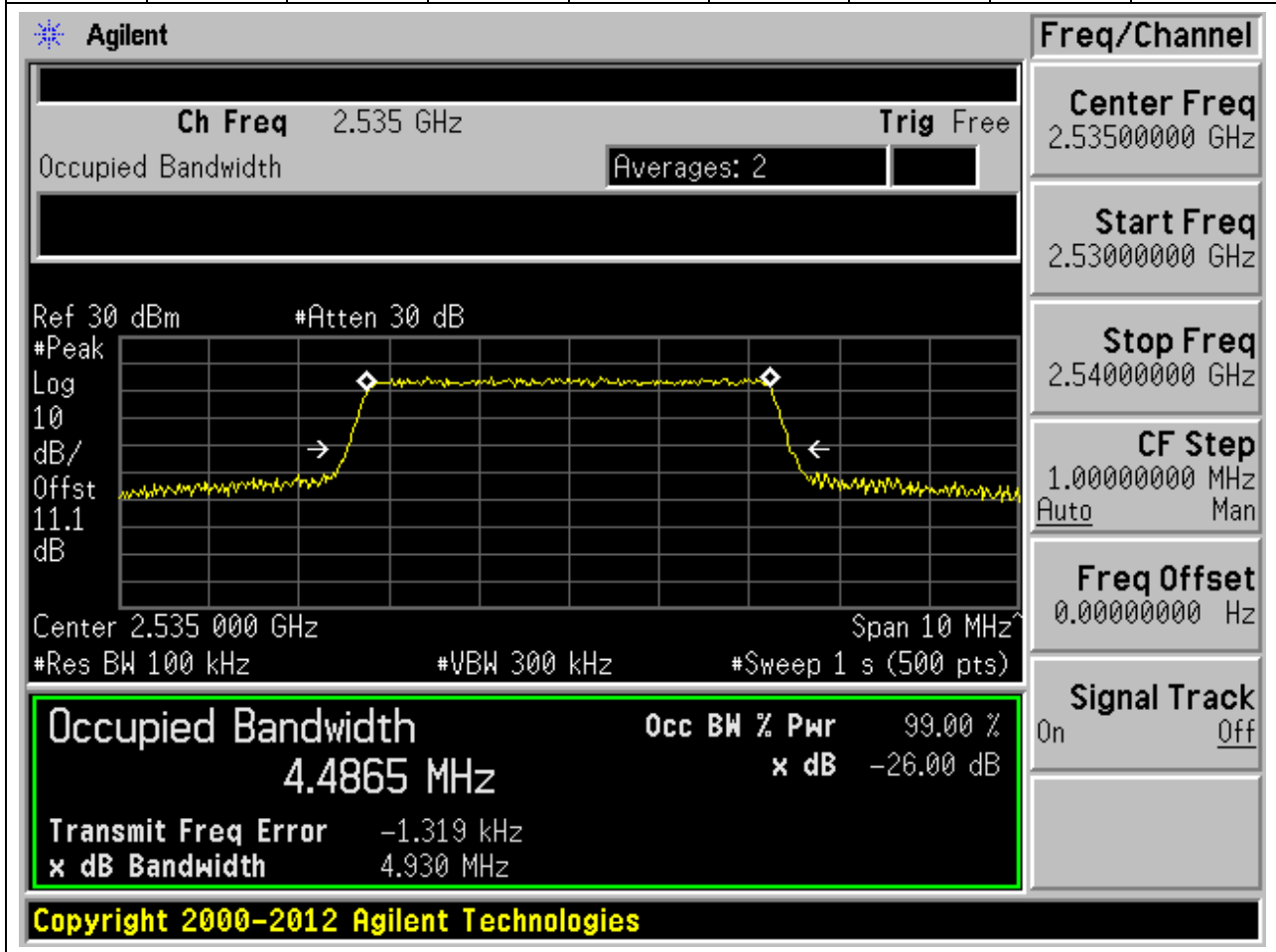
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.535 GHz. The occupied bandwidth is 4.4876 MHz, which is 99.00% of the power. The XdB down is -26.00 dB. The transmit frequency error is -586.700 Hz, and the XdB bandwidth is 4.908 MHz. The interface also shows various settings like Res BW (100 kHz), VBW (300 kHz), and Span (10 MHz).

Occupied Bandwidth		Occ BW % Pwr	99.00 %
4.4876 MHz		x dB	-26.00 dB
Transmit Freq Error		-586.700 Hz	
x dB Bandwidth		4.908 MHz	

**Copyright 2000-2012 Agilent Technologies**

**11.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:21100, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.1	Peak	4.486	4.93	5	Pass



**11.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:21425, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2567.5	99	26	0.1	Peak	4.487	4.922	5	Pass

**Agilent**

Ch Freq 2.5675 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.1 dB

Center 2.567 500 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)

**Occupied Bandwidth 4.4872 MHz**

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 4.574 kHz  
x dB Bandwidth 4.922 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 2.56750000 GHz

Start Freq 2.56250000 GHz

Stop Freq 2.57250000 GHz

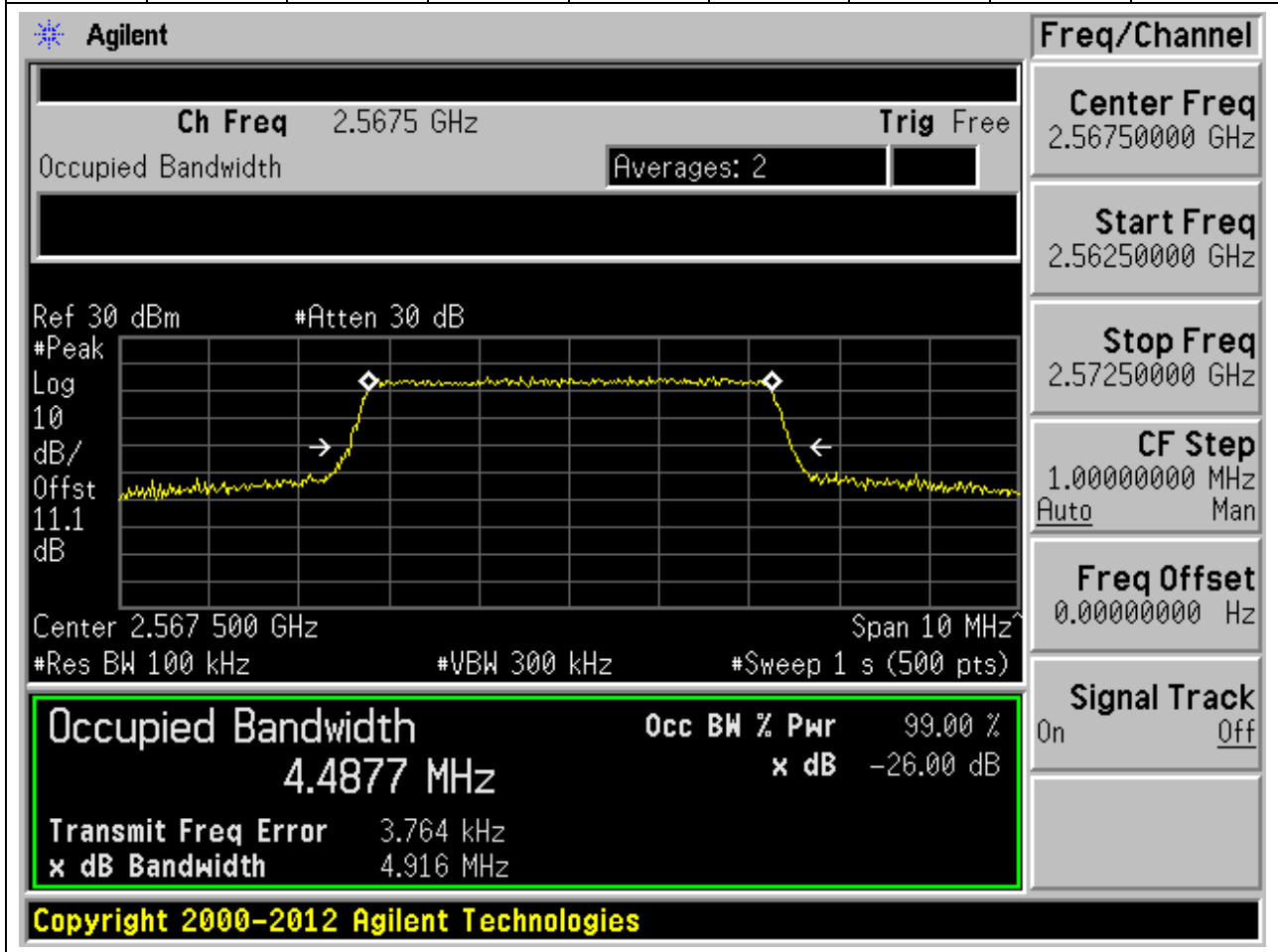
CF Step 1.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

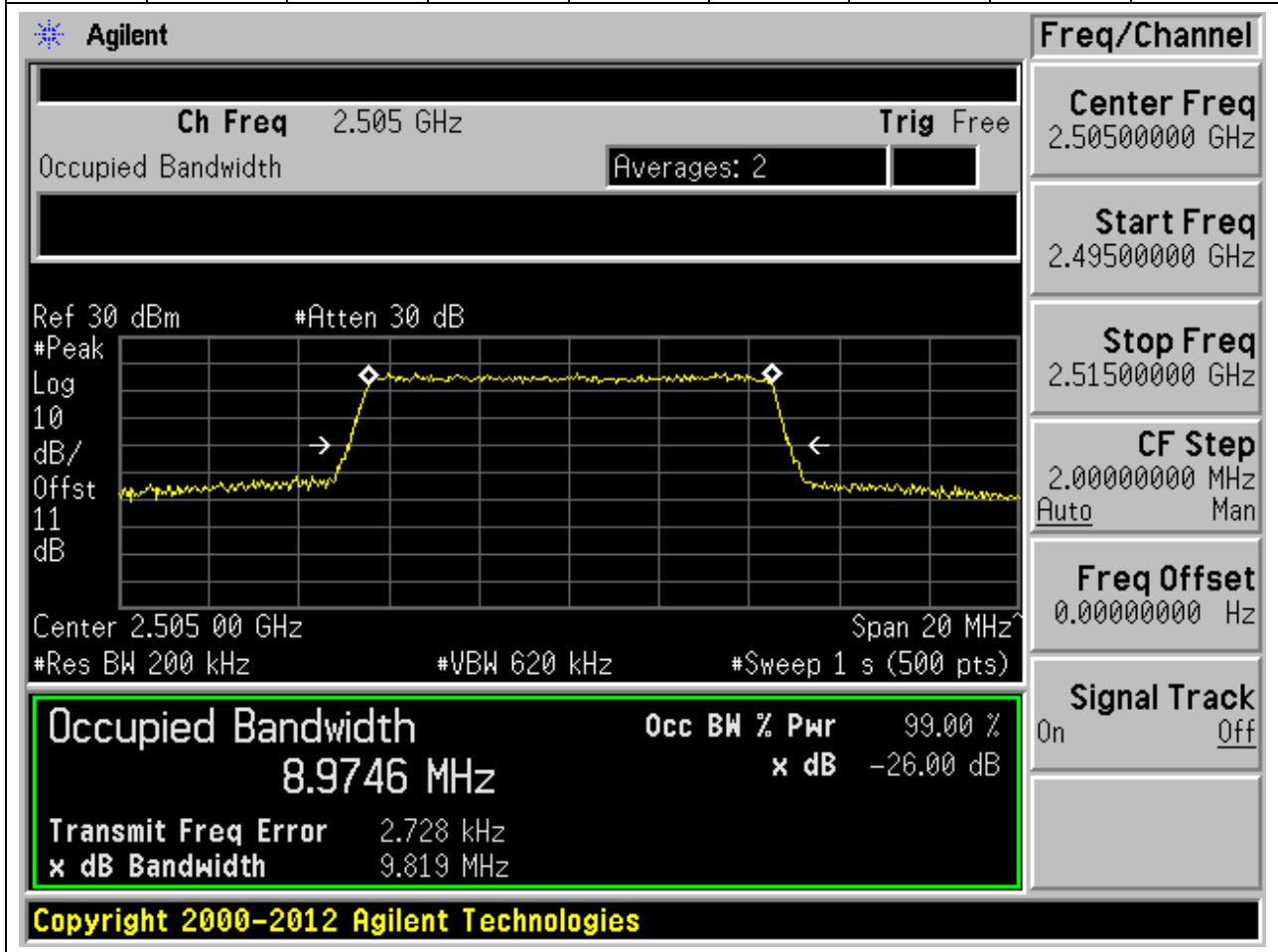
**11.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:21425, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2567.5	99	26	0.1	Peak	4.488	4.916	5	Pass



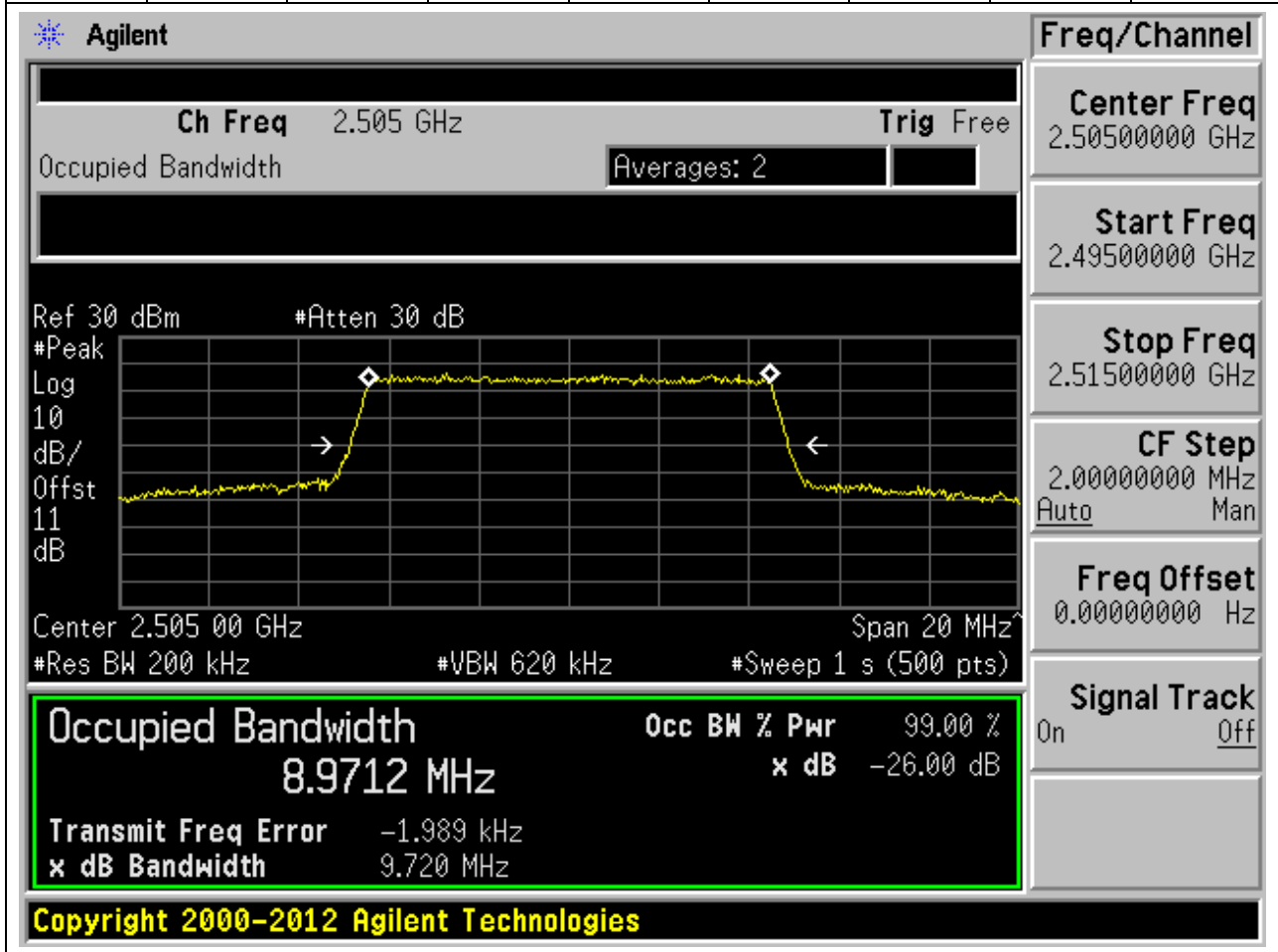
**11.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:20800, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2505	99	26	0.2	Peak	8.975	9.819	10	Pass



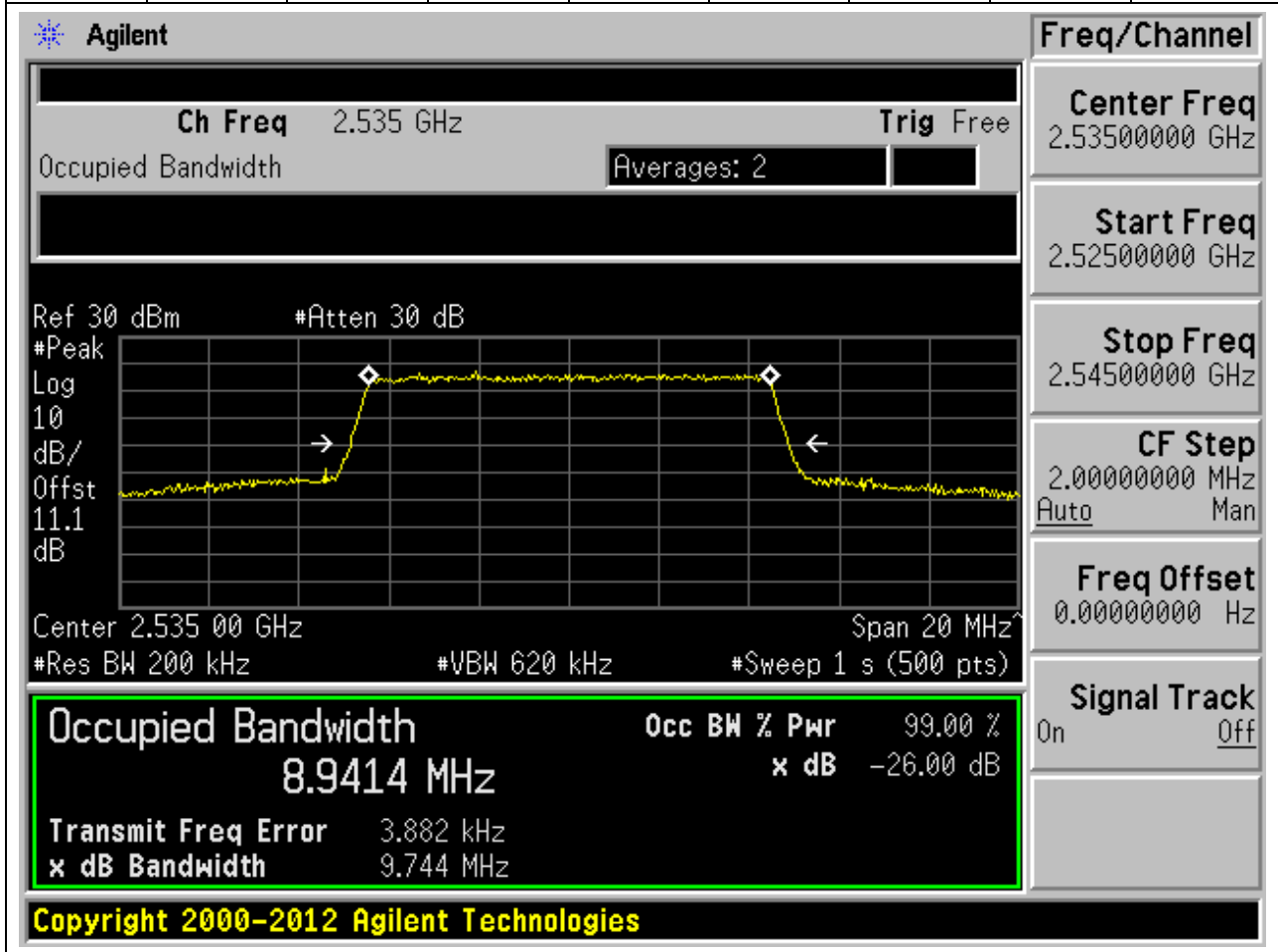
**11.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:20800, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2505	99	26	0.2	Peak	8.971	9.72	10	Pass



**11.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:21100, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.2	Peak	8.941	9.744	10	Pass



**11.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:21100, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.2	Peak	8.945	9.785	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.535 GHz. The occupied bandwidth is 8.9447 MHz, which is 99.00% of the 9.785 MHz bandwidth. The XdB down is -26.00 dB. The transmit frequency error is 7.996 kHz. The interface also shows various settings like Res BW (200 kHz), VBW (620 kHz), and Span (20 MHz).

Occupied Bandwidth		Occ BW % Pwr
8.9447 MHz	99.00 %	
Transmit Freq Error	7.996 kHz	
x dB Bandwidth	9.785 MHz	
	x dB	-26.00 dB

**Copyright 2000-2012 Agilent Technologies**



**11.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:21400, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2565	99	26	0.2	Peak	8.958	9.767	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 2.565 GHz and a span of 20 MHz. The vertical axis is labeled 'dB/Offst' with a value of 11.1 dB. The horizontal axis is labeled 'Span 20 MHz'. The plot shows a signal with a peak at 2.565 GHz. The 'Occupied Bandwidth' is measured as 8.9584 MHz, with a power of 99.00% and a dB value of -26.00 dB. The 'Transmit Freq Error' is -1.718 kHz and the 'x dB Bandwidth' is 9.767 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
8.9584 MHz		x dB	-26.00 dB
Transmit Freq Error		-1.718 kHz	
x dB Bandwidth		9.767 MHz	

**11.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:21400, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

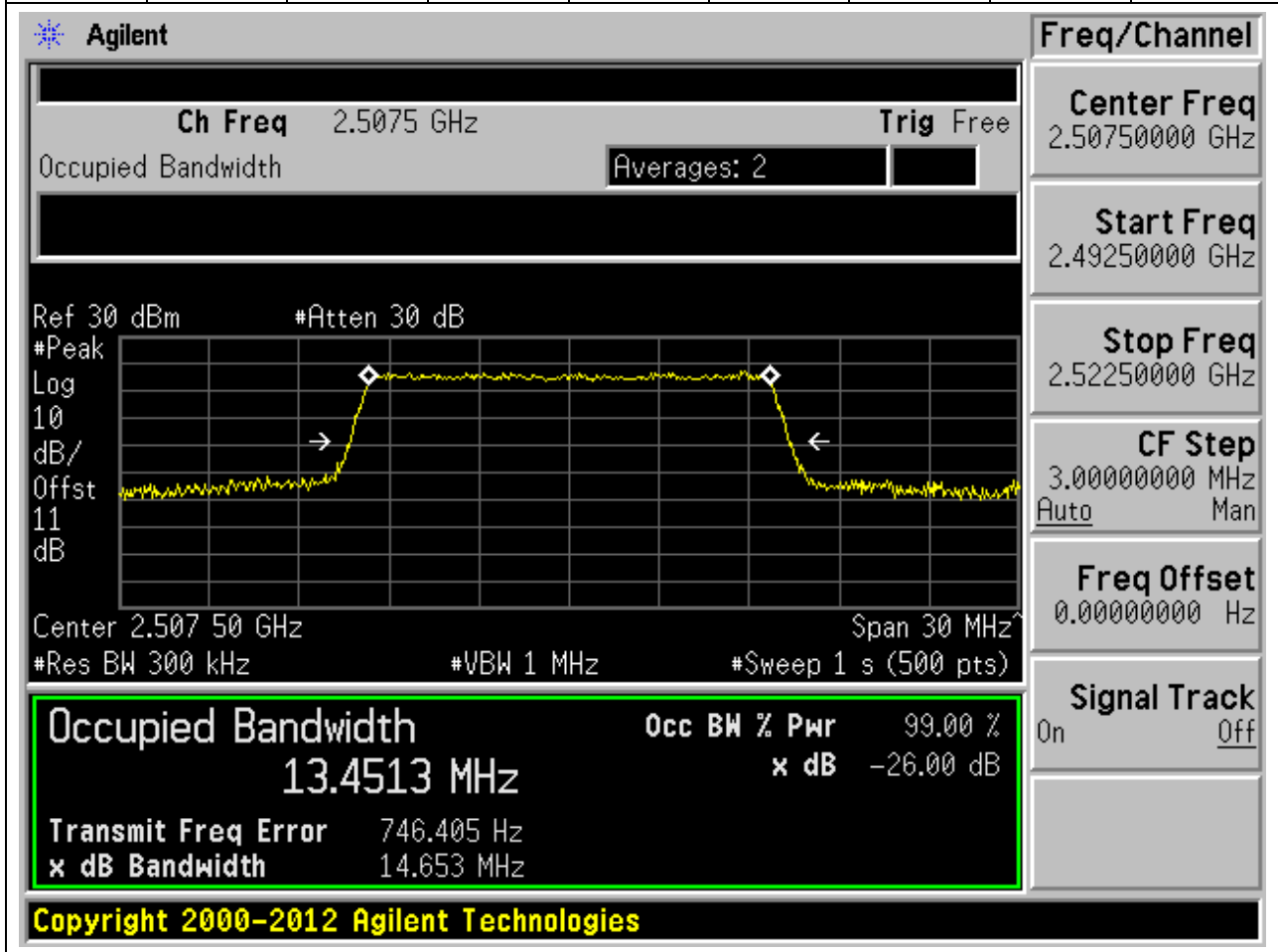
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2565	99	26	0.2	Peak	8.958	9.803	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 2.565 GHz and a span of 20 MHz. The vertical axis is labeled 'dB/Offst' with a value of 11.1 dB. The horizontal axis is labeled 'Span 20 MHz'. The plot shows a signal with a peak at approximately 2.565 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 8.9577 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -633.389 Hz and the 'x dB Bandwidth' is 9.803 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Freq/Channel	
Center Freq	2.56500000 GHz
Start Freq	2.55500000 GHz
Stop Freq	2.57500000 GHz
CF Step	2.00000000 MHz Auto Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

**11.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:20825, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2507.5	99	26	0.3	Peak	13.451	14.653	15	Pass



**11.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:20825, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2507.5	99	26	0.3	Peak	13.463	14.549	15	Pass

**Agilent**

Ch Freq 2.5075 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11 dB

Center 2.507 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**13.4627 MHz** x dB -26.00 dB

Transmit Freq Error 3.454 kHz

x dB Bandwidth 14.549 MHz

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

Center Freq 2.50750000 GHz

Start Freq 2.49250000 GHz

Stop Freq 2.52250000 GHz

CF Step 3.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**11.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:21100, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.3	Peak	13.397	14.587	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a yellow line representing the signal level. The trace is centered at 2.535 GHz with a span of 30 MHz. The signal level is approximately 11.1 dB. The occupied bandwidth is measured as 13.3968 MHz, which is 99.00% of the total bandwidth. The XdB down is -26.00 dB. The transmit frequency error is 12.389 kHz, and the XdB bandwidth is 14.587 MHz. The interface also shows various settings such as Res BW (300 kHz), VBW (1 MHz), and Sweep (1 s (500 pts)).

Occupied Bandwidth		Occ BW % Pwr	99.00 %
13.3968 MHz		x dB	-26.00 dB
Transmit Freq Error	12.389 kHz		
x dB Bandwidth	14.587 MHz		

**Copyright 2000-2012 Agilent Technologies**

**11.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:21100, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.3	Peak	13.417	14.622	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 2.535 GHz and a span of 30 MHz. The vertical axis is labeled 'dB/Offst' with a value of 11.1 dB. The horizontal axis is labeled 'Span 30 MHz'. The plot shows a signal with a peak at 2.535 GHz. The 'Occupied Bandwidth' is measured as 13.4171 MHz, with a power of 99.00% and a -26.00 dB offset. The 'Transmit Freq Error' is 10.078 kHz and the 'x dB Bandwidth' is 14.622 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
13.4171 MHz		x dB	-26.00 dB
Transmit Freq Error	10.078 kHz		
x dB Bandwidth	14.622 MHz		

**11.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:21375, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2562.5	99	26	0.3	Peak	13.433	14.669	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 2.5625 GHz and a span of 30 MHz. The vertical axis is labeled 'dB' and the horizontal axis is labeled 'MHz'. The plot shows a signal with a peak at approximately 2.5625 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 13.4333 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 2.840 kHz and the 'x dB Bandwidth' is 14.669 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Freq/Channel	
Center Freq	2.56250000 GHz
Start Freq	2.54750000 GHz
Stop Freq	2.57750000 GHz
CF Step	3.00000000 MHz Auto Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

**Occupied Bandwidth** 13.4333 MHz

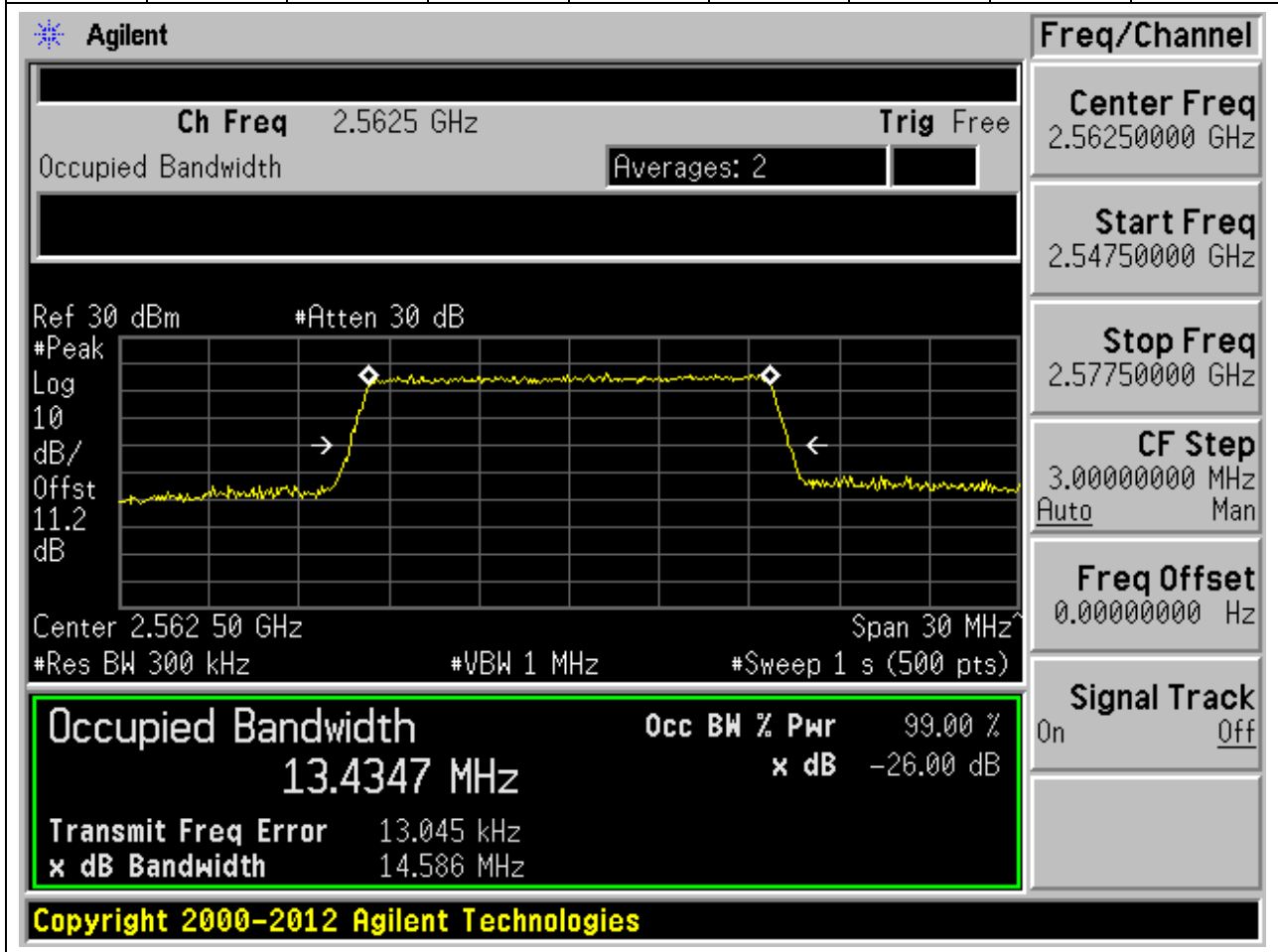
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 2.840 kHz  
x dB Bandwidth 14.669 MHz

Copyright 2000-2012 Agilent Technologies

**11.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:21375, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

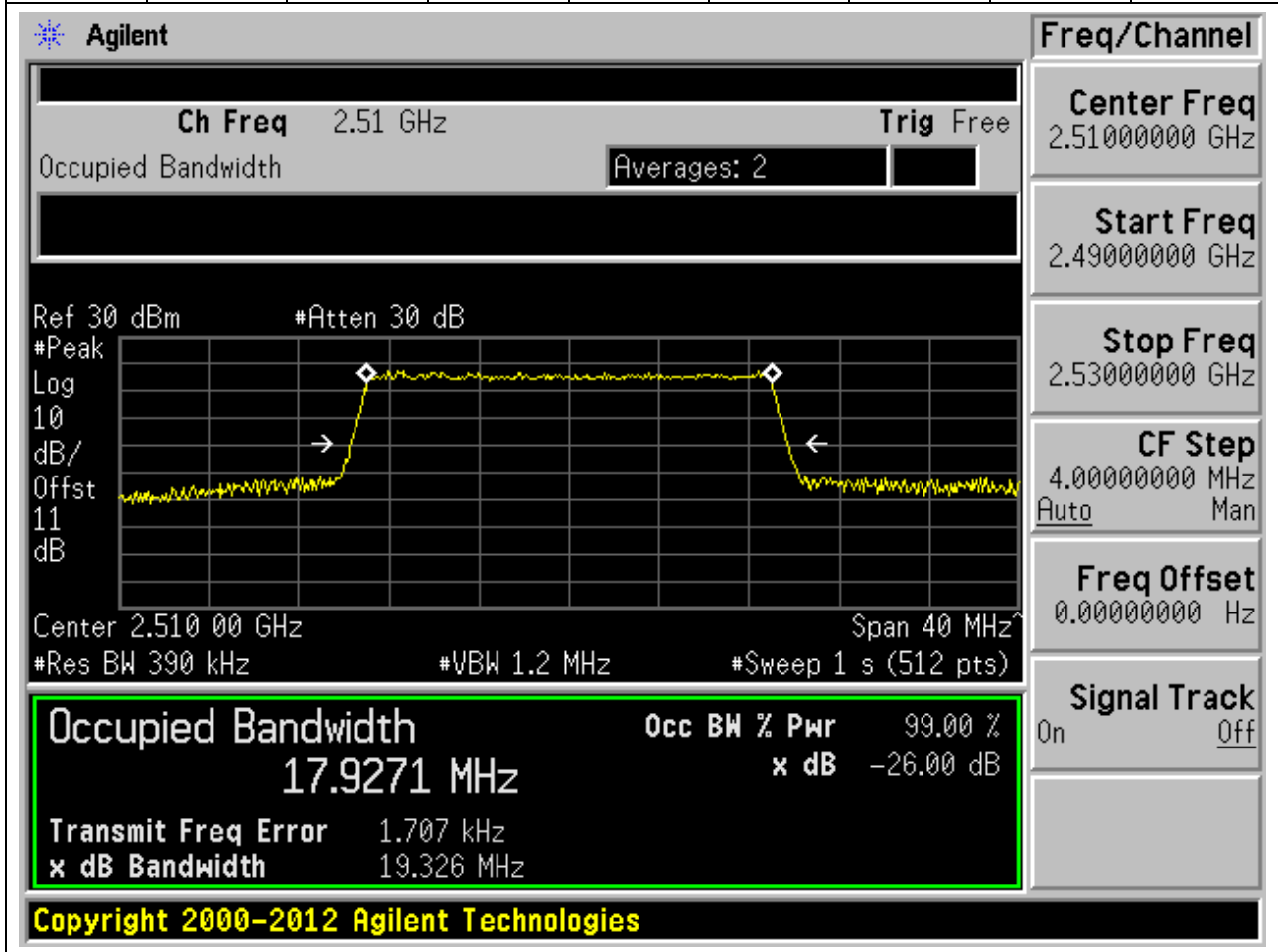
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2562.5	99	26	0.3	Peak	13.435	14.586	15	Pass





**11.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:20850, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2510	99	26	0.39	Peak	17.927	19.326	20	Pass



**11.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2510	99	26	0.39	Peak	17.943	19.415	20	Pass

**Agilent**
**Freq/Channel**

**Ch Freq** 2.51 GHz **Trig** Free

Occupied Bandwidth Averages: 2

**Center Freq**  
2.51000000 GHz

**Start Freq**  
2.49000000 GHz

**Stop Freq**  
2.53000000 GHz

**CF Step**  
4.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

Ref 30 dBm #Atten 30 dB

Center 2.510 00 GHz Span 40 MHz

#Res BW 390 kHz #VBW 1.2 MHz #Sweep 1 s (512 pts)

**Occupied Bandwidth** **Occ BW % Pwr** 99.00 %

**17.9432 MHz** **x dB** -26.00 dB

**Transmit Freq Error** 7.574 kHz

**x dB Bandwidth** 19.415 MHz

Copyright 2000-2012 Agilent Technologies

**11.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:21100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

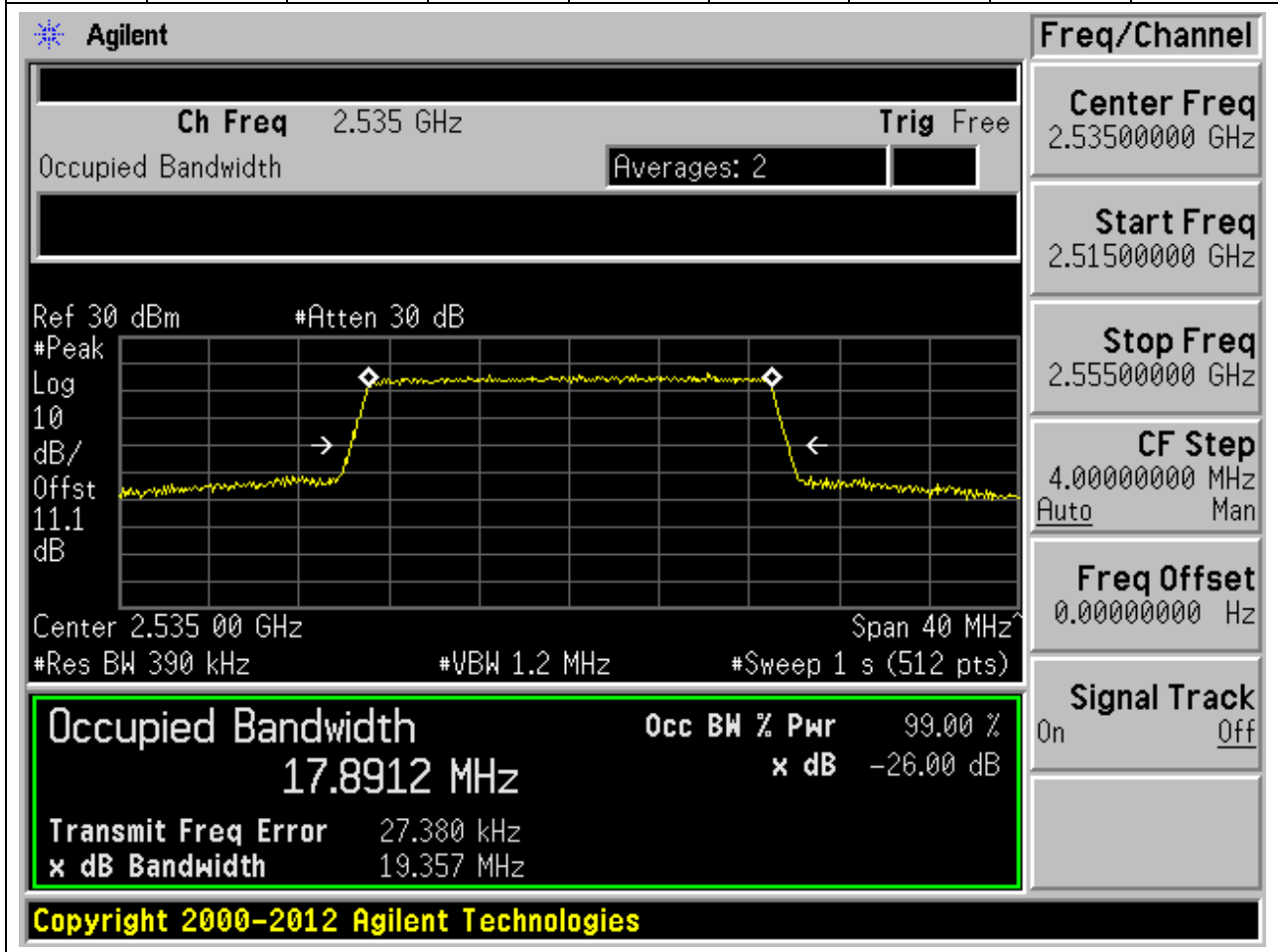
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.39	Peak	17.873	19.308	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 2.535 GHz and a span of 40 MHz. The vertical axis is labeled 'dB' and the horizontal axis is labeled 'MHz'. The plot shows a signal with a peak at approximately 2.535 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 17.8726 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 36.088 kHz and the 'x dB Bandwidth' is 19.308 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
17.8726 MHz		x dB	-26.00 dB
Transmit Freq Error	36.088 kHz		
x dB Bandwidth	19.308 MHz		

**11.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:21100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.39	Peak	17.891	19.357	20	Pass



**11.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:21350, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2560	99	26	0.39	Peak	17.987	19.416	20	Pass

**Agilent**

Ch Freq 2.56 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Peak Log dB/Offst 10.1 dB

#Atten 30 dB

Center 2.560 00 GHz Span 40 MHz

#Res BW 390 kHz #VBW 1.2 MHz #Sweep 20 s (512 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %  
**17.9869 MHz** x dB -26.00 dB

Transmit Freq Error 16.036 kHz  
x dB Bandwidth 19.416 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 2.56000000 GHz

Start Freq 2.54000000 GHz

Stop Freq 2.58000000 GHz

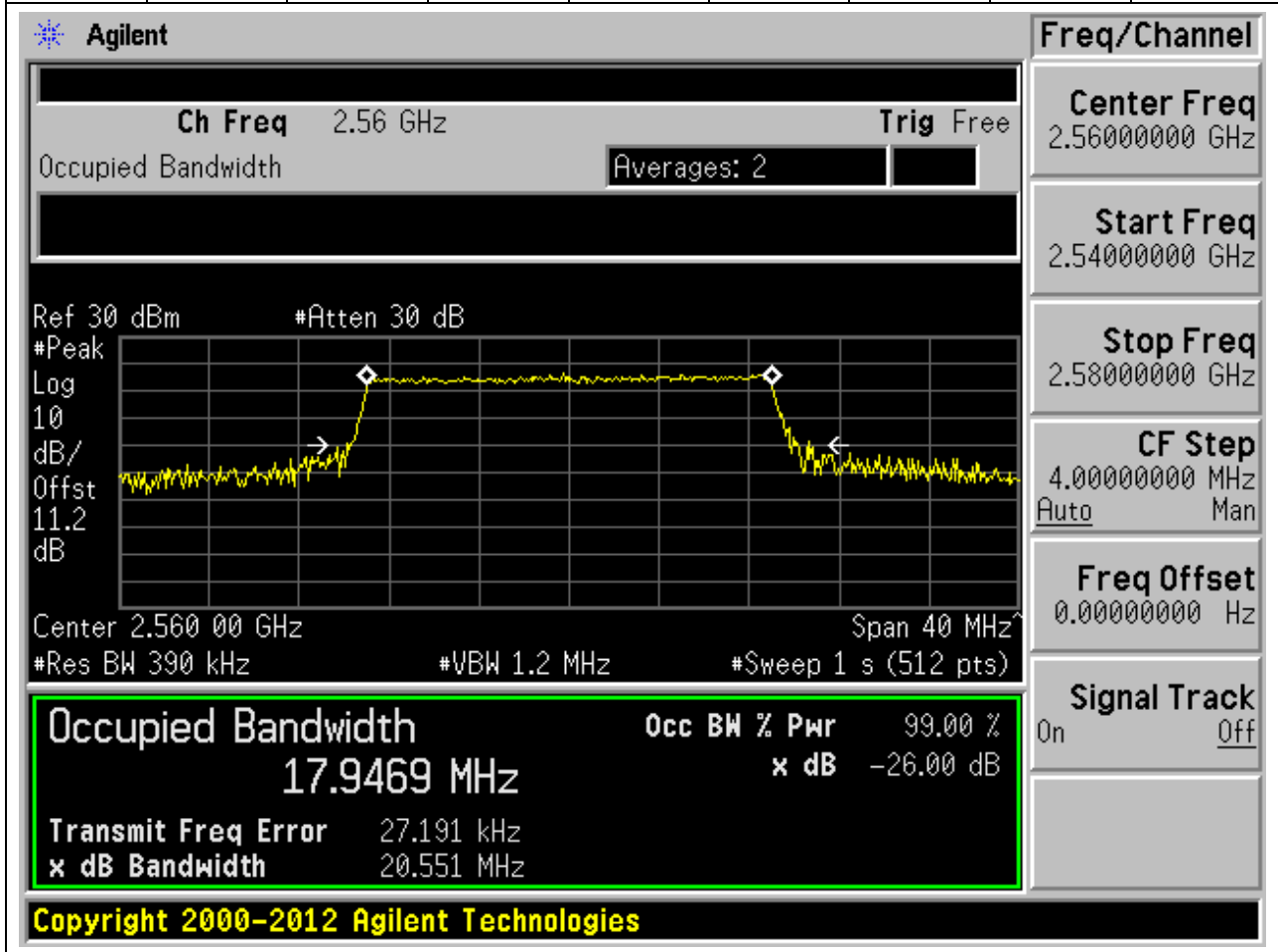
CF Step 4.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

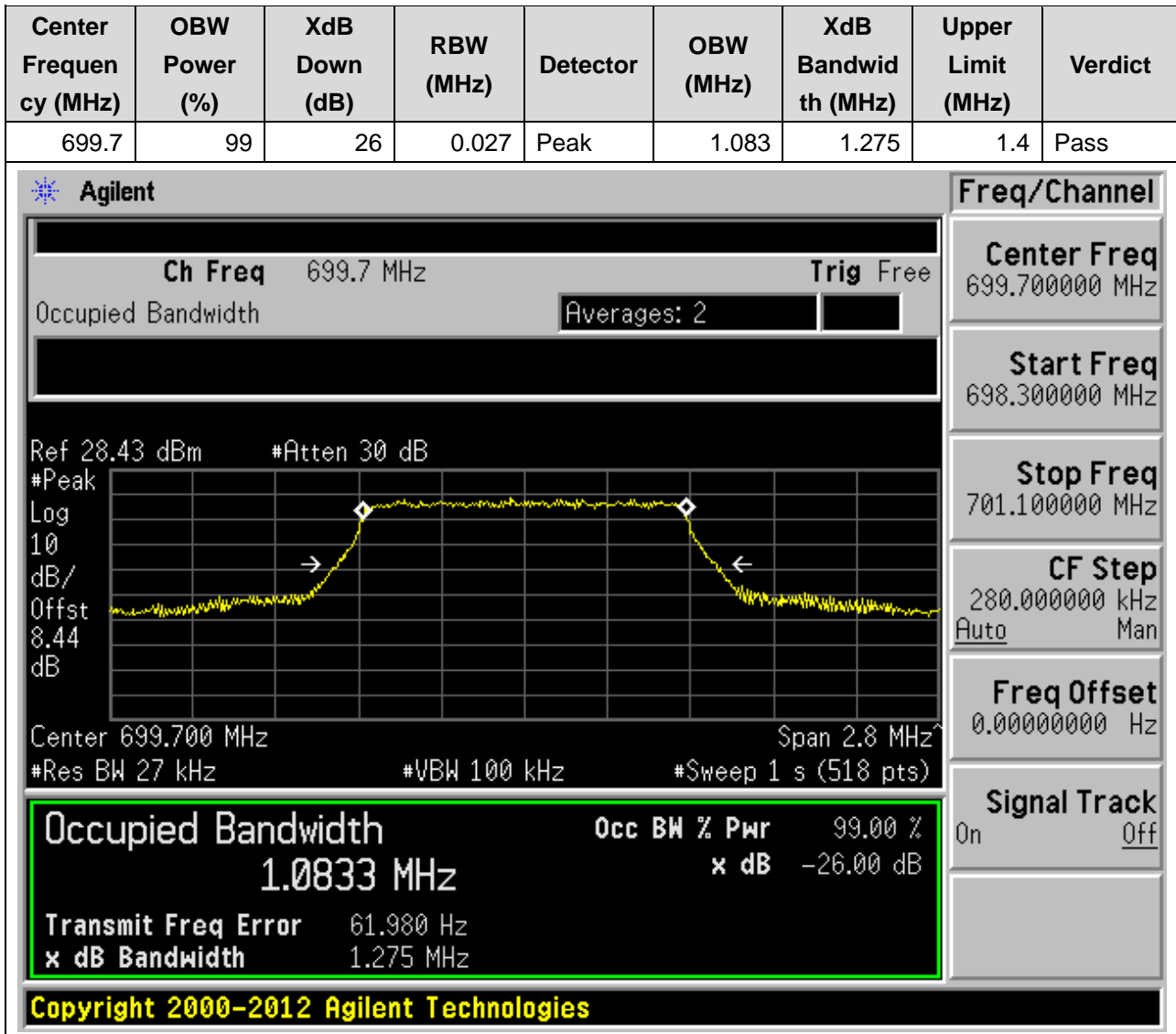
**11.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:21350, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2560	99	26	0.39	Peak	17.947	20.551	20	Pass



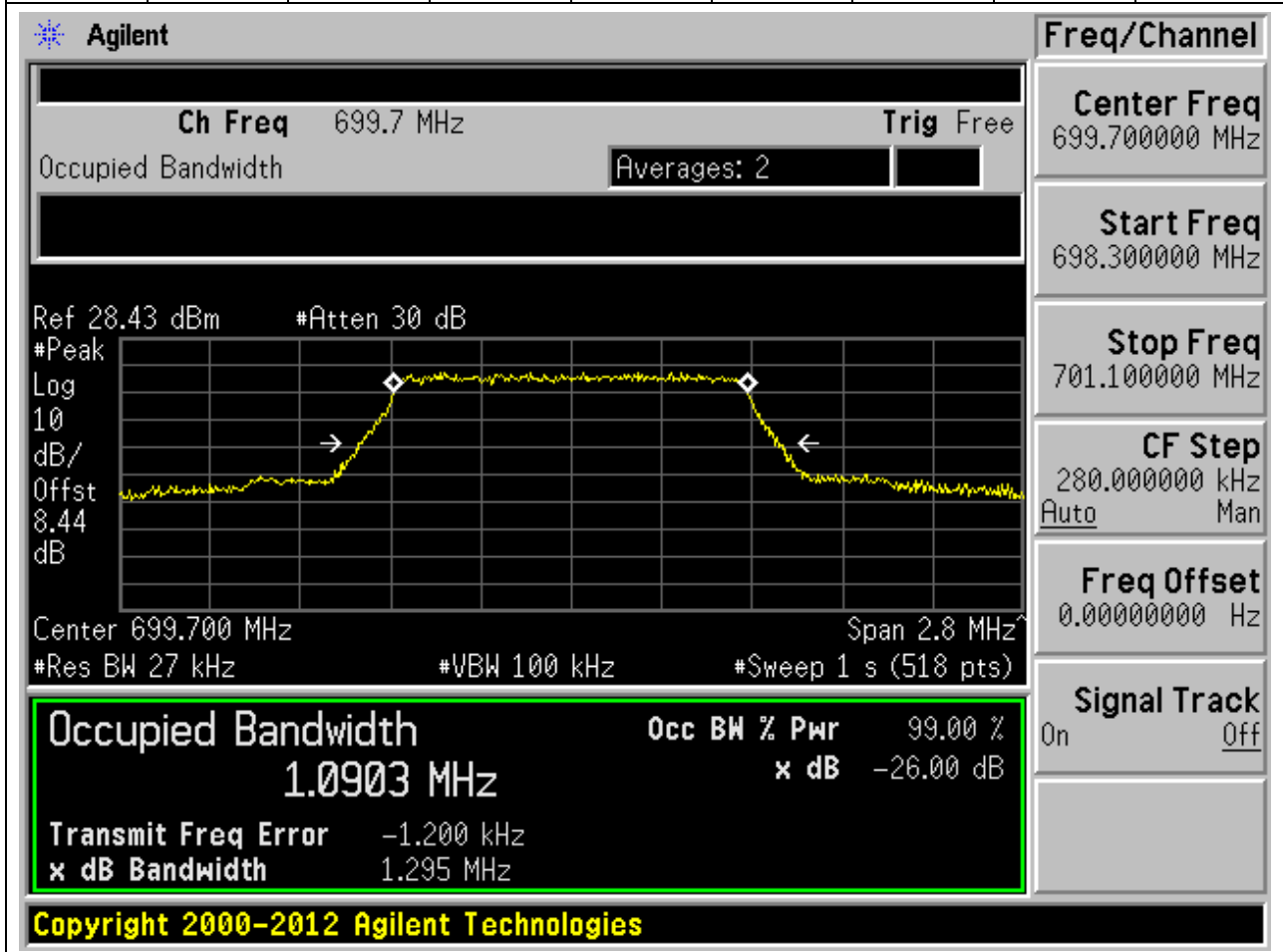
## 12. LTE\_Band12

### 12.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:23017, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



**12.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:23017, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

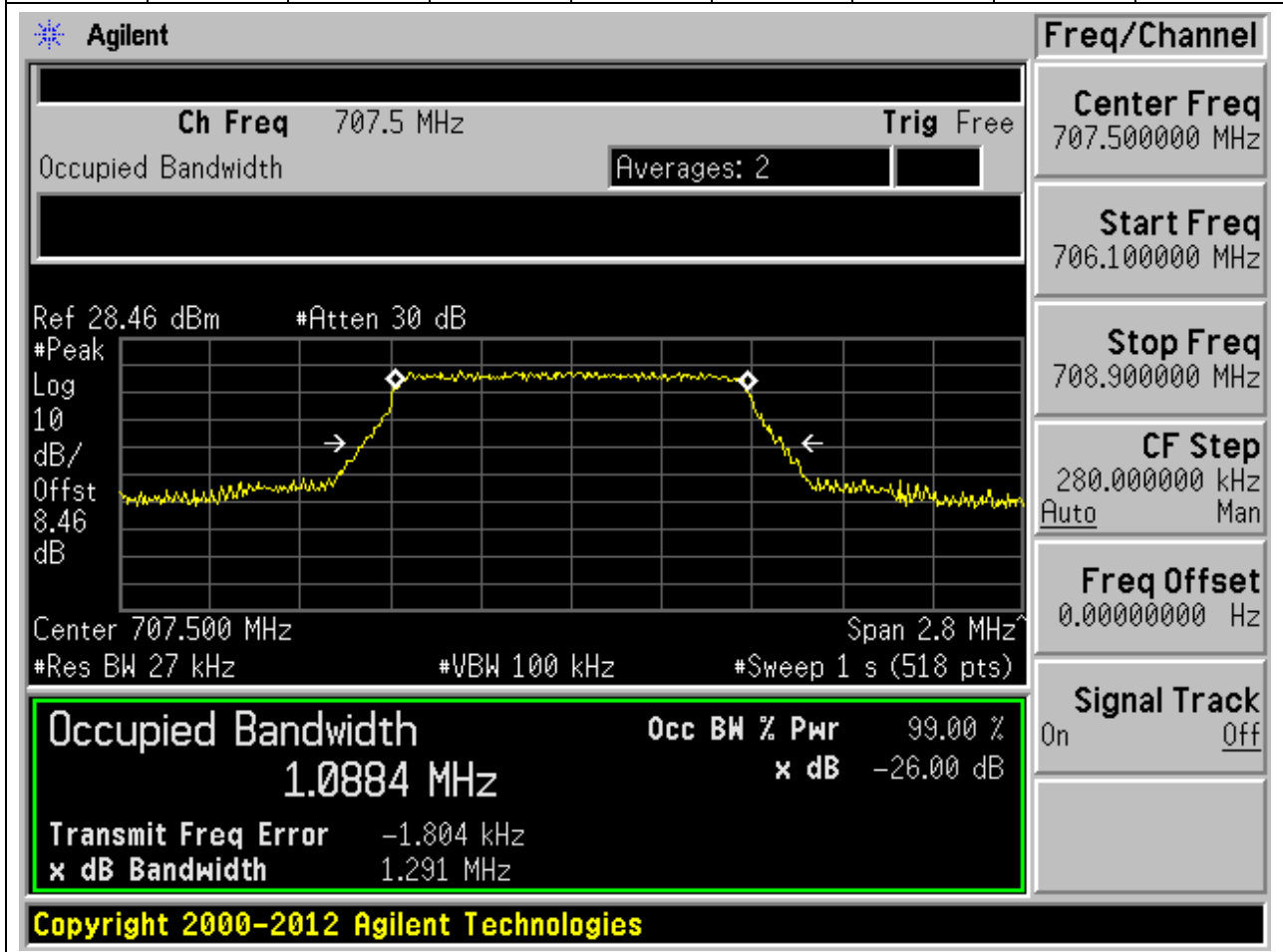
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
699.7	99	26	0.027	Peak	1.09	1.295	1.4	Pass





**12.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:23095, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
707.5	99	26	0.027	Peak	1.088	1.291	1.4	Pass



**12.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:23095, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
707.5	99	26	0.027	Peak	1.084	1.266	1.4	Pass

Agilent
Freq/Channel

Ch Freq 707.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.46 dBm #Atten 30 dB

Center 707.500 MHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)

Center Freq  
707.500000 MHz

Start Freq  
706.100000 MHz

Stop Freq  
708.900000 MHz

CF Step  
280.000000 kHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

**Occupied Bandwidth**

**1.0837 MHz**

Occ BW % Pwr 99.00 %

x dB -26.00 dB

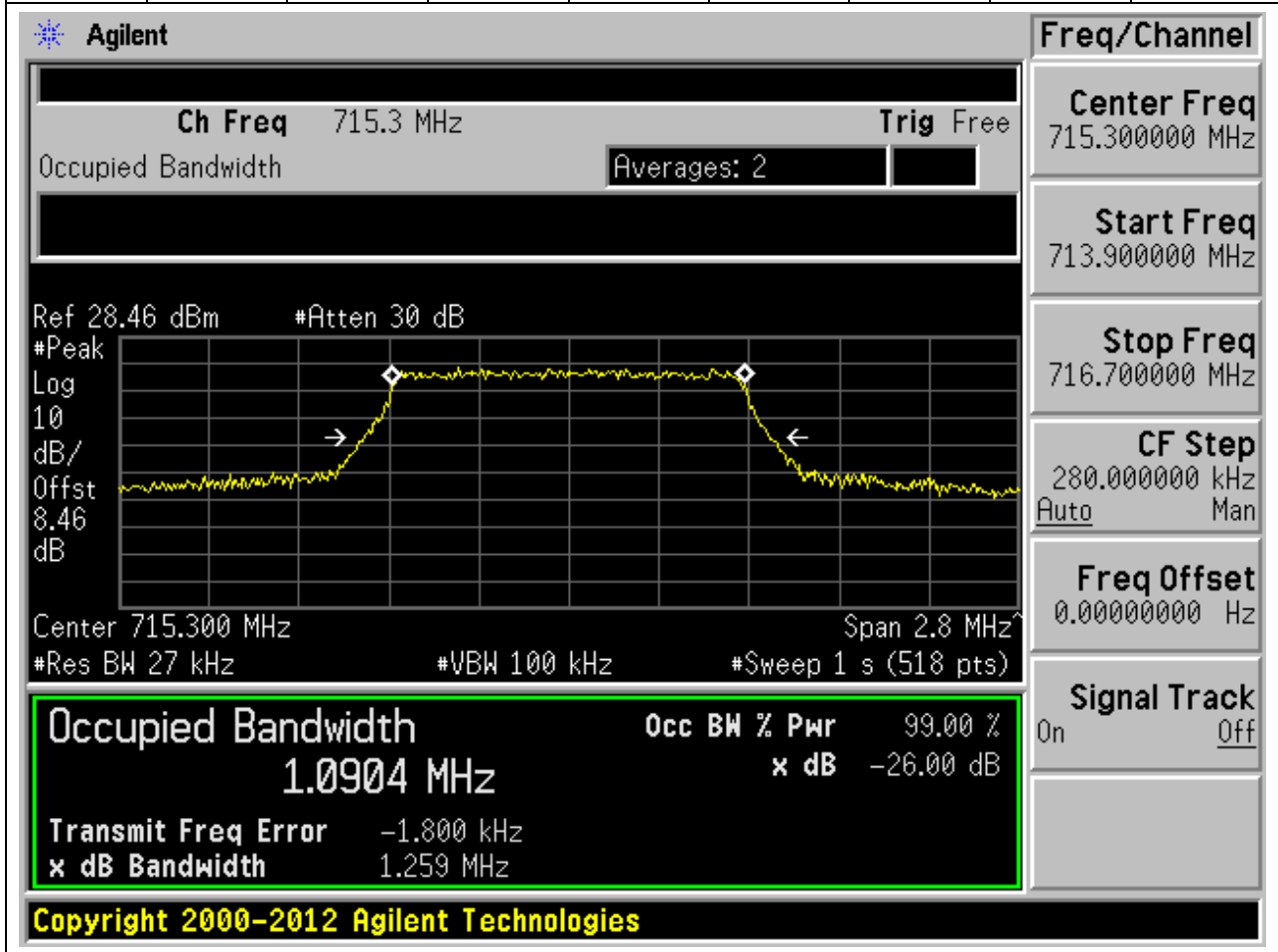
Transmit Freq Error -1.528 kHz

x dB Bandwidth 1.266 MHz

Copyright 2000-2012 Agilent Technologies

**12.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:23173, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
715.3	99	26	0.027	Peak	1.09	1.259	1.4	Pass



**12.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:23173, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
715.3	99	26	0.027	Peak	1.087	1.267	1.4	Pass

**Agilent**

Ch Freq 715.3 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.46 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.46 dB

Center 715.300 MHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)

**Occupied Bandwidth** 1.0872 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -230.741 Hz

x dB Bandwidth 1.267 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 715.300000 MHz

Start Freq 713.900000 MHz

Stop Freq 716.700000 MHz

CF Step 280.000000 kHz Auto Man

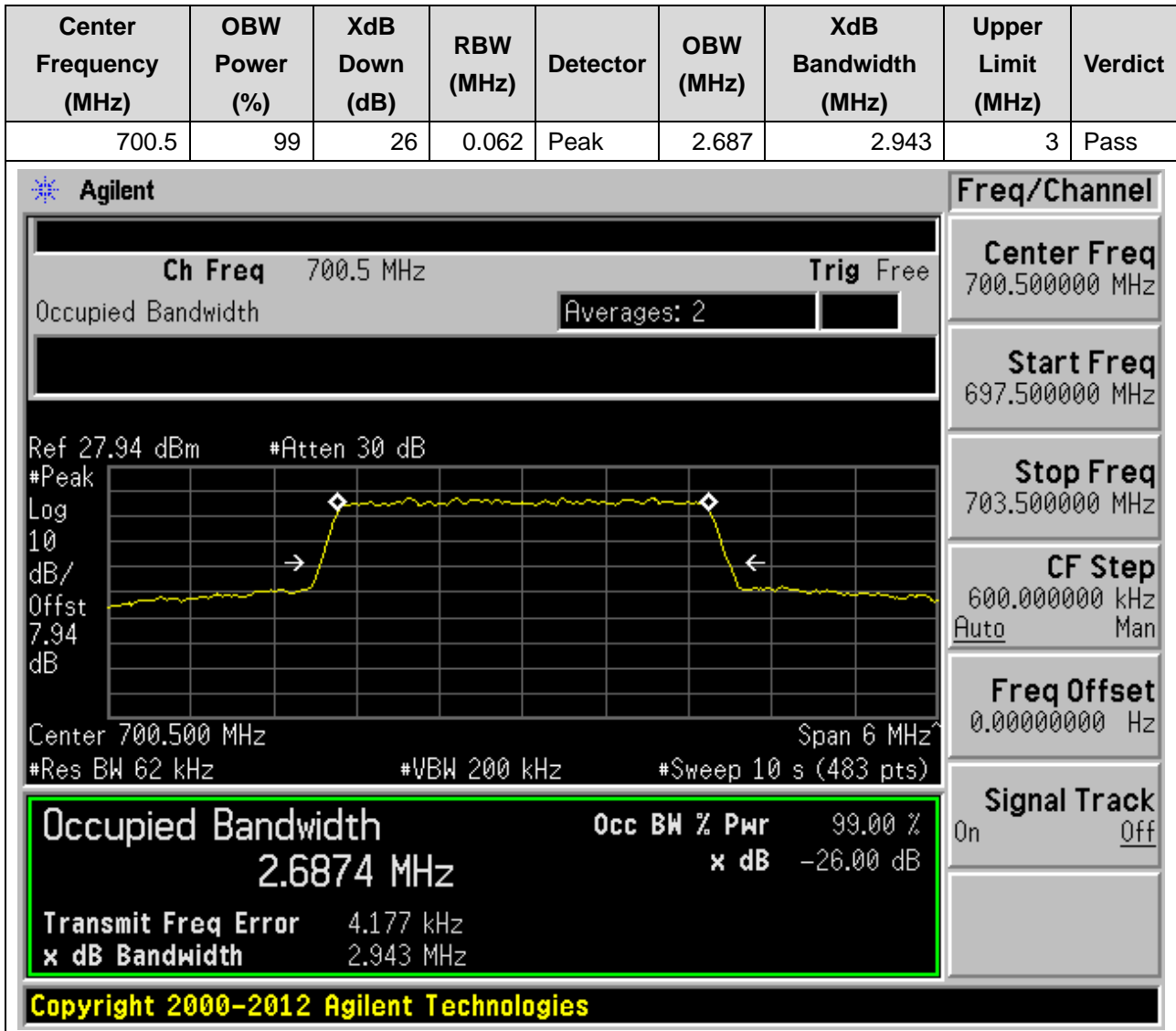
Freq Offset 0.00000000 Hz

Signal Track On Off

**12.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:23025, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



**12.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:23025, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



**12.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:23095, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
707.5	99	26	0.062	Peak	2.685	2.91	3	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace representing the signal. The plot is centered at 707.500 MHz with a span of 6 MHz. The resolution bandwidth (RBW) is 62 kHz, and the video bandwidth (VBW) is 200 kHz. The sweep time is 1 second, resulting in 483 points. The signal level is approximately 28.46 dBm, and the attenuation is 30 dB. The occupied bandwidth is measured as 2.6850 MHz, which is 99.00% of the power. The XdB bandwidth is 2.910 MHz, and the XdB down is -26.00 dB. The transmit frequency error is -52.369 Hz. The signal track is currently off.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
2.6850 MHz		x dB	-26.00 dB
Transmit Freq Error	-52.369 Hz		
x dB Bandwidth	2.910 MHz		

**Copyright 2000-2012 Agilent Technologies**

**12.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:23095, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
707.5	99	26	0.062	Peak	2.684	2.911	3	Pass

**Agilent**

Ch Freq 707.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.46 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.46 dB

Center 707.500 MHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

**Occupied Bandwidth 2.6840 MHz**

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error -4.444 kHz  
x dB Bandwidth 2.911 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 707.500000 MHz

Start Freq 704.500000 MHz

Stop Freq 710.500000 MHz

CF Step 600.000000 kHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off



**12.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:23165, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

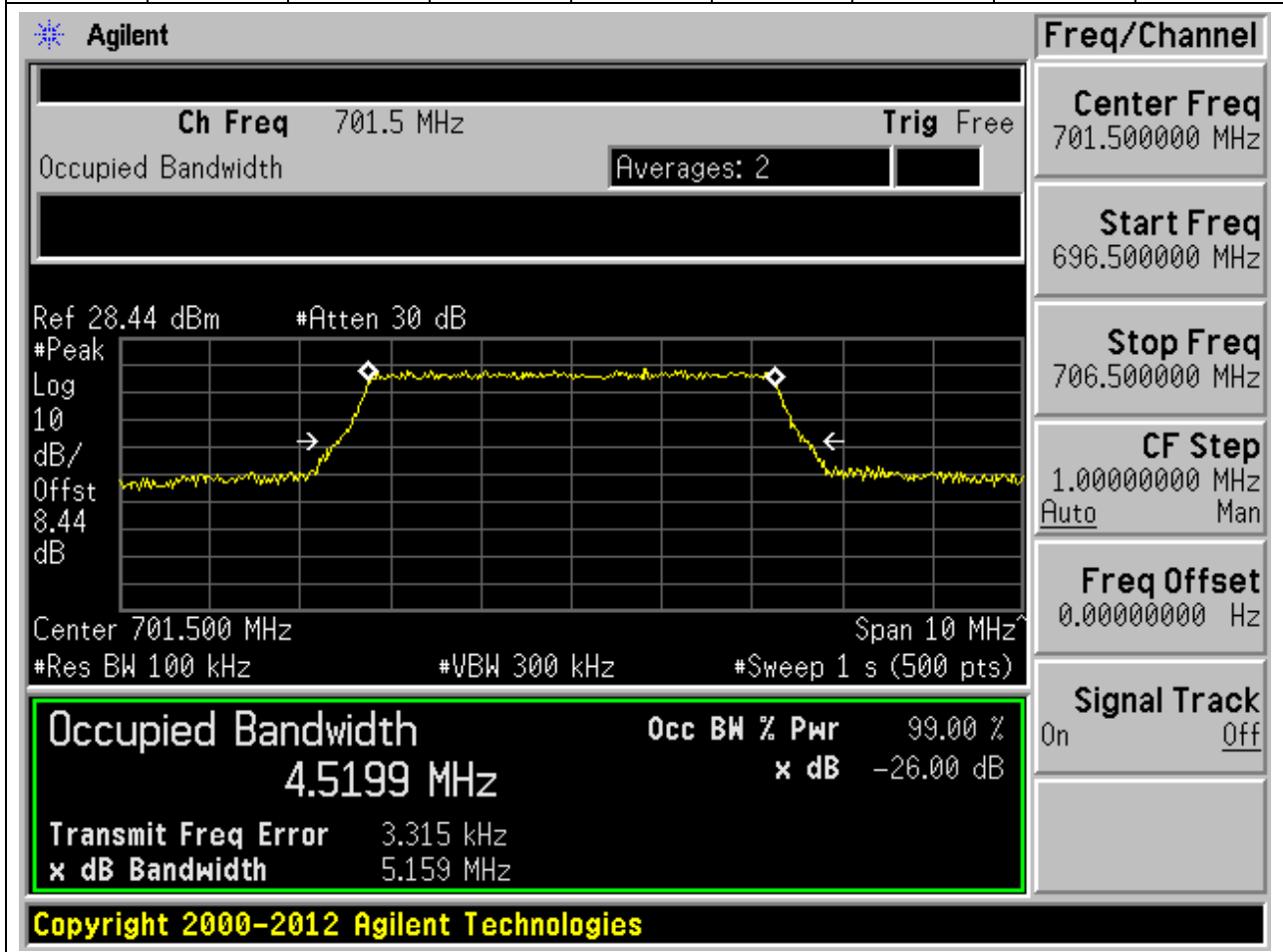


**12.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:23165, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



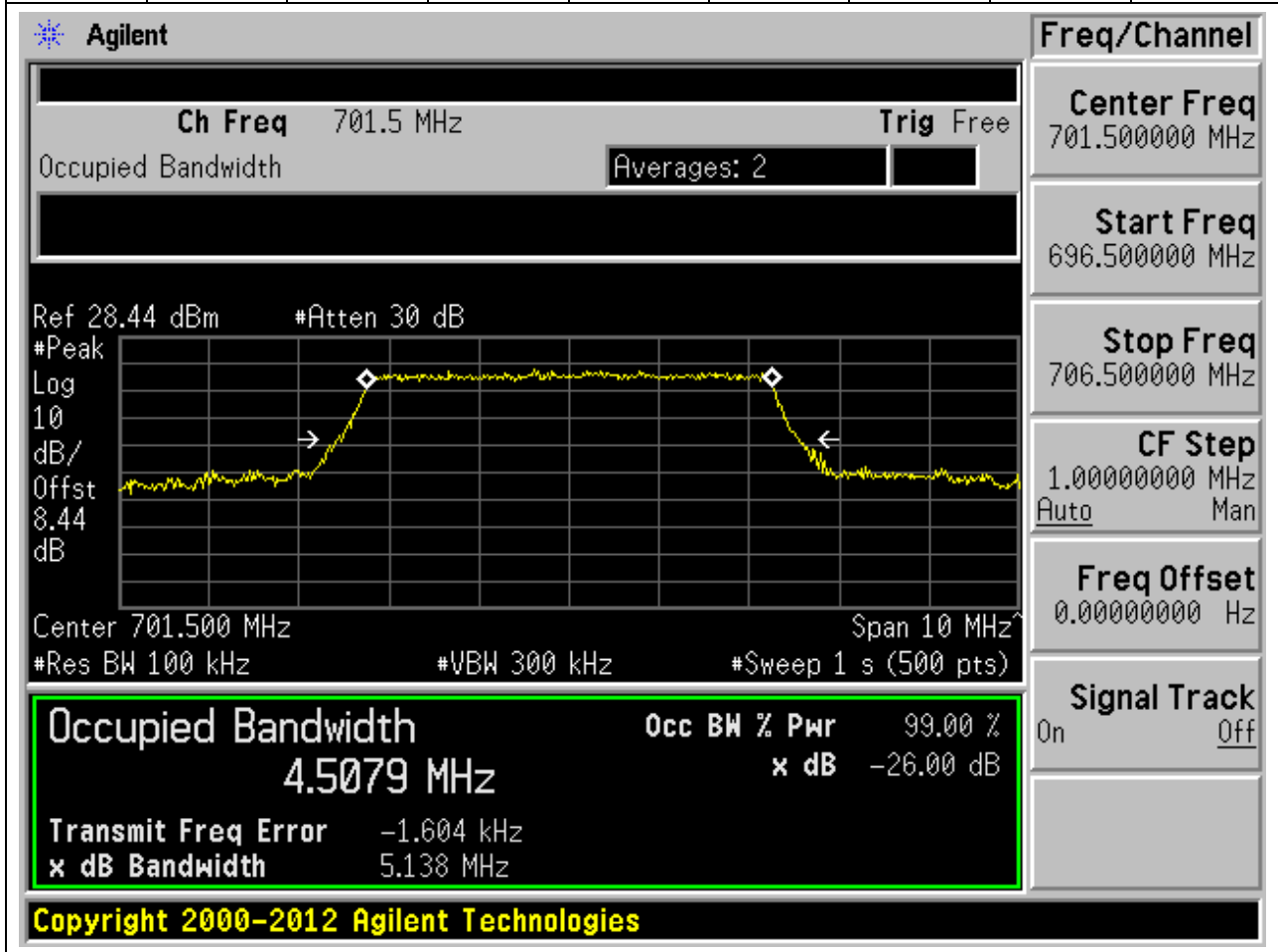
**12.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:23035, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
701.5	99	26	0.1	Peak	4.52	5.159	5	Pass



**12.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:23035, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
701.5	99	26	0.1	Peak	4.508	5.138	5	Pass



**12.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:23095, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
707.5	99	26	0.1	Peak	4.509	5.143	5	Pass

**Agilent**

Ch Freq 707.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.46 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.46 dB

Center 707.500 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

4.5091 MHz x dB -26.00 dB

Transmit Freq Error -3.238 kHz

x dB Bandwidth 5.143 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 707.500000 MHz

Start Freq 702.500000 MHz

Stop Freq 712.500000 MHz

CF Step 1.00000000 MHz

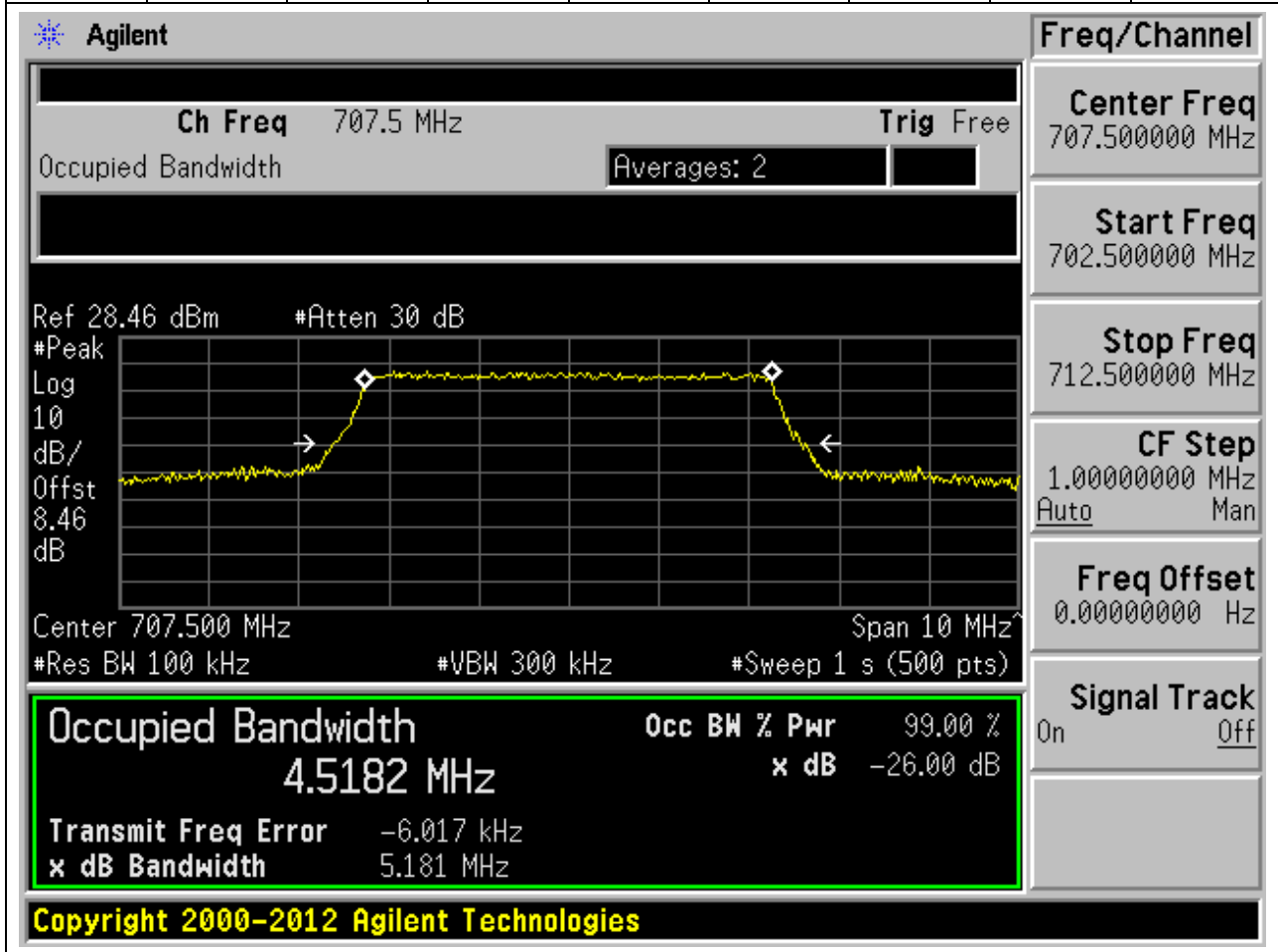
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

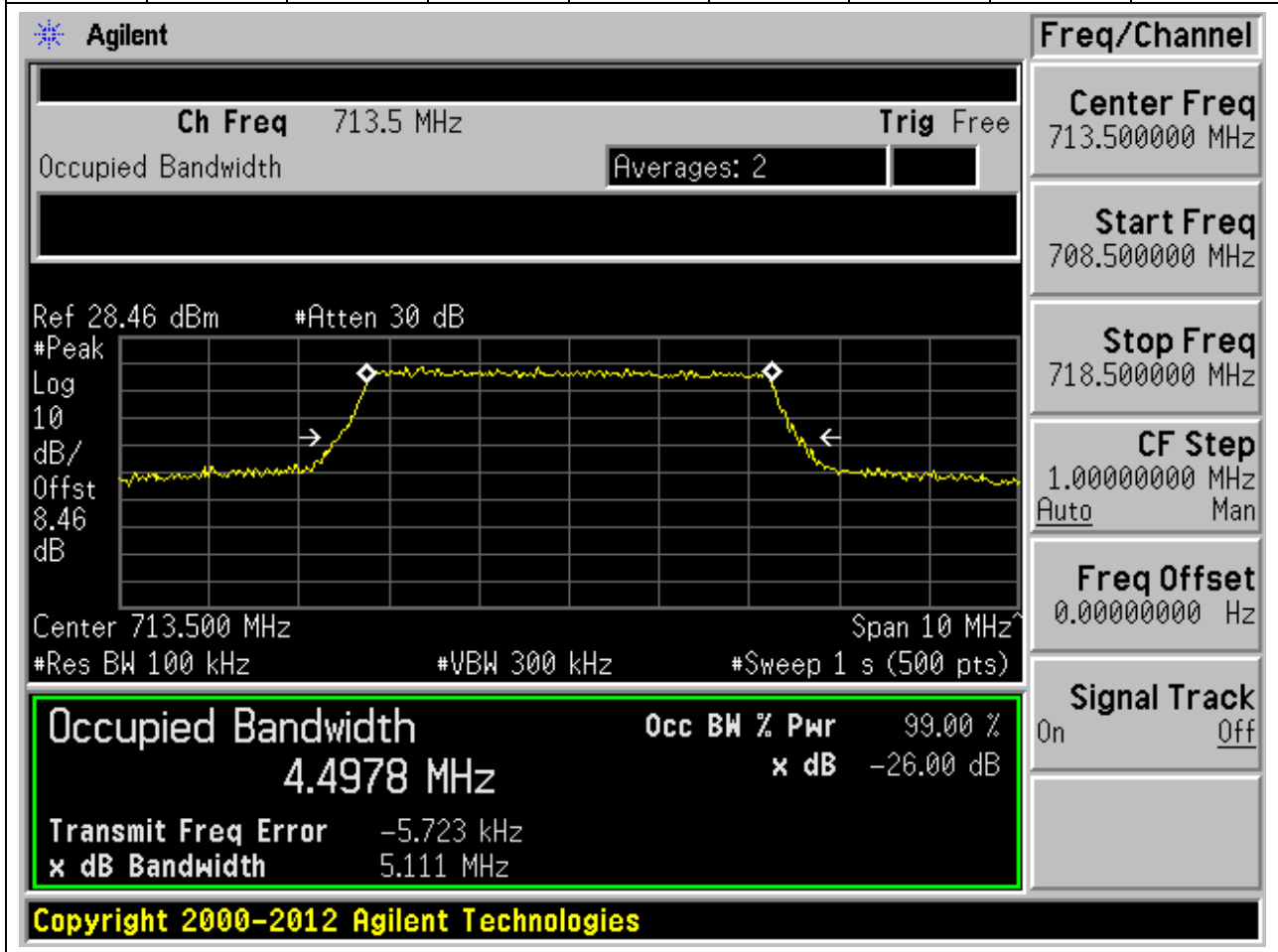
**12.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:23095, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
707.5	99	26	0.1	Peak	4.518	5.181	5	Pass



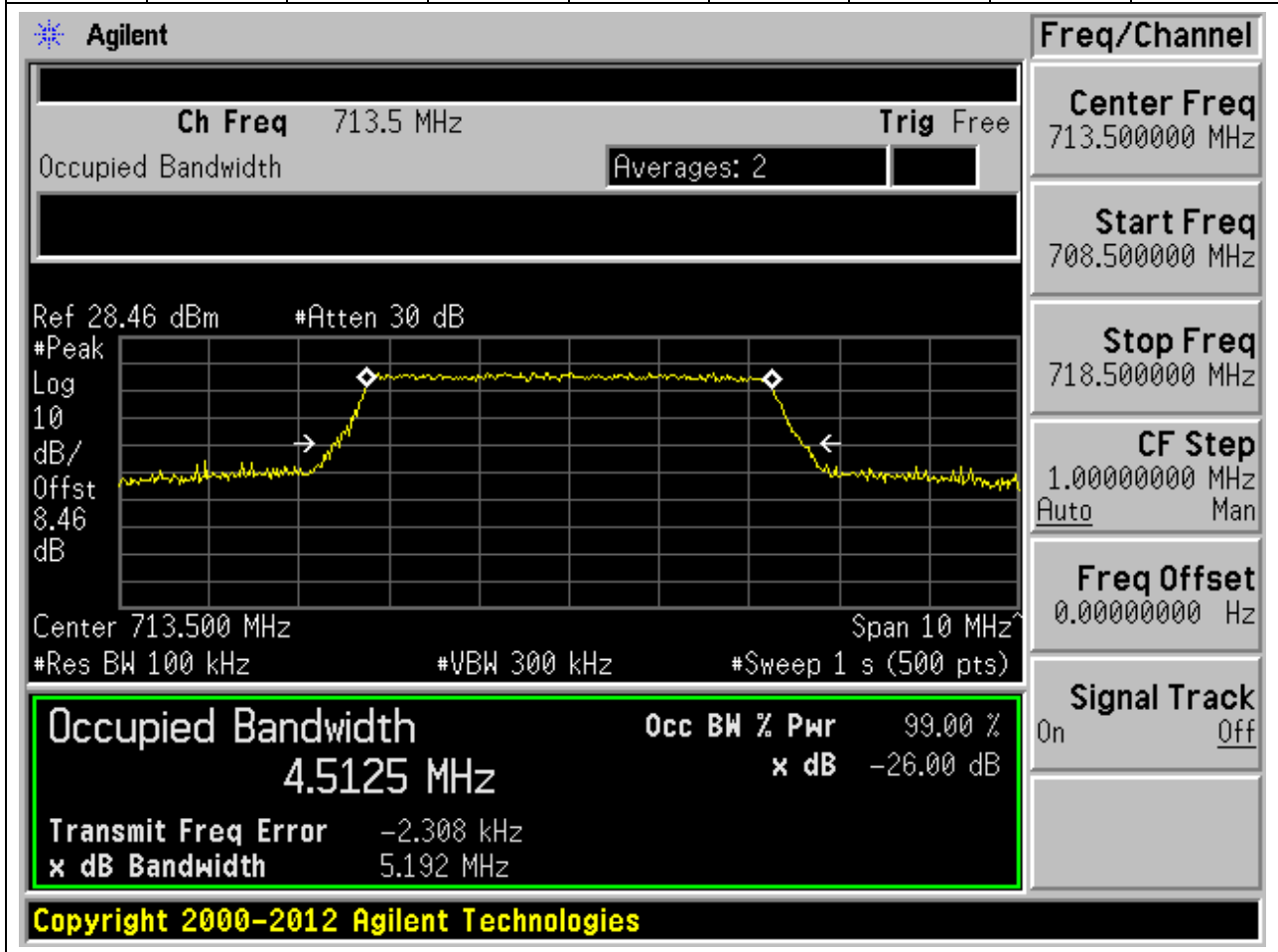
**12.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:23155, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
713.5	99	26	0.1	Peak	4.498	5.111	5	Pass



**12.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:23155, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

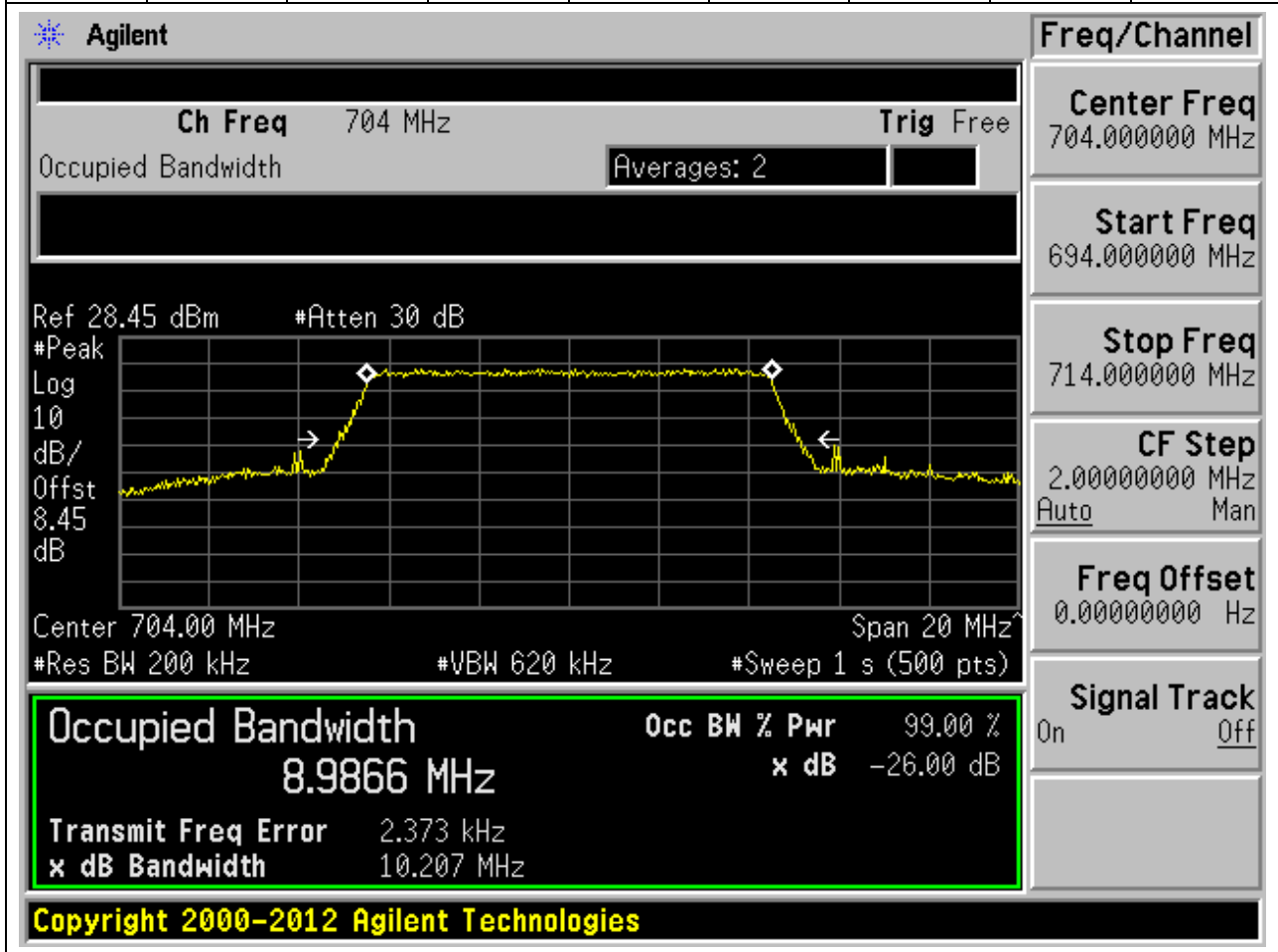
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
713.5	99	26	0.1	Peak	4.512	5.192	5	Pass





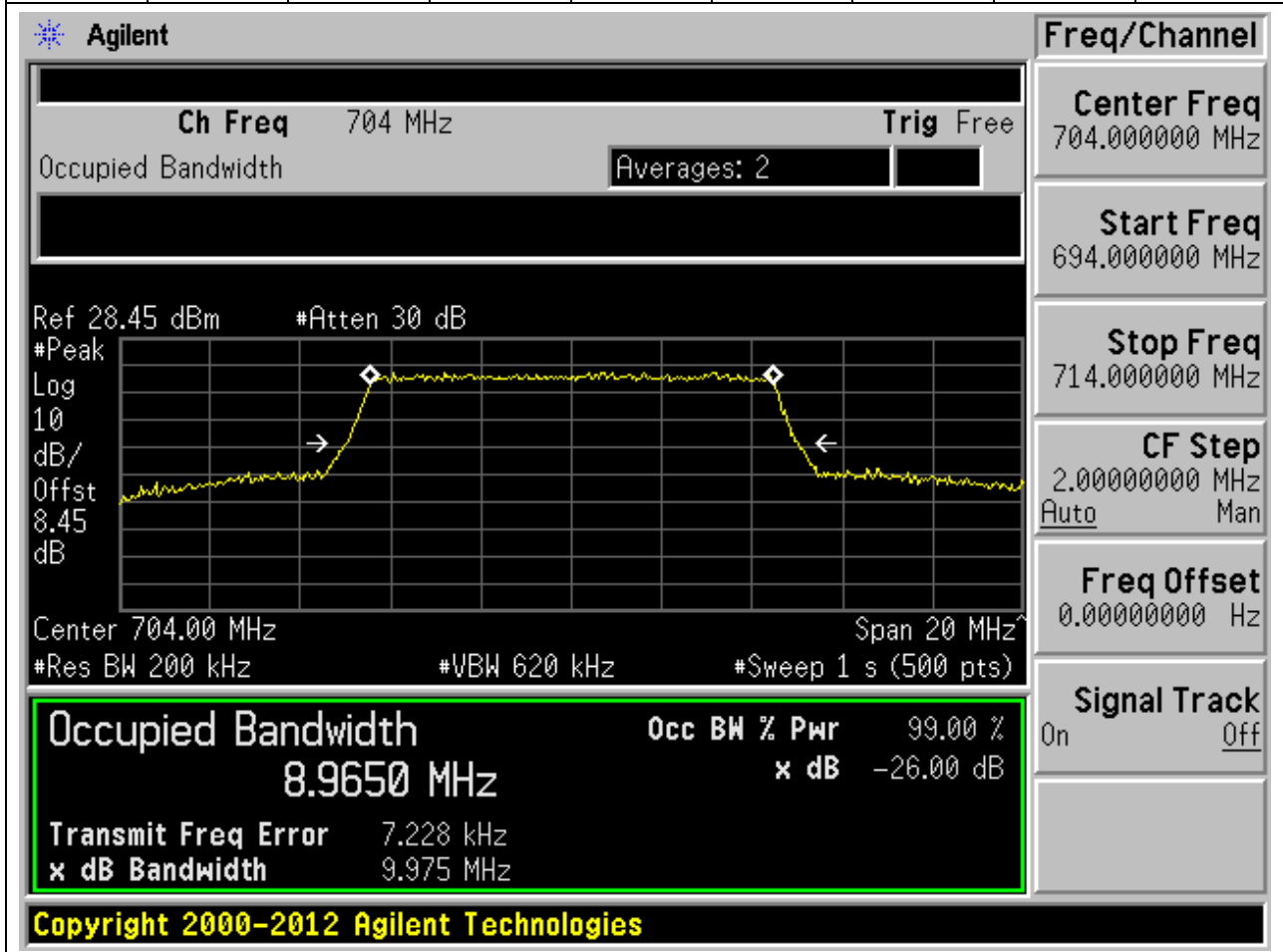
**12.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:23060, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
704	99	26	0.2	Peak	8.987	10.207	10	Pass



**12.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:23060, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
704	99	26	0.2	Peak	8.965	9.975	10	Pass



**12.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:23095, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
707.5	99	26	0.2	Peak	8.976	10.061	10	Pass

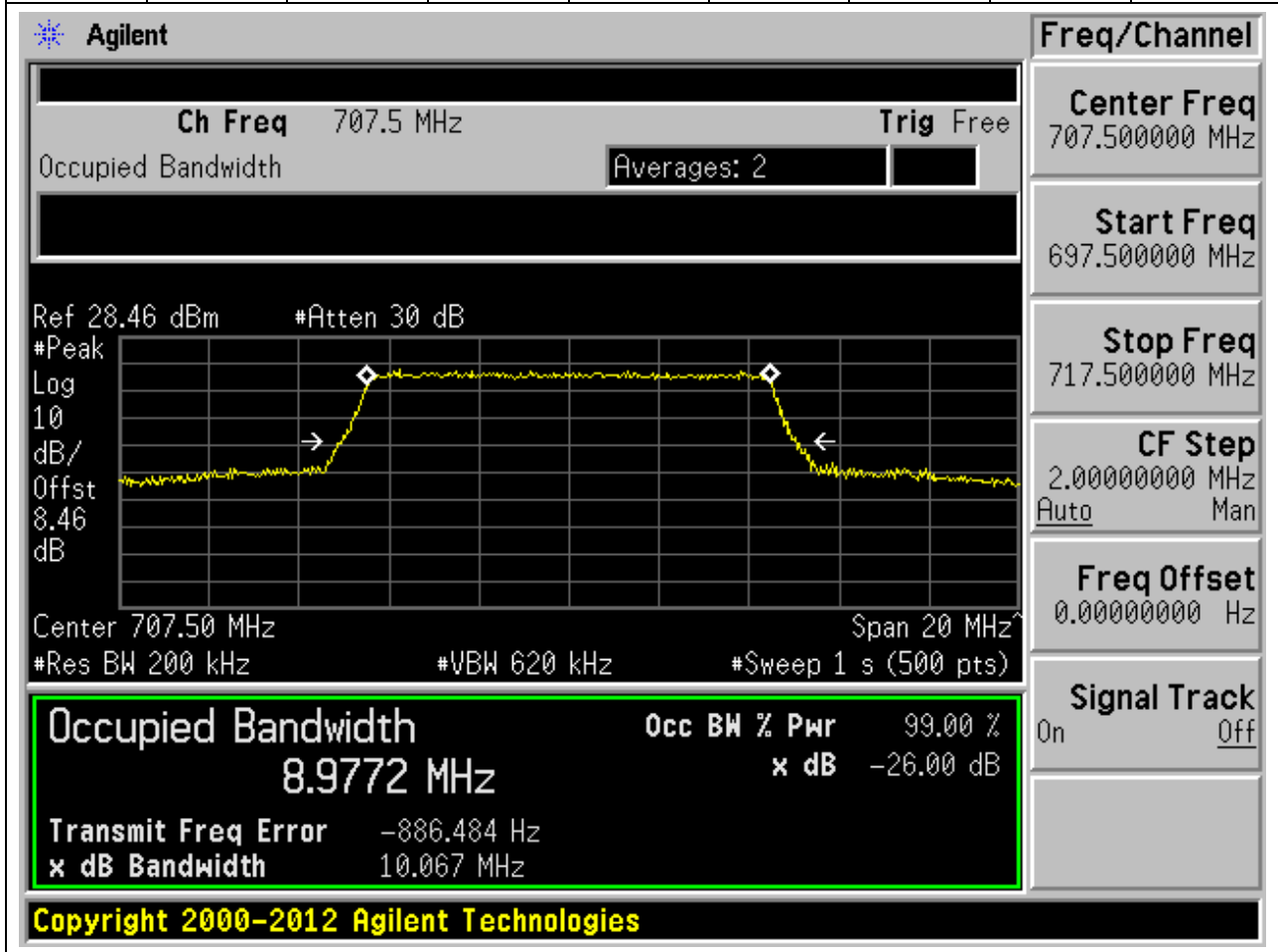
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 707.5 MHz, and the span is 20 MHz. The occupied bandwidth is measured as 8.9762 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -9.942 kHz and the XdB bandwidth is 10.061 MHz. The signal track is turned off.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
8.9762 MHz		x dB	-26.00 dB
Transmit Freq Error	-9.942 kHz		
x dB Bandwidth	10.061 MHz		

**Copyright 2000-2012 Agilent Technologies**

**12.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:23095, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
707.5	99	26	0.2	Peak	8.977	10.066	10	Pass



**12.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:23130, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
711	99	26	0.2	Peak	8.986	10.05	10	Pass

**Agilent**

Ch Freq 711 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.46 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.46 dB

Center 711.00 MHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>8.9860 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-17.226 kHz
<b>x dB Bandwidth</b>		10.050 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 711.000000 MHz

Start Freq 701.000000 MHz

Stop Freq 721.000000 MHz

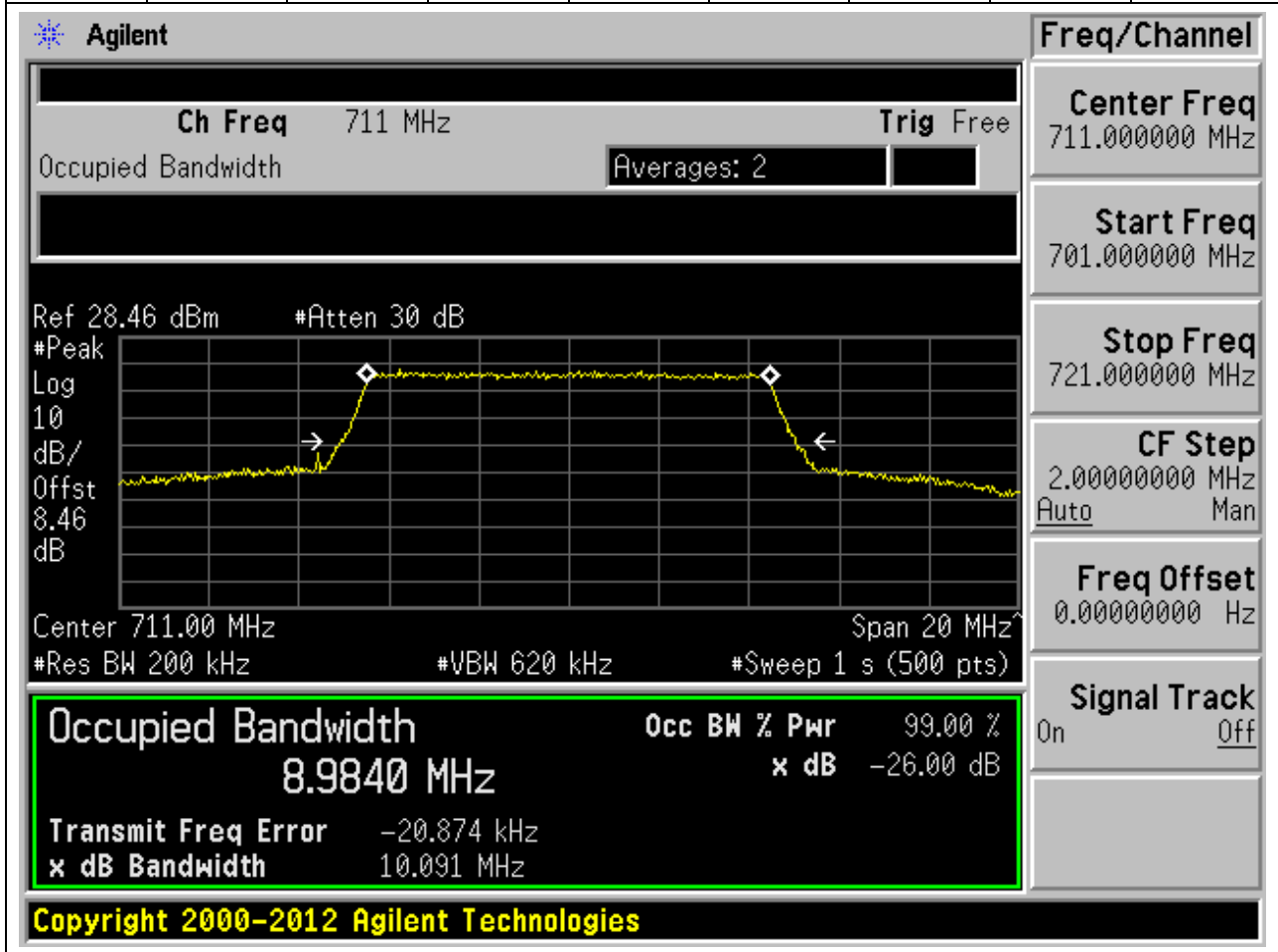
CF Step 2.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

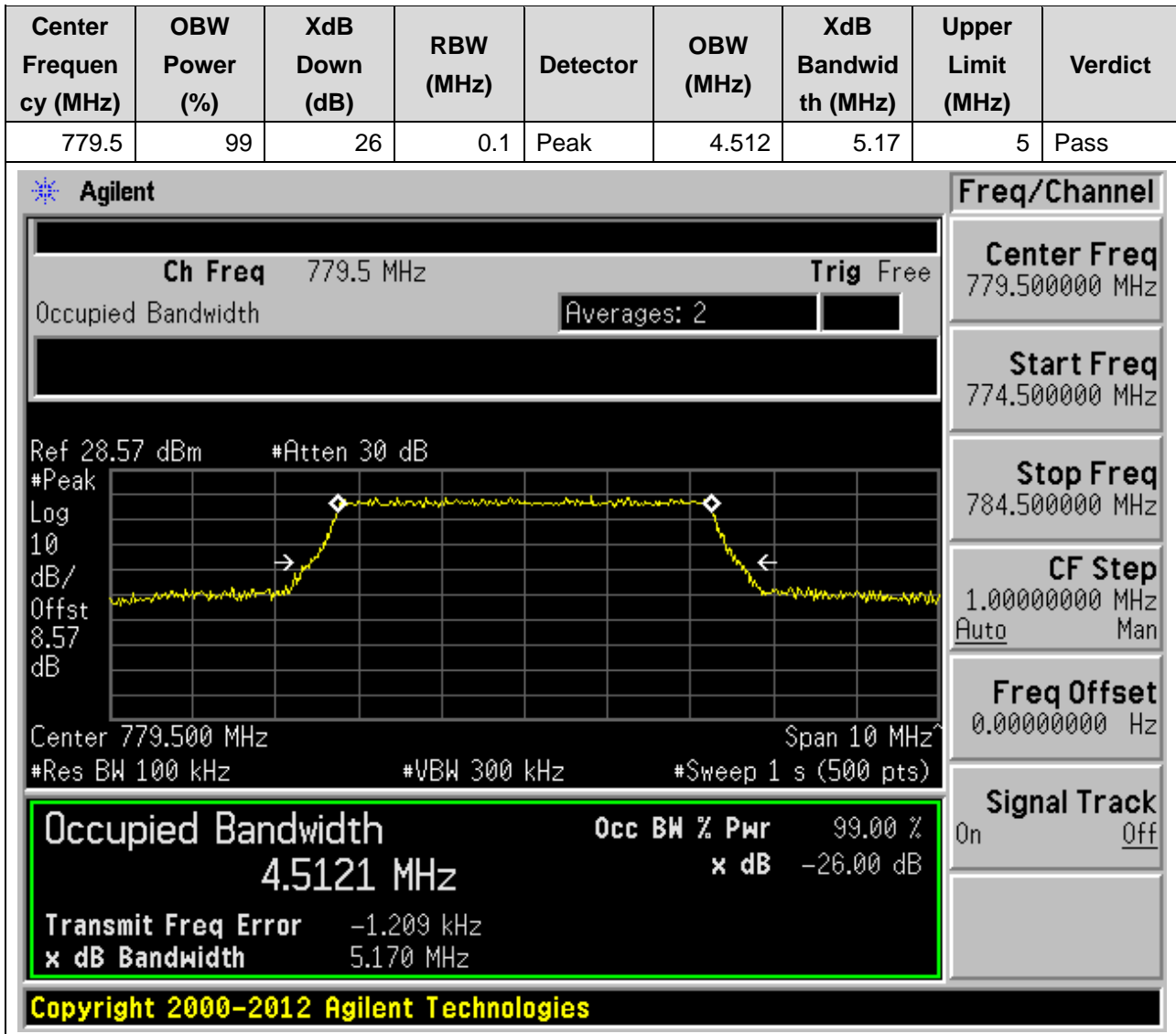
**12.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:23130, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
711	99	26	0.2	Peak	8.984	10.091	10	Pass



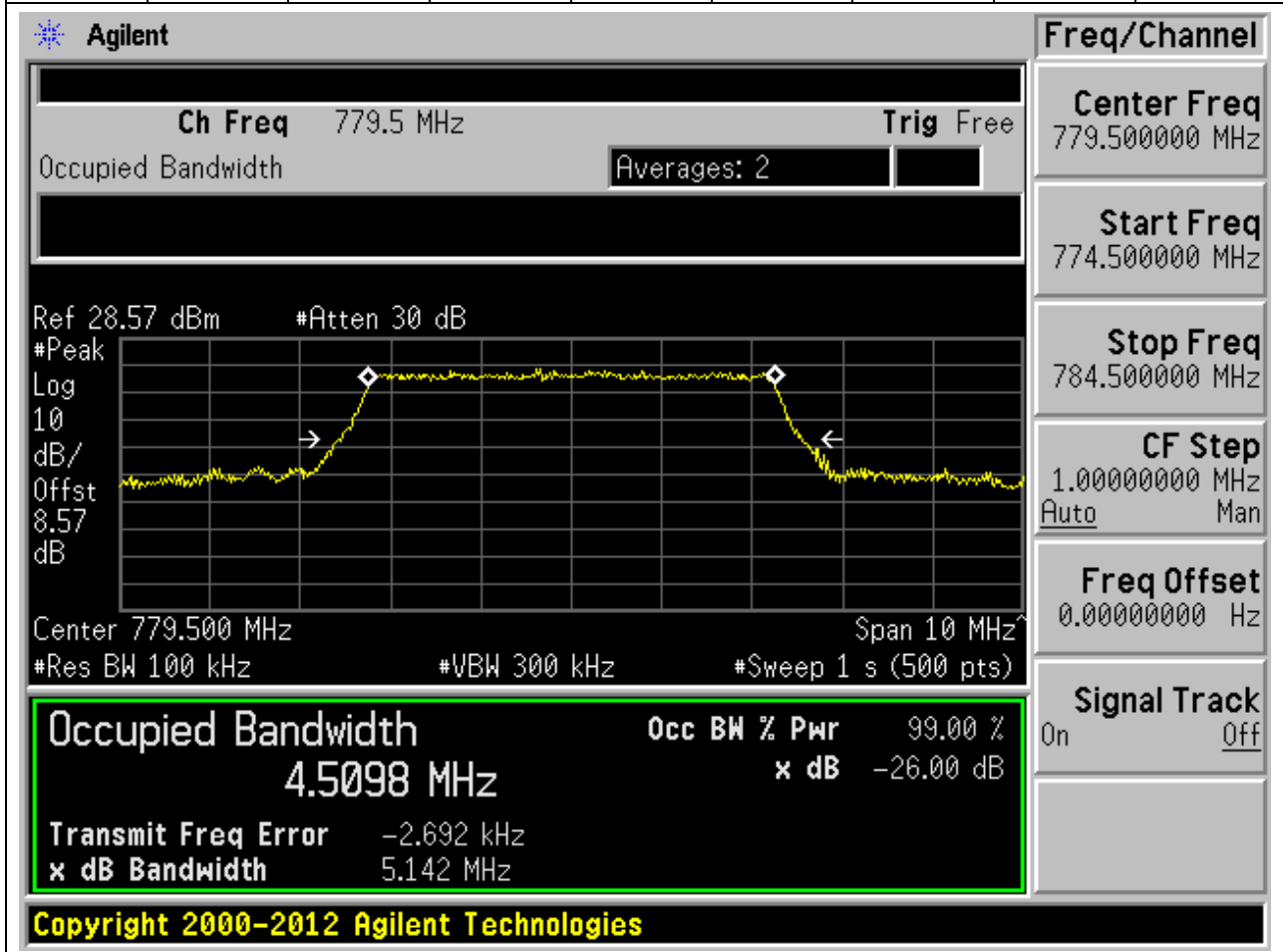
### 13. LTE\_Band13

#### 13.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:23205, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



**13.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:23205, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

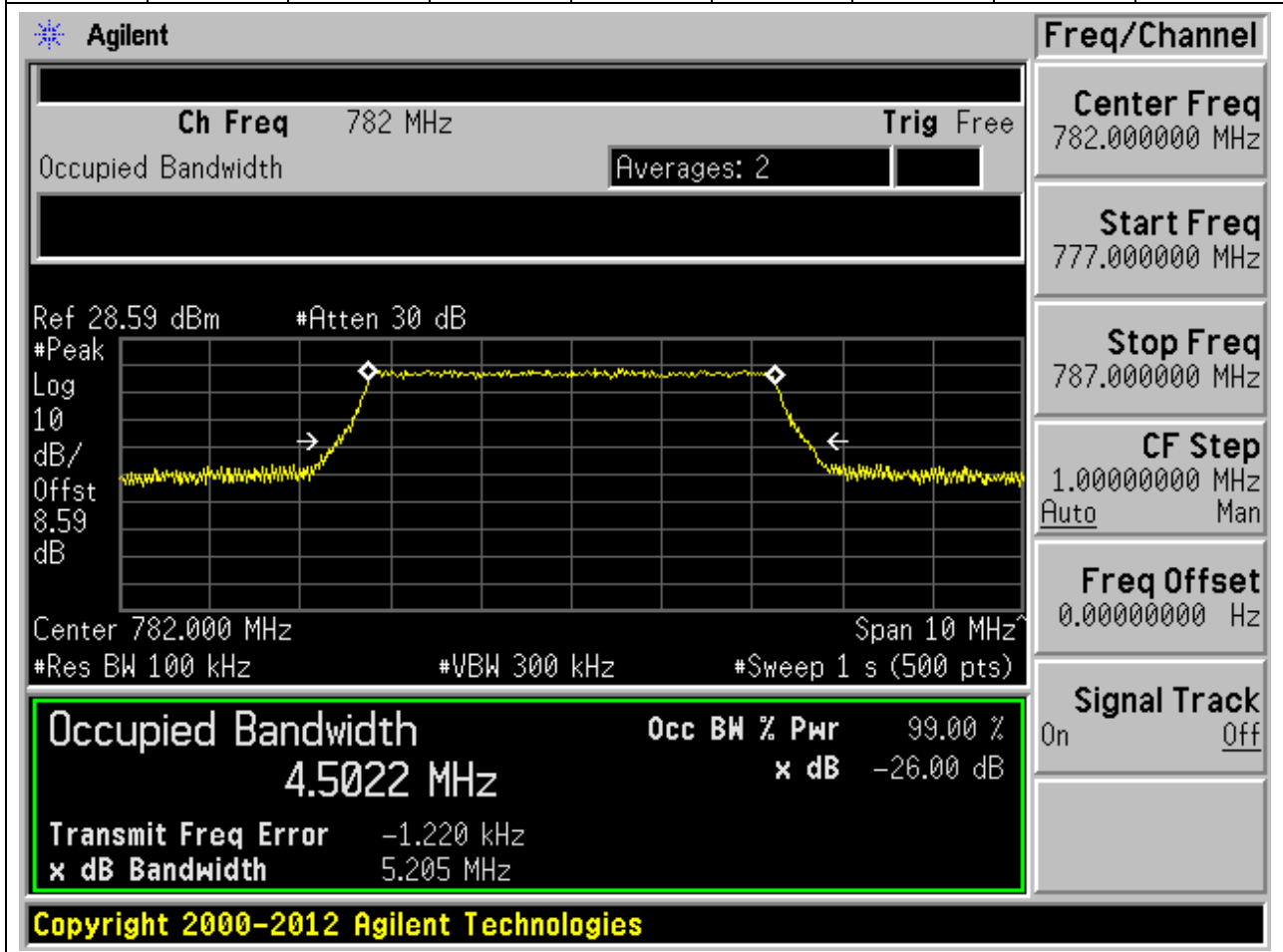
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
779.5	99	26	0.1	Peak	4.51	5.142	5	Pass





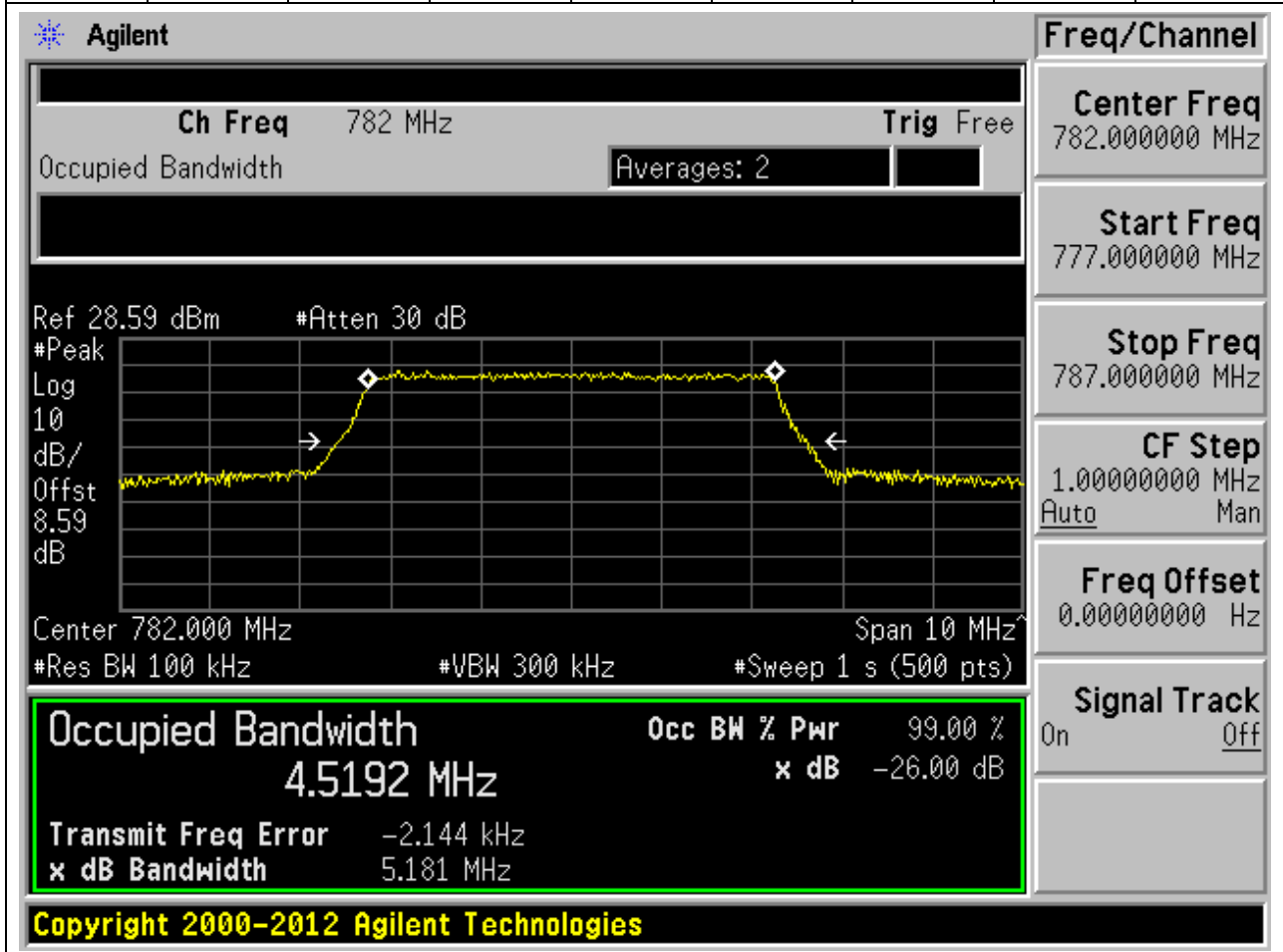
**13.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:23230, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
782	99	26	0.1	Peak	4.502	5.205	5	Pass



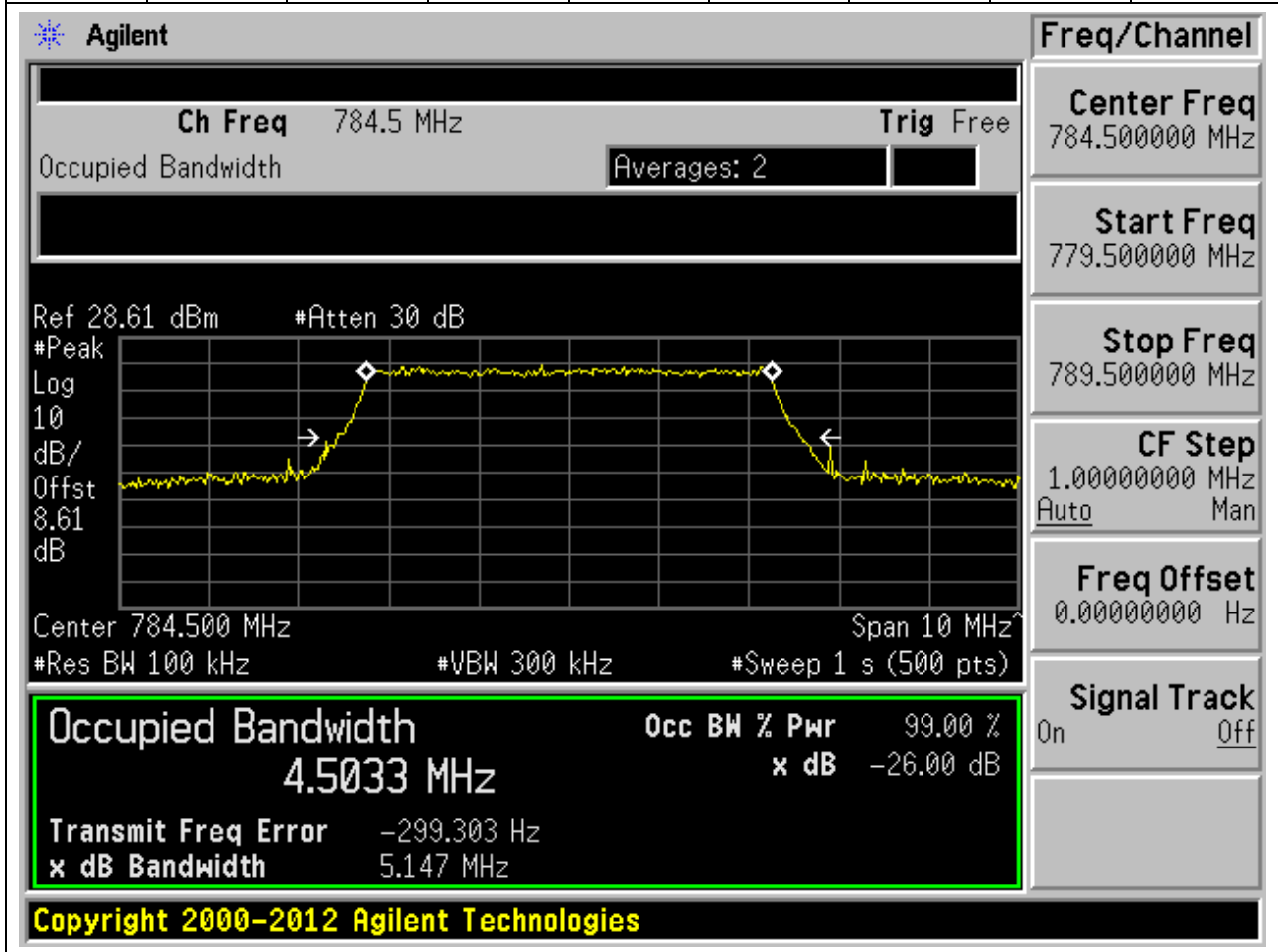
**13.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:23230, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
782	99	26	0.1	Peak	4.519	5.181	5	Pass



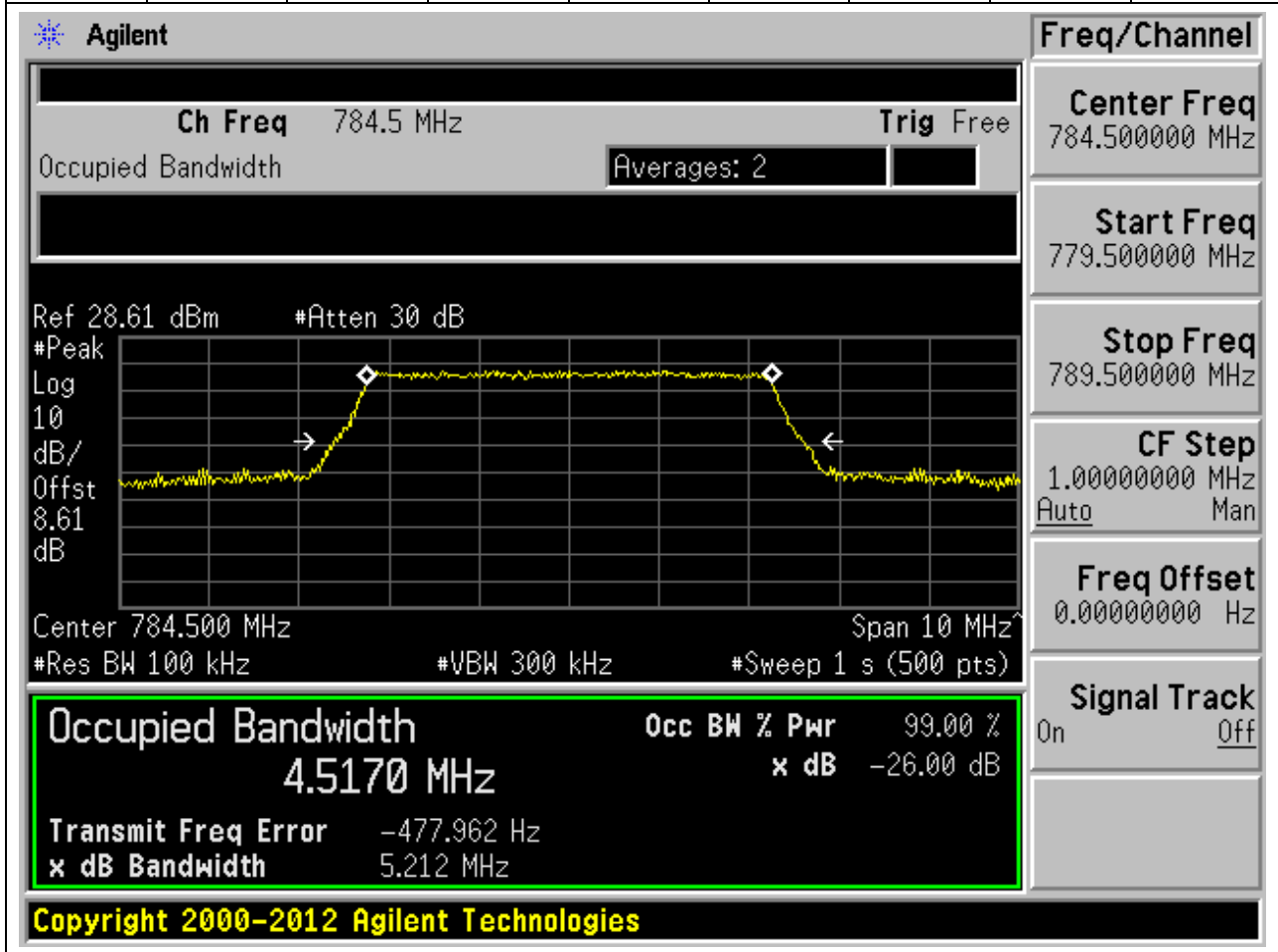
**13.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:23255, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
784.5	99	26	0.1	Peak	4.503	5.147	5	Pass



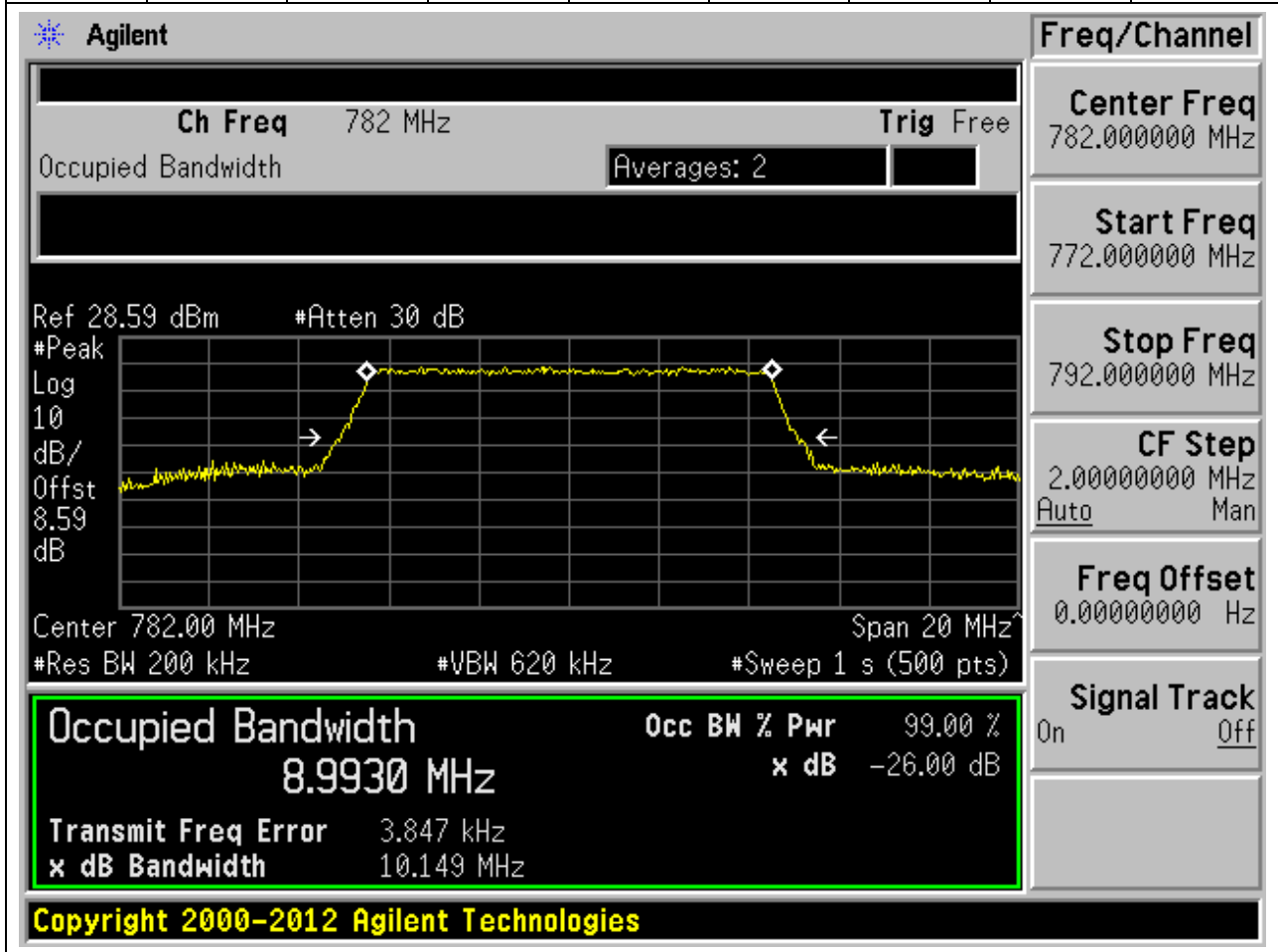
**13.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:23255, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
784.5	99	26	0.1	Peak	4.517	5.212	5	Pass



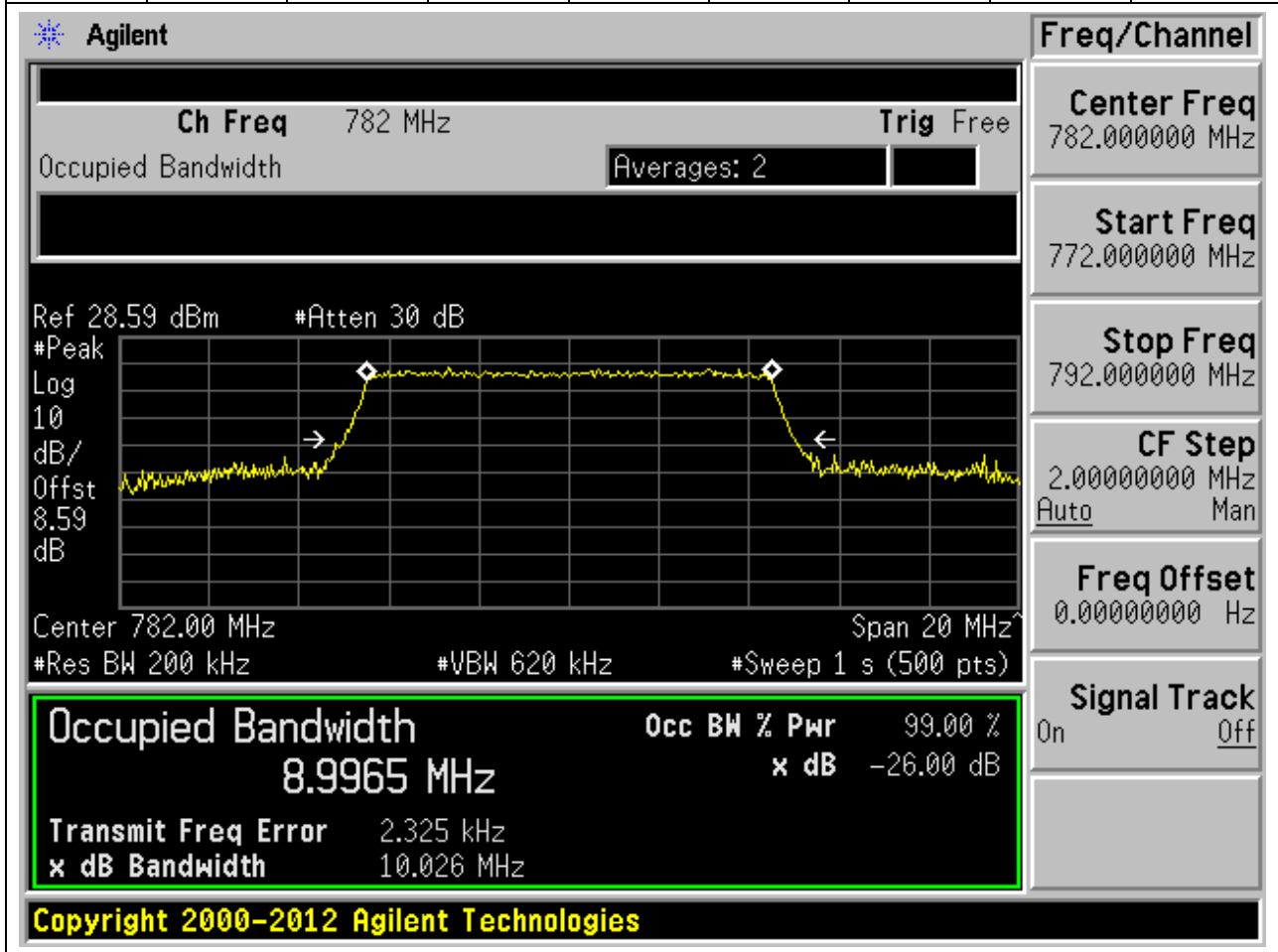
**13.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:23230, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
782	99	26	0.2	Peak	8.993	10.149	10	Pass



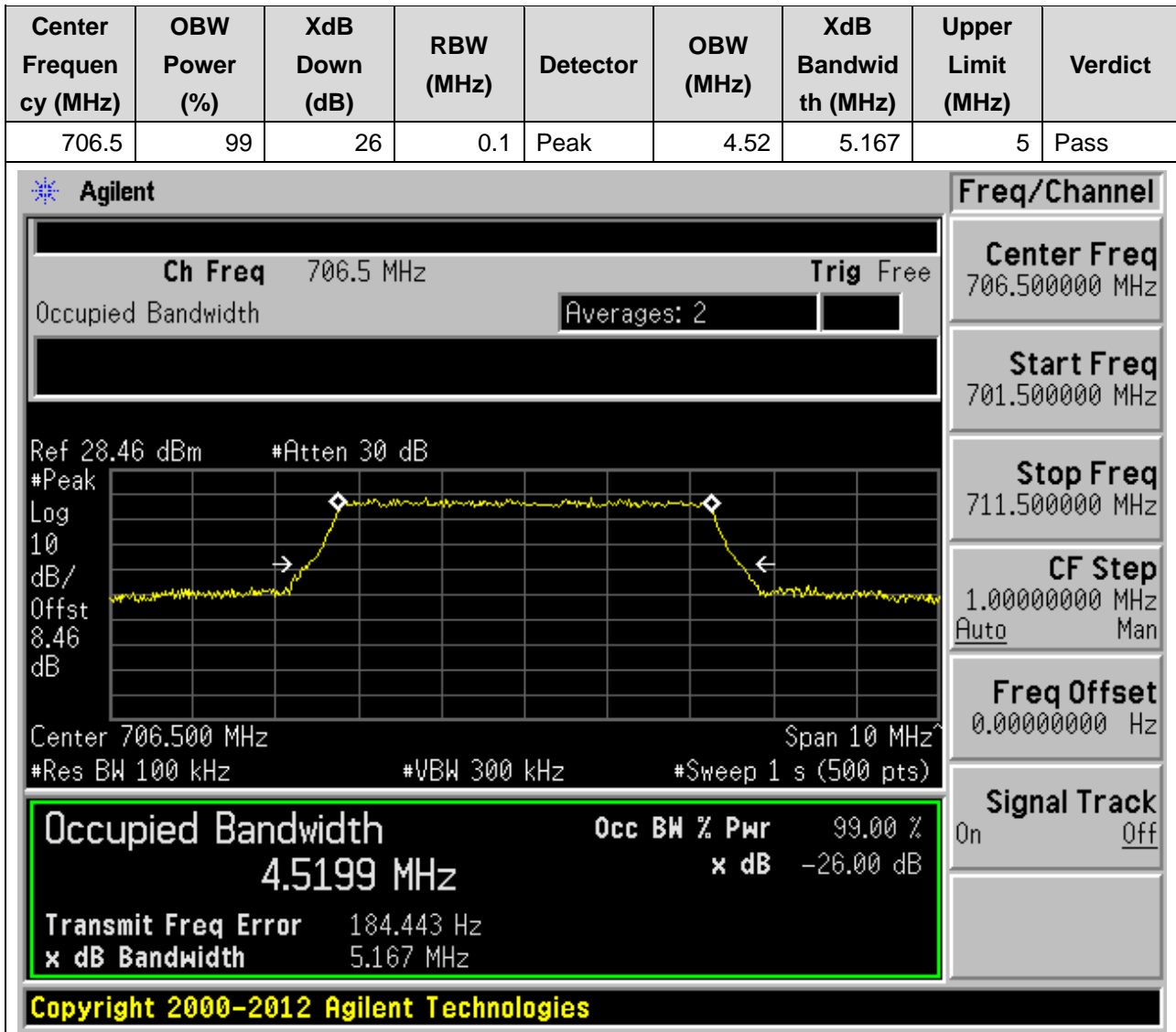
**13.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:23230, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
782	99	26	0.2	Peak	8.996	10.026	10	Pass



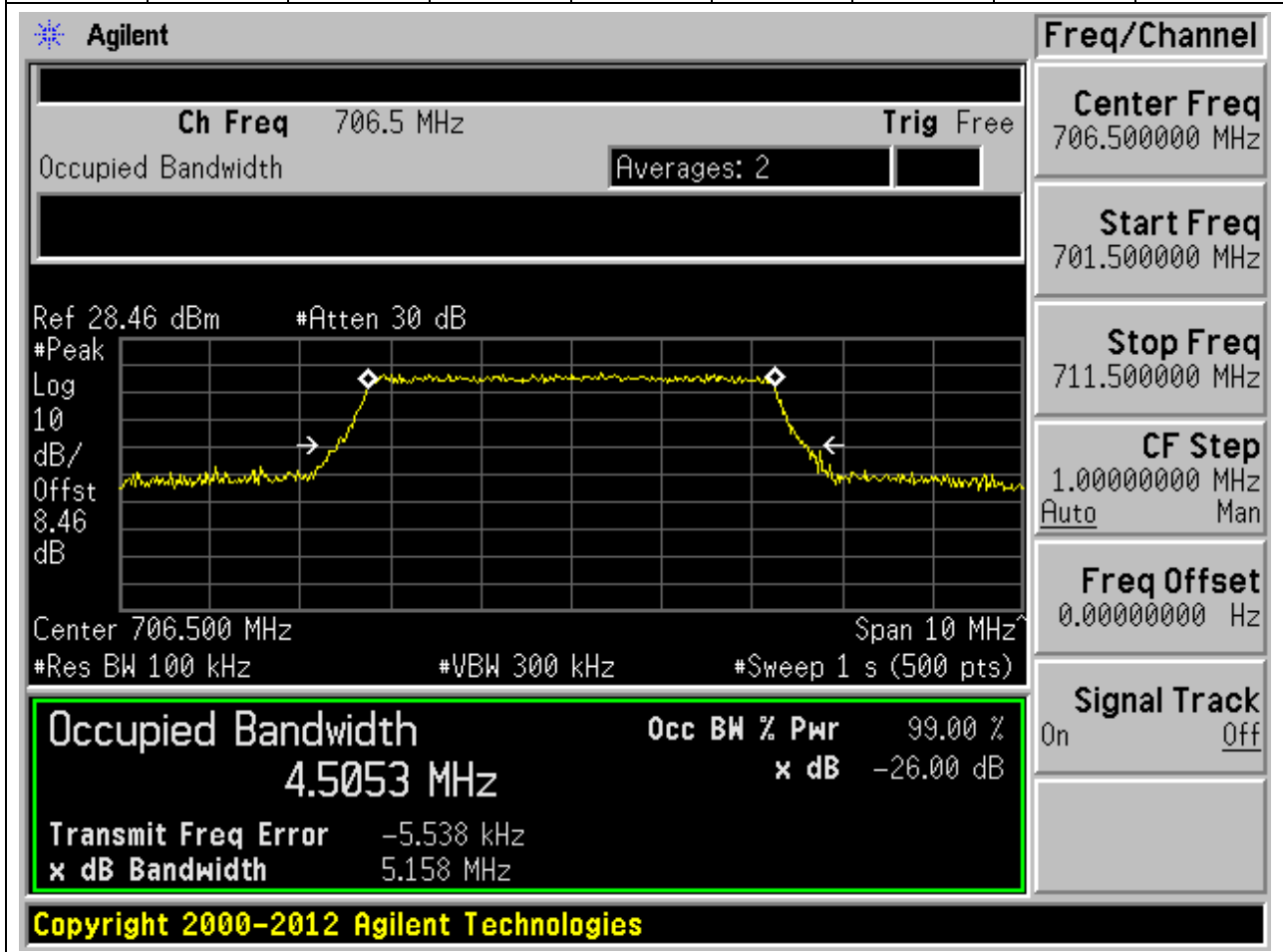
## 14. LTE\_Band17

### 14.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:23755, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



**14.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:23755, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

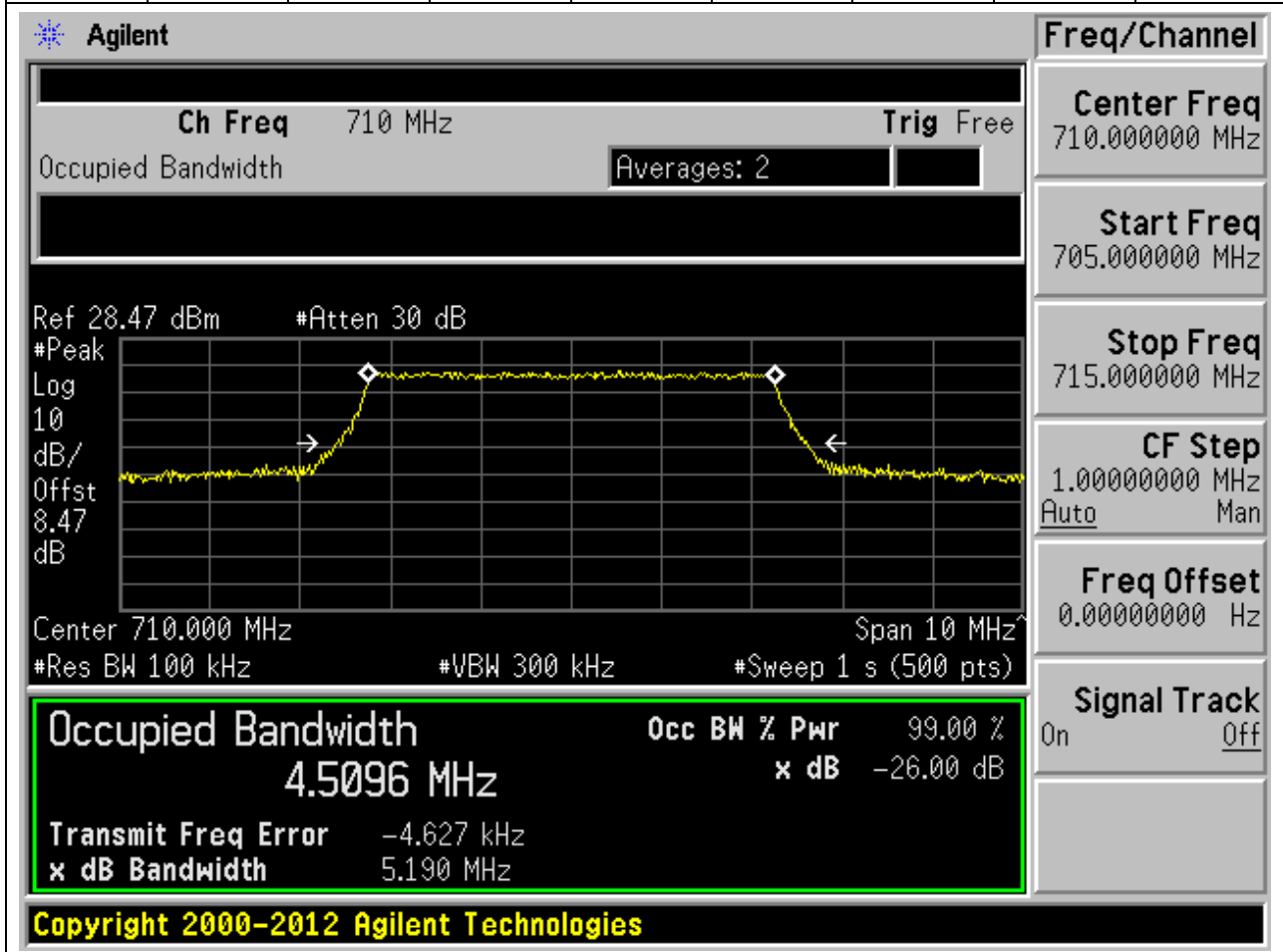
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
706.5	99	26	0.1	Peak	4.505	5.158	5	Pass





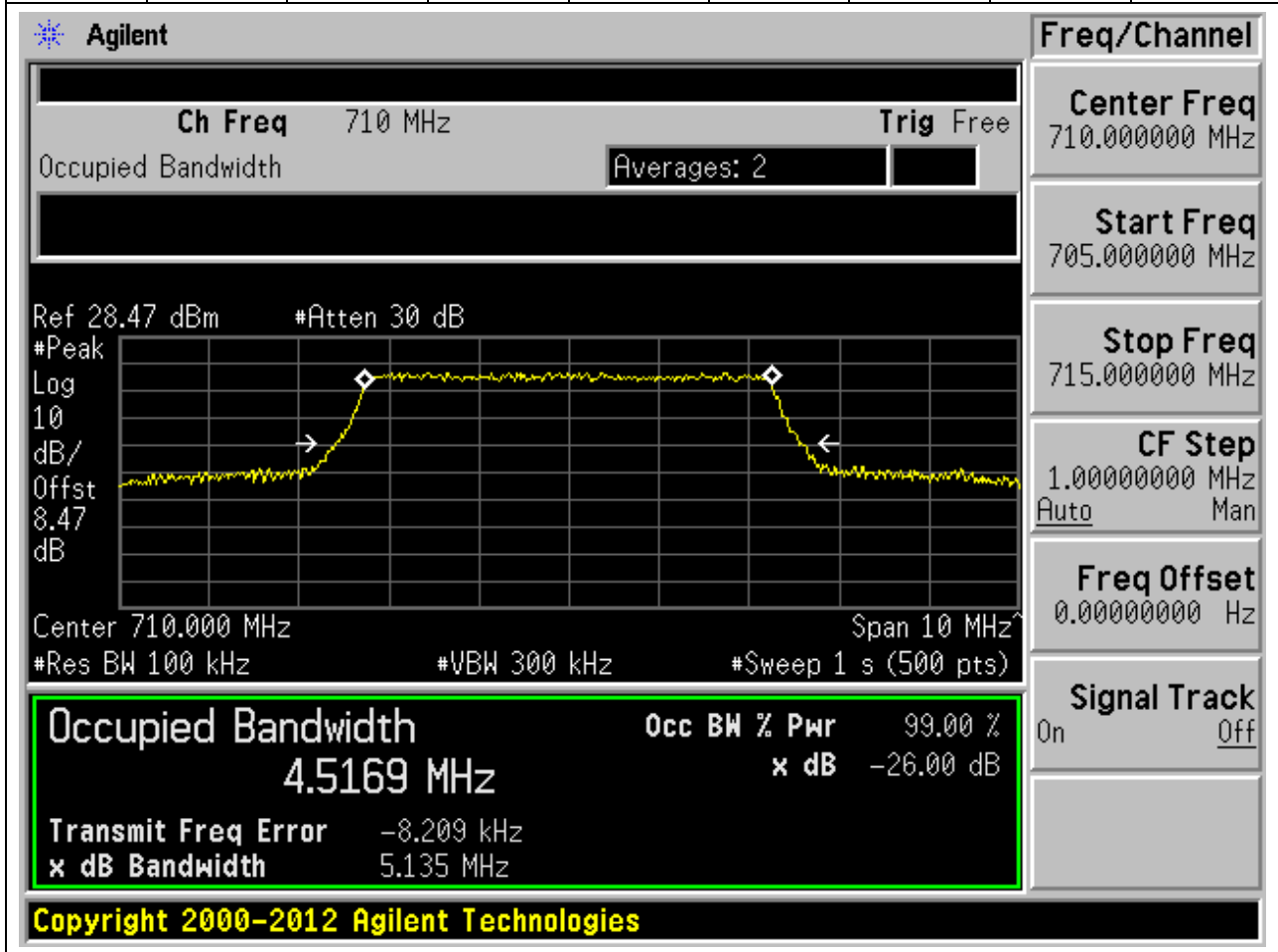
**14.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:23790, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
710	99	26	0.1	Peak	4.51	5.19	5	Pass



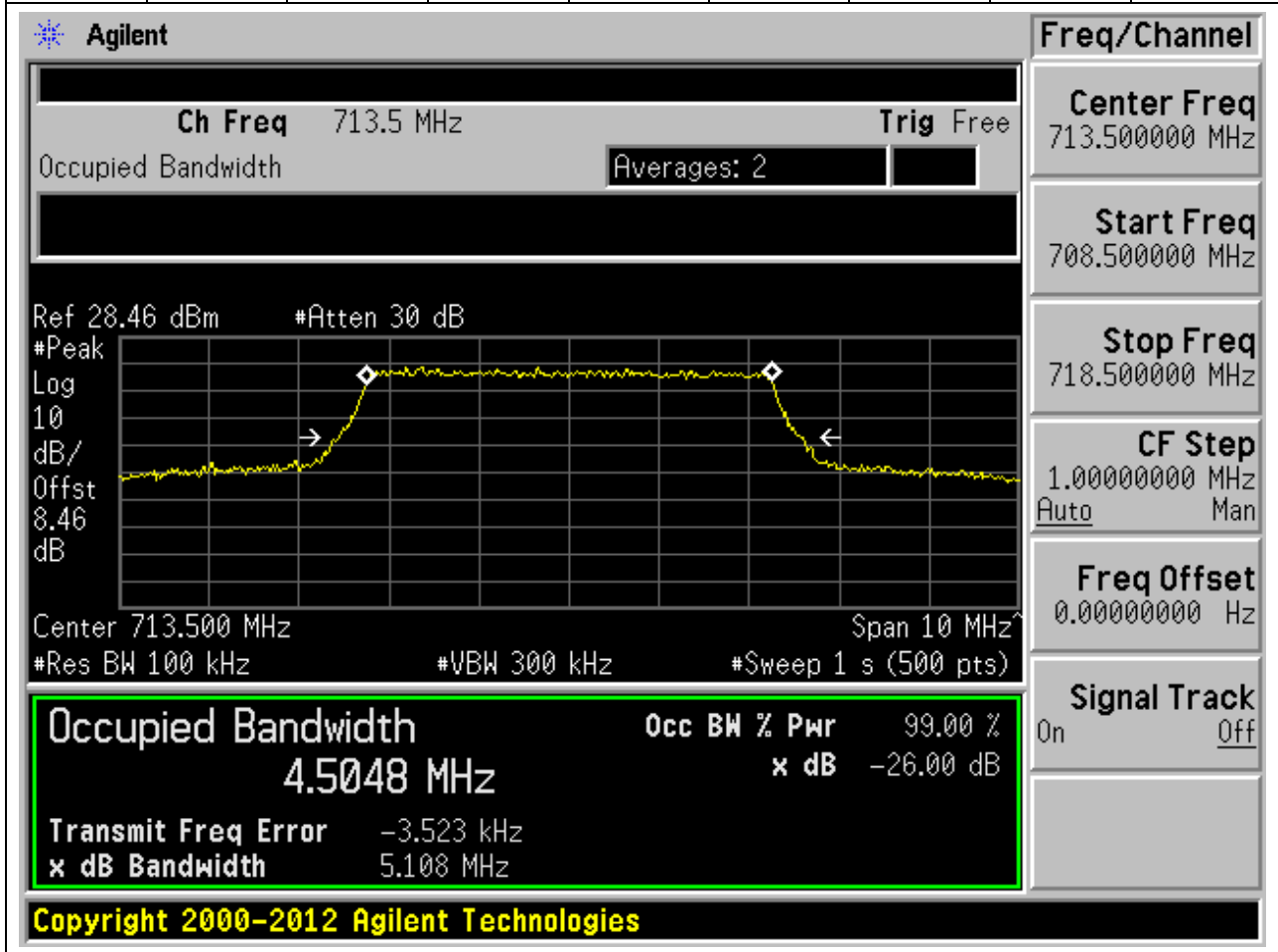
**14.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:23790, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
710	99	26	0.1	Peak	4.517	5.135	5	Pass



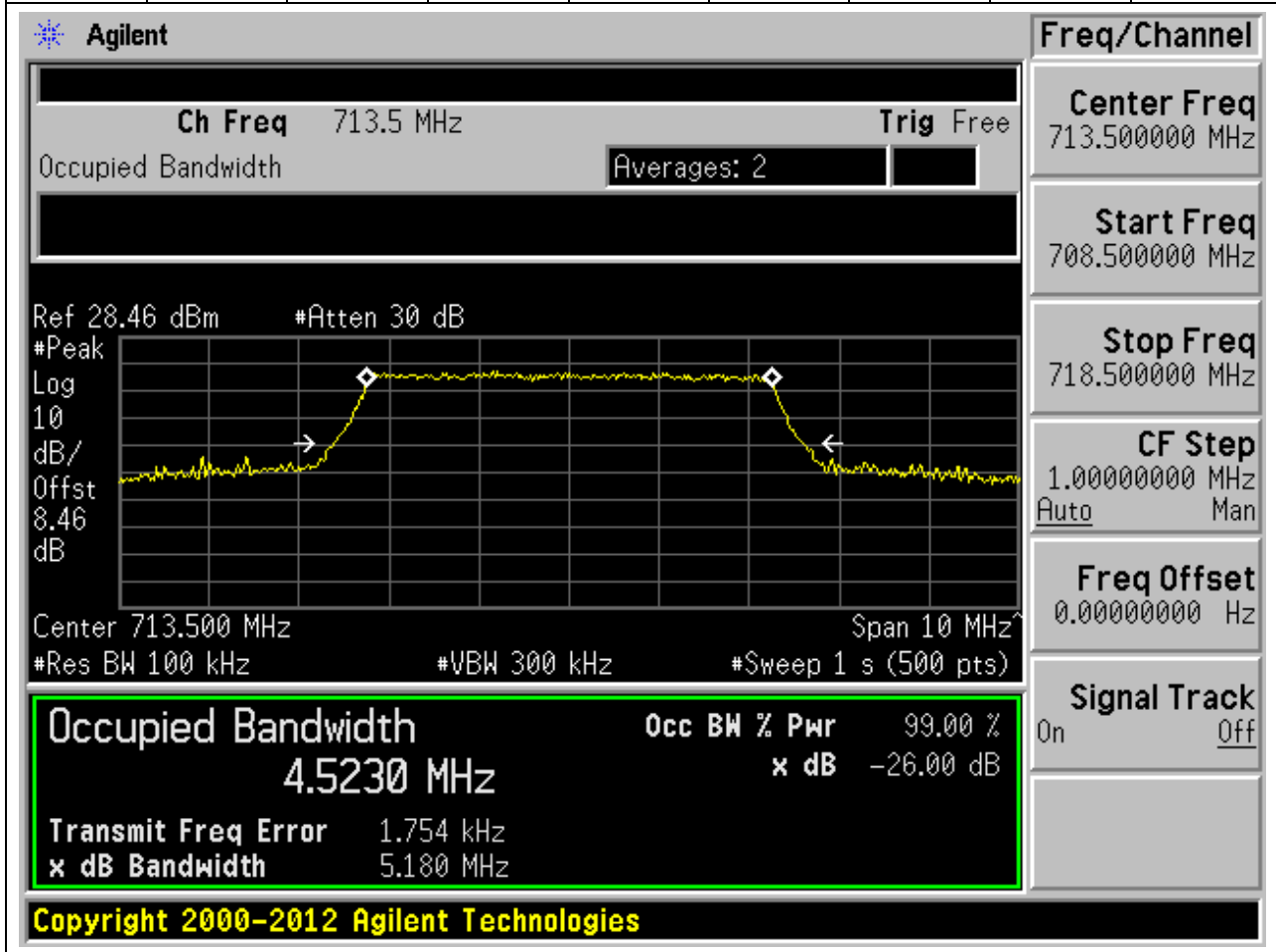
**14.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:23825, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
713.5	99	26	0.1	Peak	4.505	5.108	5	Pass



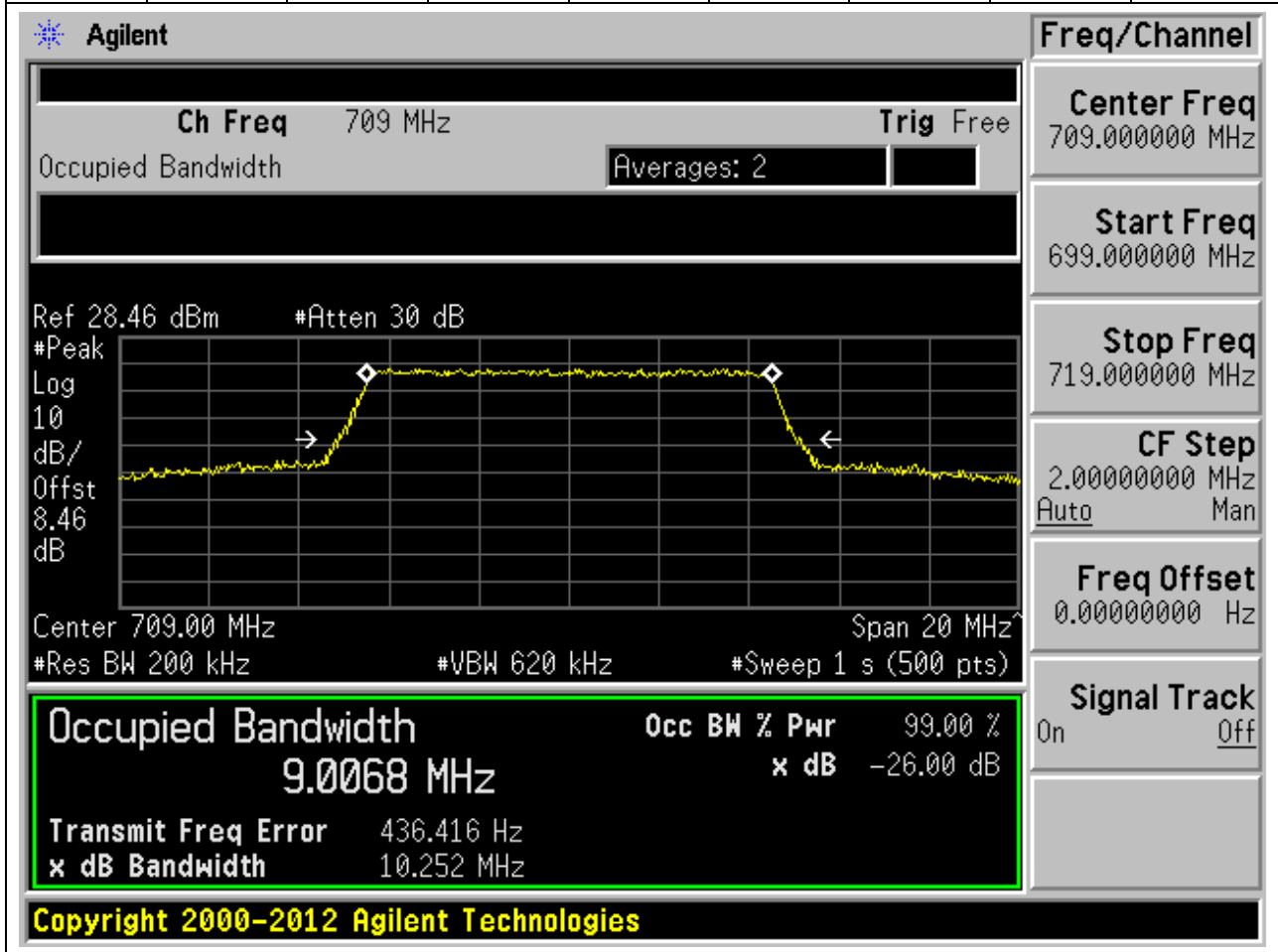
**14.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:23825, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
713.5	99	26	0.1	Peak	4.523	5.18	5	Pass



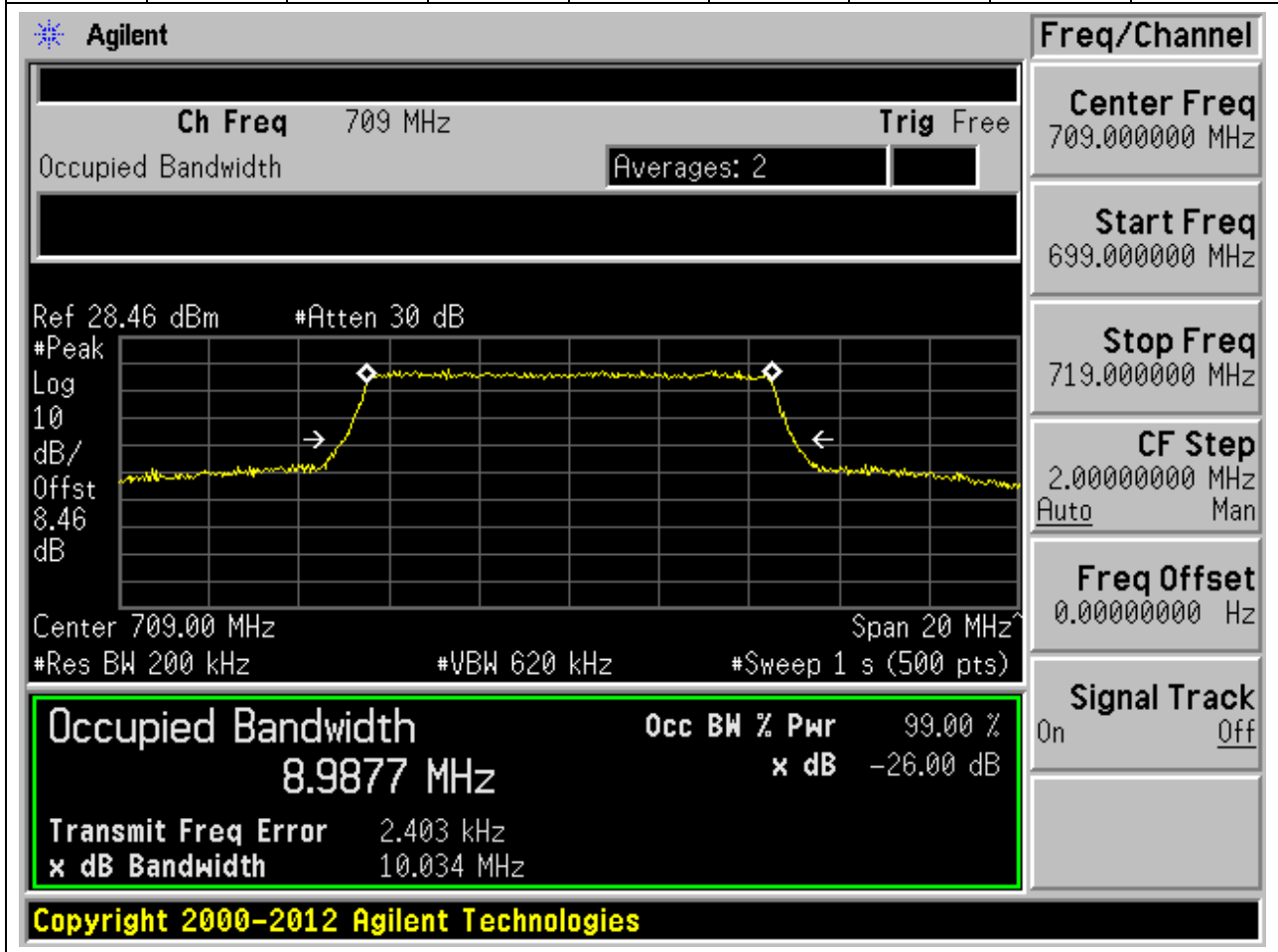
**14.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:23780, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
709	99	26	0.2	Peak	9.007	10.252	10	Pass



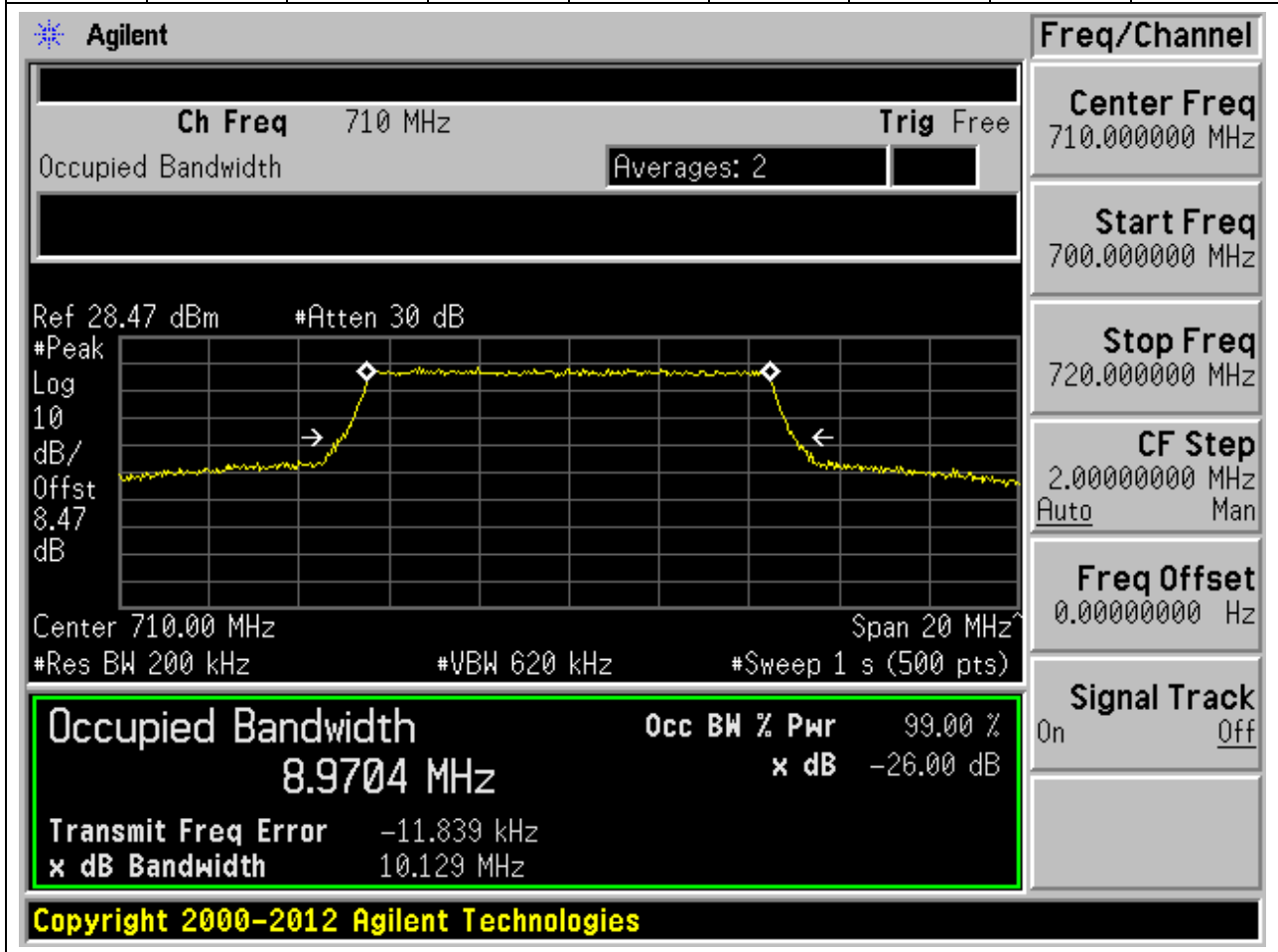
**14.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:23780, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
709	99	26	0.2	Peak	8.988	10.034	10	Pass



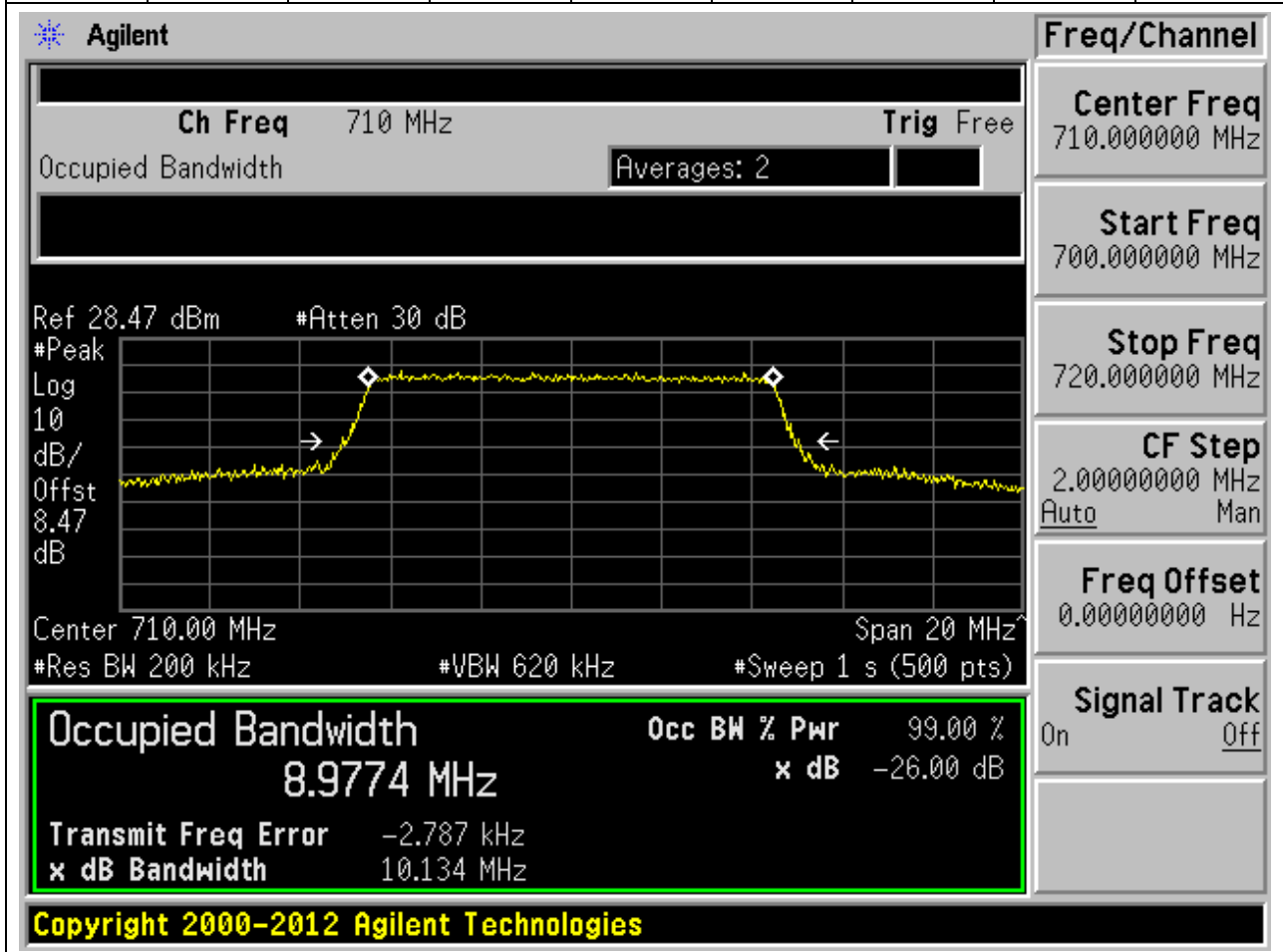
**14.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:23790, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
710	99	26	0.2	Peak	8.97	10.129	10	Pass



**14.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:23790, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

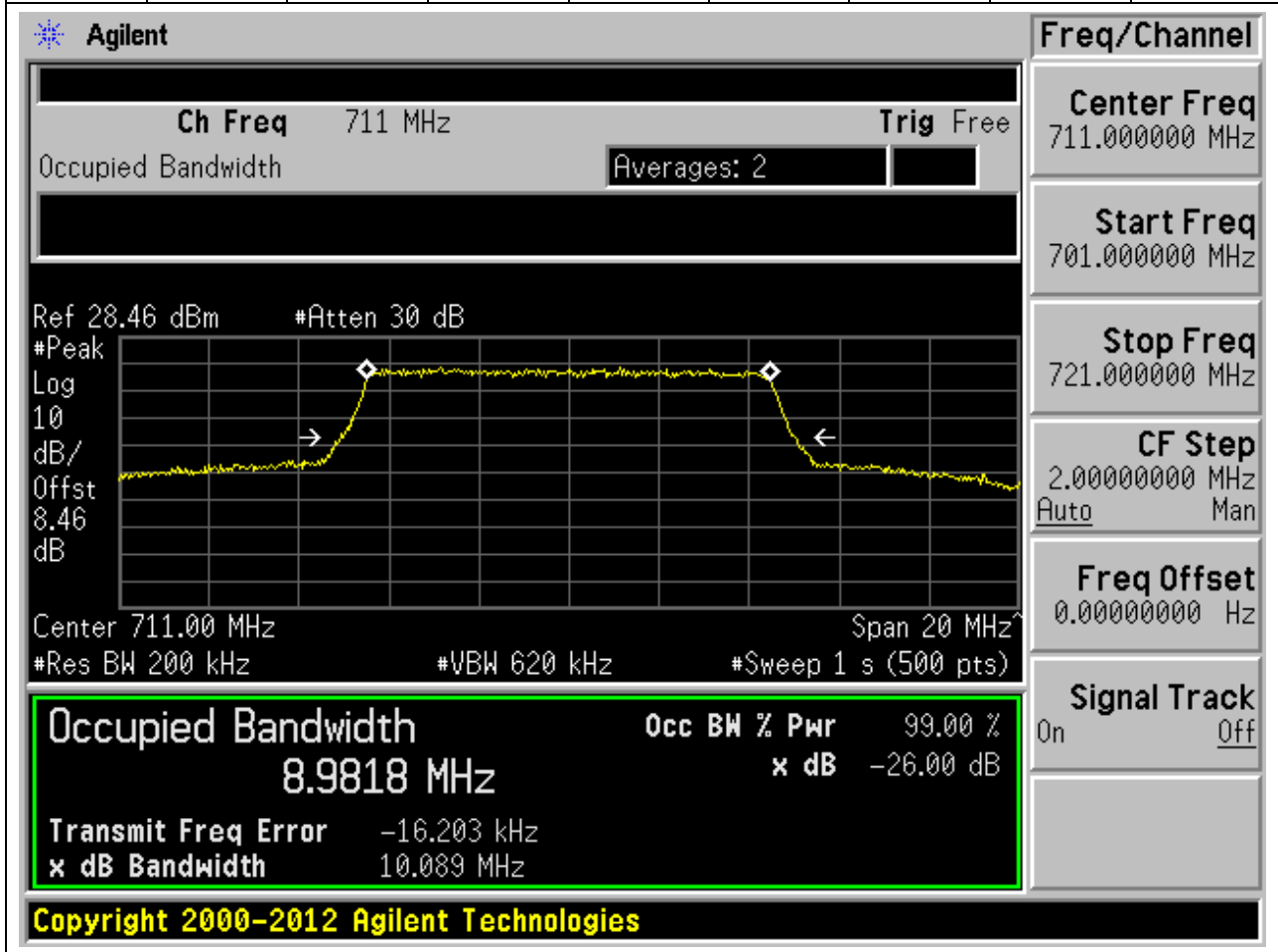
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
710	99	26	0.2	Peak	8.977	10.134	10	Pass





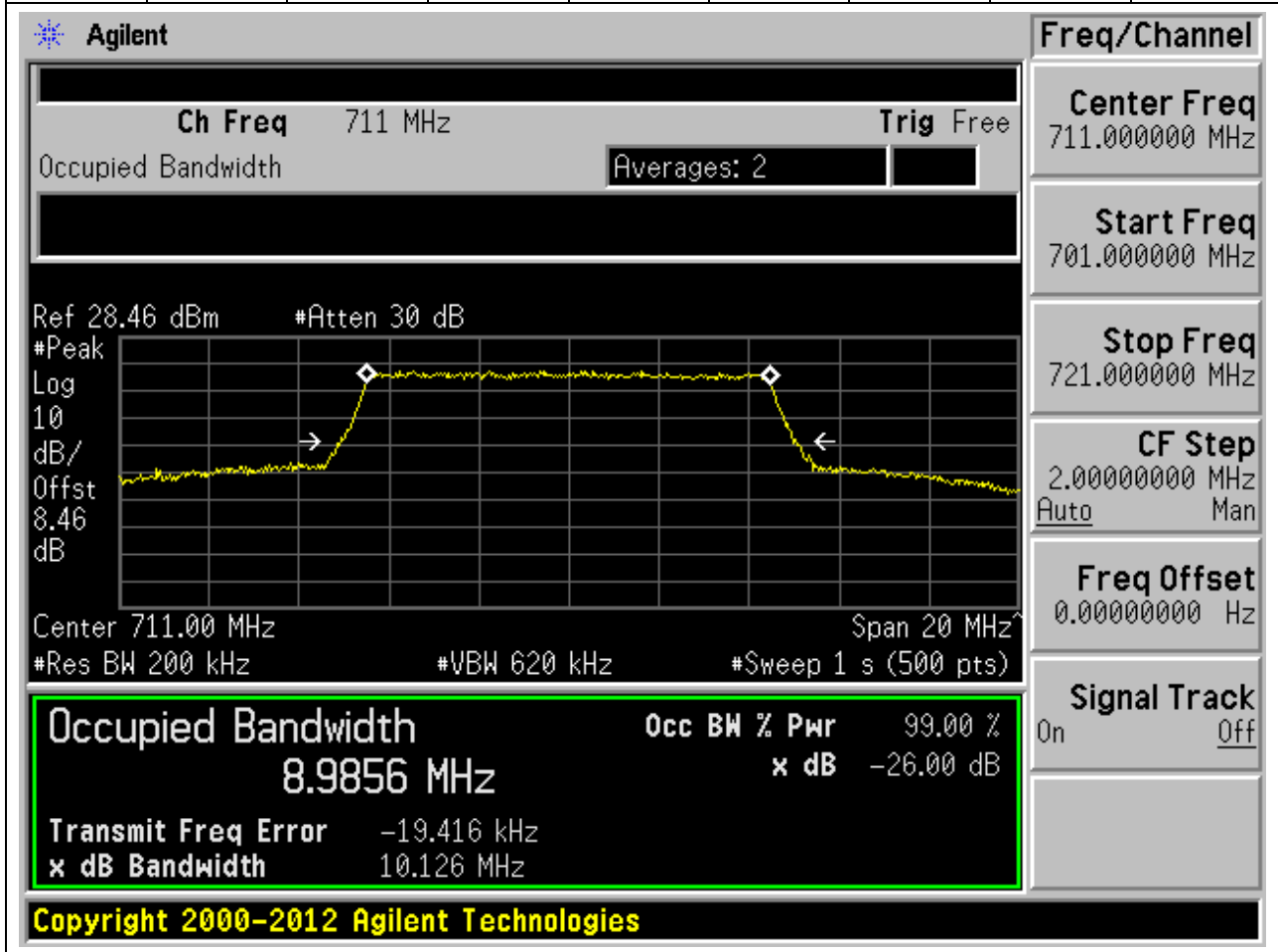
**14.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:23800, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
711	99	26	0.2	Peak	8.982	10.089	10	Pass



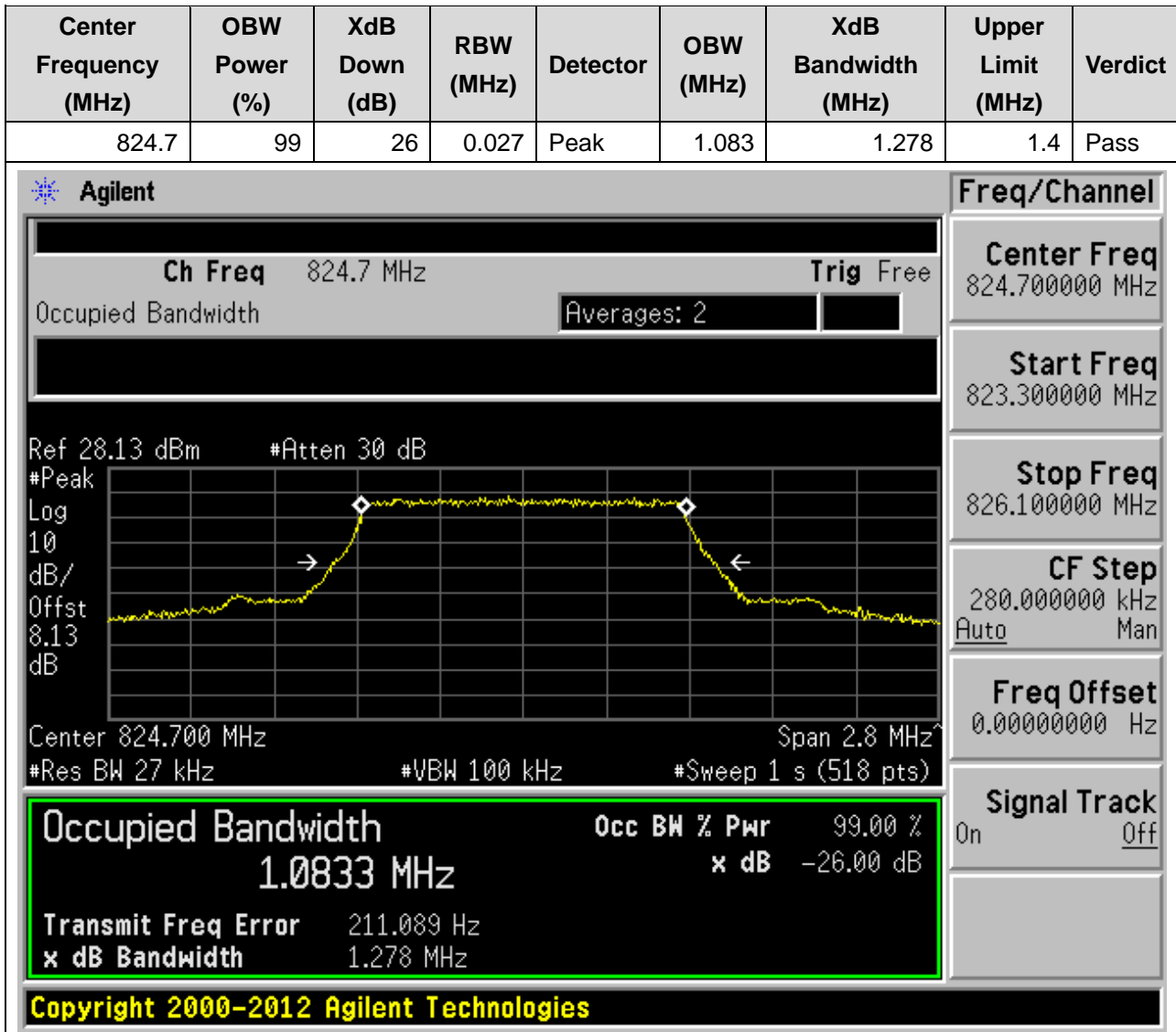
**14.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:23800, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
711	99	26	0.2	Peak	8.986	10.126	10	Pass

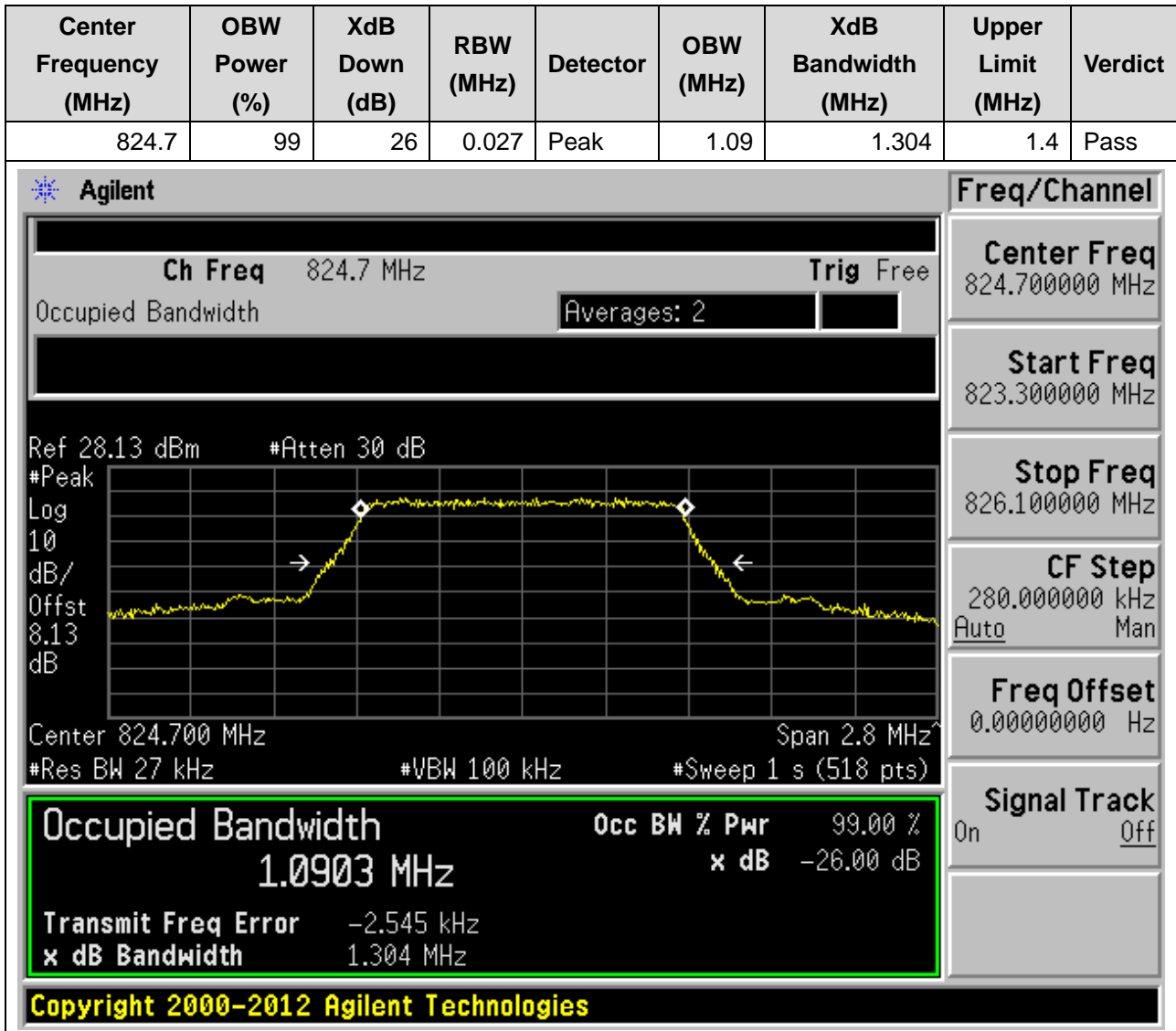


## 15. LTE\_Band26(part22)

### 15.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:26797, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



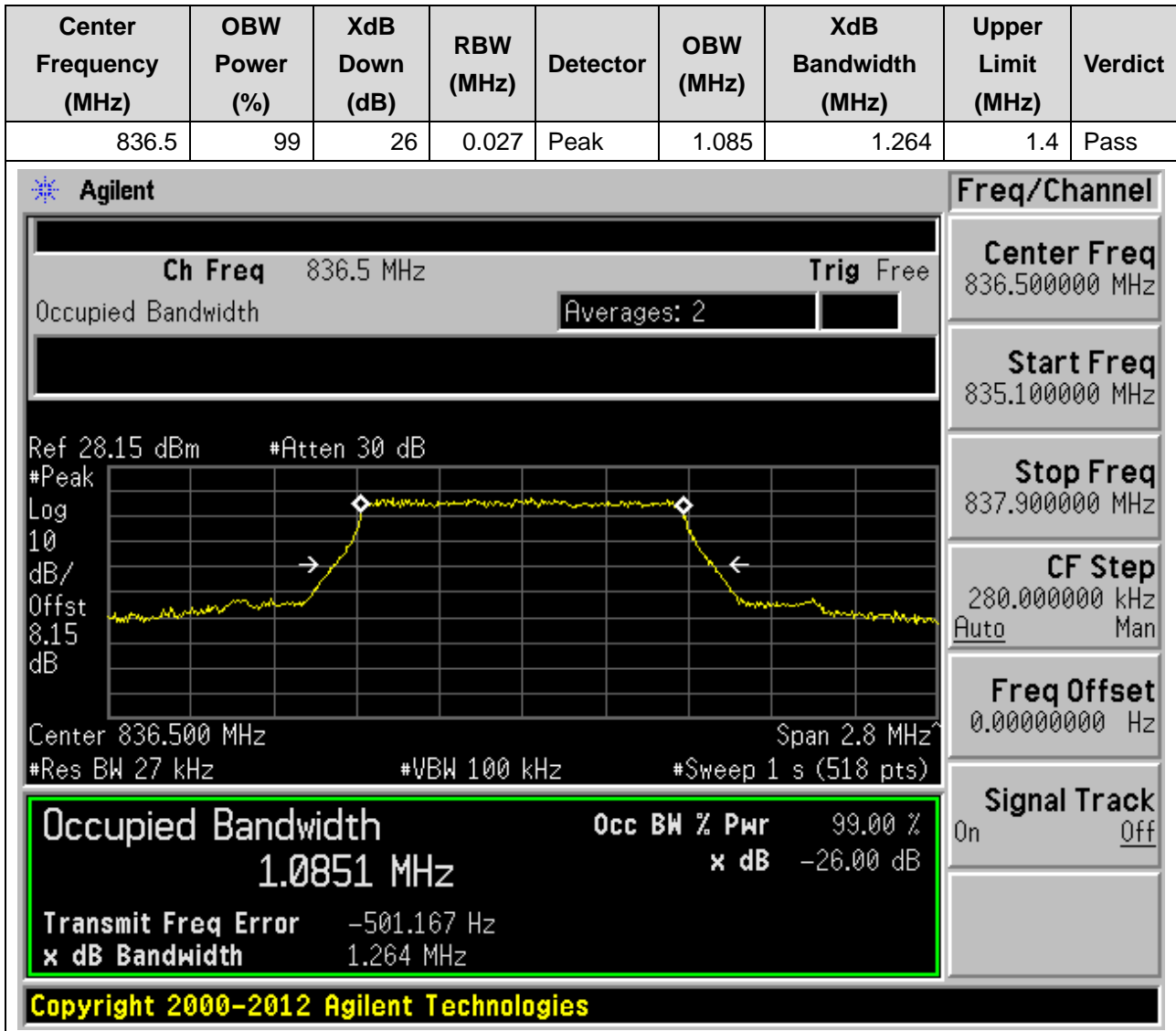
**15.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:26797, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



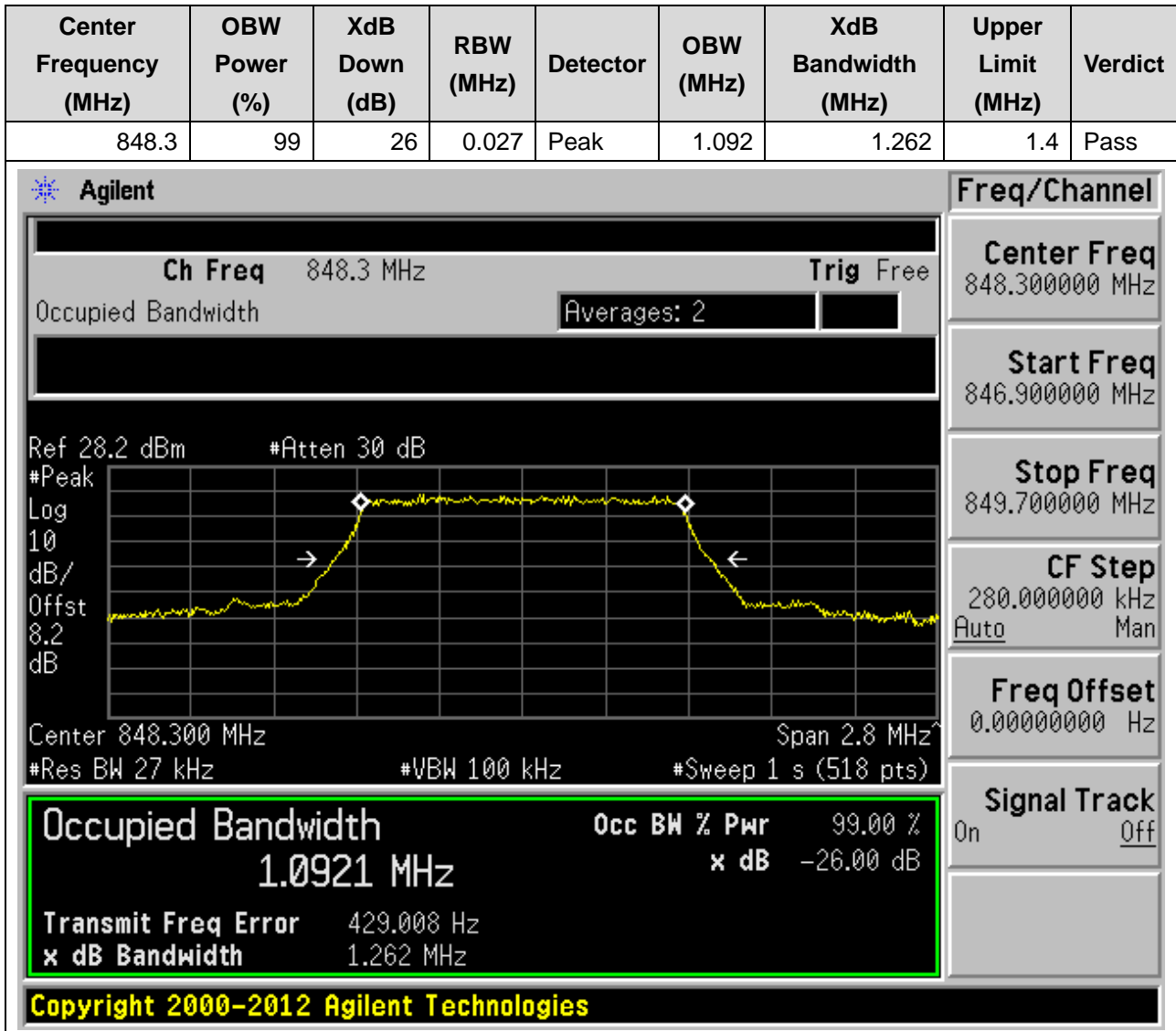
**15.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:26915, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



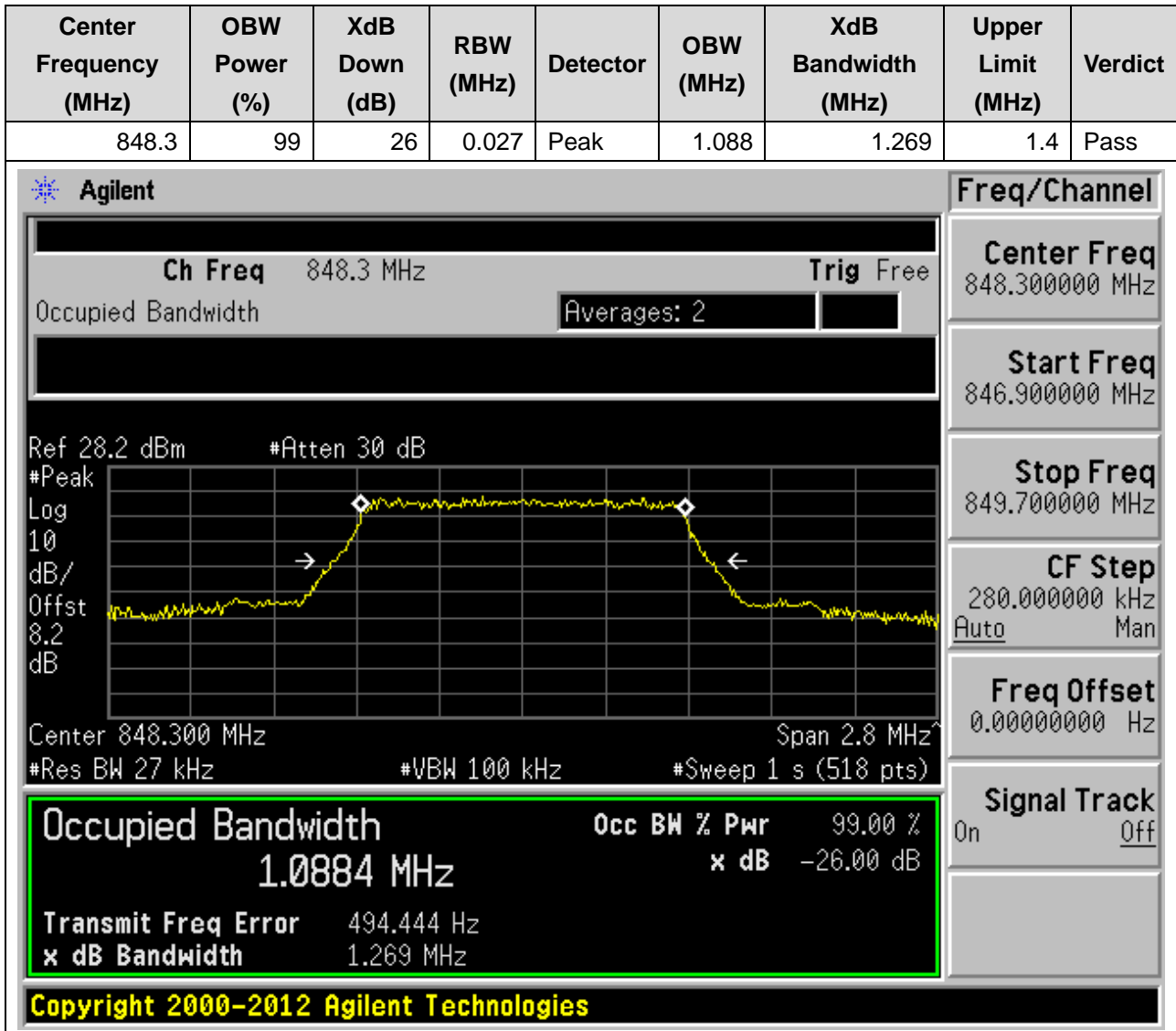
**15.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:26915, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



**15.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:27033, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

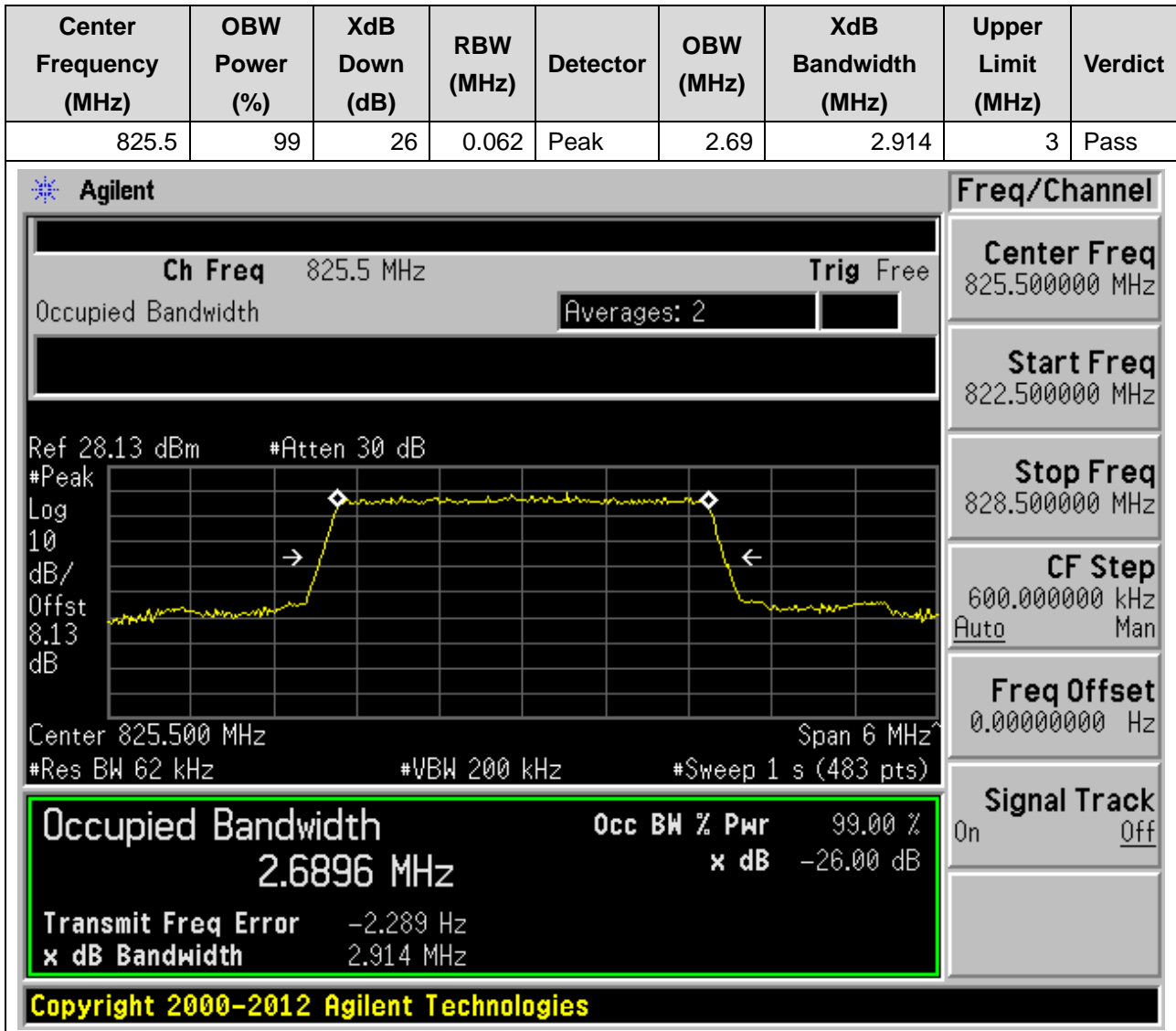


**15.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:27033, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**





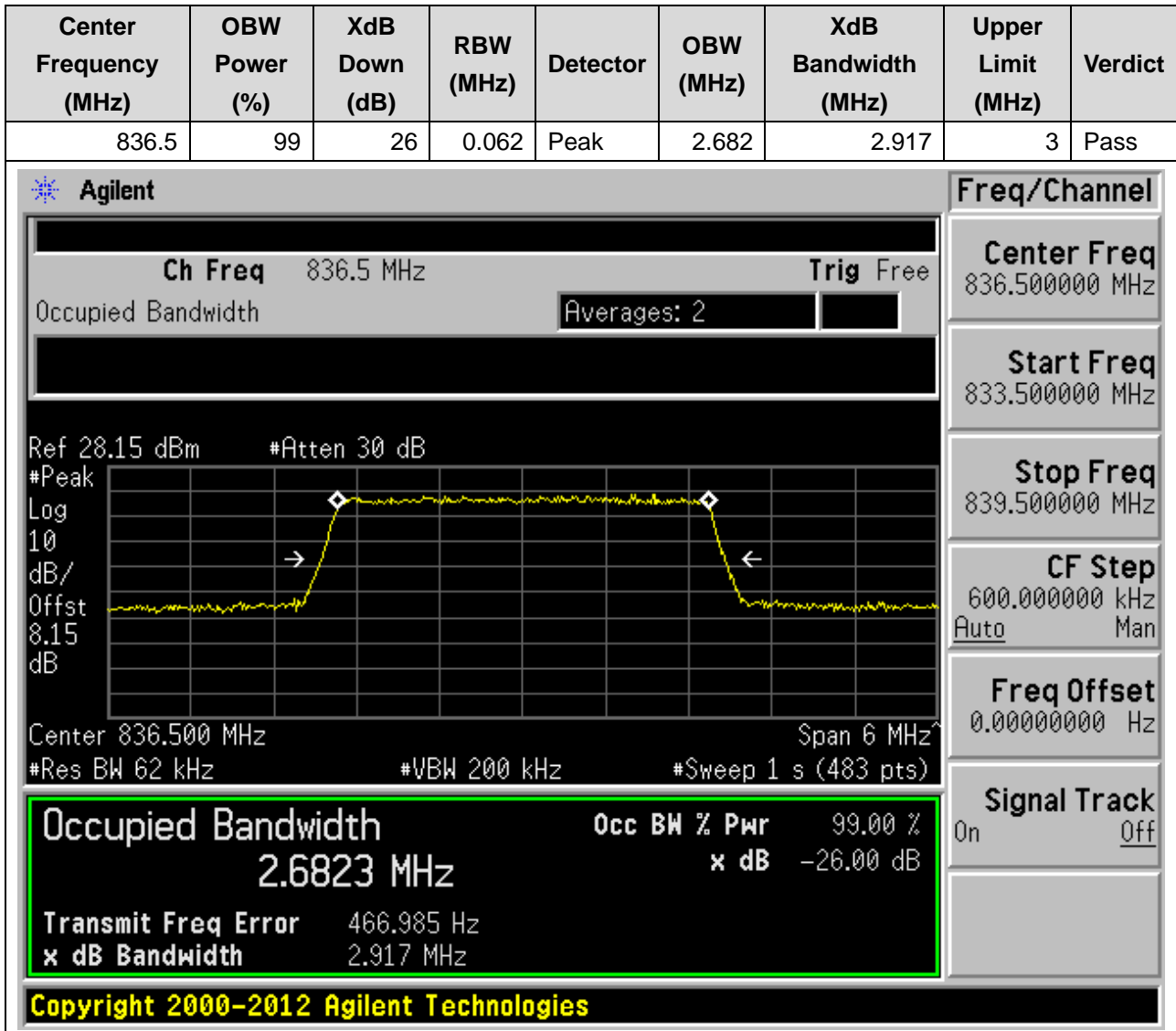
**15.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:26805, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



**15.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:26805, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



**15.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:26915, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



**15.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:26915, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



**15.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:27025, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
847.5	99	26	0.062	Peak	2.687	2.91	3	Pass

**Agilent**

Ch Freq 847.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.2 dBm #Atten 30 dB

Center 847.500 MHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

**Freq/Channel**

Center Freq 847.500000 MHz

Start Freq 844.500000 MHz

Stop Freq 850.500000 MHz

CF Step 600.000000 kHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

2.6872 MHz

x dB -26.00 dB

Transmit Freq Error -2.719 kHz

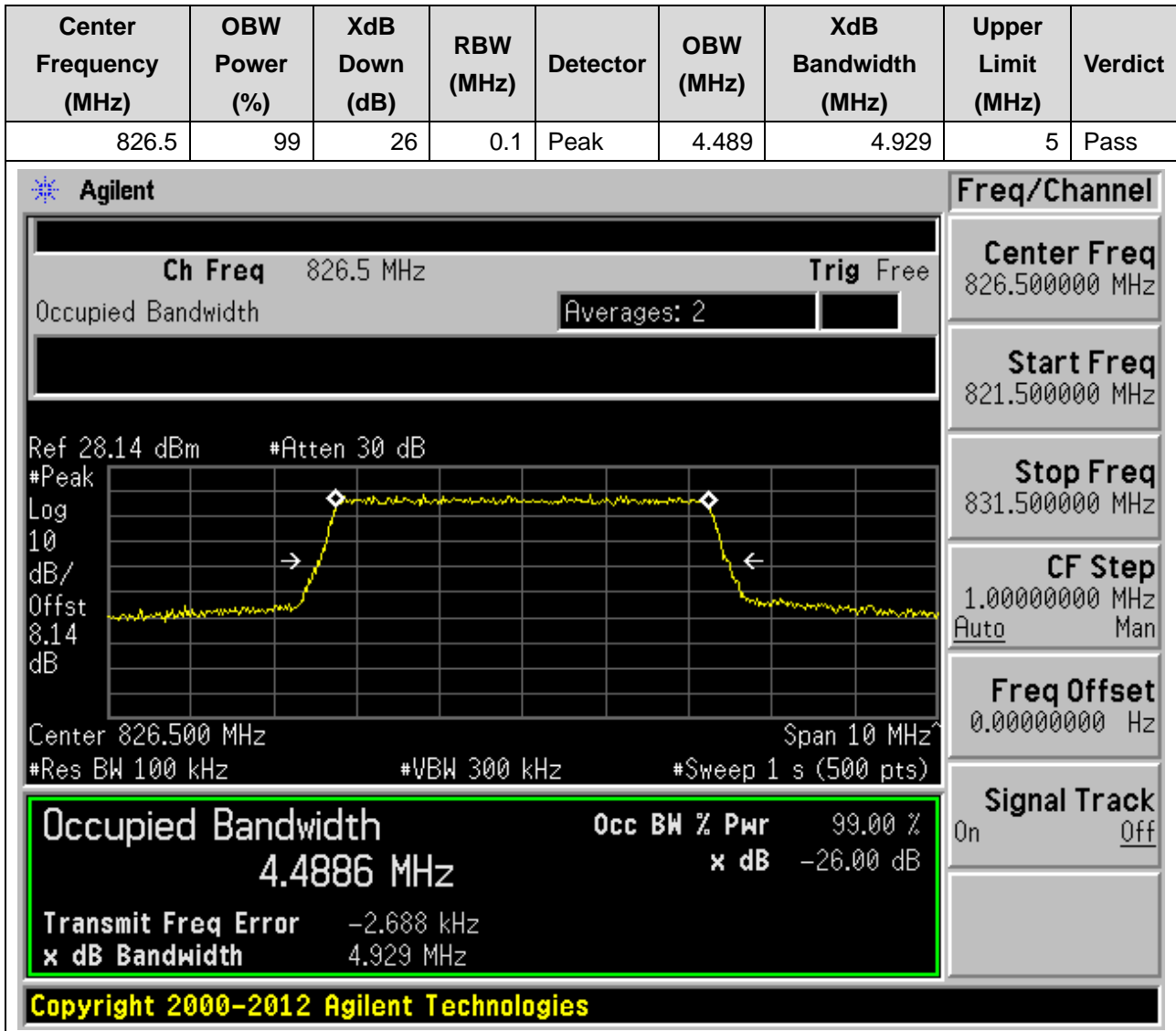
x dB Bandwidth 2.910 MHz

Copyright 2000-2012 Agilent Technologies

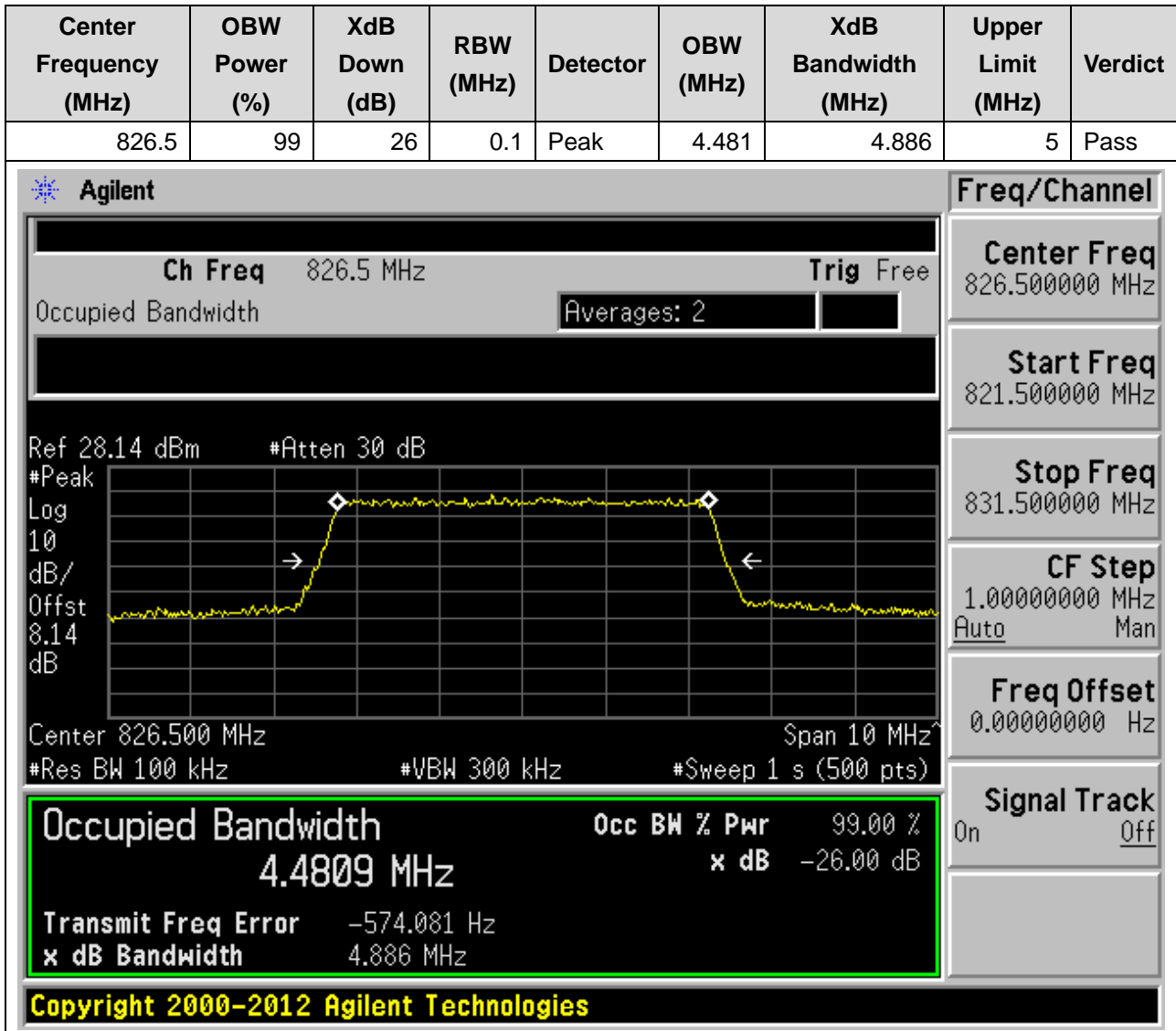
**15.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:27025, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



**15.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:26815, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



**15.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:26815, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

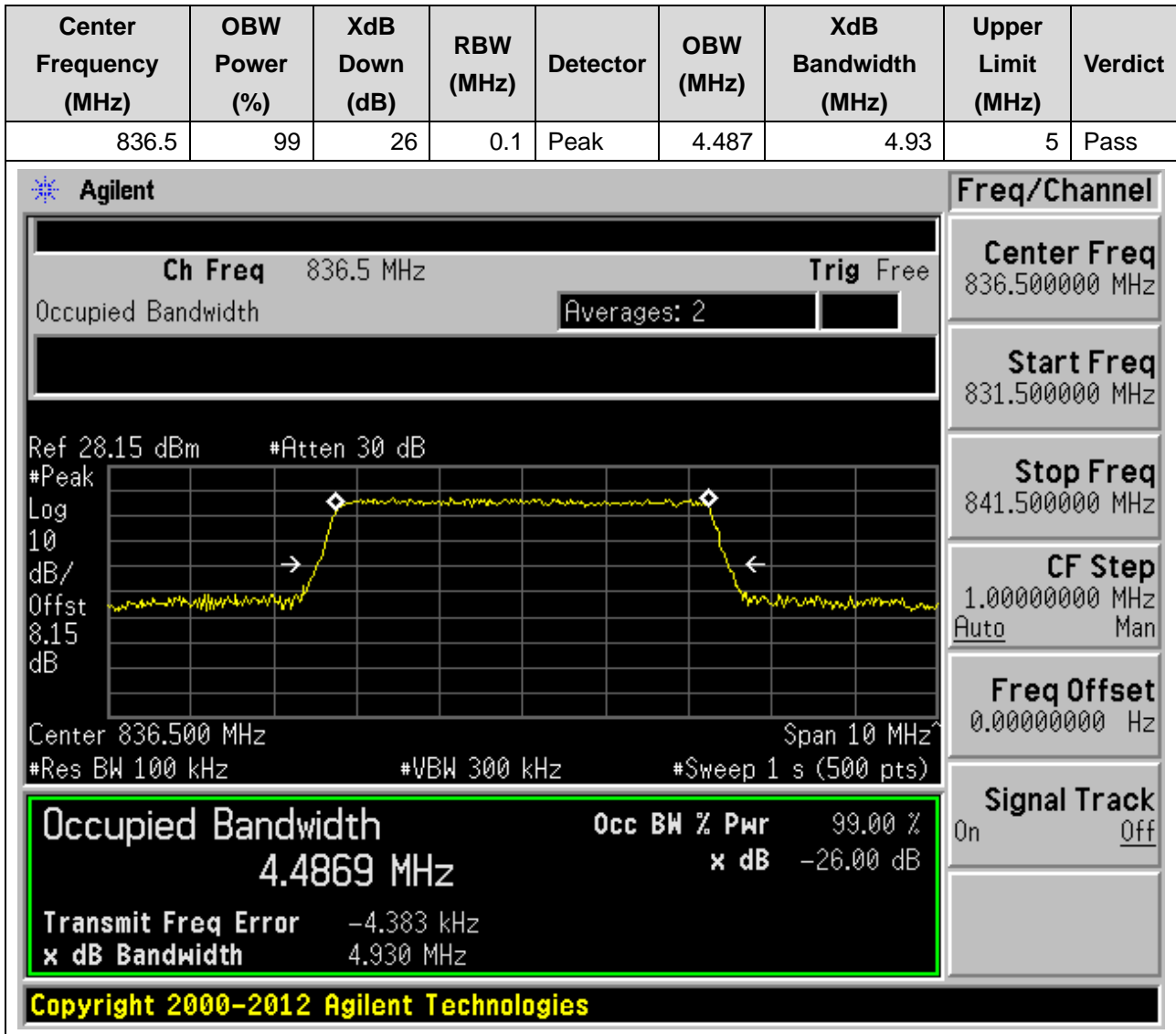




**15.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:26915, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



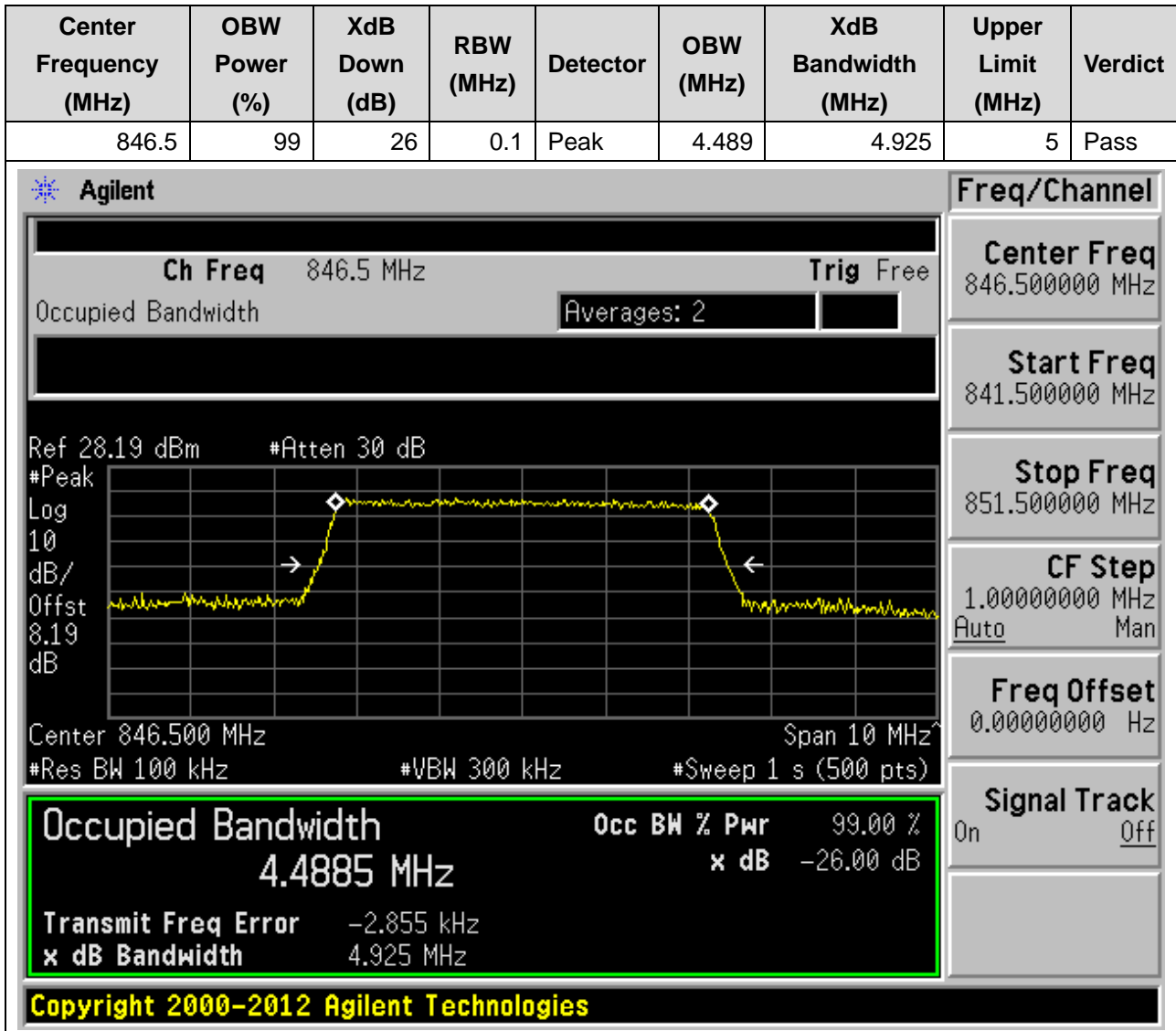
**15.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:26915, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



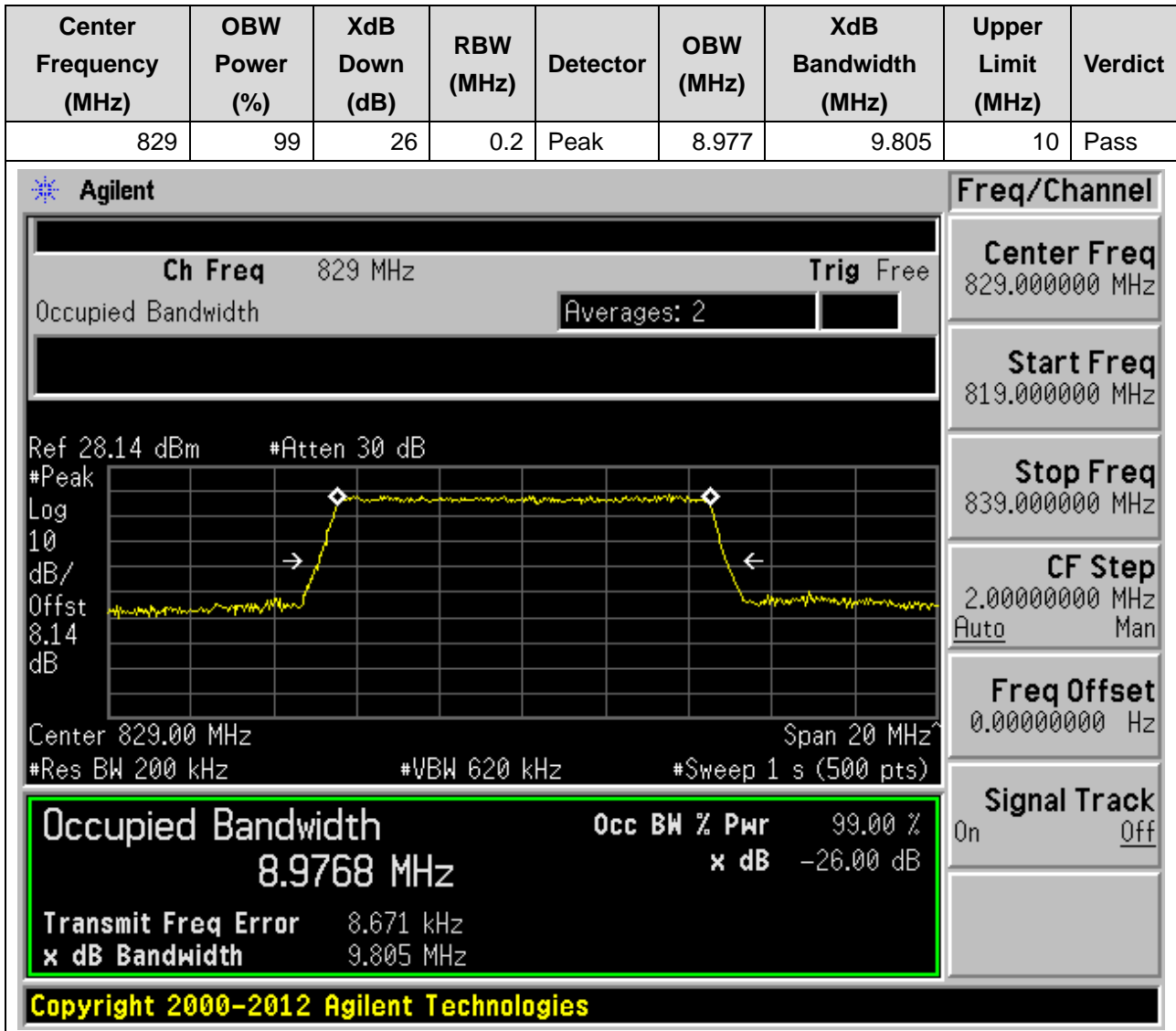
**15.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:27015, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



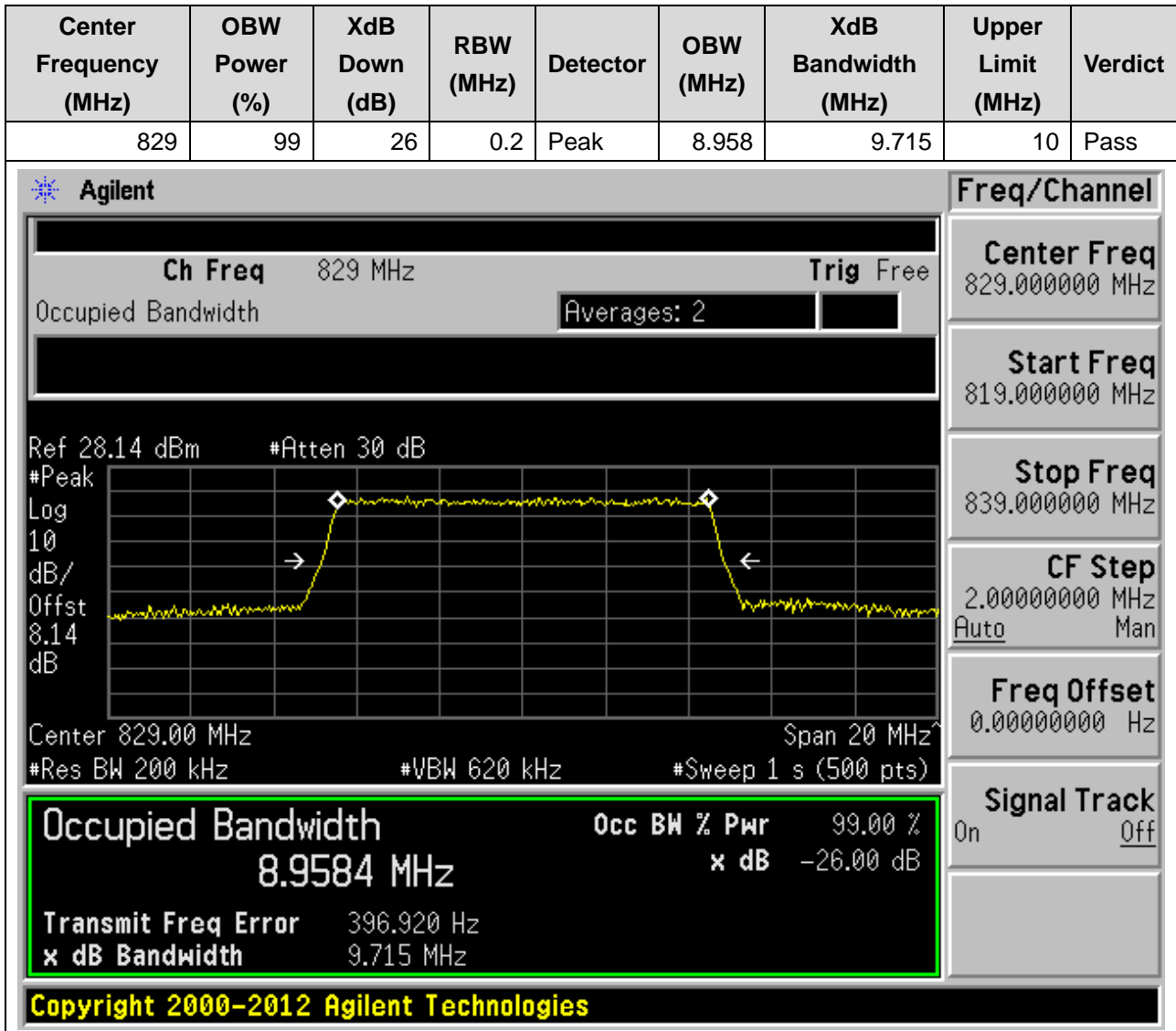
**15.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:27015, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



**15.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:26840, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



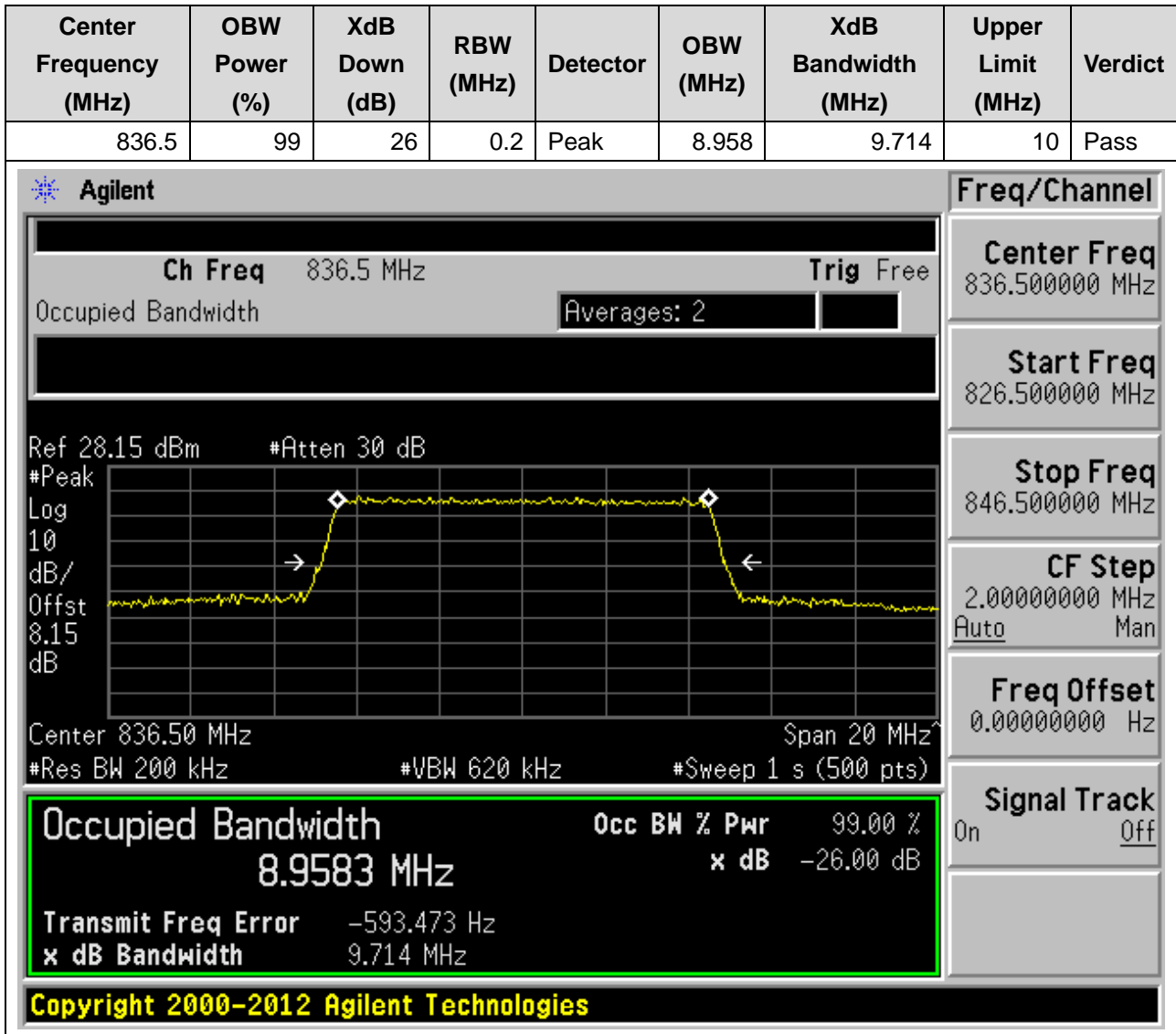
**15.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:26840, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



**15.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:26915, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



**15.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:26915, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**





**15.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:26990, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



**15.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:26990, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
844	99	26	0.2	Peak	8.953	9.755	10	Pass

**Agilent**

Ch Freq 844 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.18 dBm #Atten 30 dB

Center 844.00 MHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

**Freq/Channel**

Center Freq 844.000000 MHz

Start Freq 834.000000 MHz

Stop Freq 854.000000 MHz

CF Step 2.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

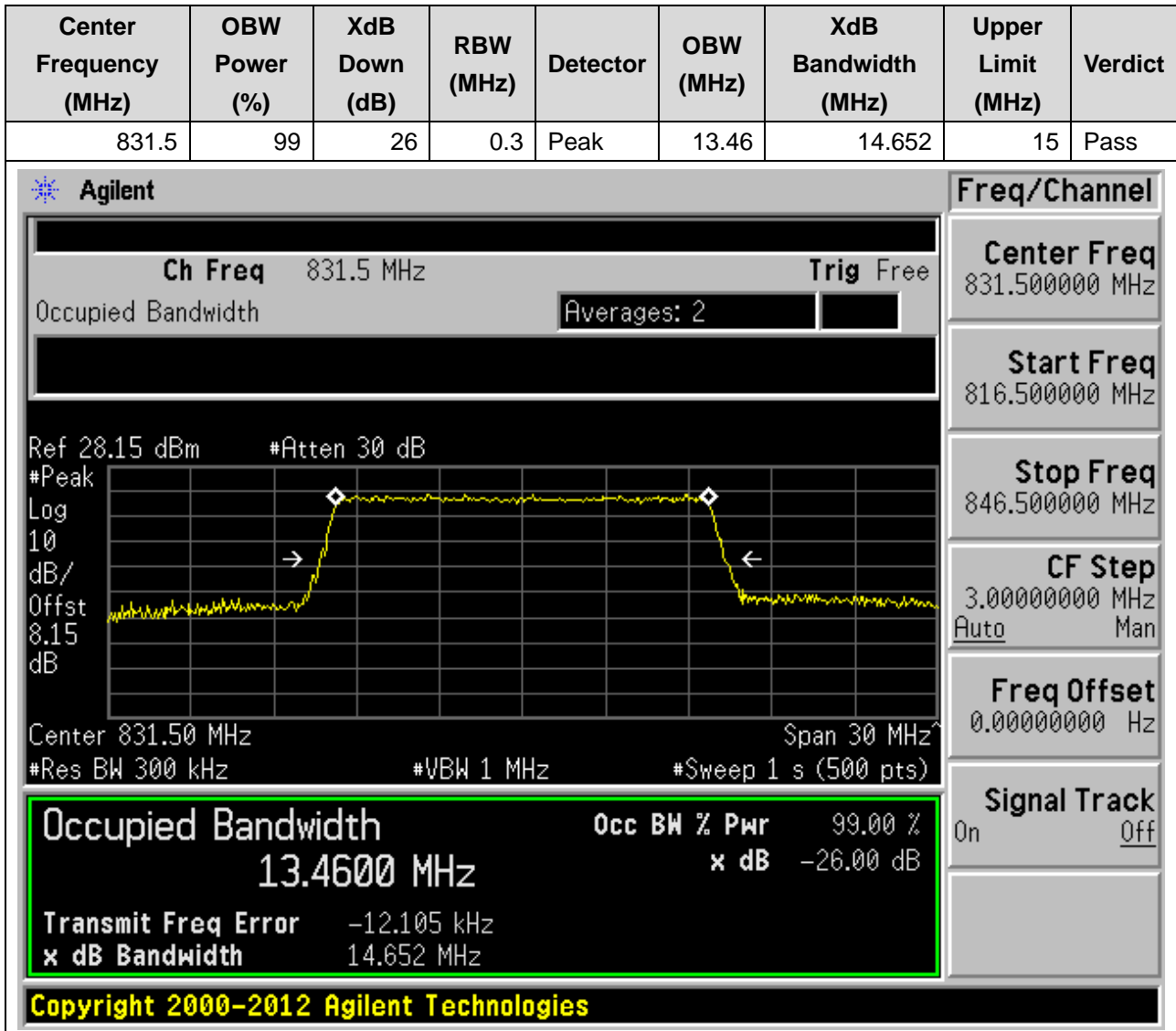
**8.9534 MHz** x dB -26.00 dB

Transmit Freq Error -25.801 kHz

x dB Bandwidth 9.755 MHz

Copyright 2000-2012 Agilent Technologies

**15.25. LTE Occupied Bandwidth(NTNV)(Subtest:25, Channel:26865, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



**15.26. LTE Occupied Bandwidth(NTNV)(Subtest:26, Channel:26865, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
831.5	99	26	0.3	Peak	13.445	14.679	15	Pass

**Agilent**

Ch Freq 831.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.76 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.77 dB

Center 831.50 MHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**13.447 MHz** x dB -26.00 dB

Transmit Freq Error -3.550 kHz

x dB Bandwidth 14.679 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 831.500000 MHz

Start Freq 816.500000 MHz

Stop Freq 846.500000 MHz

CF Step 3.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

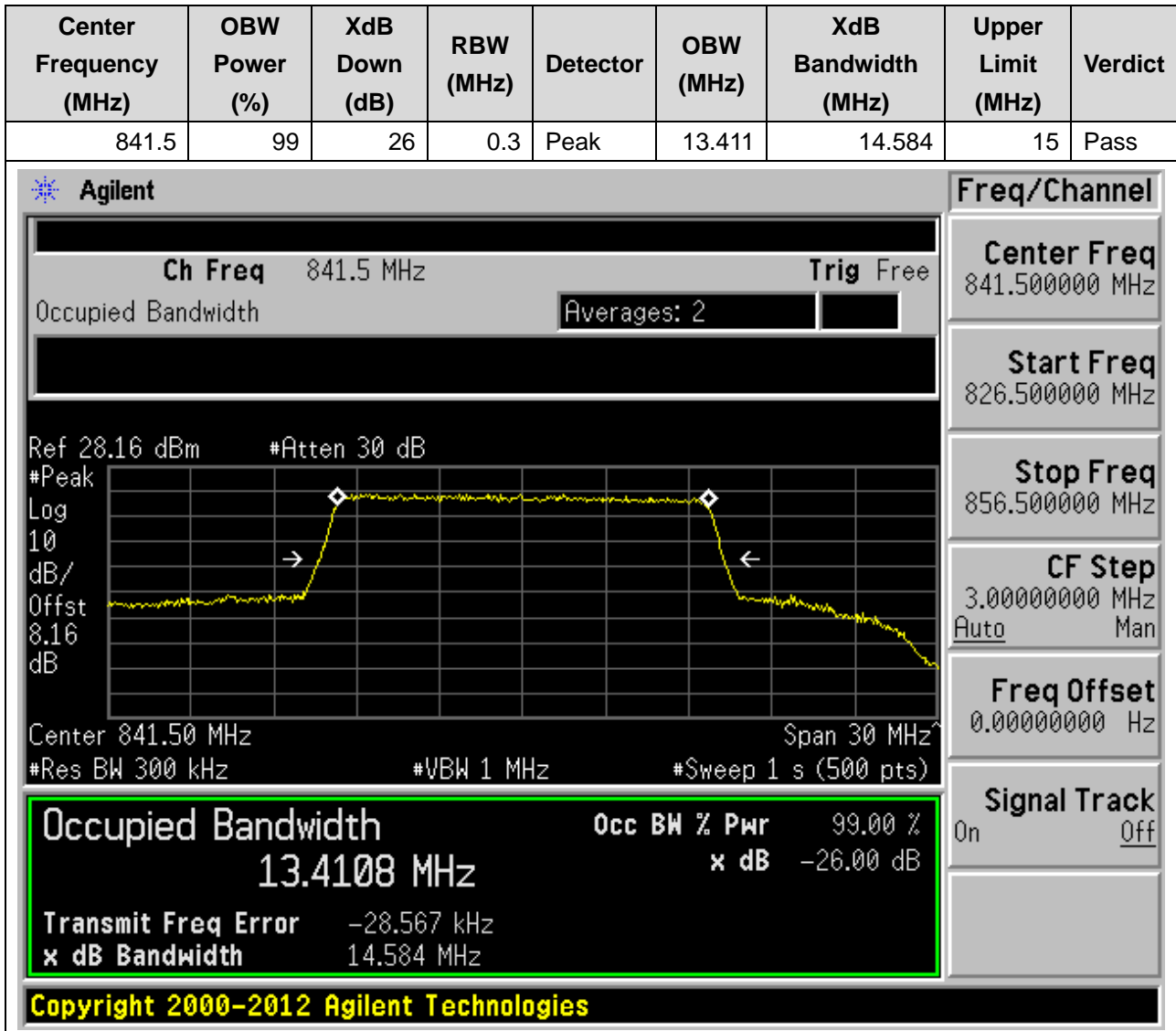
**15.27. LTE Occupied Bandwidth(NTNV)(Subtest:27, Channel:26915, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



**15.28. LTE Occupied Bandwidth(NTNV)(Subtest:28, Channel:26915, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



**15.29. LTE Occupied Bandwidth(NTNV)(Subtest:29, Channel:26965, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



**15.30. LTE Occupied Bandwidth(NTNV)(Subtest:30, Channel:26965, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
841.5	99	26	0.3	Peak	13.439	14.551	15	Pass

**Agilent**

Ch Freq 841.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.16 dBm #Atten 30 dB

Center 841.50 MHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (500 pts)

**Freq/Channel**

Center Freq 841.500000 MHz

Start Freq 826.500000 MHz

Stop Freq 856.500000 MHz

CF Step 3.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**13.4392 MHz** x dB -26.00 dB

Transmit Freq Error -22.079 kHz

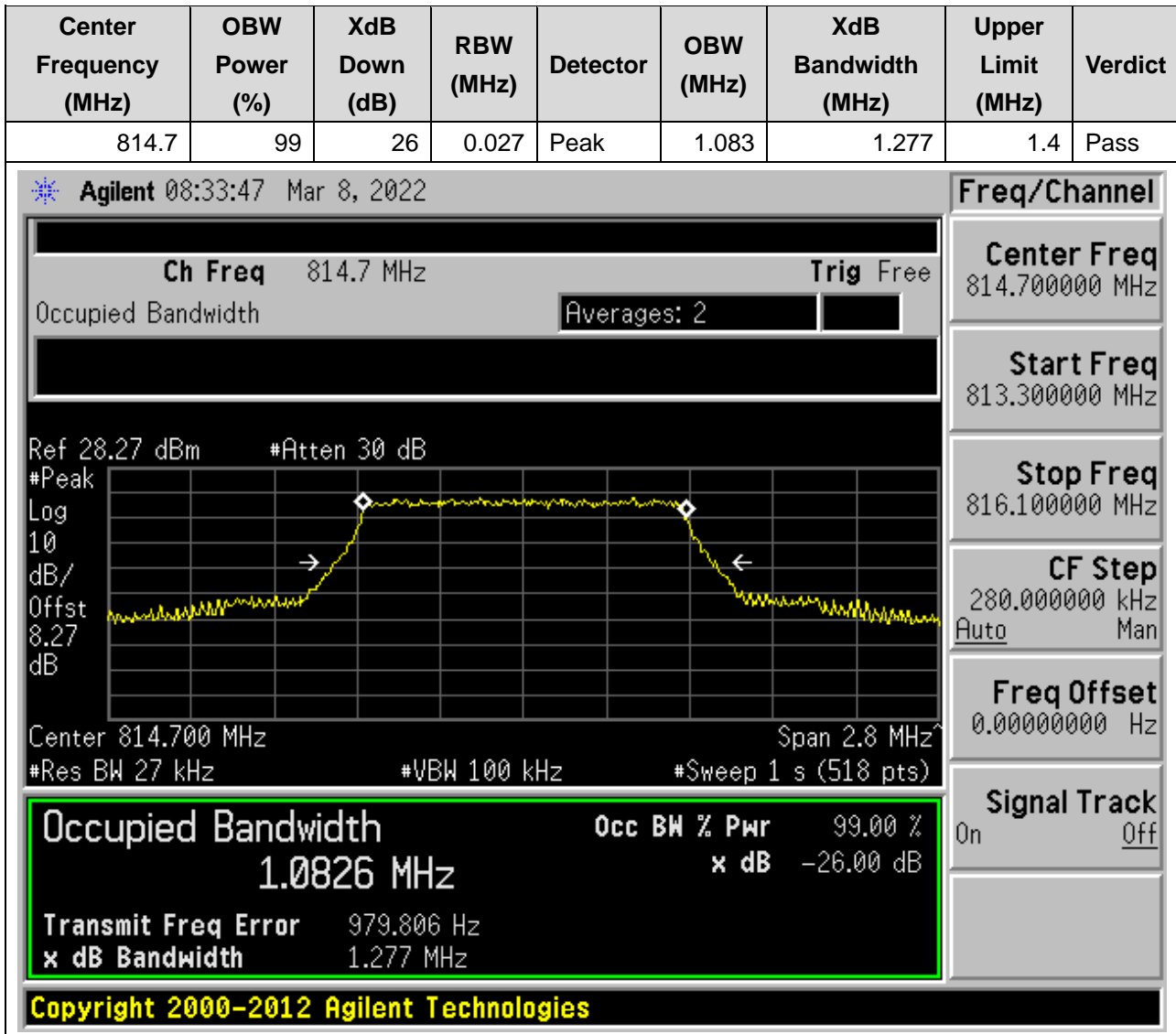
x dB Bandwidth 14.551 MHz

Copyright 2000-2012 Agilent Technologies

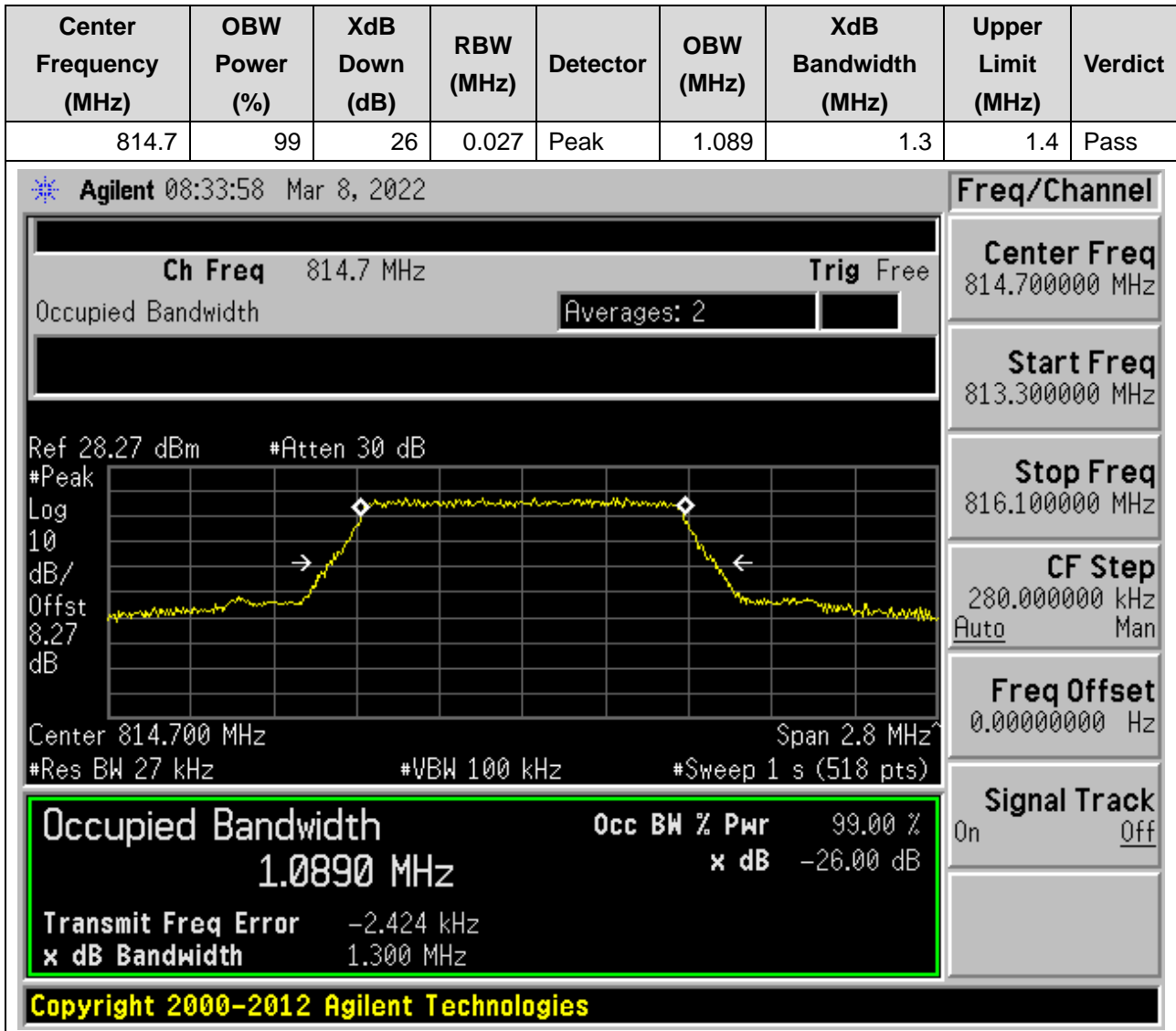


## 16. LTE\_Band26(part90)

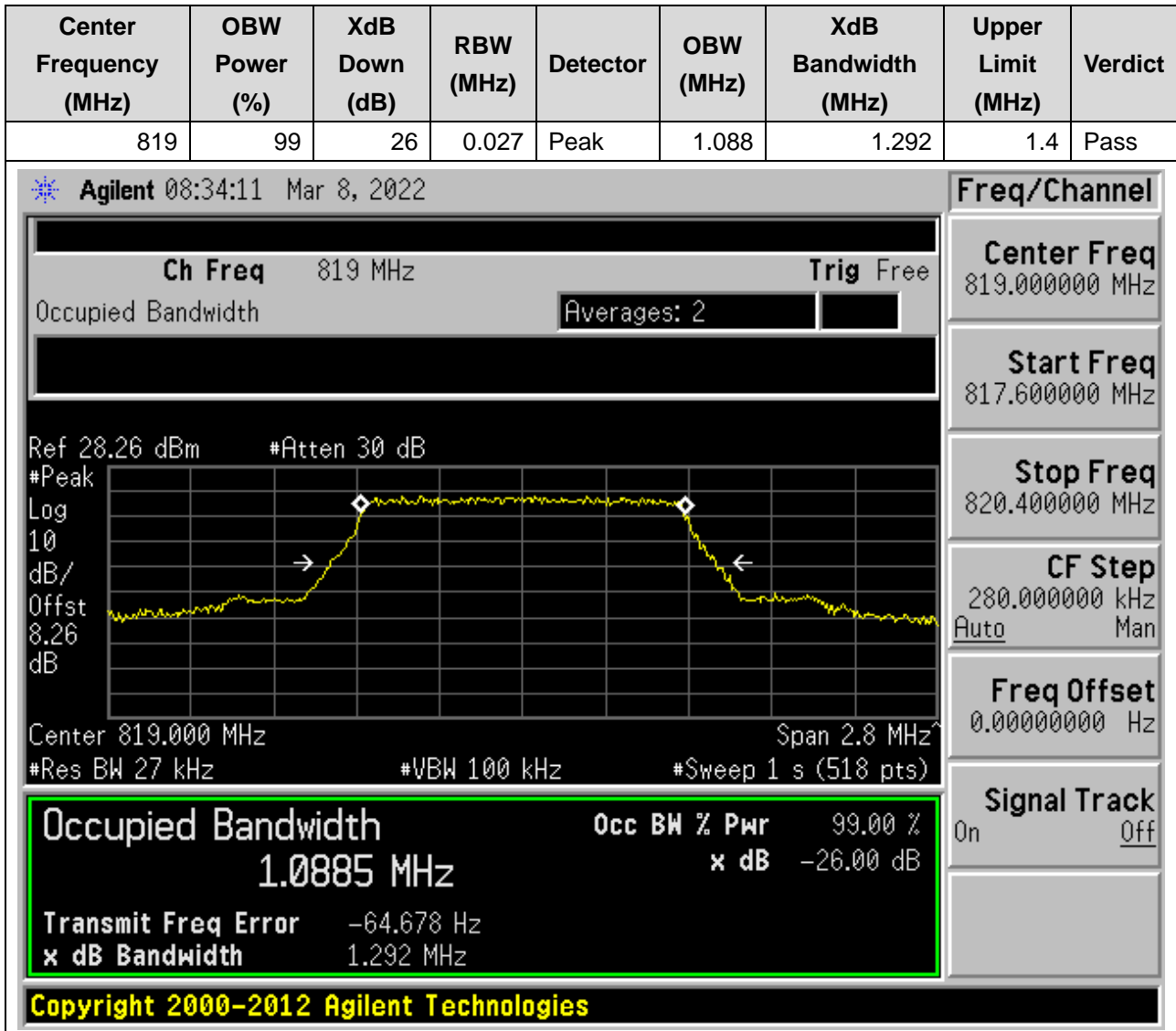
### 16.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:26697, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



**16.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:26697, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



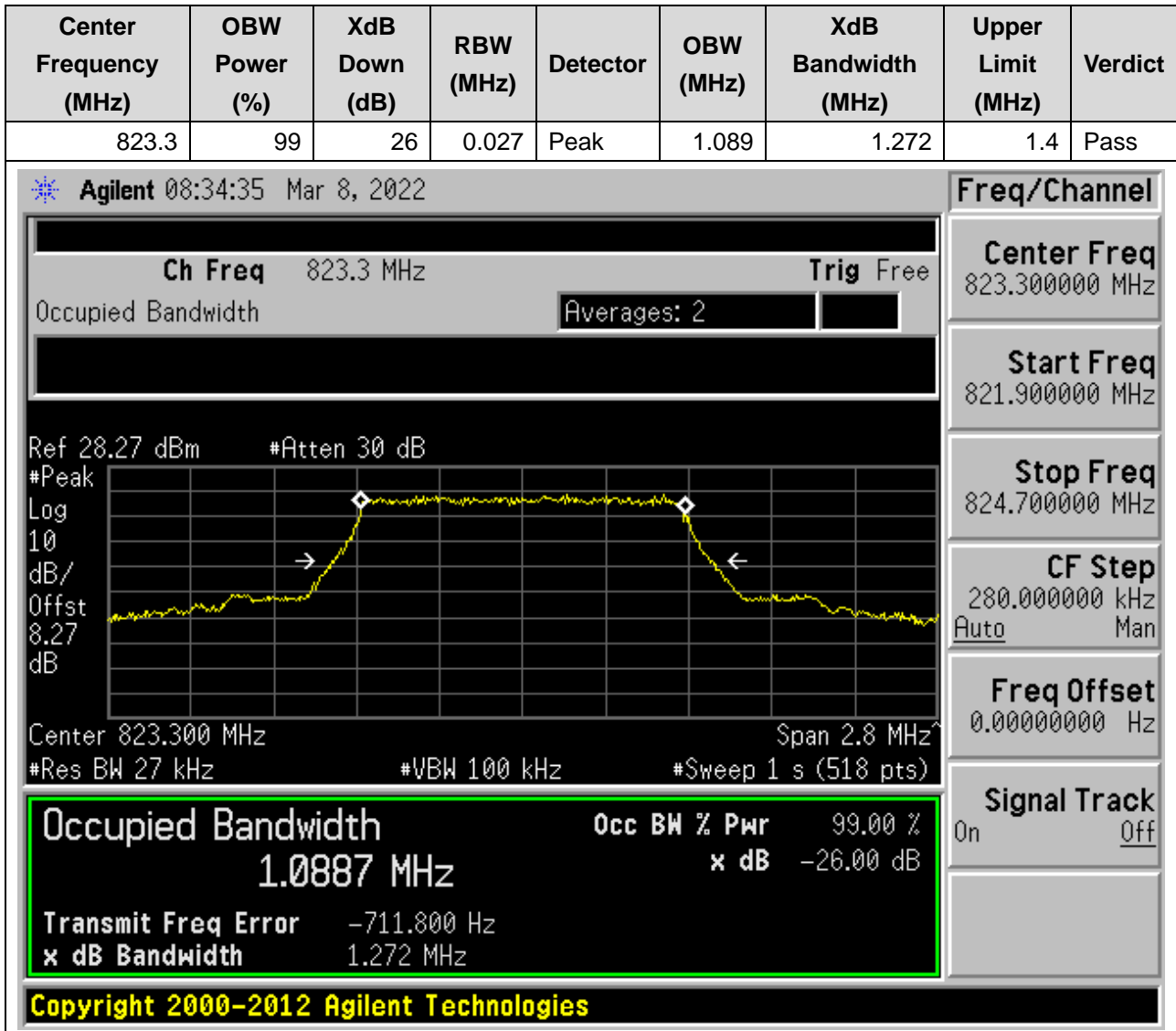
**16.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:26740, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



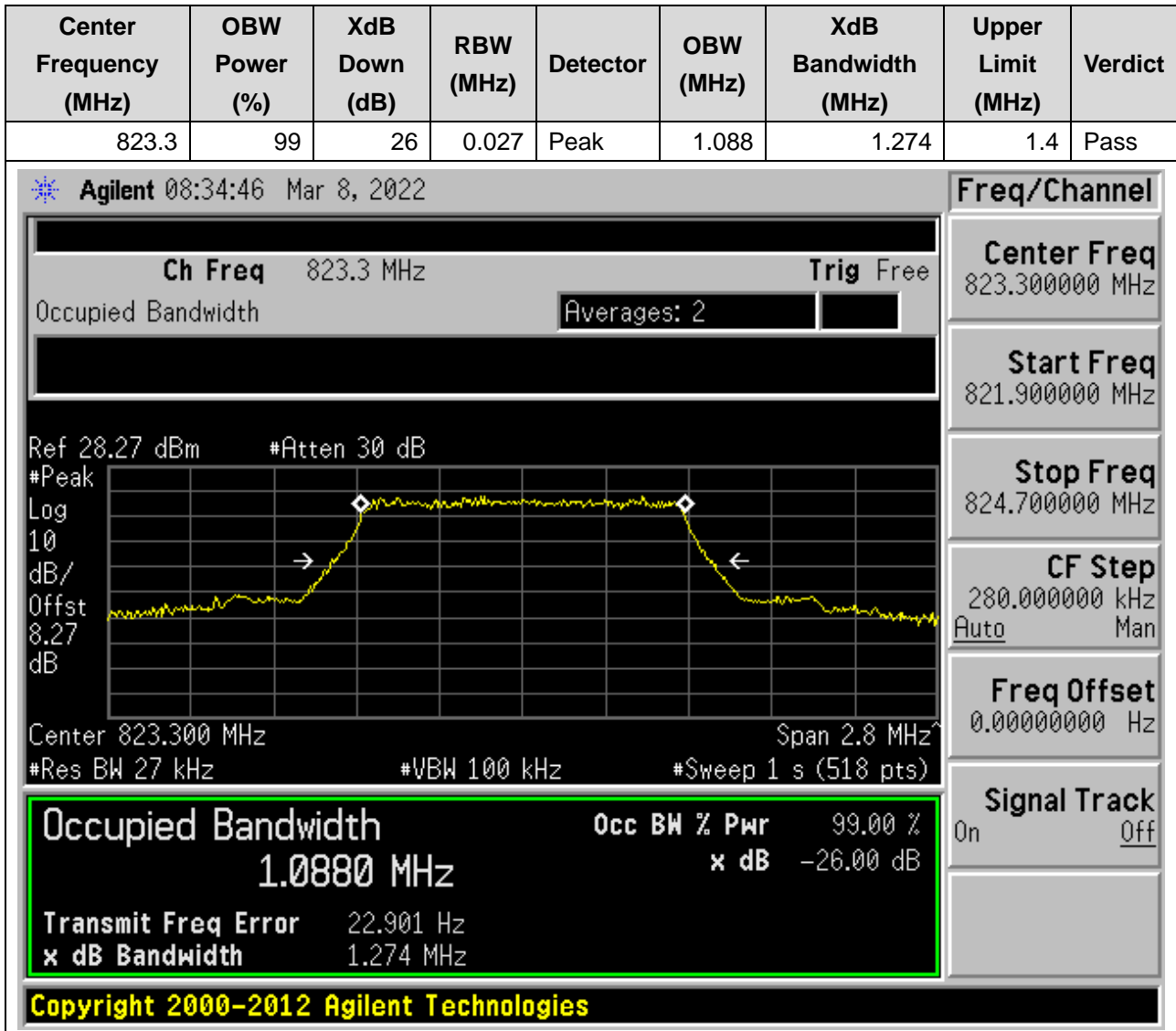
**16.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:26740, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



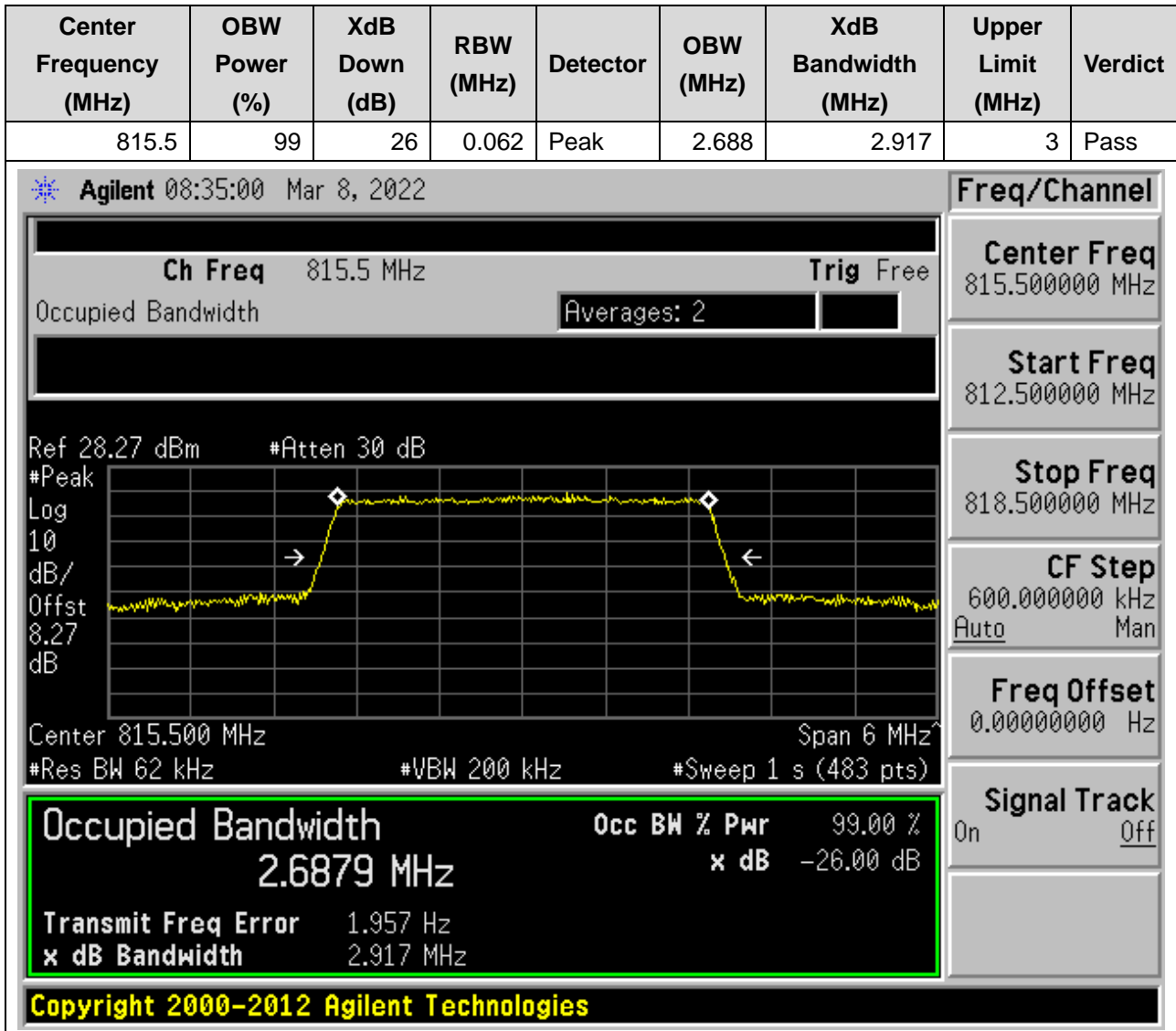
**16.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:26783, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



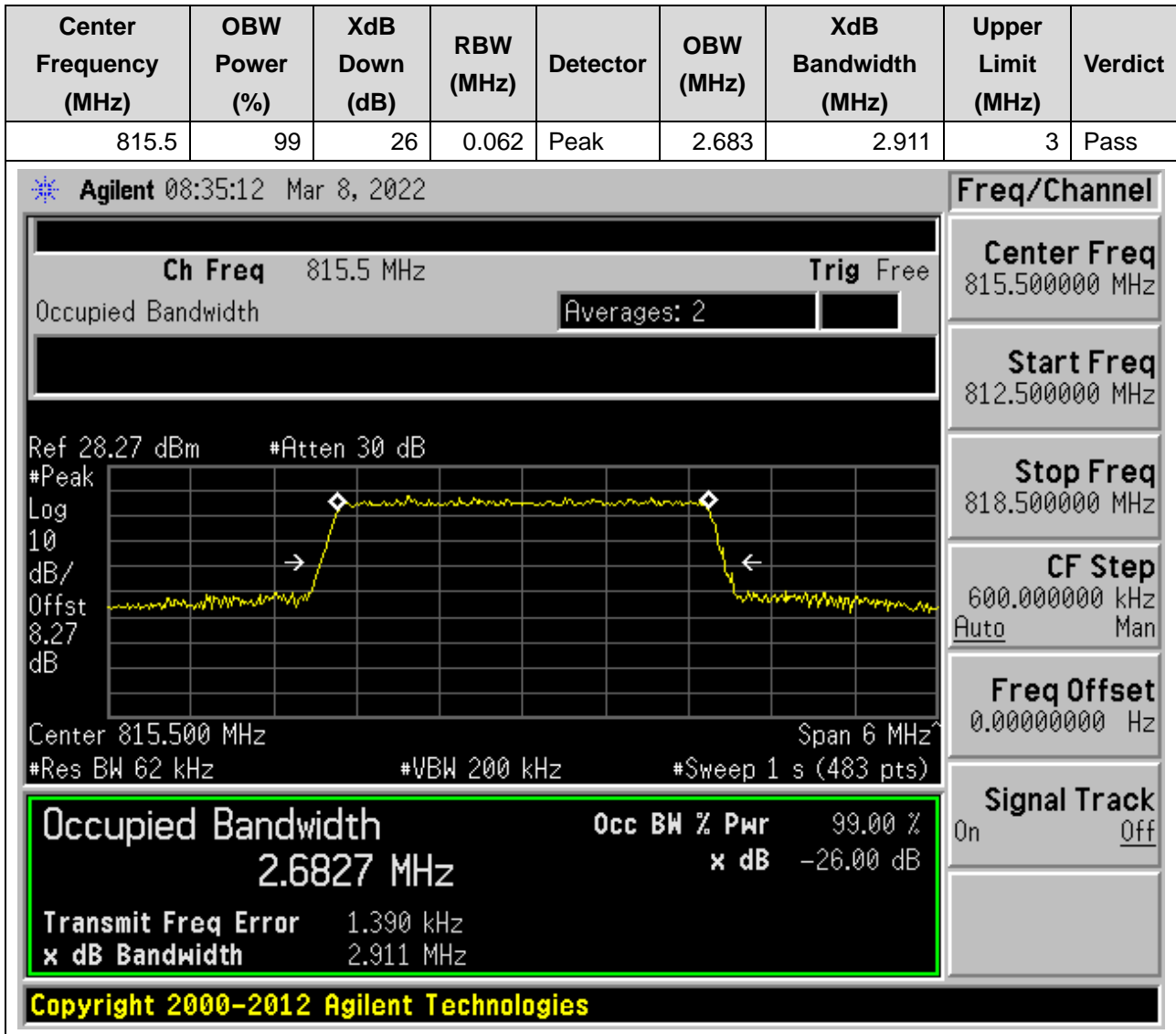
**16.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:26783, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



**16.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:26705, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

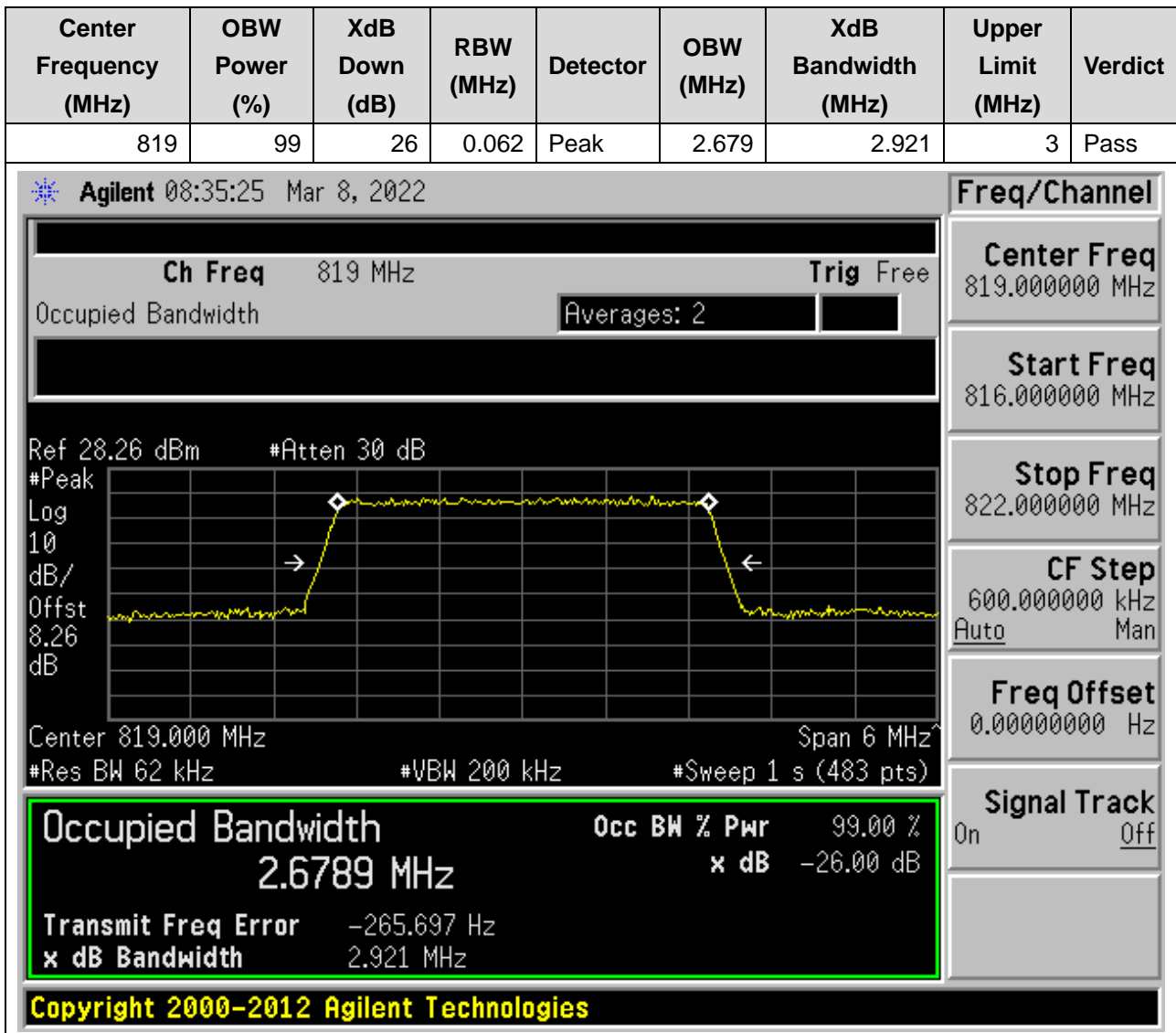


**16.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:26705, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

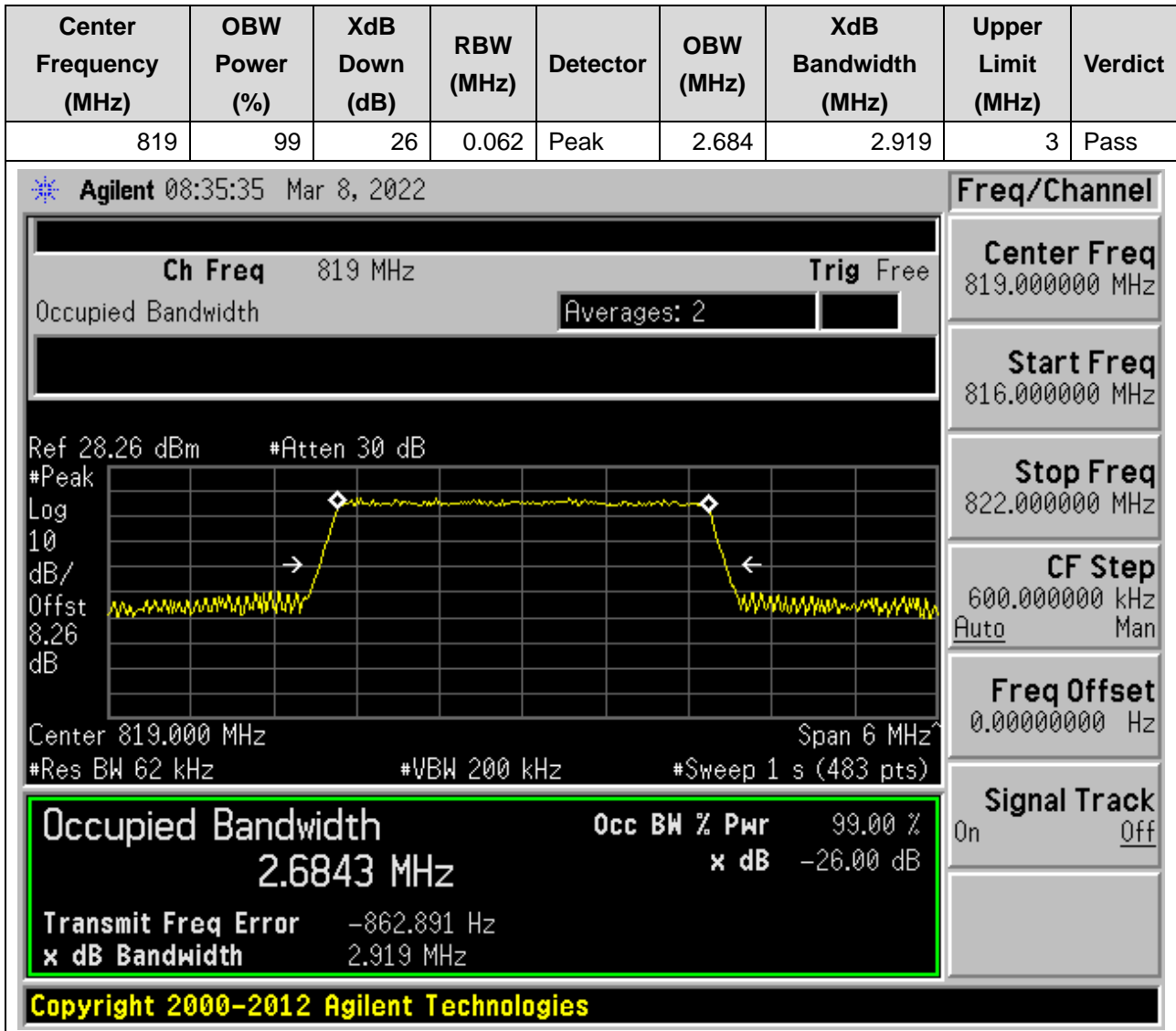




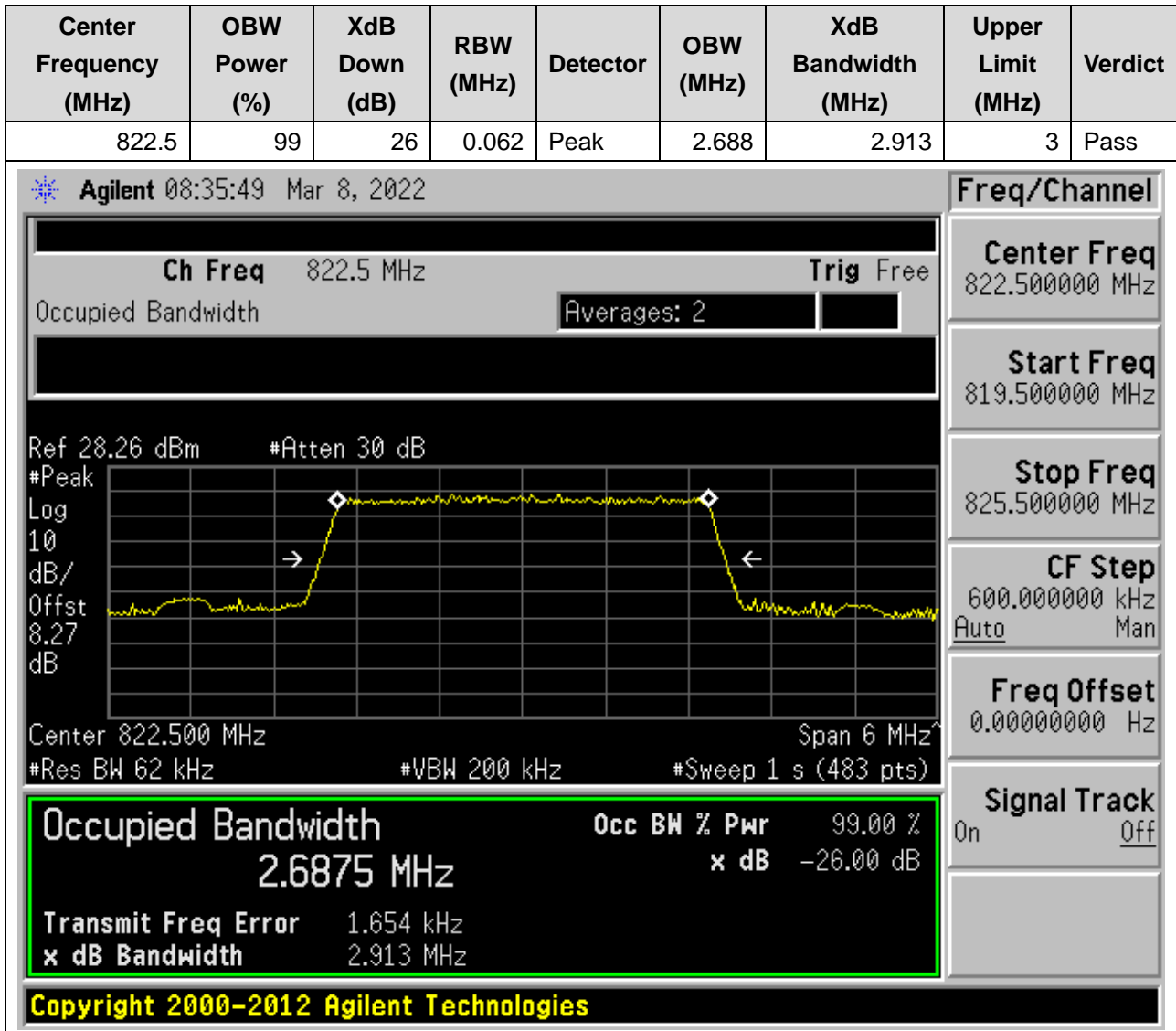
**16.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:26740, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



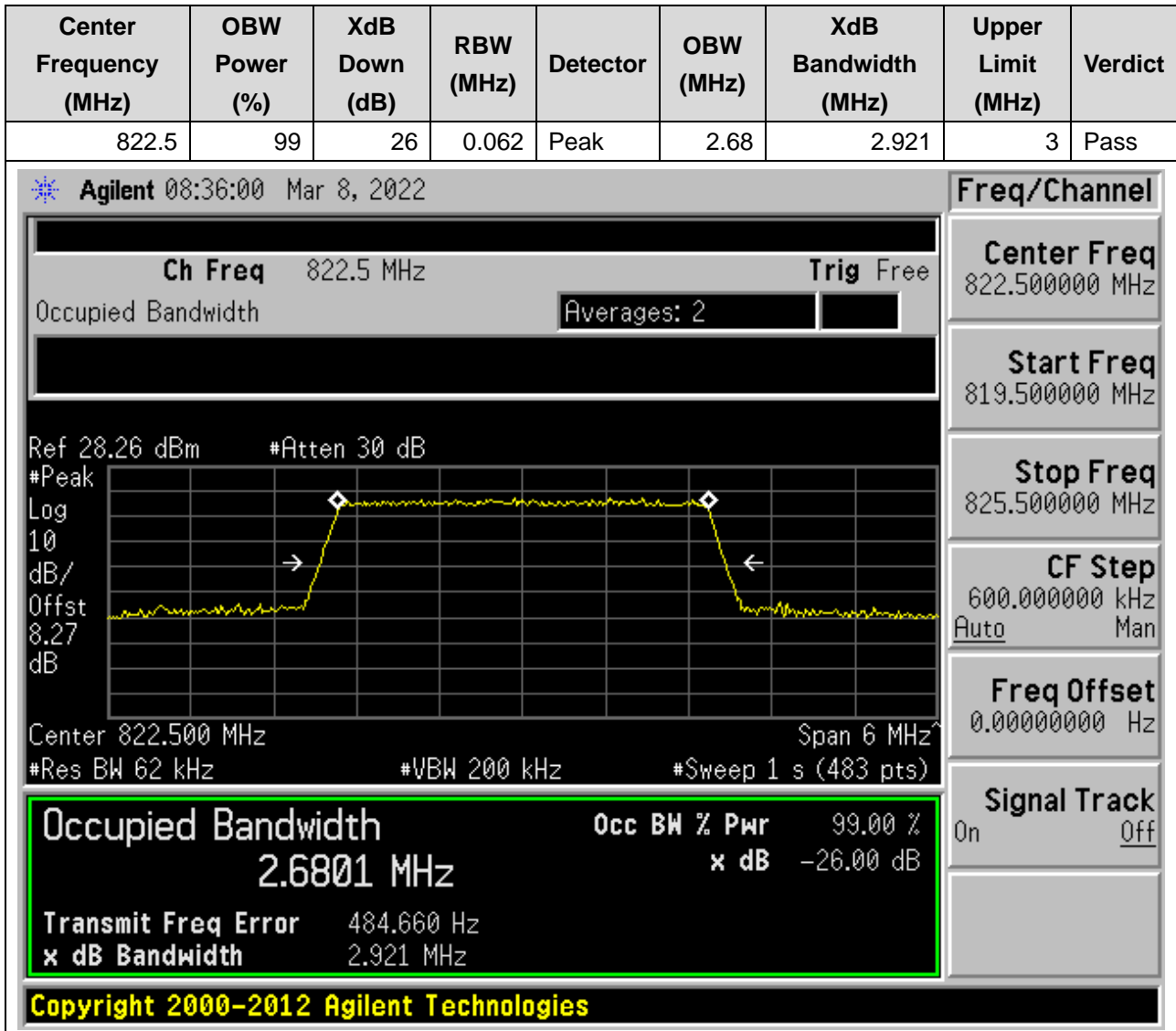
**16.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:26740, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



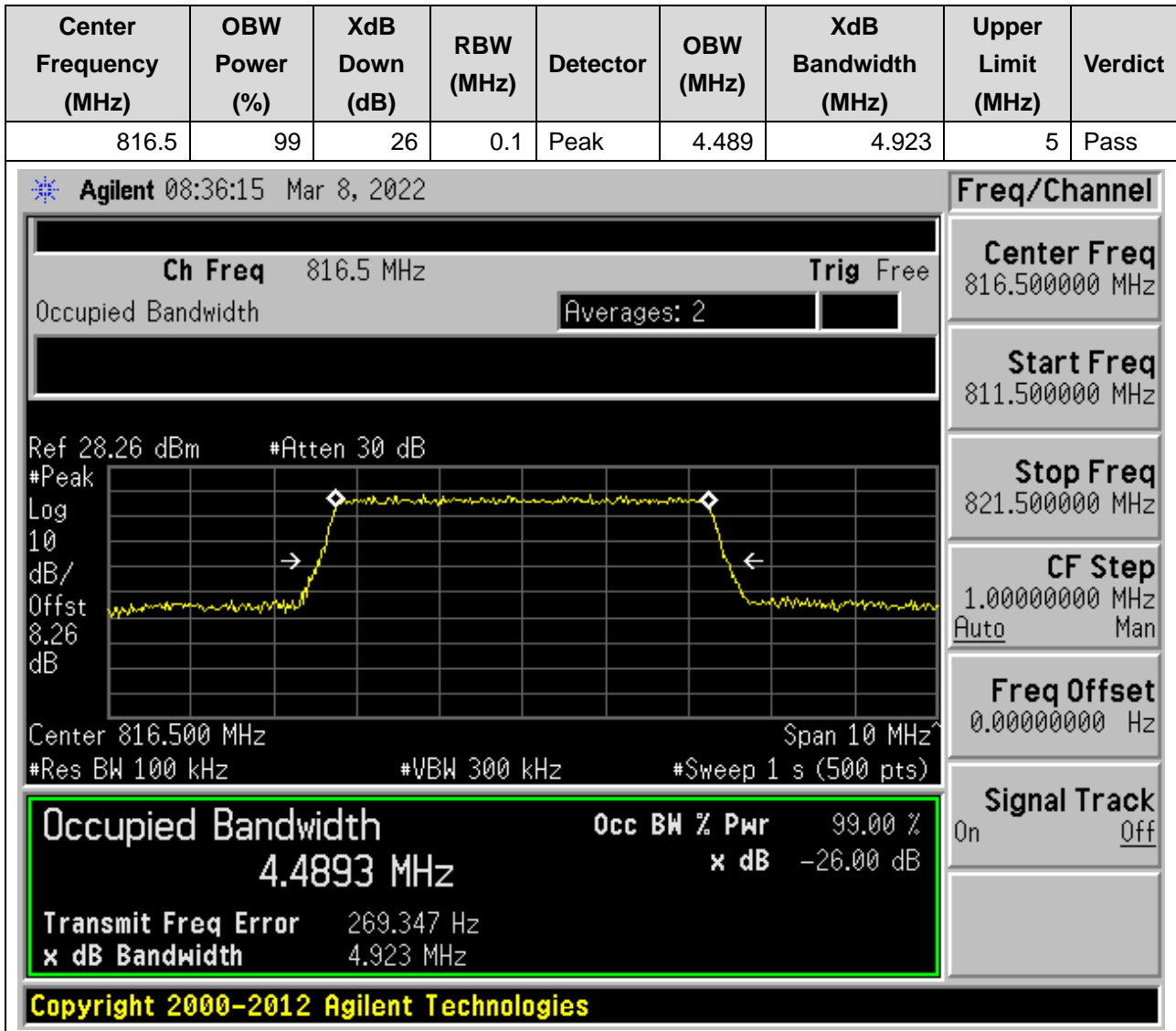
**16.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:26775, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



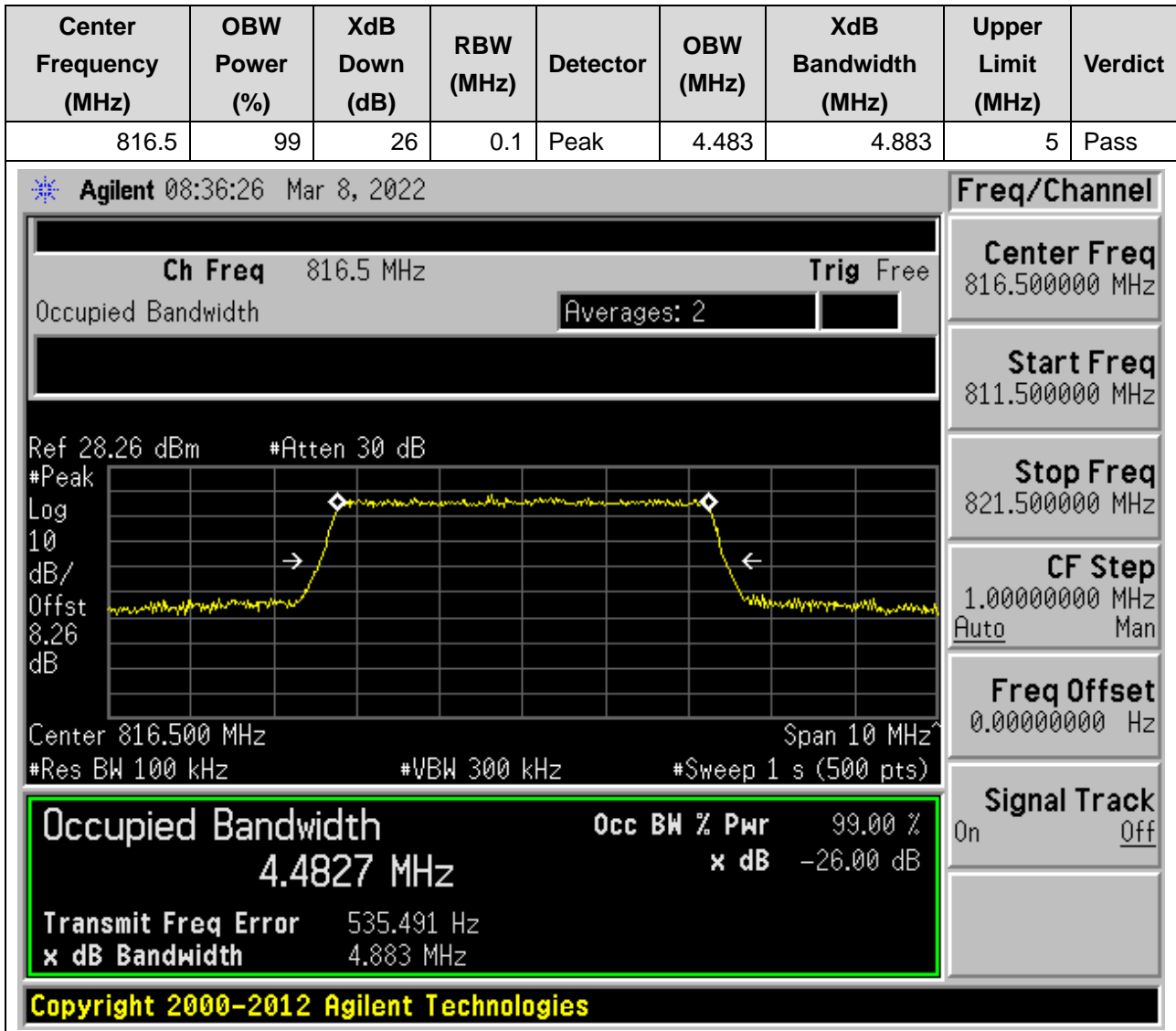
**16.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:26775, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



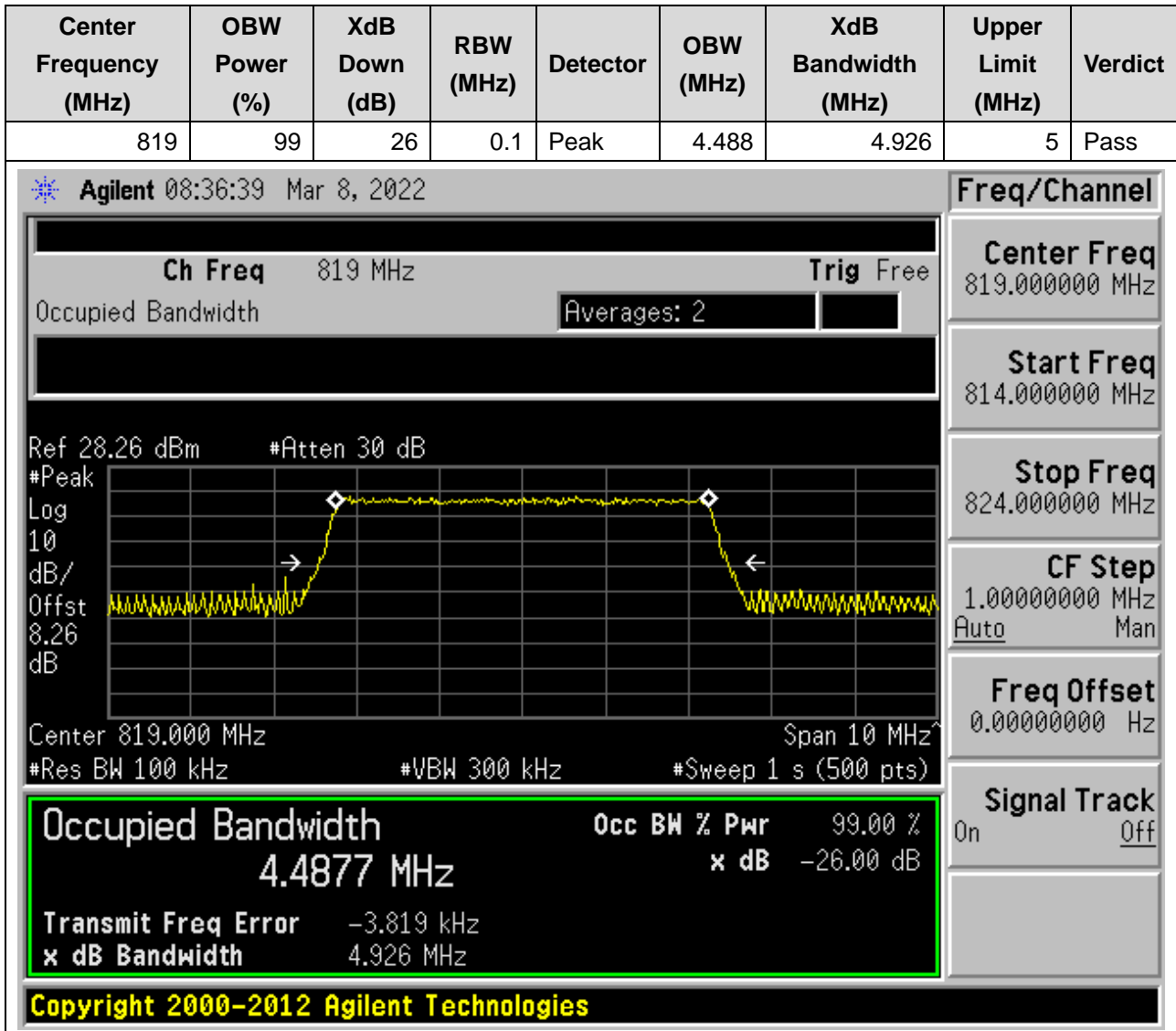
**16.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:26715, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



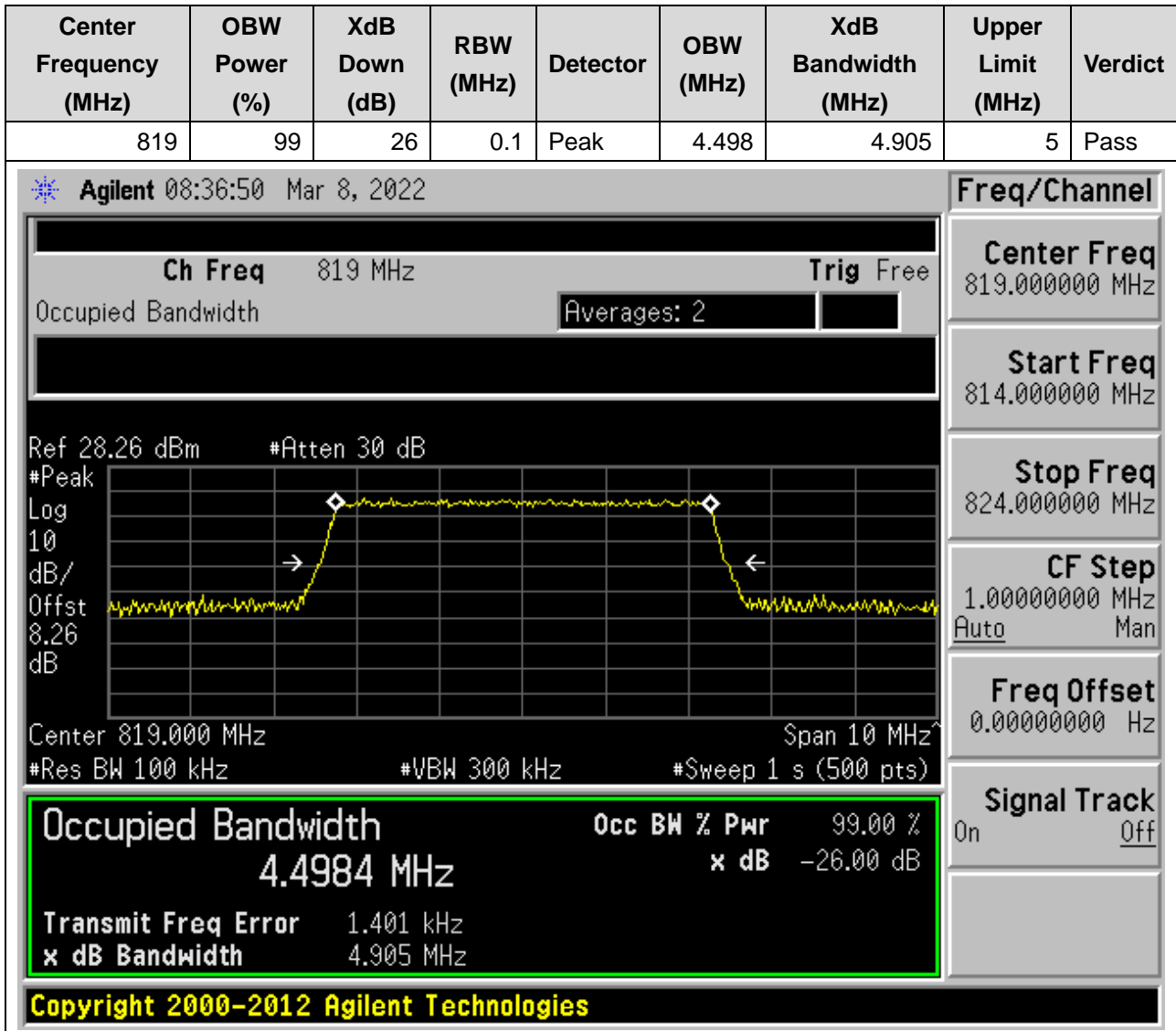
**16.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:26715, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



**16.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:26740, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

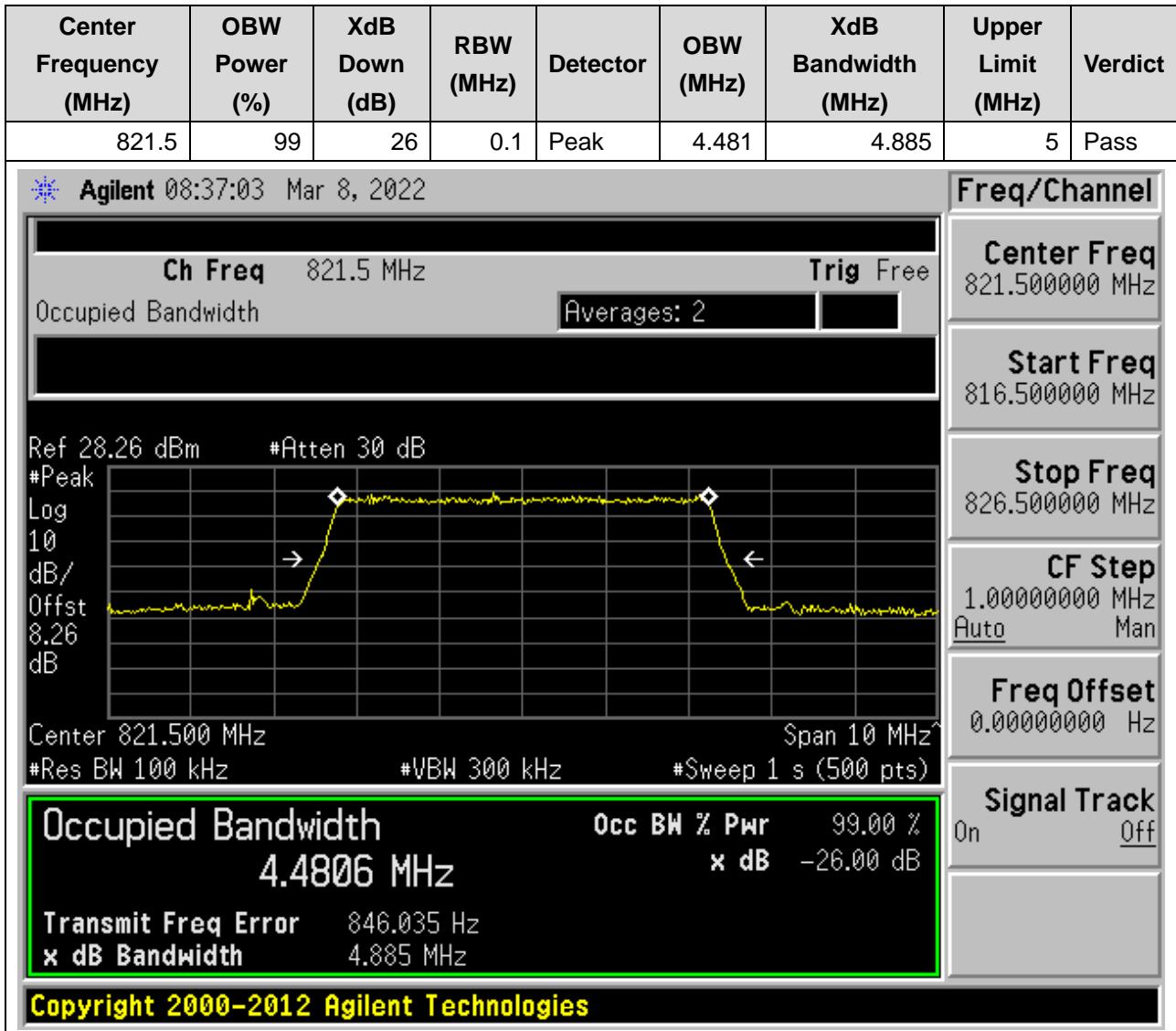


**16.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:26740, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

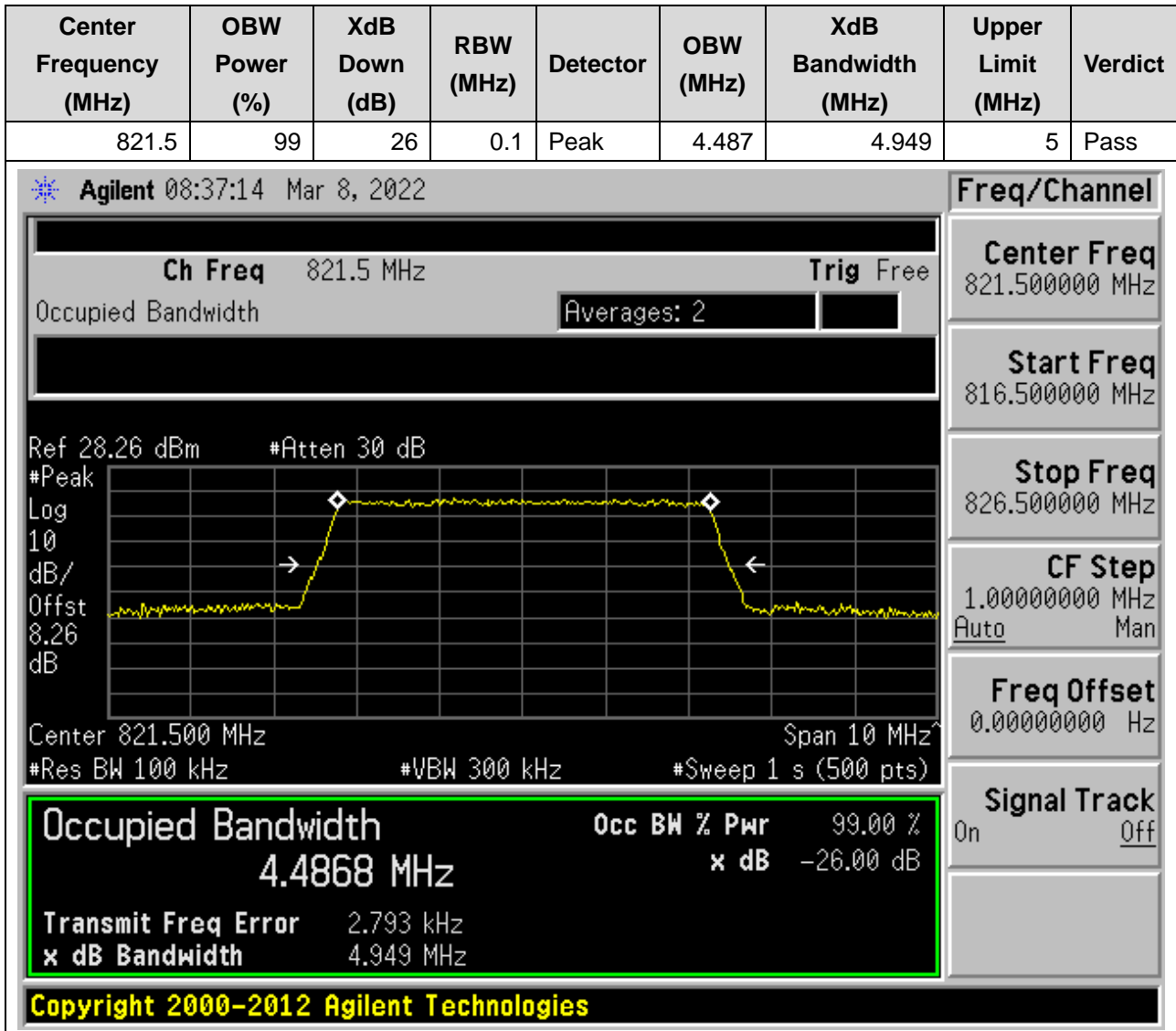




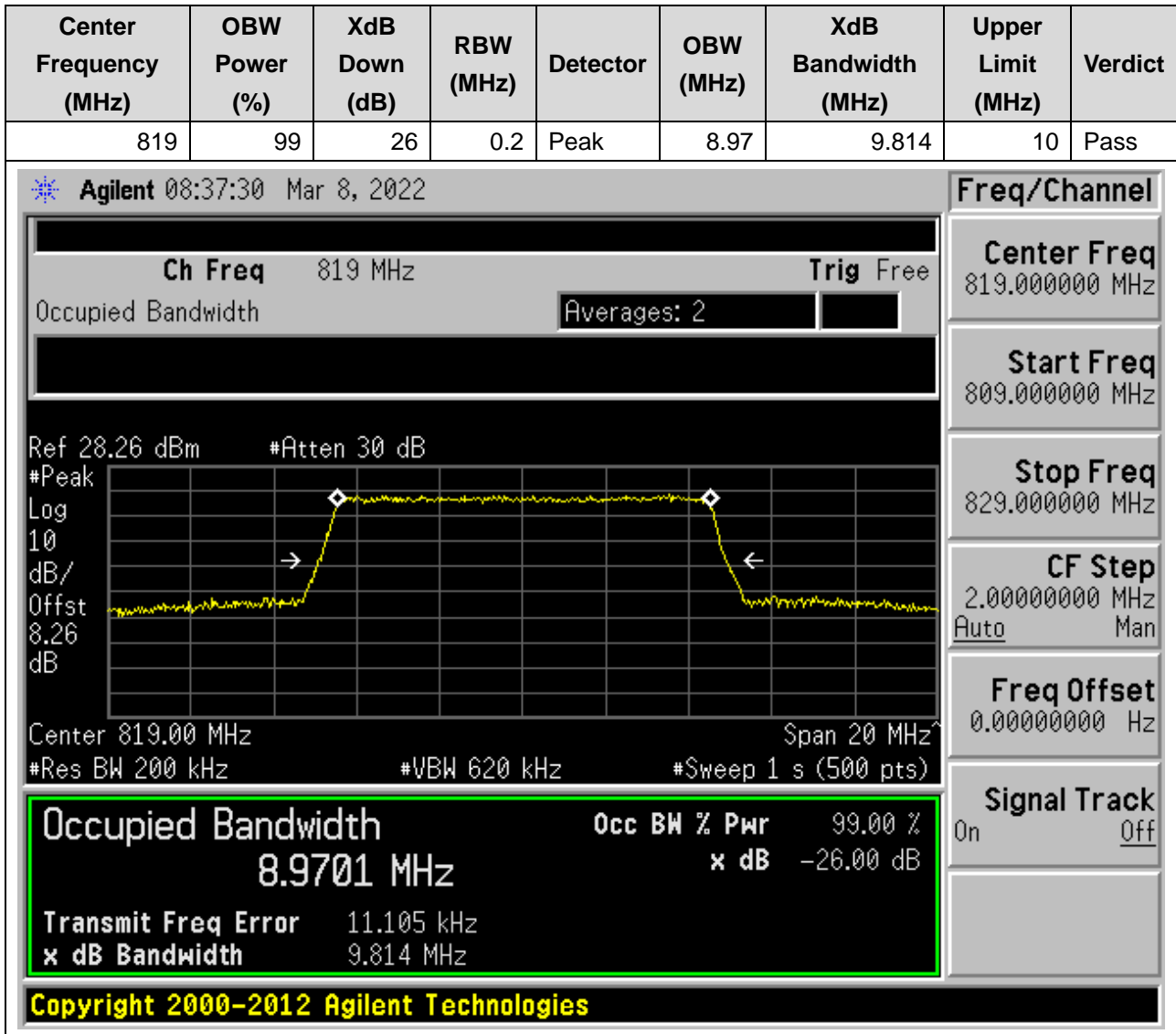
**16.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:26765, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



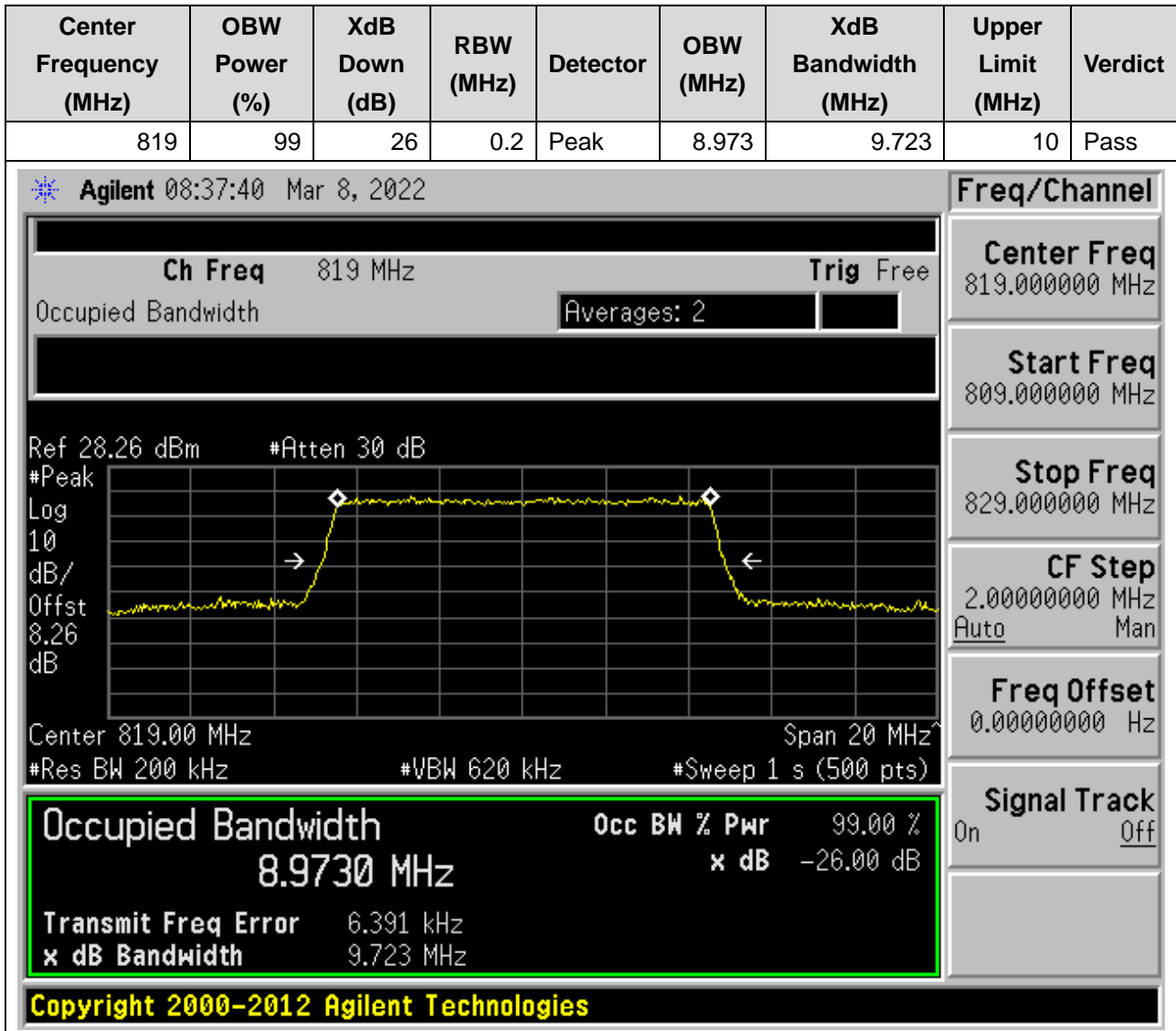
**16.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:26765, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



**16.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:26740, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

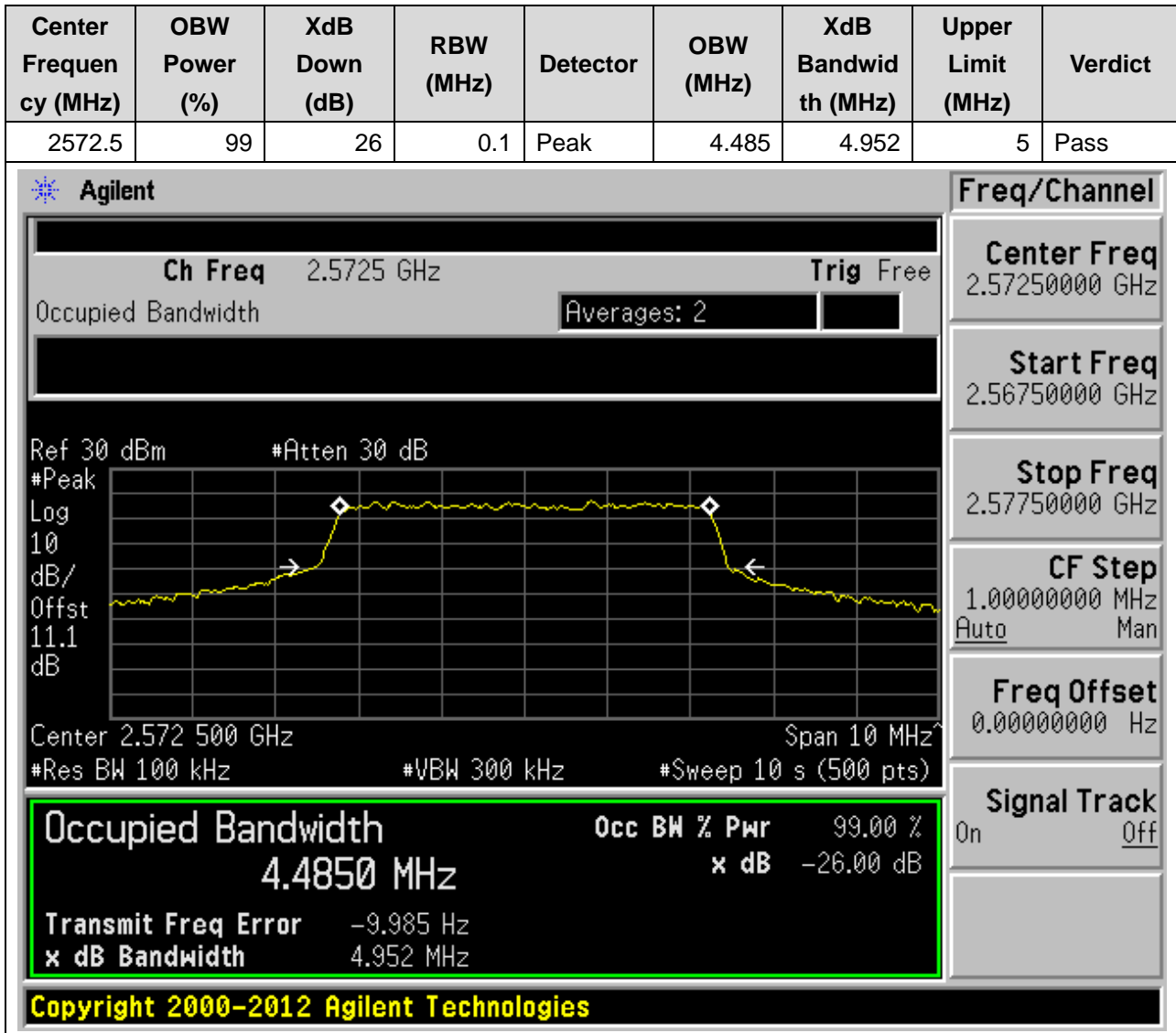


**16.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:26740, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



## 17. LTE\_Band38

17.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:37775, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



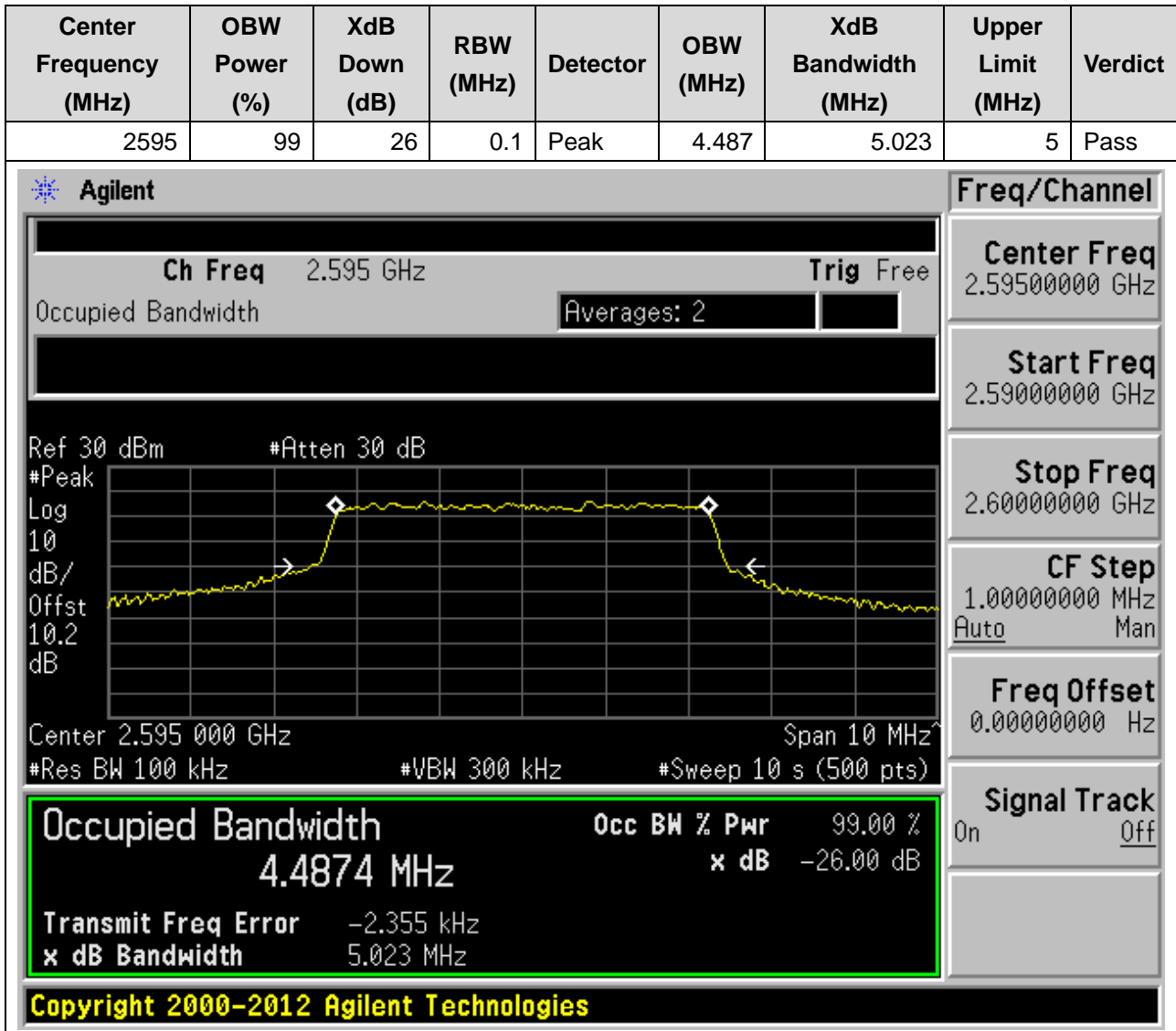
**17.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:37775, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2572.5	99	26	0.1	Peak	4.488	5.06	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is centered at 2.5725 GHz with a span of 10 MHz. The y-axis is labeled 'dB/Offst' and ranges from 10 to 11.1 dB. The plot shows a signal with a peak at approximately 2.5725 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 4.4884 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -1.377 kHz and the 'x dB Bandwidth' is 5.060 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Agilent		Freq/Channel	
Ch Freq	2.5725 GHz	Center Freq	2.57250000 GHz
Occupied Bandwidth	Averages: 2	Start Freq	2.56750000 GHz
Ref 30 dBm	#Atten 30 dB	Stop Freq	2.57750000 GHz
#Peak		CF Step	1.00000000 MHz Auto Man
Log		Freq Offset	0.00000000 Hz
10		Signal Track	On Off
dB/Offst			
11.1			
dB			
Center	2.572 500 GHz		
#Res BW	100 kHz		
#VBW	300 kHz		
#Sweep	10 s (500 pts)		
Occupied Bandwidth		Occ BW % Pwr	99.00 %
4.4884 MHz		x dB	-26.00 dB
Transmit Freq Error	-1.377 kHz		
x dB Bandwidth	5.060 MHz		
Copyright 2000-2012 Agilent Technologies			

**17.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:38000, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



**17.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:38000, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.1	Peak	4.483	4.97	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.595 GHz. The occupied bandwidth is 4.483 MHz, which is 99.00% of the 4.970 MHz bandwidth. The XdB down is -26.00 dB. The transmit frequency error is -2.232 kHz. The interface includes various control panels and a data summary table.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
4.4830 MHz		x dB	-26.00 dB
Transmit Freq Error		-2.232 kHz	
x dB Bandwidth		4.970 MHz	

Copyright 2000-2012 Agilent Technologies



**17.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:38225, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2617.5	99	26	0.1	Peak	4.495	5.182	5	Pass

**Agilent**

Ch Freq 2.6175 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.2 dB

Center 2.617 500 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 10 s (500 pts)

**Occupied Bandwidth 4.4952 MHz**

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error -1.073 kHz  
x dB Bandwidth 5.182 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 2.61750000 GHz

Start Freq 2.61250000 GHz

Stop Freq 2.62250000 GHz

CF Step 1.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**17.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:38225, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



**17.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:37800, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2575	99	26	0.2	Peak	8.974	9.905	10	Pass

**Agilent**

Ch Freq 2.575 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 2.575 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (500 pts)

**Freq/Channel**

Center Freq 2.57500000 GHz

Start Freq 2.56500000 GHz

Stop Freq 2.58500000 GHz

CF Step 2.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

8.9744 MHz

x dB -26.00 dB

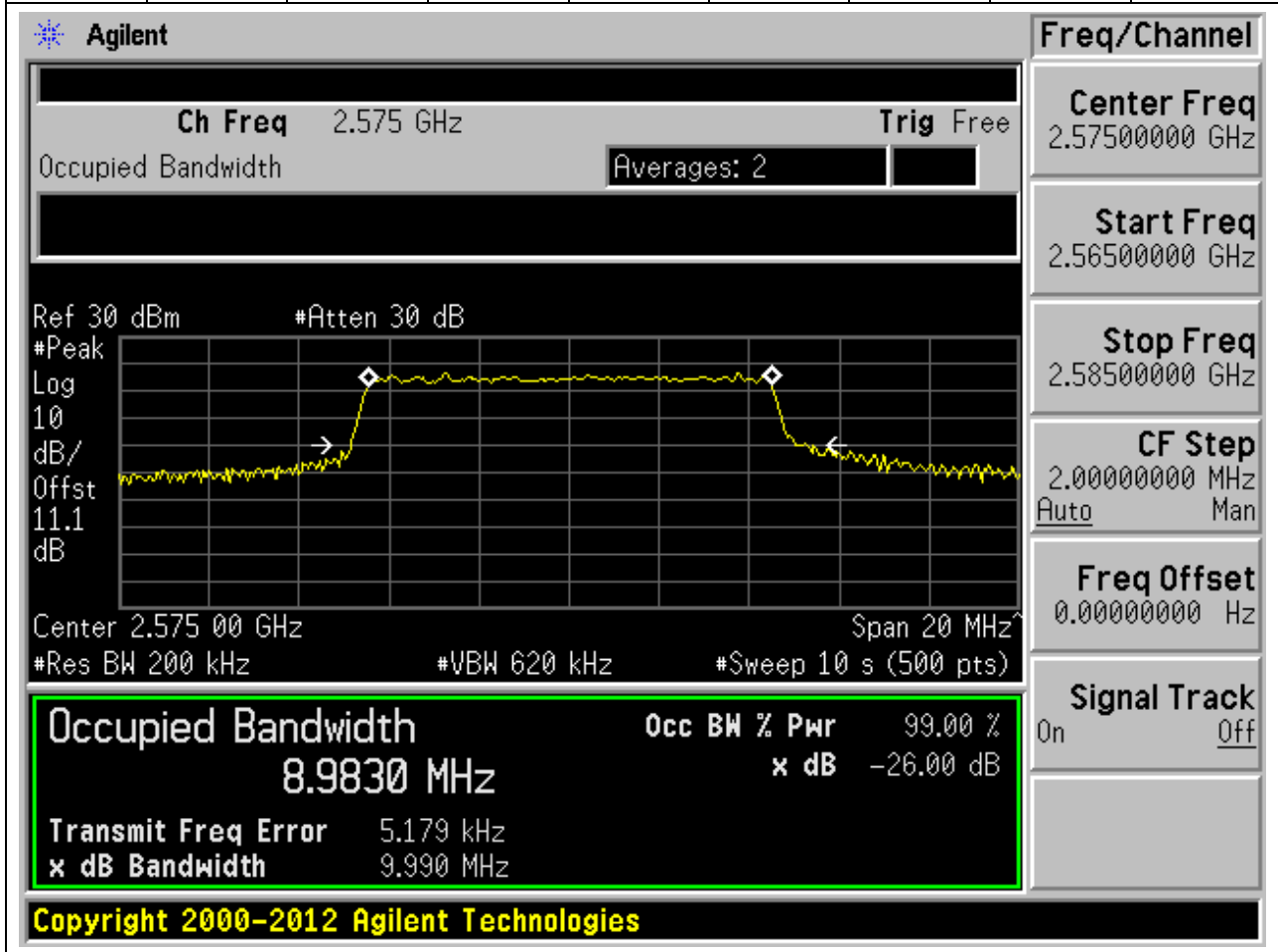
Transmit Freq Error 18.889 kHz

x dB Bandwidth 9.905 MHz

**Copyright 2000-2012 Agilent Technologies**

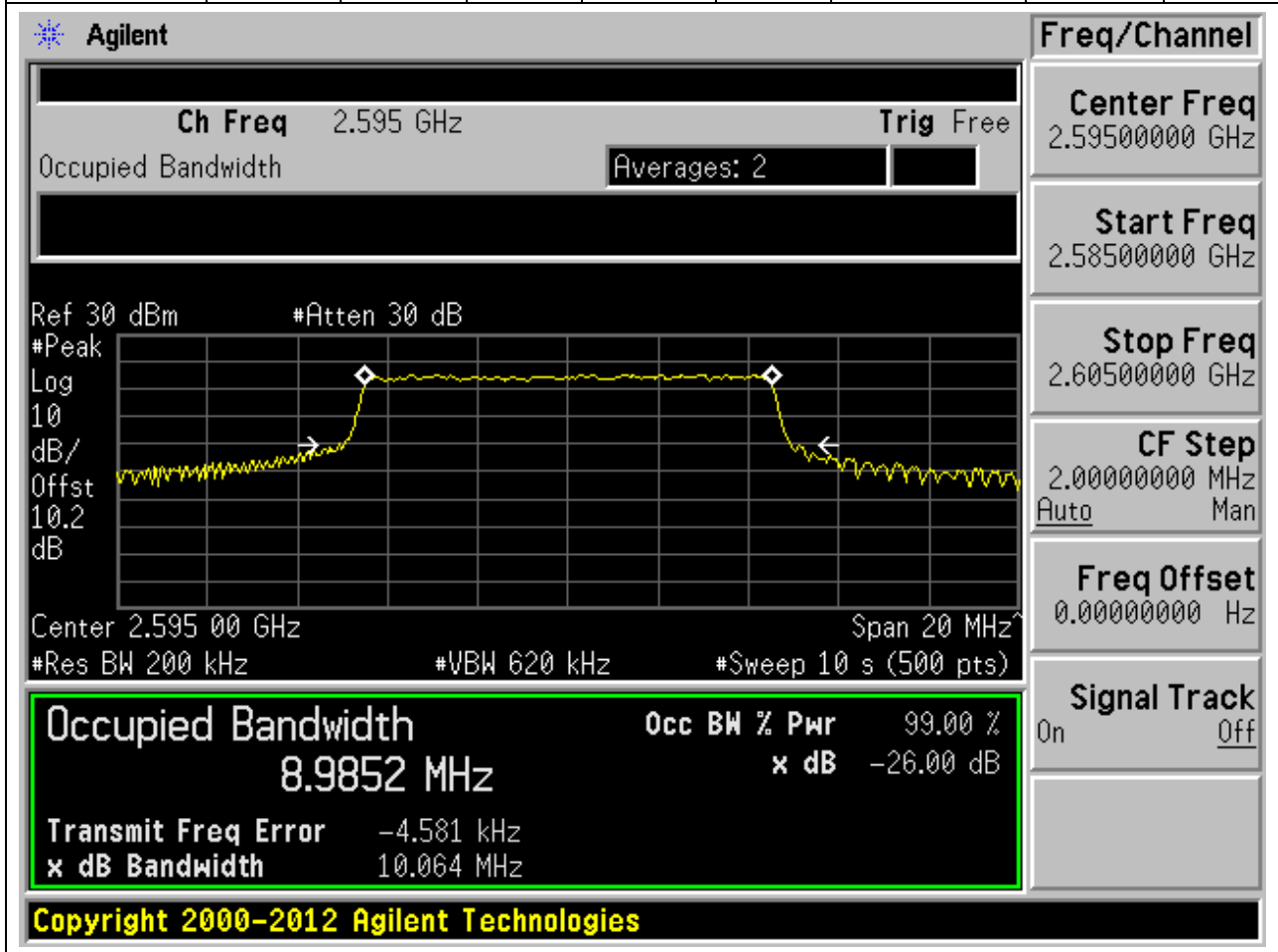
**17.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:37800, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2575	99	26	0.2	Peak	8.983	9.99	10	Pass



**17.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:38000, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.2	Peak	8.985	10.064	10	Pass



**17.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:38000, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.2	Peak	8.948	10.042	10	Pass

**Agilent**

Ch Freq 2.595 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 2.595 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (500 pts)

**Freq/Channel**

Center Freq 2.59500000 GHz

Start Freq 2.58500000 GHz

Stop Freq 2.60500000 GHz

CF Step 2.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**8.9477 MHz** x dB -26.00 dB

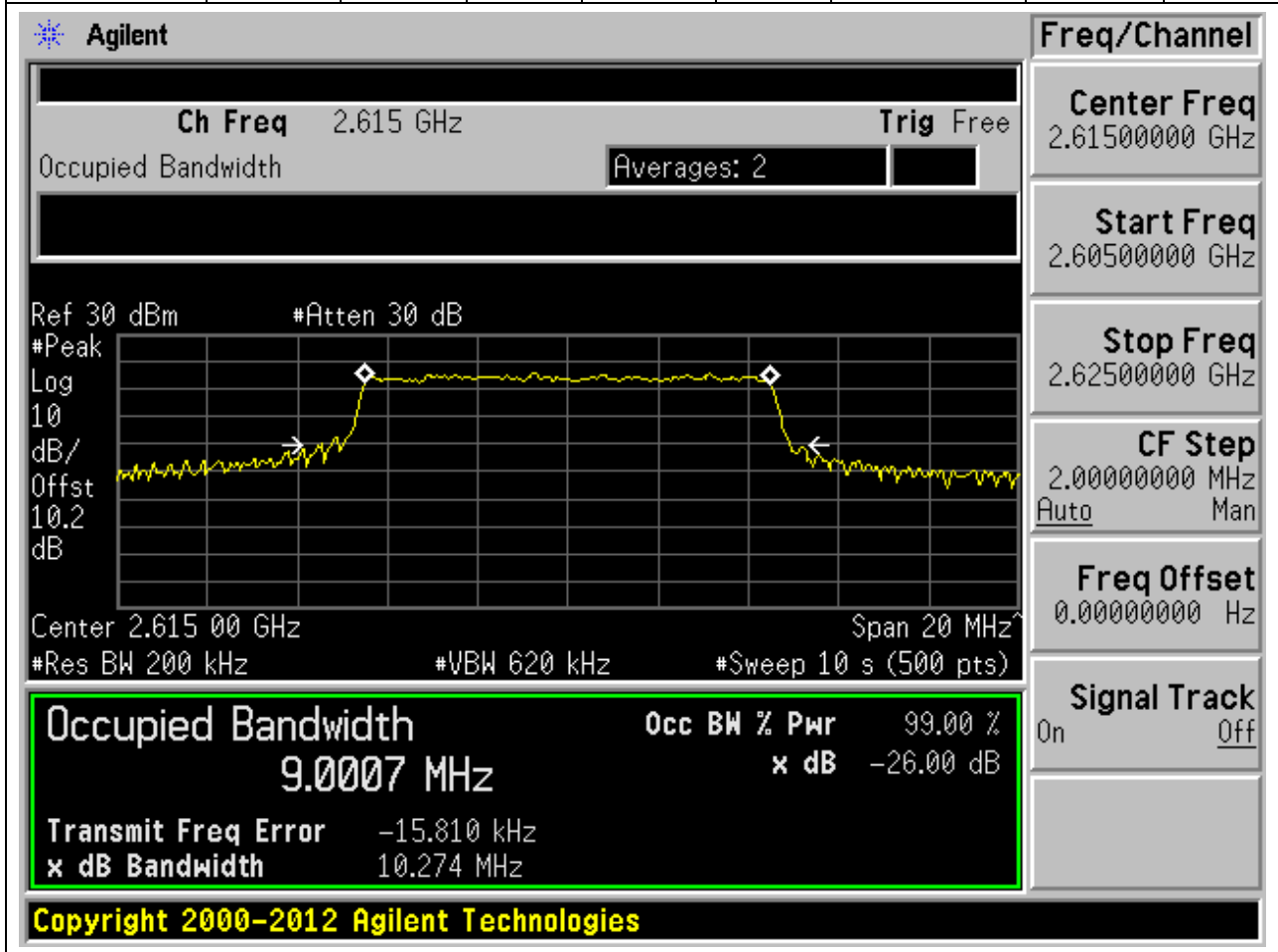
Transmit Freq Error -7.577 kHz

x dB Bandwidth 10.042 MHz

Copyright 2000-2012 Agilent Technologies

**17.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:38200, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2615	99	26	0.2	Peak	9.001	10.274	10	Pass



**17.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:38200, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2615	99	26	0.2	Peak	8.987	10.749	10	Pass

**Agilent**

Ch Freq 2.615 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.2 dB

Center 2.615 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %  
**8.9865 MHz** x dB -26.00 dB

Transmit Freq Error 1.752 kHz  
 x dB Bandwidth 10.749 MHz

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

Center Freq 2.61500000 GHz

Start Freq 2.60500000 GHz

Stop Freq 2.62500000 GHz

CF Step 2.00000000 MHz  
 Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off



**17.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:37825, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2577.5	99	26	0.3	Peak	13.483	15.18	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.5775 GHz' and 'Trig Free'. The main display is a spectrum plot with a yellow trace showing the signal's power spectrum. The plot is set to 'Log' scale with a 'Ref 30 dBm' and '#Atten 30 dB'. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 13.4829 MHz. Other parameters include 'Occ BW % Pwr 99.00 %' and 'x dB -26.00 dB'. The plot also shows 'Transmit Freq Error 13.791 kHz' and 'x dB Bandwidth 15.180 MHz'. The bottom of the screen displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

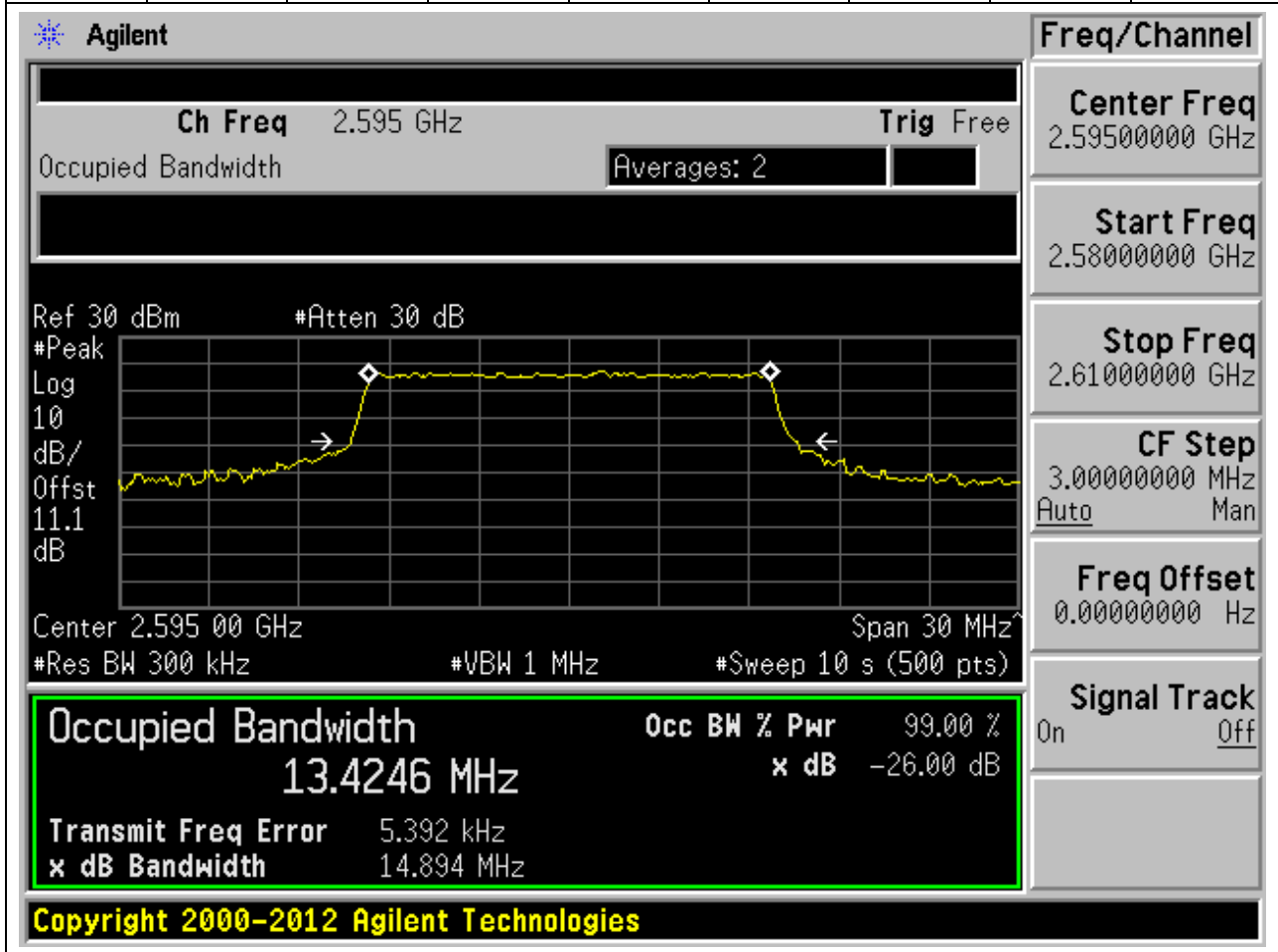
Freq/Channel	
Center Freq	2.57750000 GHz
Start Freq	2.56250000 GHz
Stop Freq	2.59250000 GHz
CF Step	3.00000000 MHz Auto Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

**17.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:37825, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



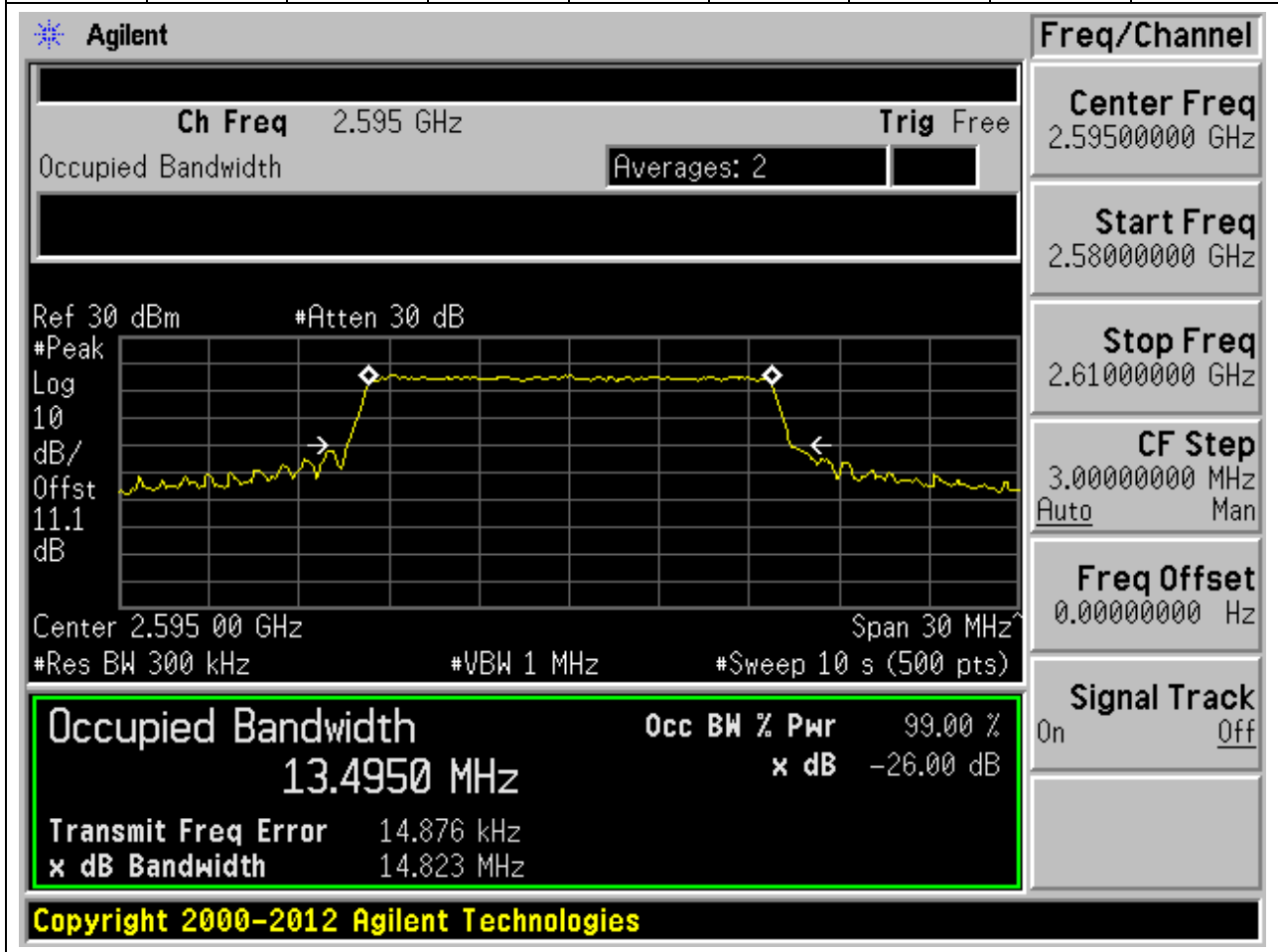
**17.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:38000, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.3	Peak	13.425	14.894	15	Pass



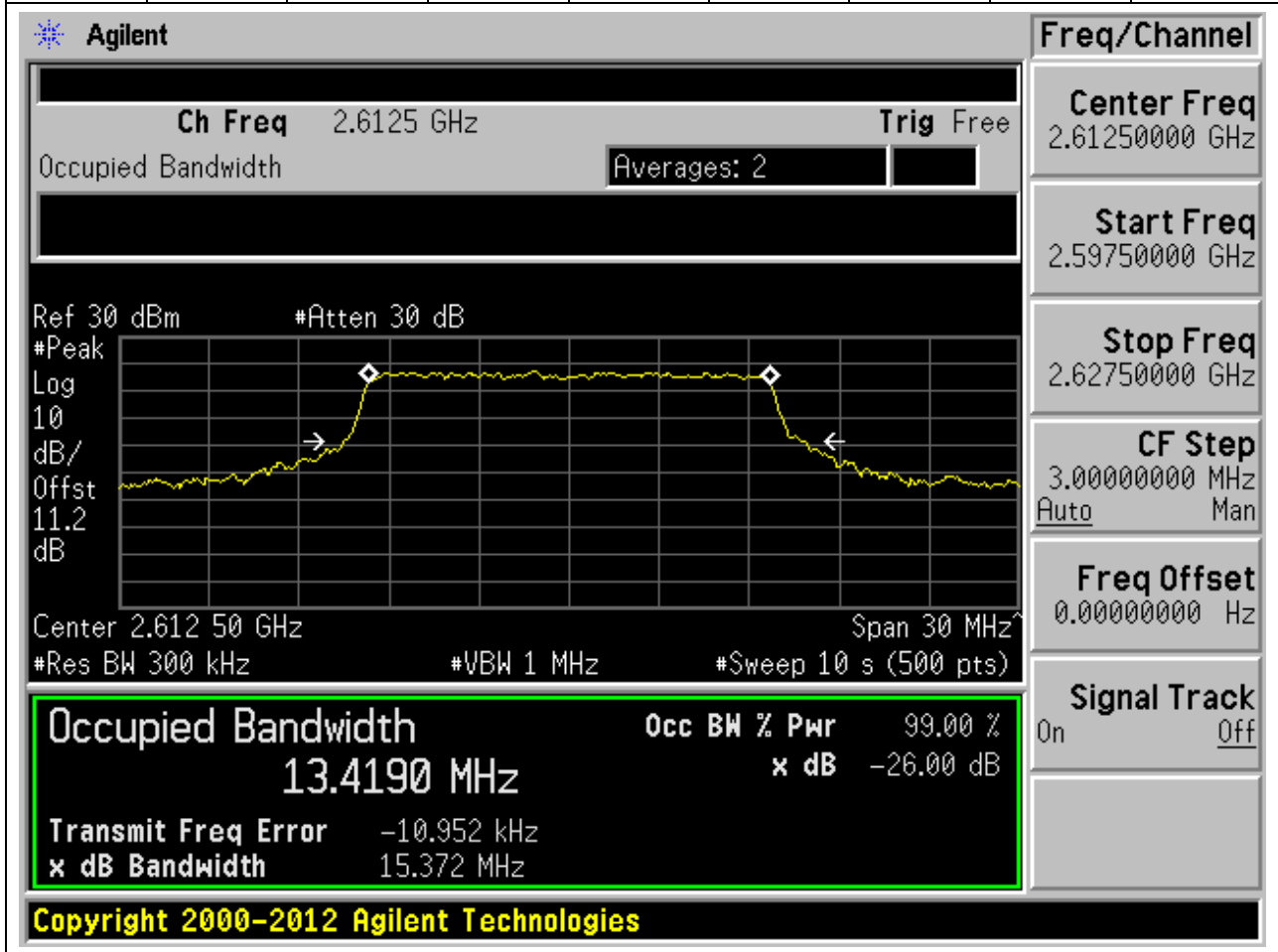
**17.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:38000, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.3	Peak	13.495	14.823	15	Pass



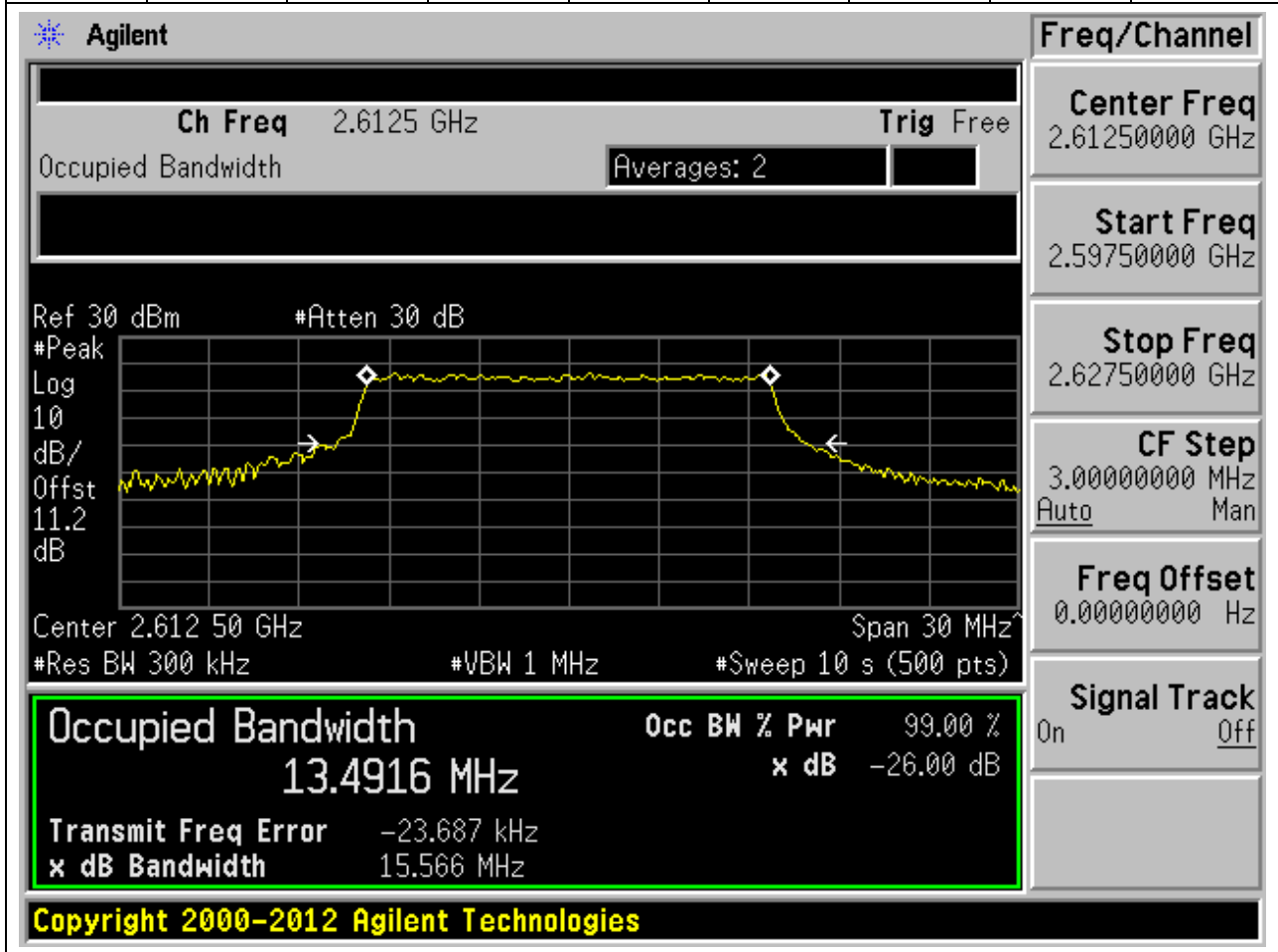
**17.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:38175, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2612.5	99	26	0.3	Peak	13.419	15.372	15	Pass



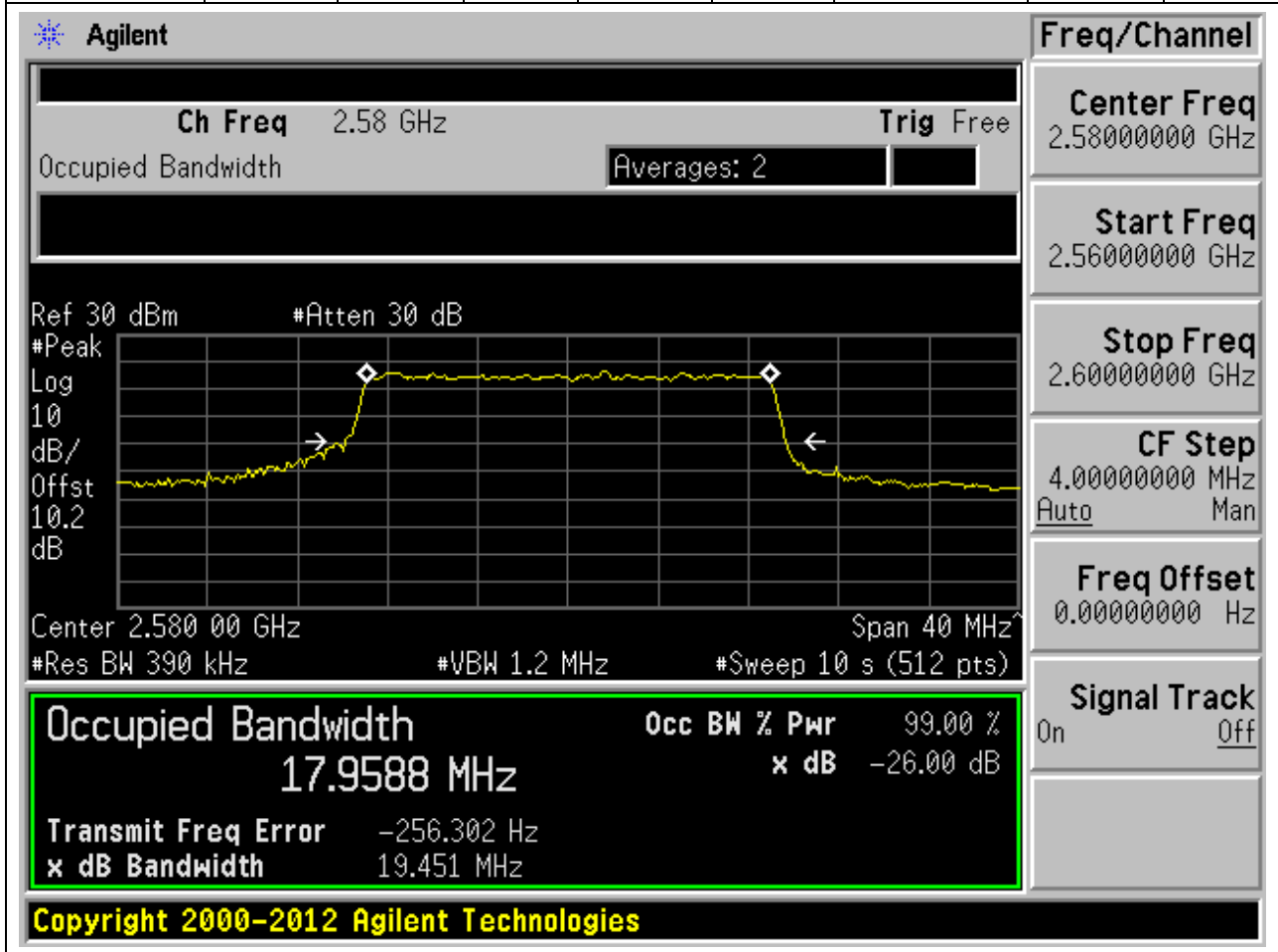
**17.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:38175, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2612.5	99	26	0.3	Peak	13.492	15.566	15	Pass



**17.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:37850, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2580	99	26	0.39	Peak	17.959	19.451	20	Pass



**17.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:37850, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2580	99	26	0.39	Peak	17.917	19.607	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is titled 'Occupied Bandwidth' and shows a signal centered at 2.58 GHz. The plot parameters include: Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 11.1 dB, Center 2.580 00 GHz, Span 40 MHz, #Res BW 390 kHz, #VBW 1.2 MHz, and #Sweep 10 s (512 pts). The plot shows a signal with a peak at 2.58 GHz and a bandwidth of 17.9175 MHz. The signal is measured at -26.00 dB. The plot also shows the signal track and the signal track settings.

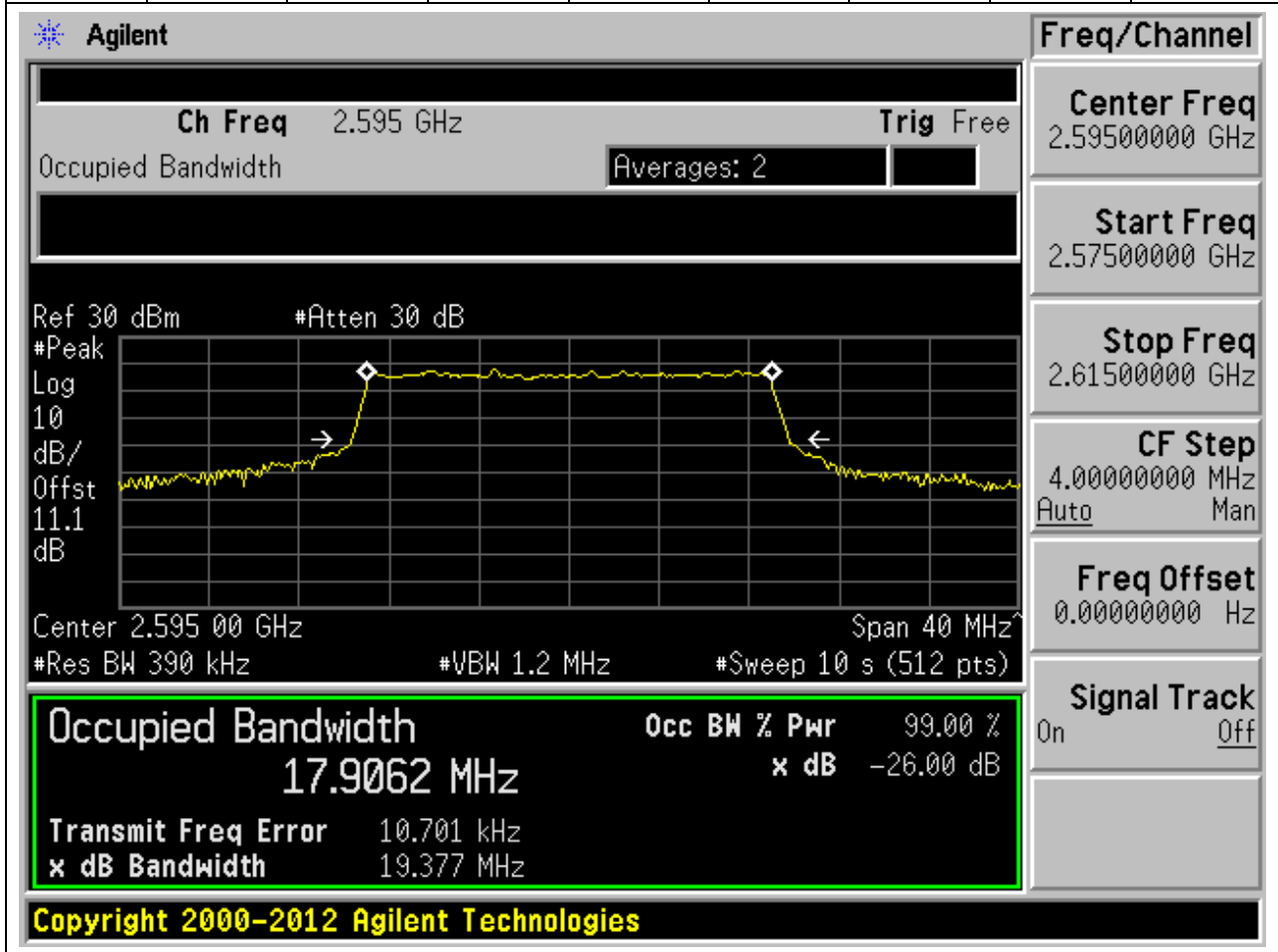
Occupied Bandwidth		Occ BW % Pwr	99.00 %
17.9175 MHz		x dB	-26.00 dB
Transmit Freq Error		-3.635 kHz	
x dB Bandwidth		19.607 MHz	

Copyright 2000-2012 Agilent Technologies



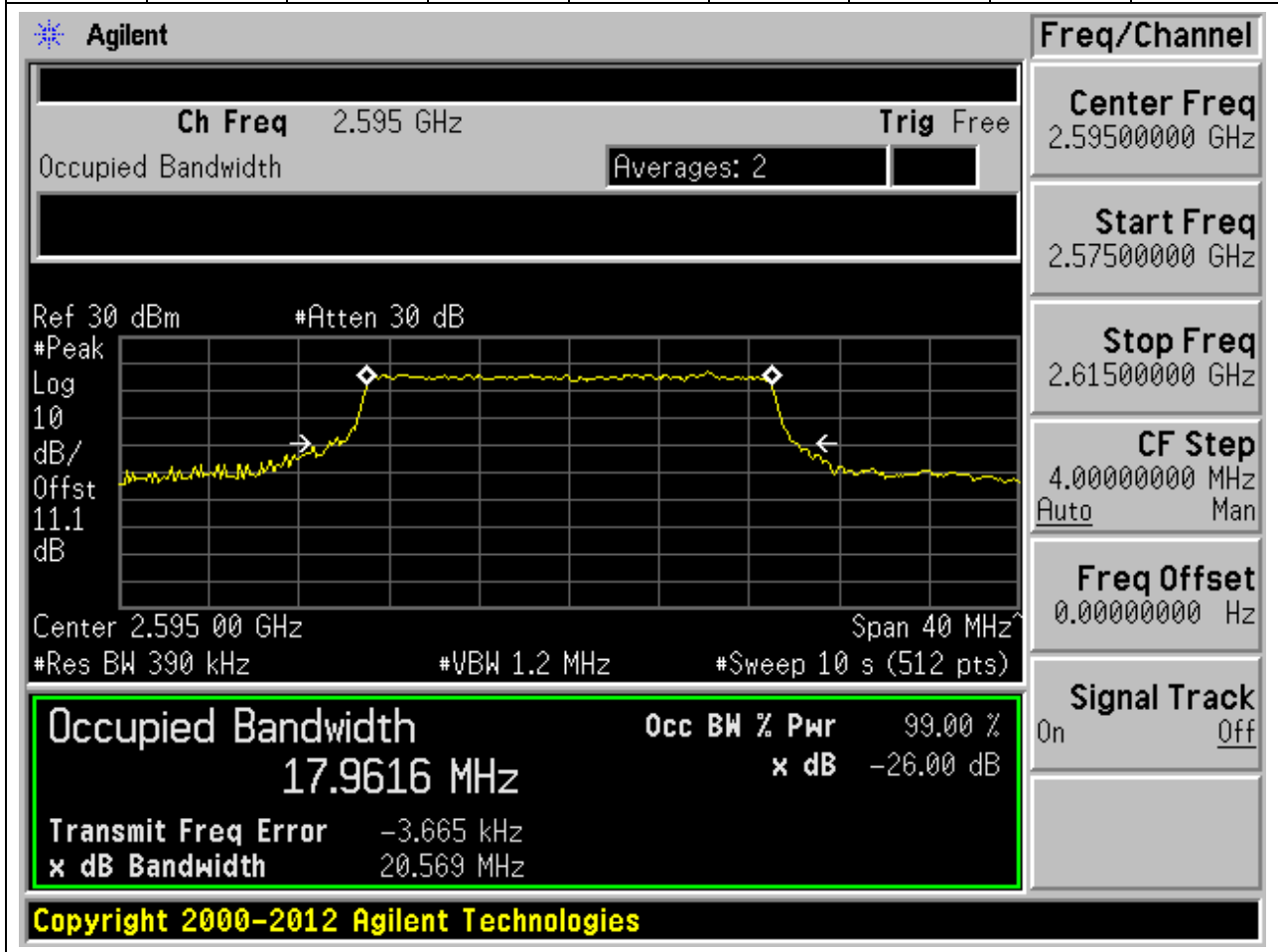
**17.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:38000, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.39	Peak	17.906	19.377	20	Pass



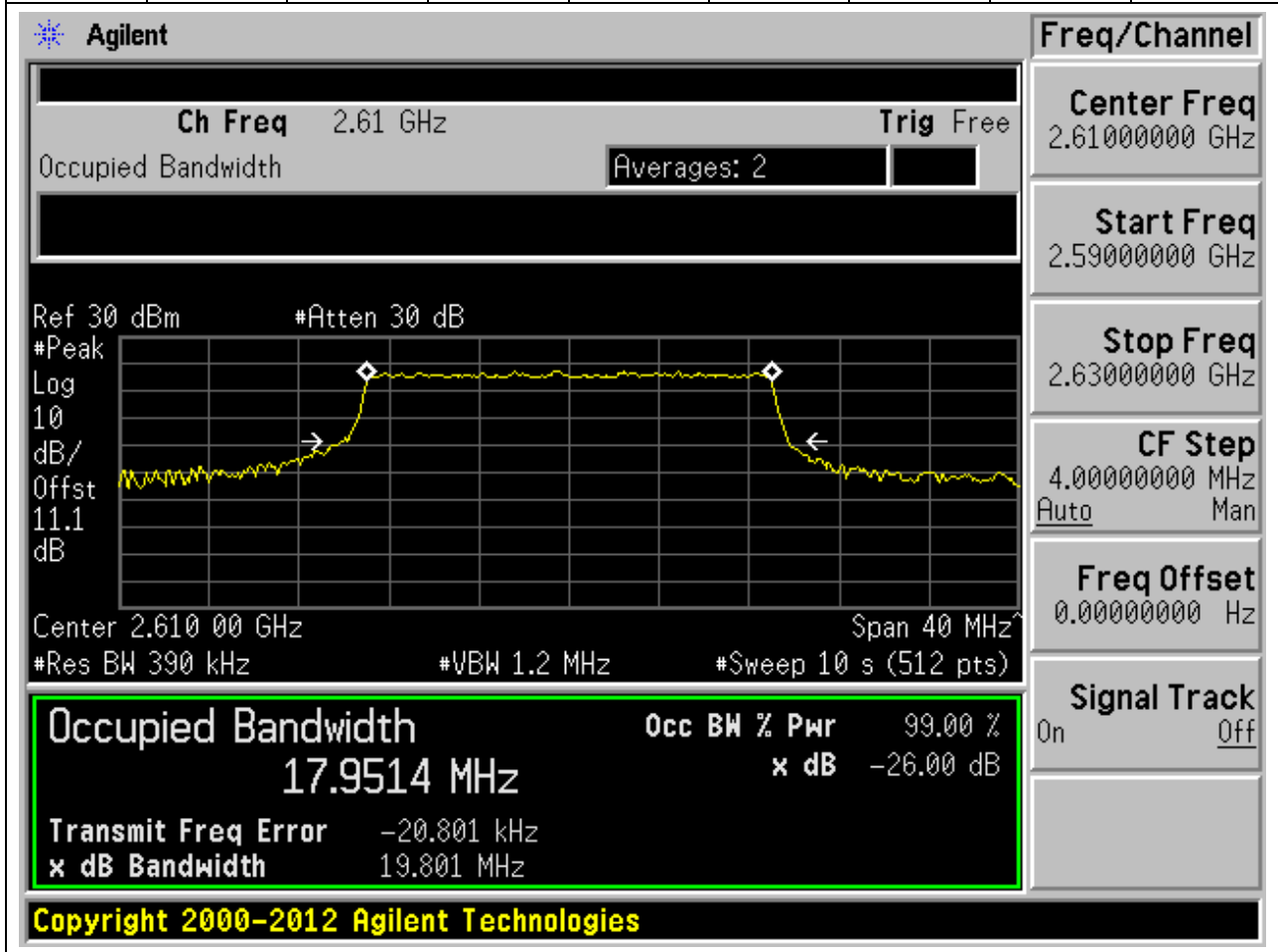
**17.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:38000, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.39	Peak	17.962	20.569	20	Pass



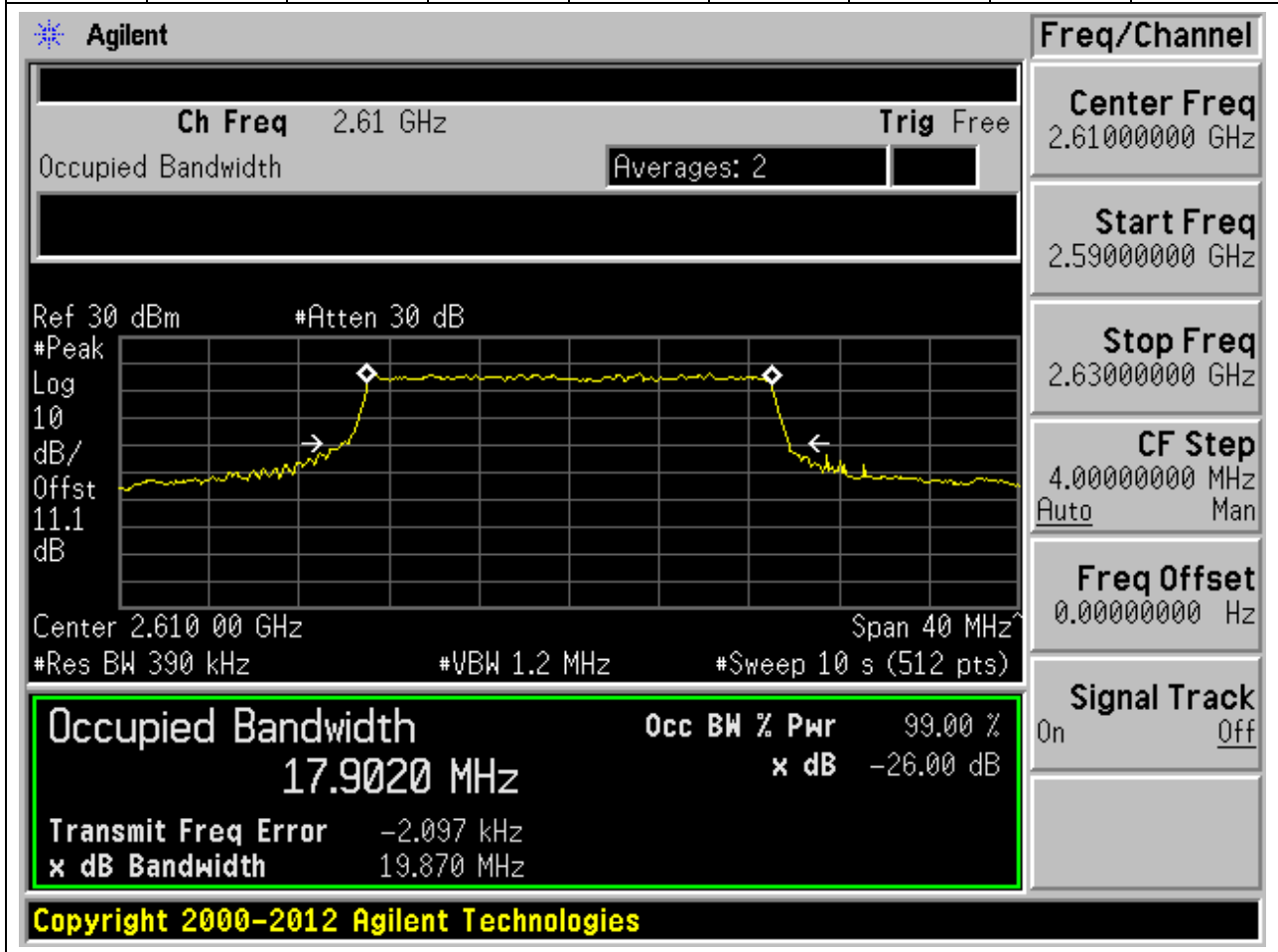
**17.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:38150, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2610	99	26	0.39	Peak	17.951	19.801	20	Pass



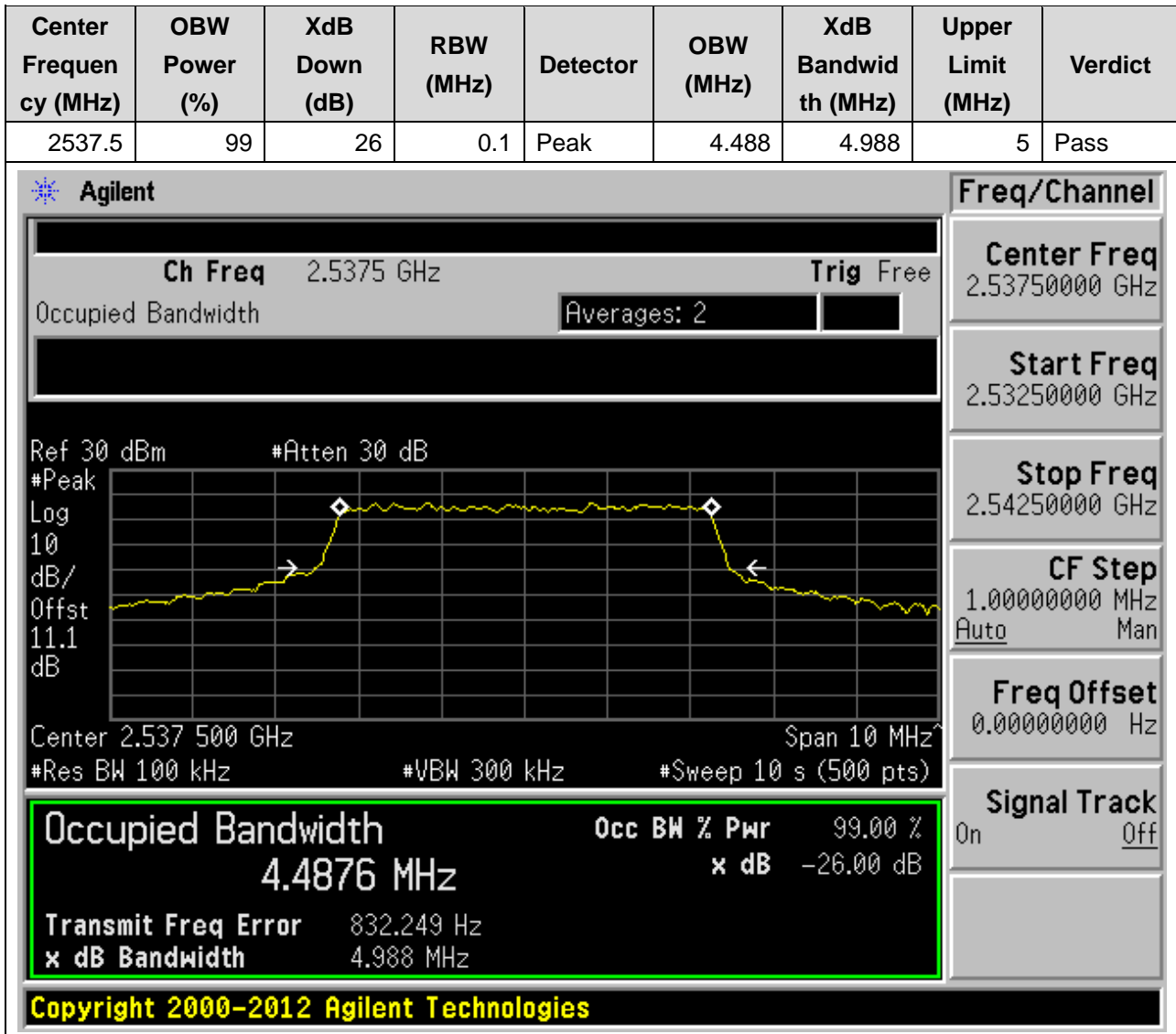
**17.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:38150, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2610	99	26	0.39	Peak	17.902	19.87	20	Pass

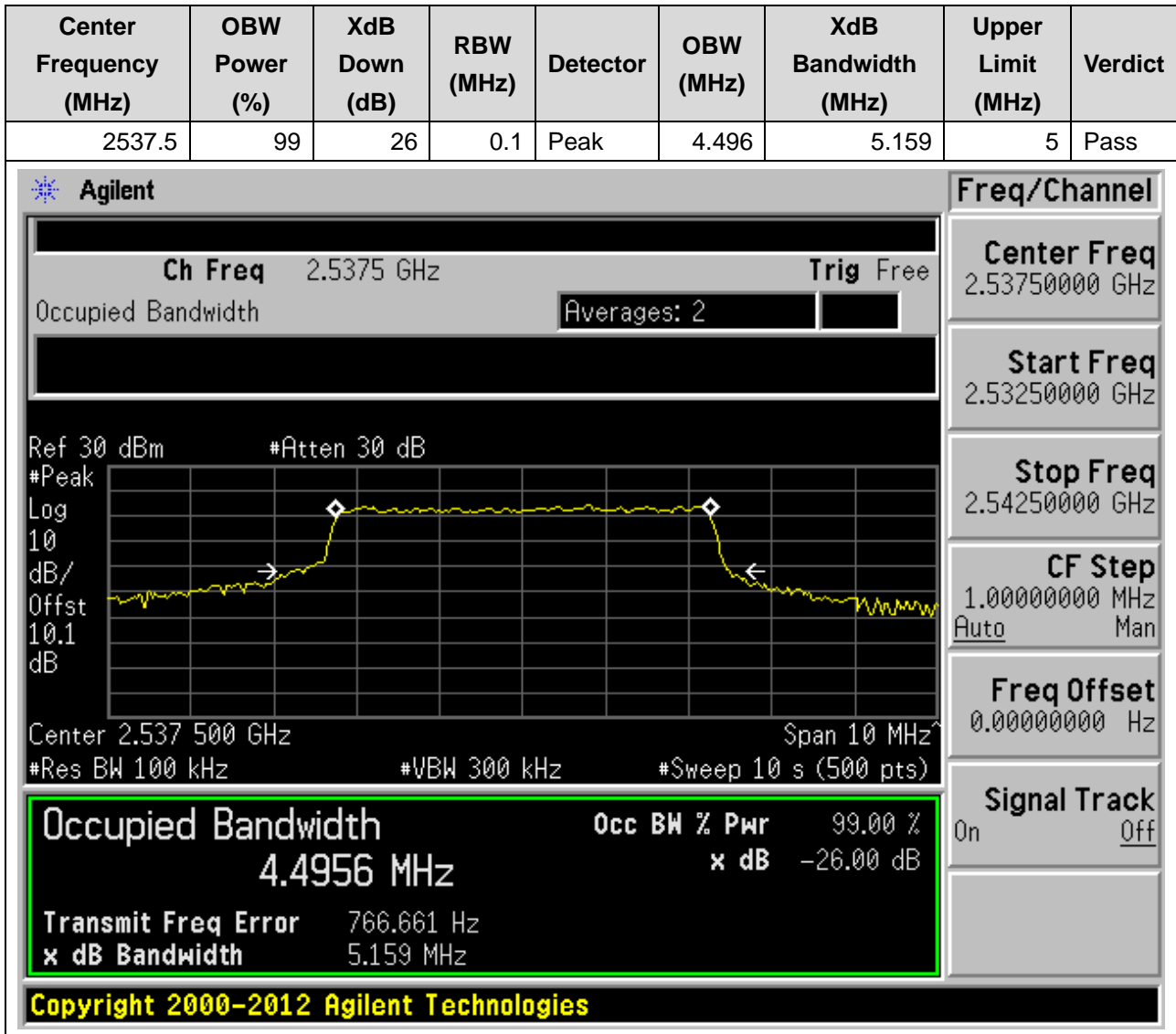


## 18. LTE\_Band41 120M OPPO

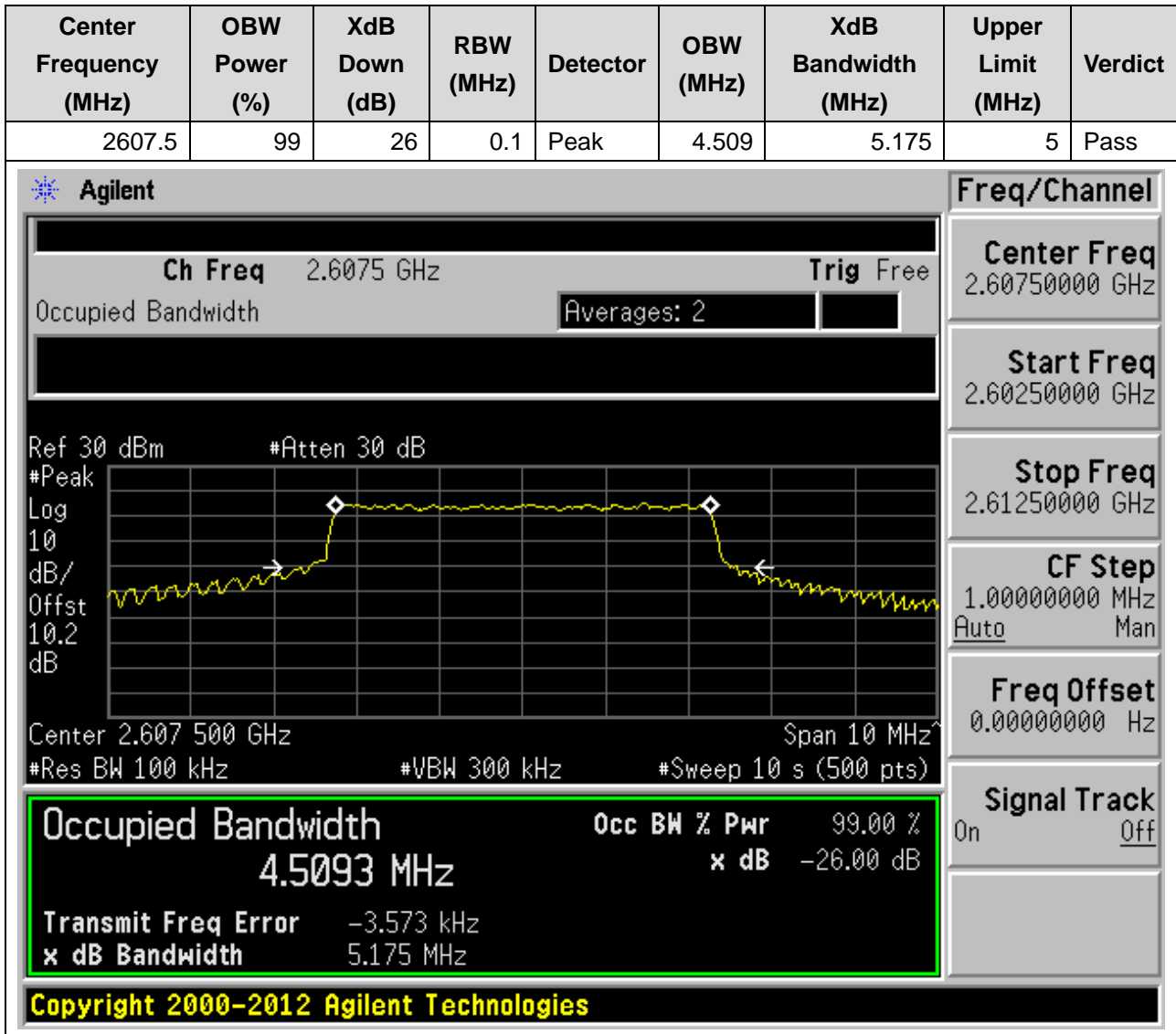
18.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:40065, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



**18.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:40065, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



**18.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:40765, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



**18.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:40765, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2607.5	99	26	0.1	Peak	4.482	5.002	5	Pass

**Agilent**

Ch Freq 2.6075 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.1 dB

Center 2.607 500 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 10 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**4.4822 MHz** x dB -26.00 dB

Transmit Freq Error -2.151 kHz

x dB Bandwidth 5.002 MHz

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

Center Freq 2.60750000 GHz

Start Freq 2.60250000 GHz

Stop Freq 2.61250000 GHz

CF Step 1.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off



**18.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:41215, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2652.5	99	26	0.1	Peak	4.499	5.106	5	Pass

**Agilent**

Ch Freq 2.6525 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.2 dB

Center 2.652 500 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 10 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

4.4986 MHz x dB -26.00 dB

Transmit Freq Error -2.872 kHz

x dB Bandwidth 5.106 MHz

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

Center Freq 2.65250000 GHz

Start Freq 2.64750000 GHz

Stop Freq 2.65750000 GHz

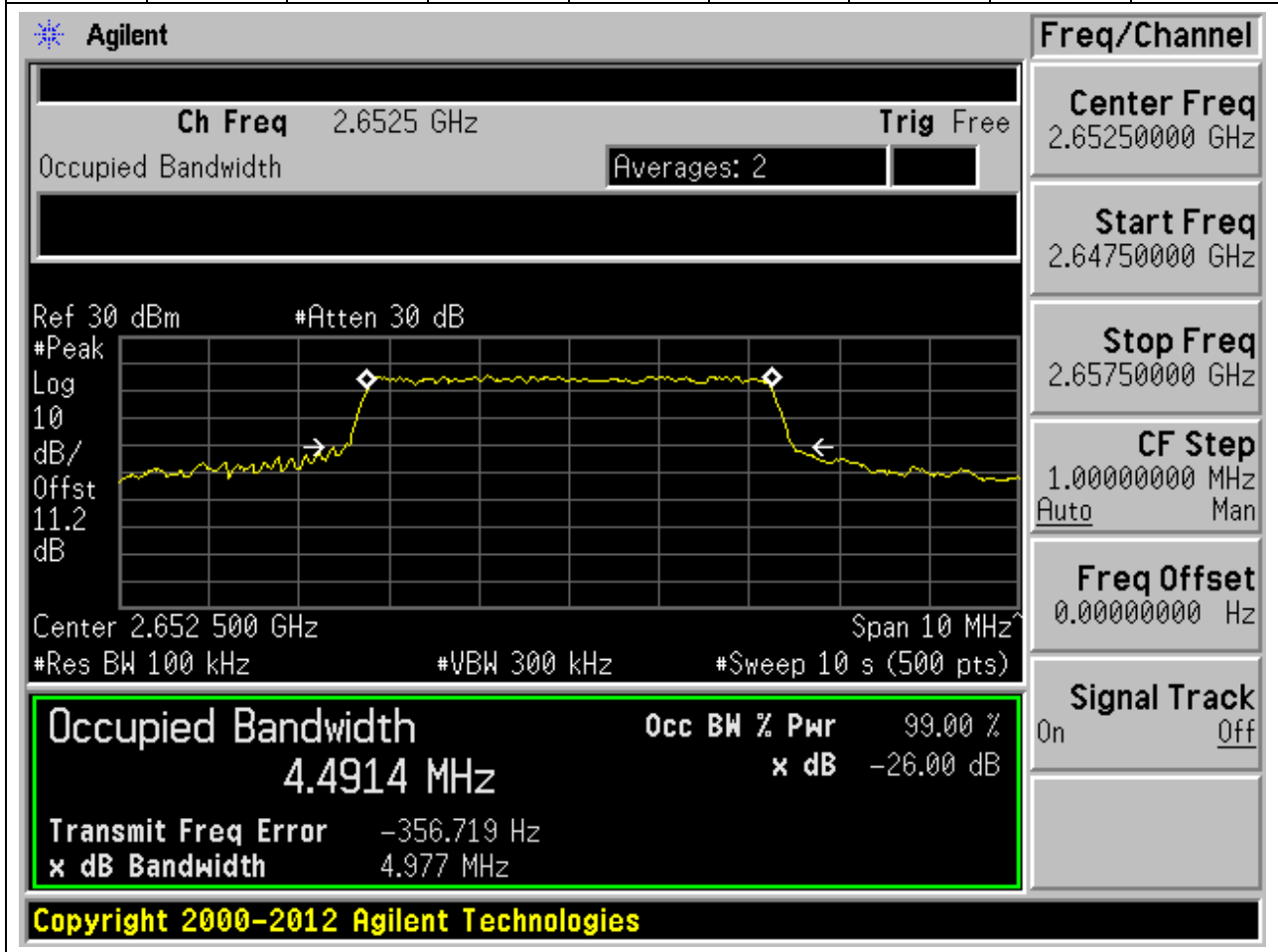
CF Step 1.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**18.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:41215, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2652.5	99	26	0.1	Peak	4.491	4.977	5	Pass



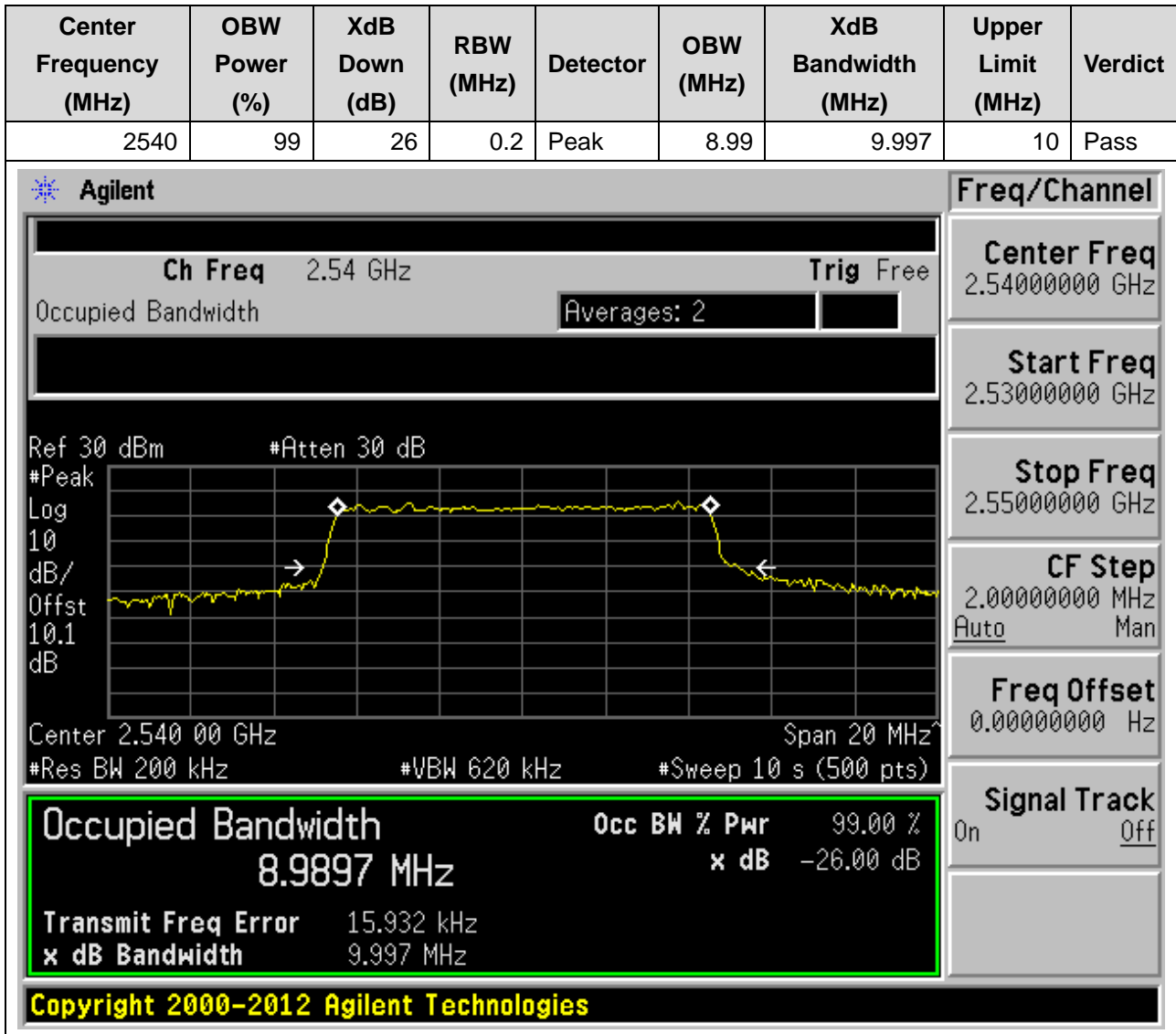
**18.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:40090, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2540	99	26	0.2	Peak	8.992	10.805	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 2.540 GHz and a span of 20 MHz. The vertical axis is labeled 'dB/Offst' with a value of 11.1 dB. The horizontal axis is labeled 'Span 20 MHz'. The plot shows a signal with a peak at approximately 2.540 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 8.9918 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 23.367 kHz and the 'x dB Bandwidth' is 10.805 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
8.9918 MHz		x dB	-26.00 dB
Transmit Freq Error		23.367 kHz	
x dB Bandwidth		10.805 MHz	

**18.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:40090, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



**18.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:40765, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2607.5	99	26	0.2	Peak	8.985	10.351	10	Pass

**Agilent**

Ch Freq 2.6075 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.1 dB

Center 2.607 50 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %  
**8.9853 MHz** x dB -26.00 dB

Transmit Freq Error -1.283 kHz  
 x dB Bandwidth 10.351 MHz

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

Center Freq 2.60750000 GHz

Start Freq 2.59750000 GHz

Stop Freq 2.61750000 GHz

CF Step 2.00000000 MHz  
 Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**18.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:40765, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2607.5	99	26	0.2	Peak	8.947	10.053	10	Pass

**Agilent**

Ch Freq 2.6075 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.1 dB

Center 2.607 50 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %  
**8.9468 MHz** x dB -26.00 dB

Transmit Freq Error -3.591 kHz  
x dB Bandwidth 10.053 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 2.60750000 GHz

Start Freq 2.59750000 GHz

Stop Freq 2.61750000 GHz

CF Step 2.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**18.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:41190, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2650	99	26	0.2	Peak	9.009	10.948	10	Pass

**Agilent**

Ch Freq 2.65 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 2.650 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (500 pts)

**Freq/Channel**

Center Freq 2.65000000 GHz

Start Freq 2.64000000 GHz

Stop Freq 2.66000000 GHz

CF Step 2.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

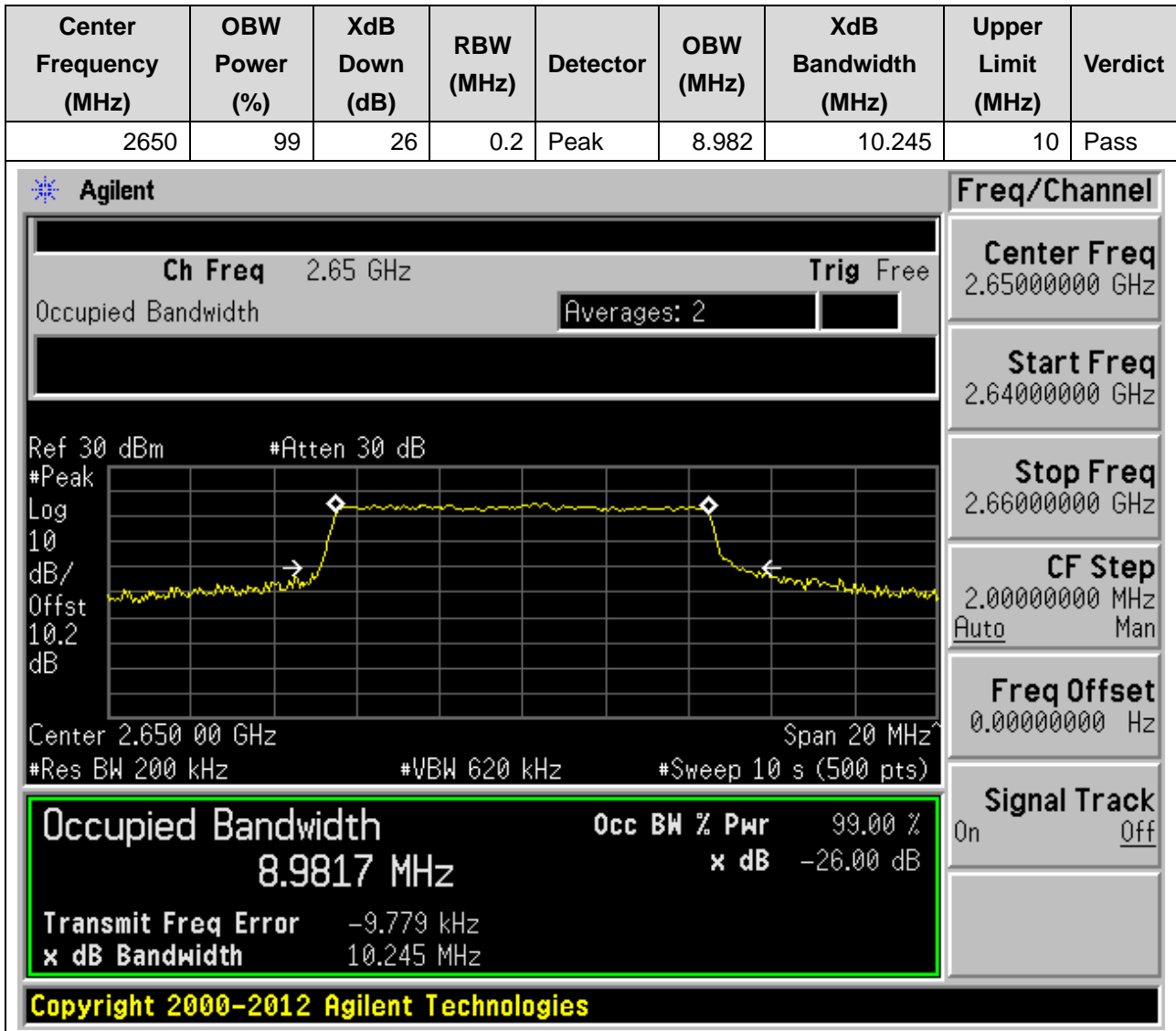
**9.0089 MHz** x dB -26.00 dB

Transmit Freq Error -22.228 kHz

x dB Bandwidth 10.948 MHz

Copyright 2000-2012 Agilent Technologies

**18.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:41190, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**





**18.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:40115, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2542.5	99	26	0.3	Peak	13.494	15.069	15	Pass

**Agilent**

Ch Freq 2.5425 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.1 dB

Center 2.542 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 10 s (500 pts)

**Occupied Bandwidth** 13.4939 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 27.642 kHz

x dB Bandwidth 15.069 MHz

Copyright 2000-2012 Agilent Technologies

**Freq/Channel**

Center Freq 2.54250000 GHz

Start Freq 2.52750000 GHz

Stop Freq 2.55750000 GHz

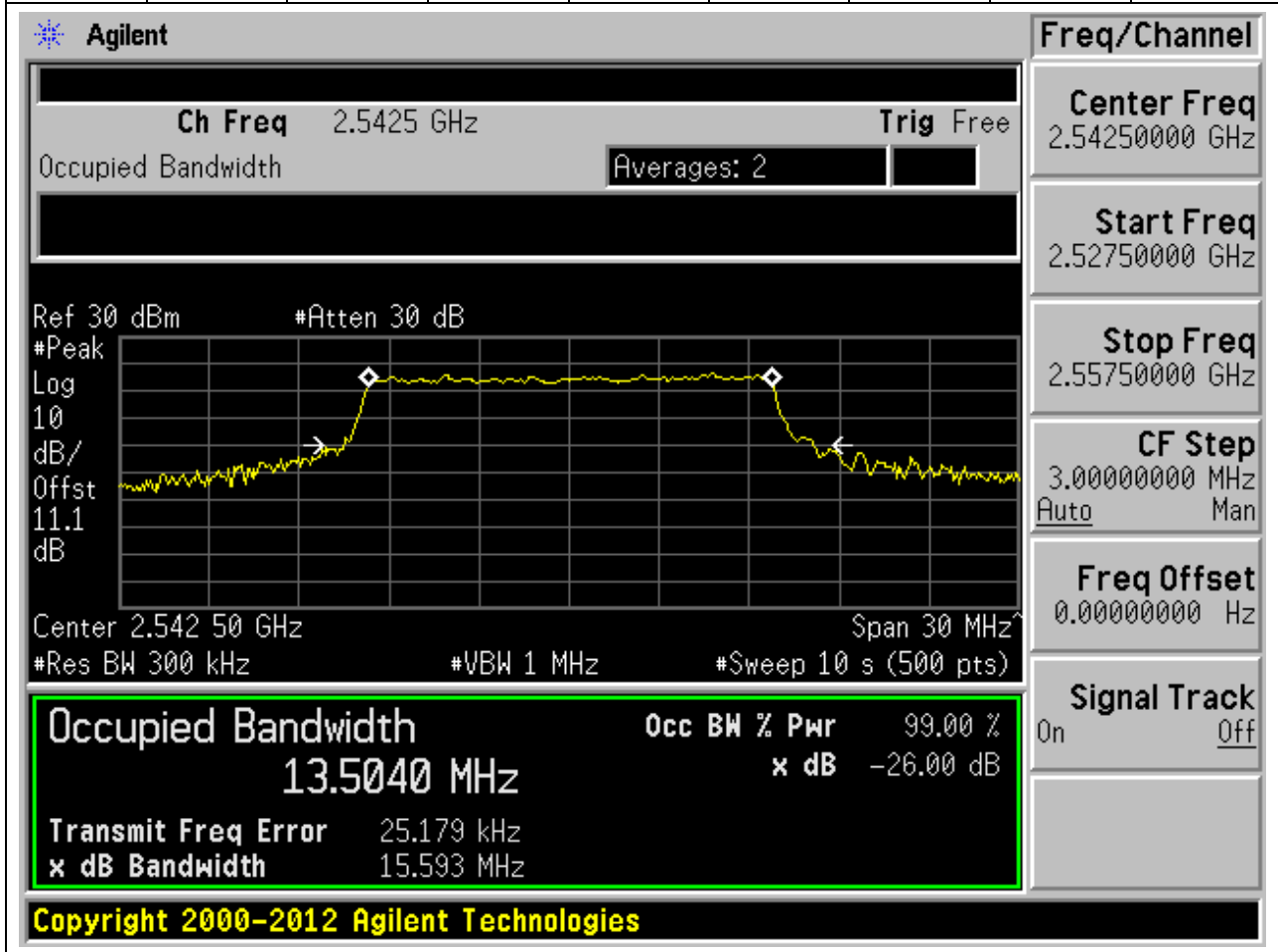
CF Step 3.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

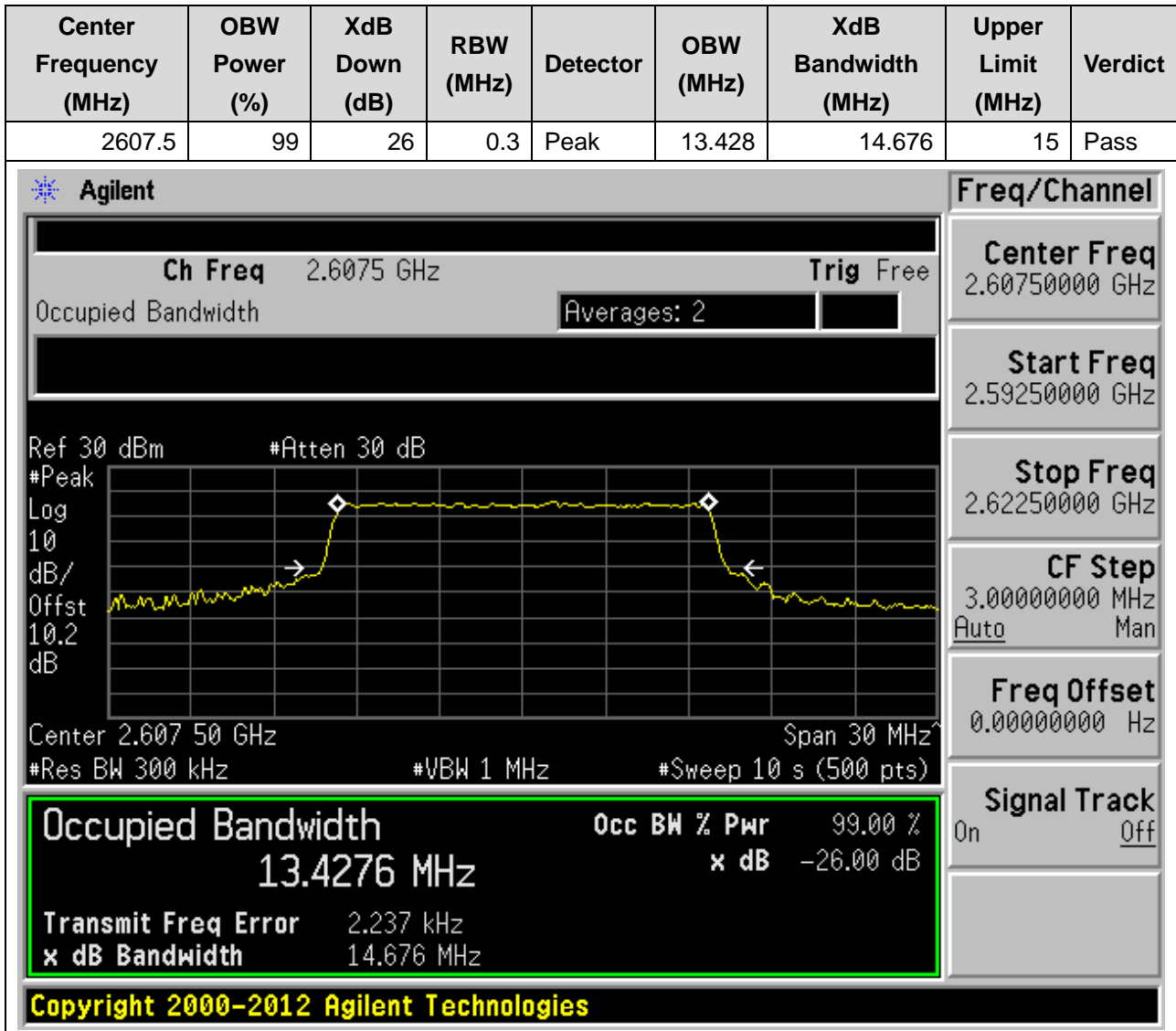
Signal Track On Off

**18.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:40115, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2542.5	99	26	0.3	Peak	13.504	15.593	15	Pass

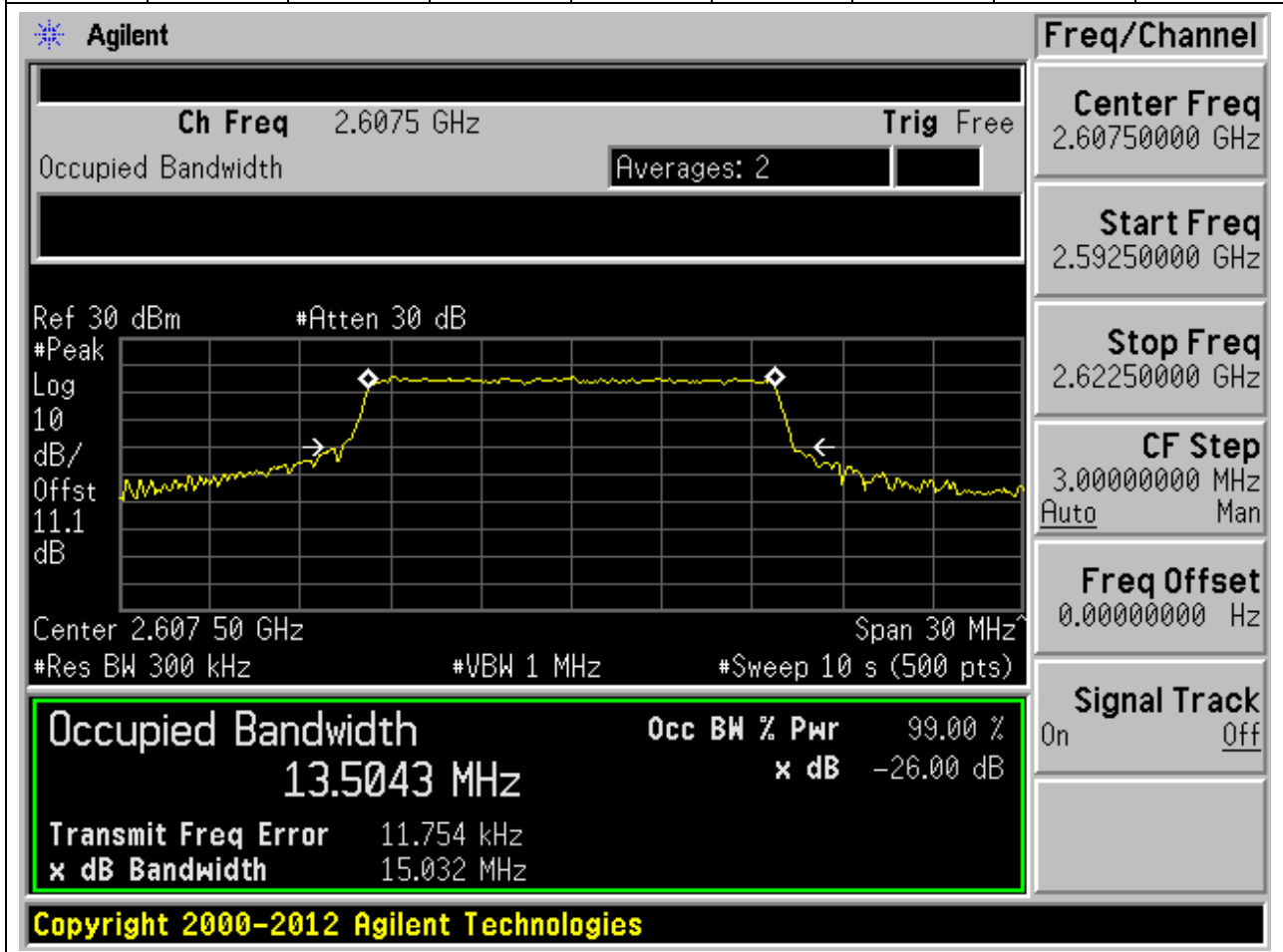


**18.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:40765, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



**18.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:40765, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2607.5	99	26	0.3	Peak	13.504	15.032	15	Pass



**18.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:41165, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2647.5	99	26	0.3	Peak	13.454	15.923	15	Pass

Agilent
Freq/Channel

Ch Freq 2.6475 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.2 dB

Center 2.647 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 10 s (500 pts)

Center Freq 2.64750000 GHz

Start Freq 2.63250000 GHz

Stop Freq 2.66250000 GHz

CF Step 3.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**13.4536 MHz** x dB -26.00 dB

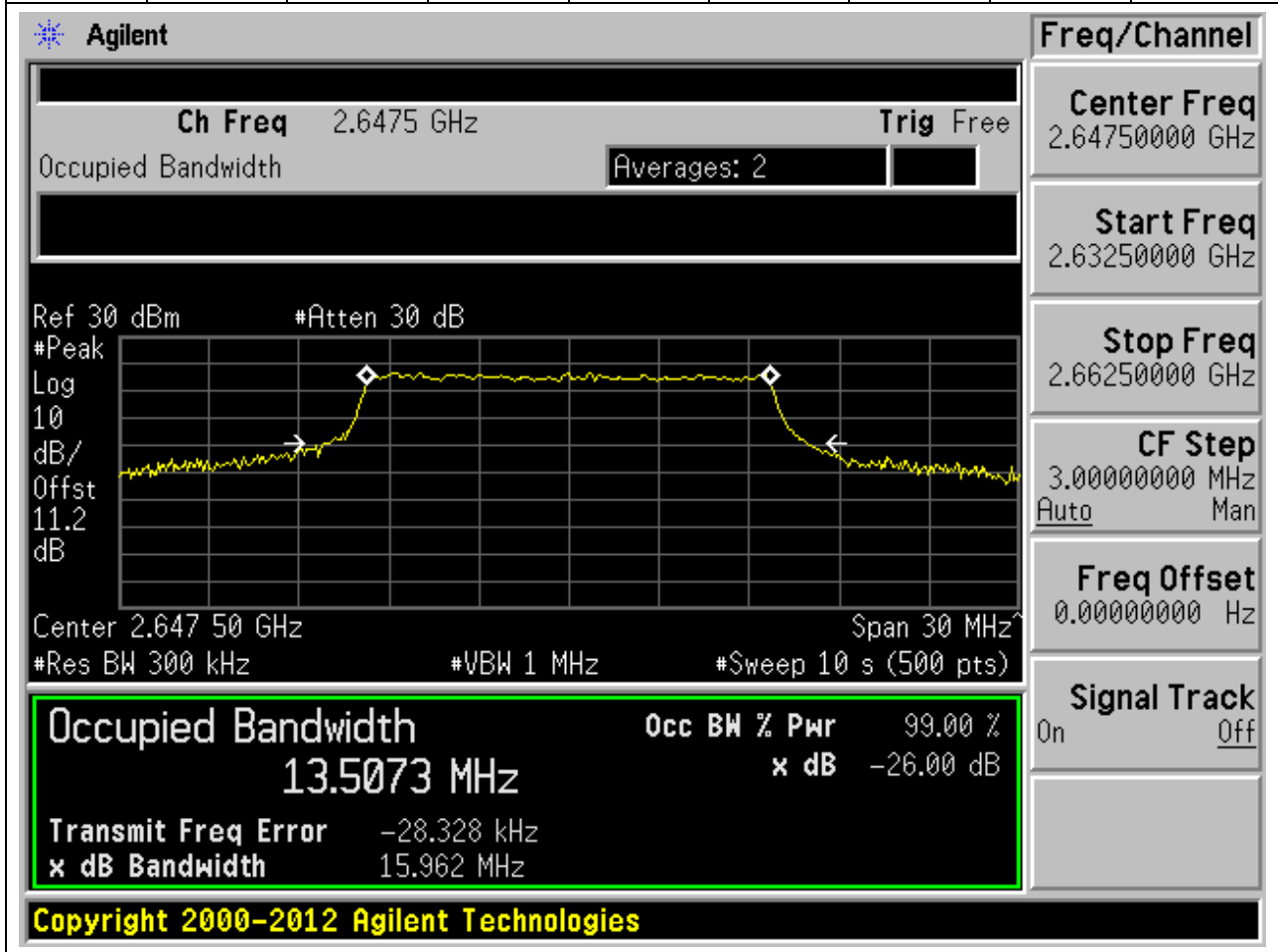
Transmit Freq Error -25.246 kHz

x dB Bandwidth 15.923 MHz

Copyright 2000-2012 Agilent Technologies

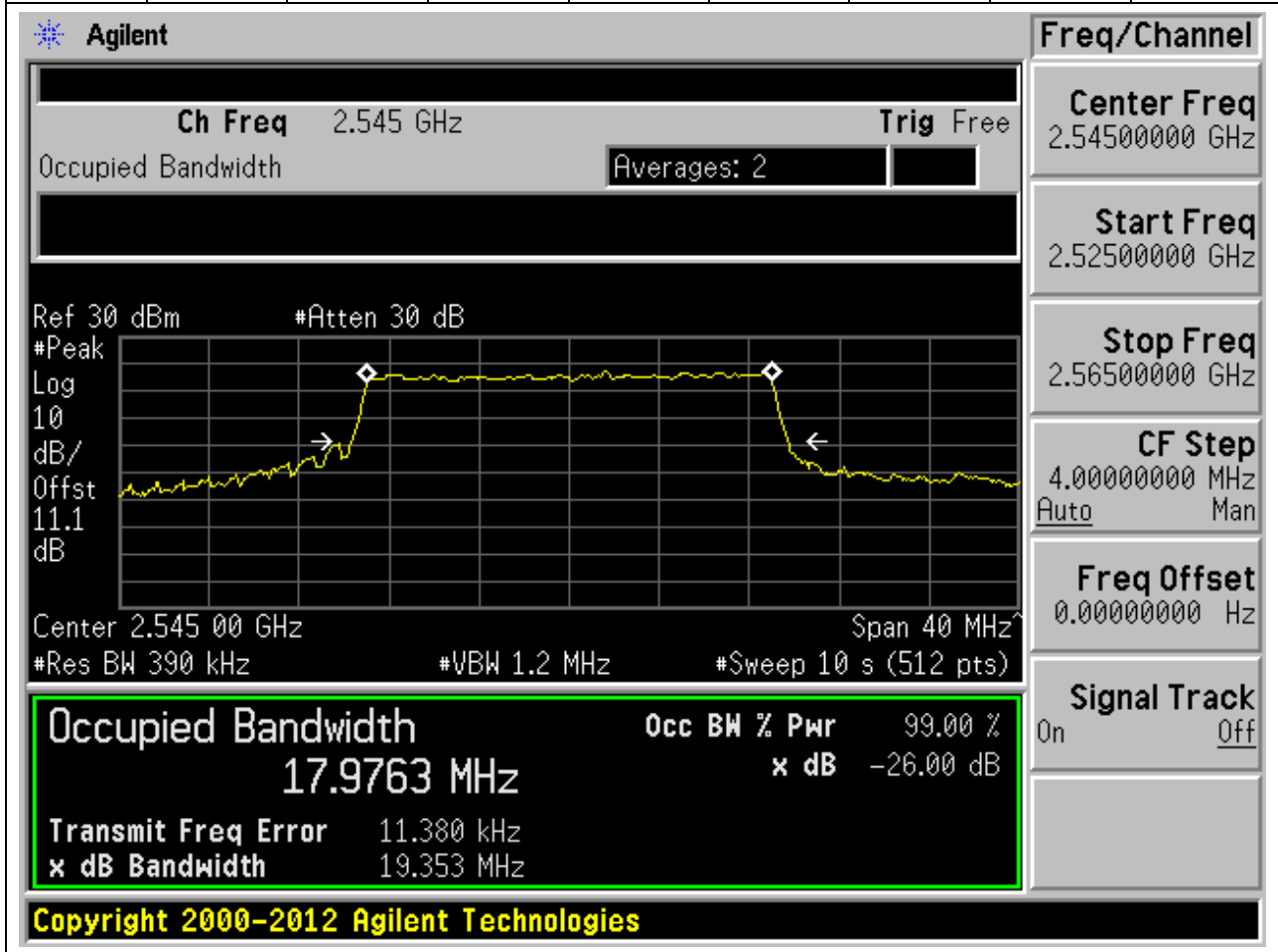
**18.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:41165, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2647.5	99	26	0.3	Peak	13.507	15.962	15	Pass



**18.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:40140, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2545	99	26	0.39	Peak	17.976	19.353	20	Pass



**18.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:40140, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2545	99	26	0.39	Peak	17.928	19.486	20	Pass

Agilent
Freq/Channel

Ch Freq 2.545 GHz      Trig Free

Occupied Bandwidth      Averages: 2

Center Freq  
2.54500000 GHz

Start Freq  
2.52500000 GHz

Stop Freq  
2.56500000 GHz

CF Step  
4.00000000 MHz  
Auto      Man

Freq Offset  
0.00000000 Hz

Signal Track  
On      Off

Ref 30 dBm      #Atten 30 dB

Center 2.545 00 GHz      Span 40 MHz

#Res BW 390 kHz      #VBW 1.2 MHz      #Sweep 10 s (512 pts)

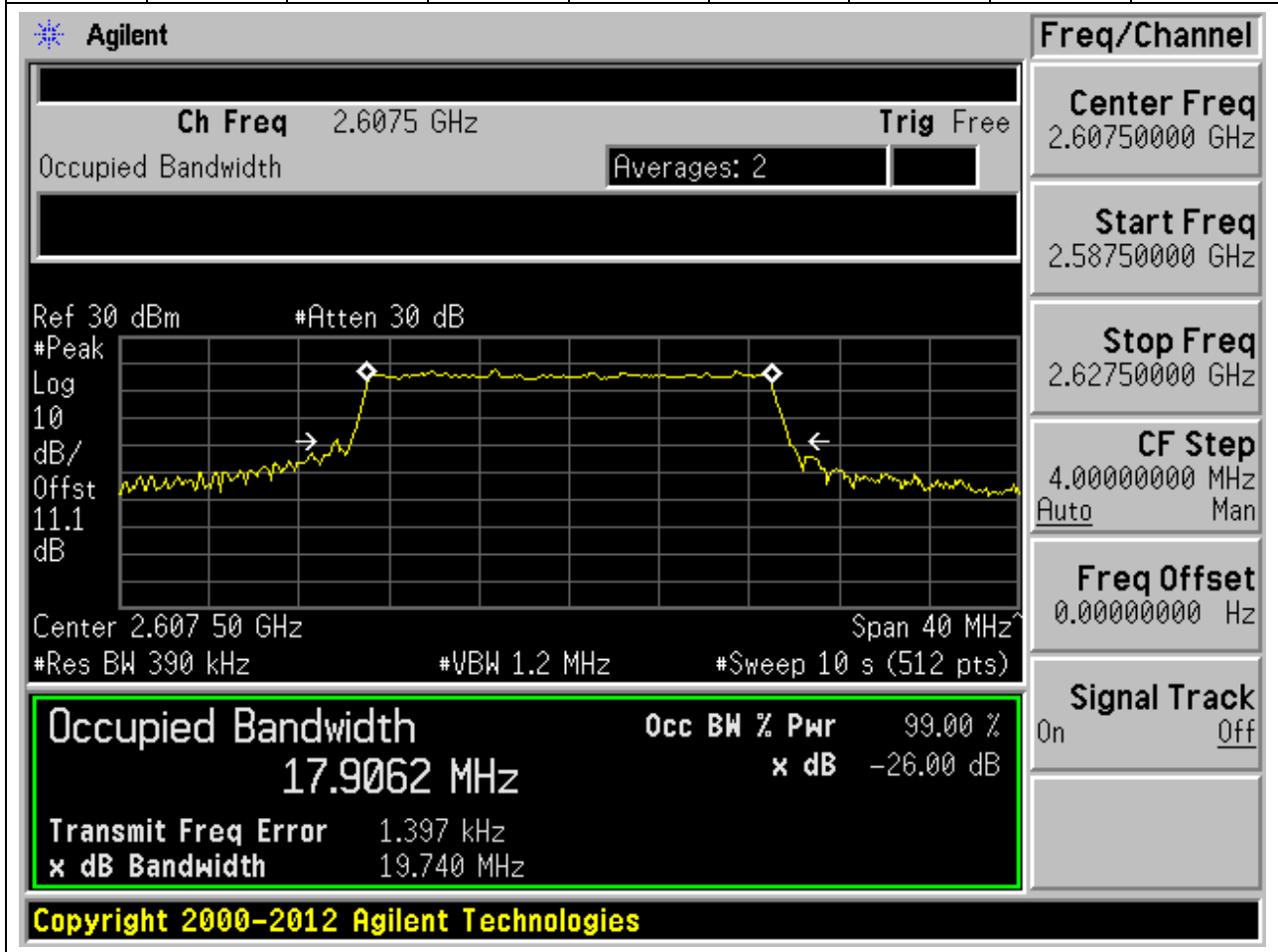
Occupied Bandwidth	Occ BW % Pwr	99.00 %
17.9282 MHz	x dB	-26.00 dB
Transmit Freq Error	24.035 kHz	
x dB Bandwidth	19.486 MHz	

Copyright 2000-2012 Agilent Technologies



**18.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:40765, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2607.5	99	26	0.39	Peak	17.906	19.74	20	Pass



**18.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:40765, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2607.5	99	26	0.39	Peak	17.932	20.827	20	Pass

**Agilent**

Ch Freq 2.6075 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.1 dB

Center 2.607 50 GHz Span 40 MHz

#Res BW 390 kHz #VBW 1.2 MHz #Sweep 10 s (512 pts)

**Occupied Bandwidth** 17.9322 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -14.337 kHz

x dB Bandwidth 20.827 MHz

Copyright 2000-2012 Agilent Technologies

Freq/Channel

Center Freq 2.60750000 GHz

Start Freq 2.58750000 GHz

Stop Freq 2.62750000 GHz

CF Step 4.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**18.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:41140, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2645	99	26	0.39	Peak	17.948	19.765	20	Pass

**Agilent**

Ch Freq 2.645 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.1 dB

Center 2.645 00 GHz Span 40 MHz

#Res BW 390 kHz #VBW 1.2 MHz #Sweep 10 s (512 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

17.9478 MHz x dB -26.00 dB

Transmit Freq Error -28.857 kHz

x dB Bandwidth 19.765 MHz

Copyright 2000-2012 Agilent Technologies

Freq/Channel

Center Freq 2.64500000 GHz

Start Freq 2.62500000 GHz

Stop Freq 2.66500000 GHz

CF Step 4.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**18.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:41140, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2645	99	26	0.39	Peak	17.912	20.435	20	Pass

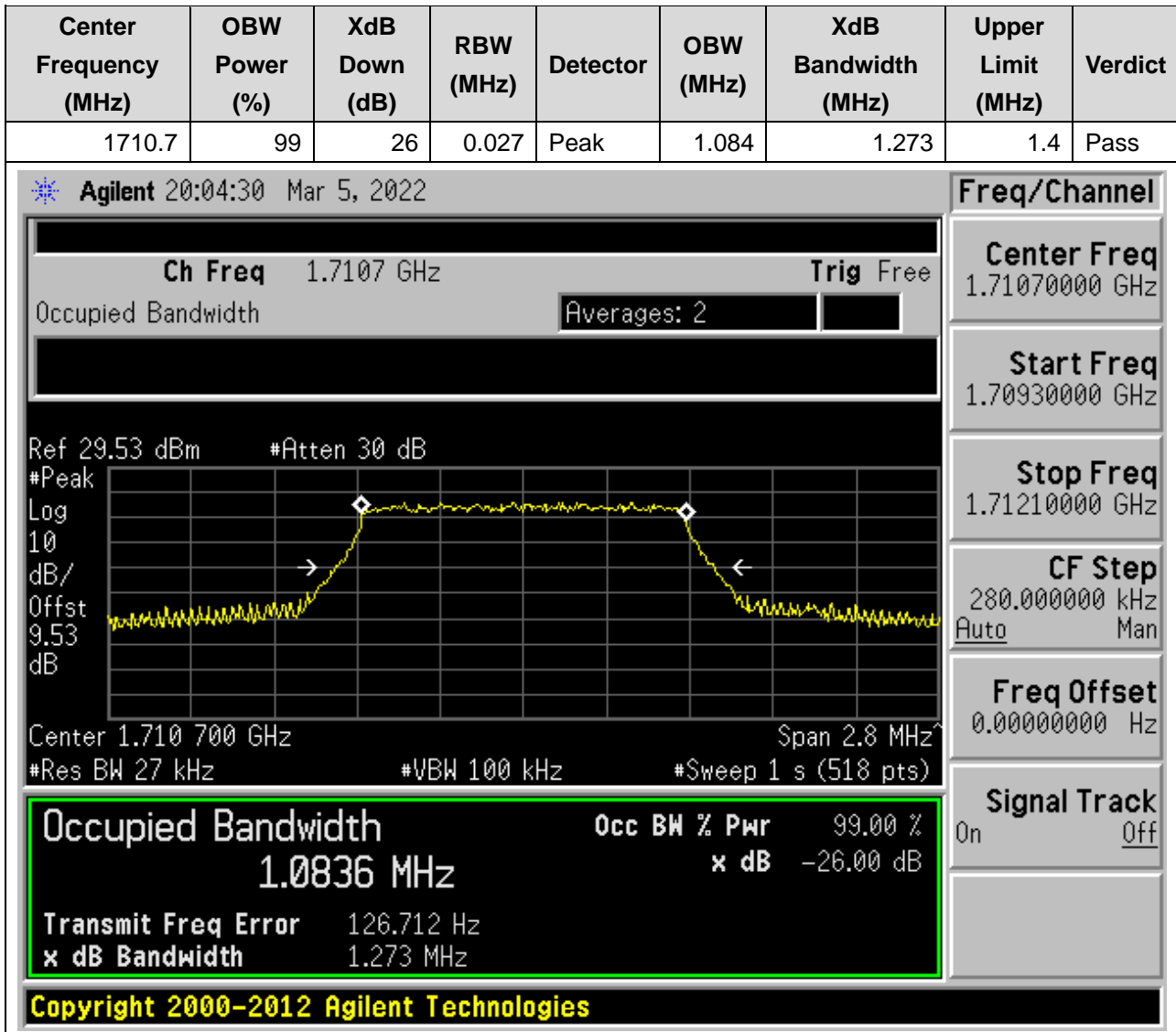
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.645 GHz. The occupied bandwidth is 17.9121 MHz, which is 99.00% of the 20.435 MHz bandwidth. The XdB down is -26.00 dB. The transmit frequency error is -20.116 kHz. The interface includes various controls and settings such as Ch Freq, Trig, Averages, Ref, #Peak, Log, dB/Offst, Center, Span, #Res BW, #VBW, #Sweep, and Signal Track.

Occupied Bandwidth		Occ BW % Pwr
17.9121 MHz	99.00 %	
Transmit Freq Error		x dB
-20.116 kHz		-26.00 dB
x dB Bandwidth		
20.435 MHz		

**Copyright 2000-2012 Agilent Technologies**

## 19. LTE\_Band66

### 19.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:131979, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



**19.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:131979, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1710.7	99	26	0.027	Peak	1.091	1.273	1.4	Pass

**Agilent** 20:04:41 Mar 5, 2022

**Ch Freq** 1.7107 GHz **Trig** Free

Occupied Bandwidth **Averages:** 2

Ref 29.53 dBm #Atten 30 dB

Center 1.710 700 GHz Span 2.8 MHz  
#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)

**Freq/Channel**

**Center Freq**  
1.71070000 GHz

**Start Freq**  
1.70930000 GHz

**Stop Freq**  
1.71210000 GHz

**CF Step**  
280.000000 kHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

**Occupied Bandwidth** **Occ BW % Pwr** 99.00 %

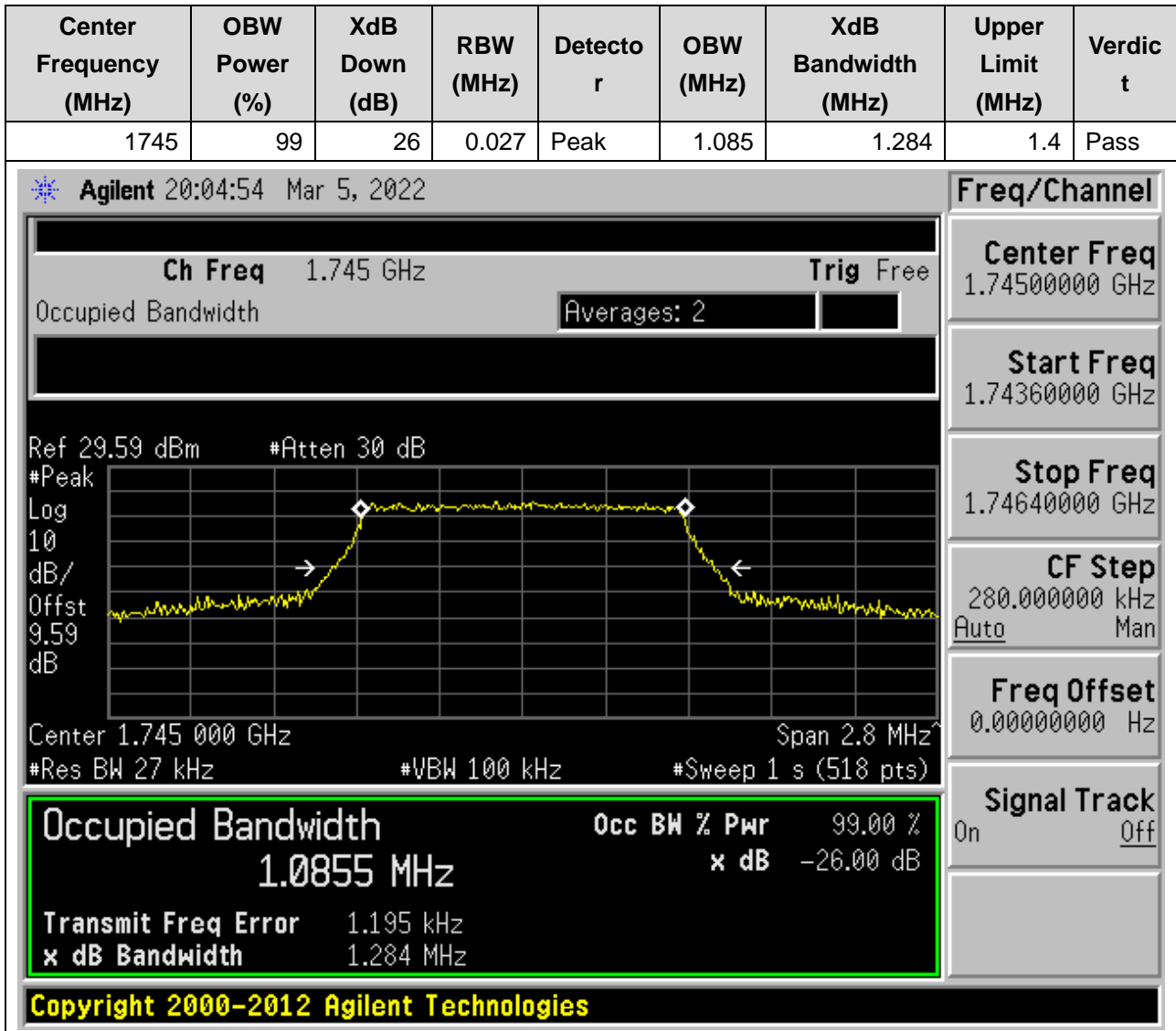
**1.0911 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -2.739 kHz

**x dB Bandwidth** 1.273 MHz

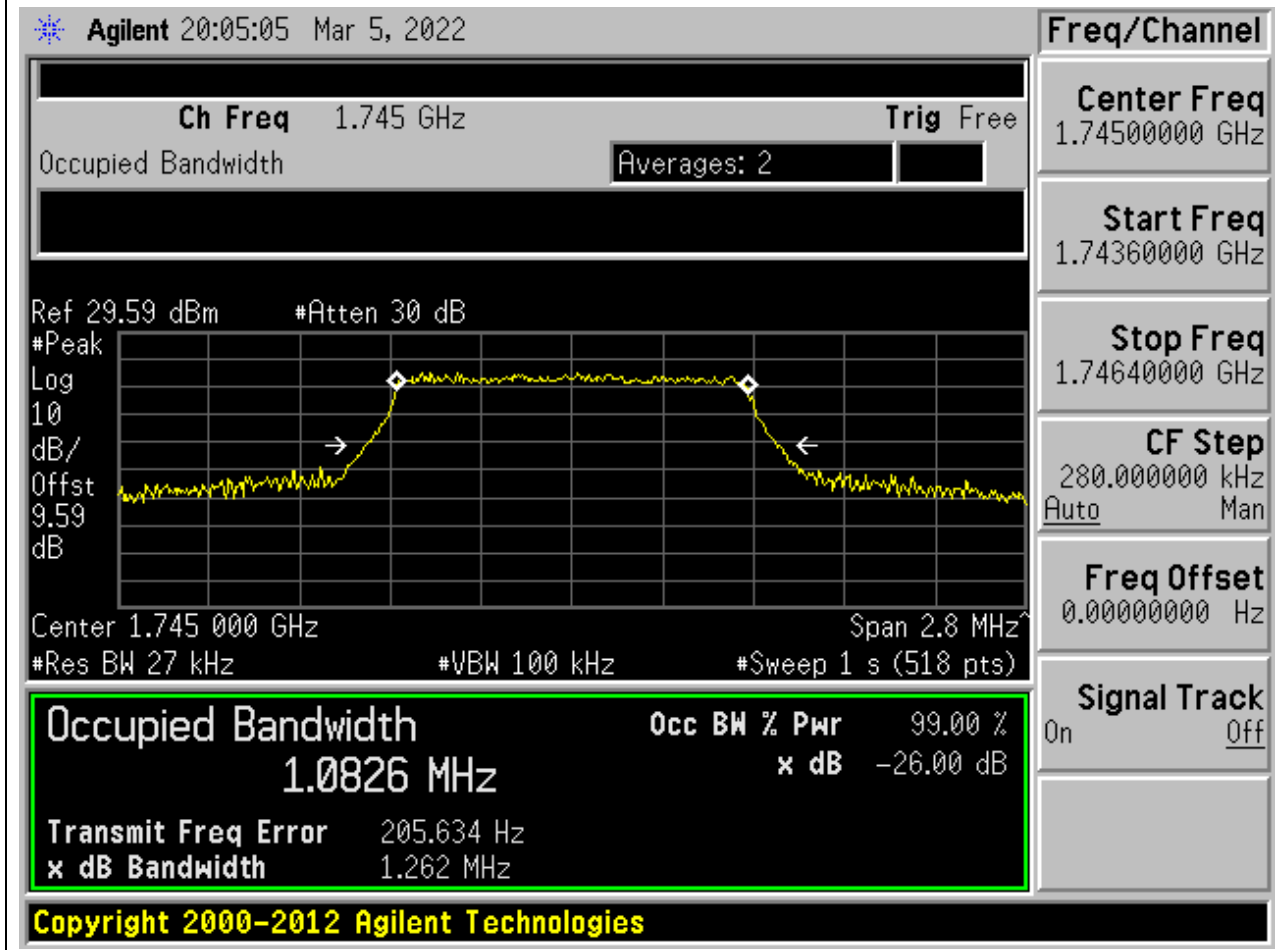
Copyright 2000–2012 Agilent Technologies

**19.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:132322, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



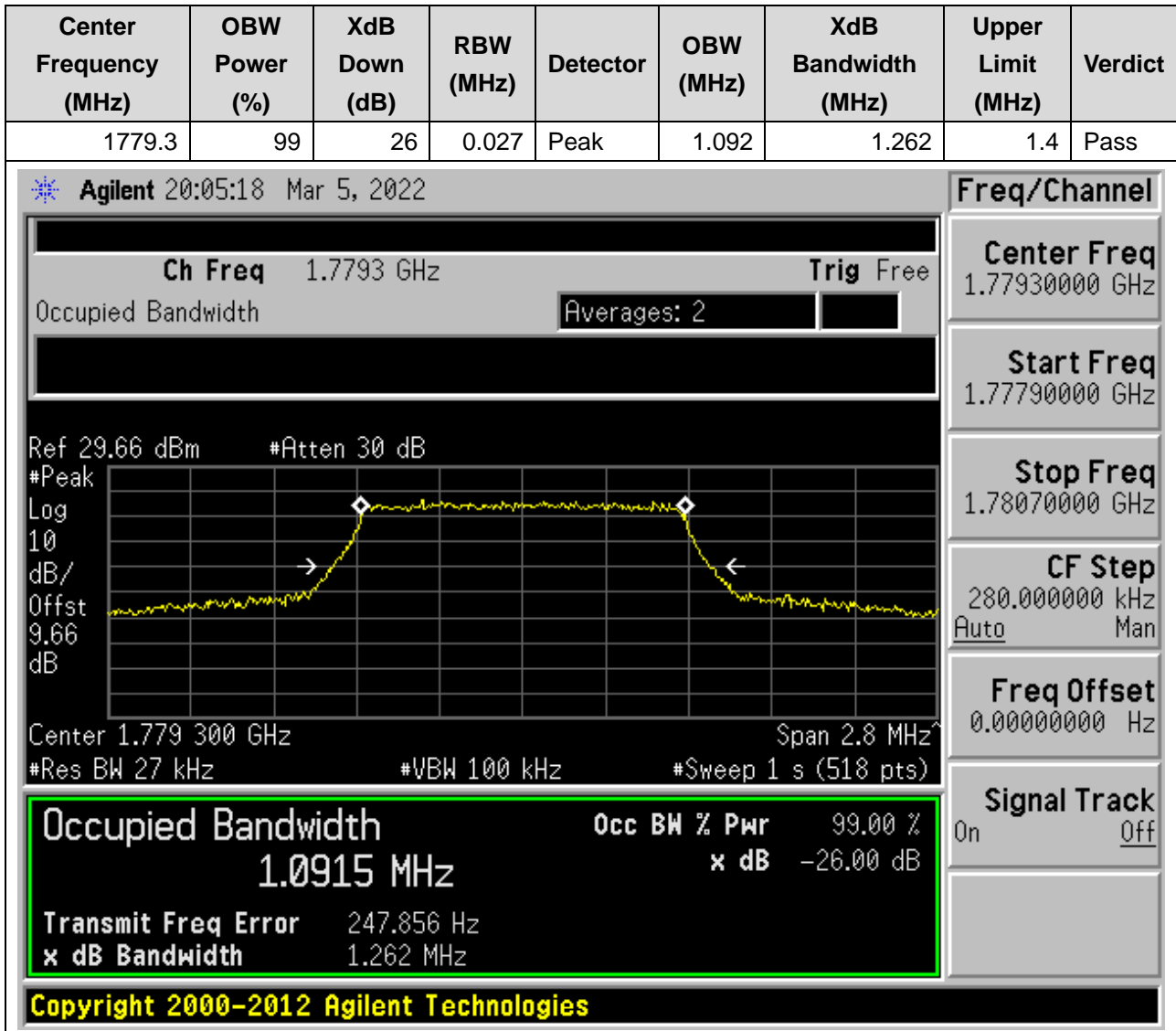
**19.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:132322, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.027	Peak	1.083	1.262	1.4	Pass

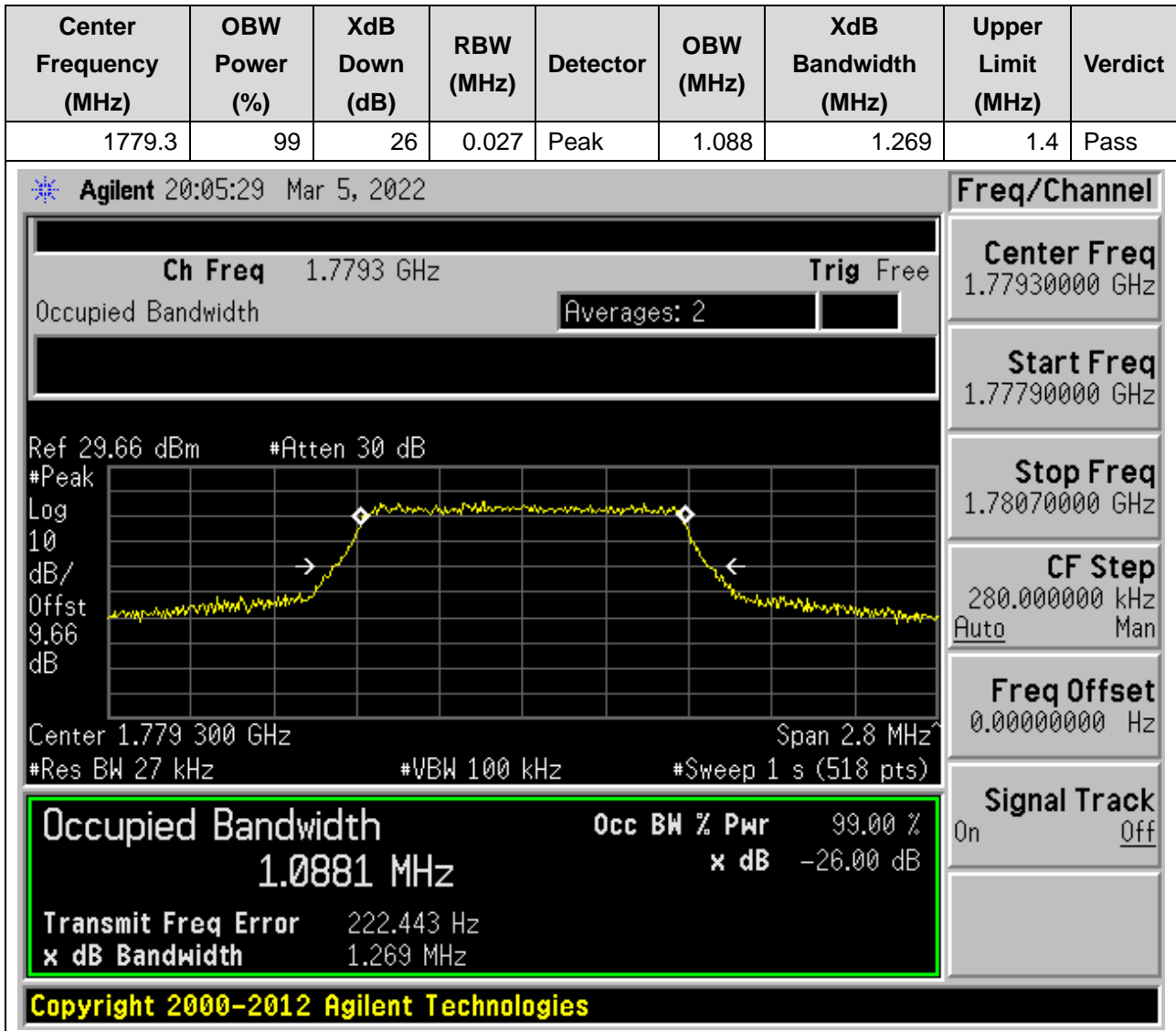




**19.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:132665, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



**19.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:132665, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



**19.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:131987, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1711.5	99	26	0.062	Peak	2.687	2.91	3	Pass

**Agilent** 20:05:44 Mar 5, 2022

**Ch Freq** 1.7115 GHz **Trig** Free

Occupied Bandwidth **Averages: 2**

Ref 29.53 dBm #Atten 30 dB

Center 1.711 500 GHz Span 6 MHz  
#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

**Freq/Channel**

**Center Freq**  
1.71150000 GHz

**Start Freq**  
1.70850000 GHz

**Stop Freq**  
1.71450000 GHz

**CF Step**  
600.000000 kHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

**Occupied Bandwidth** **Occ BW % Pwr** 99.00 %

**2.6866 MHz**

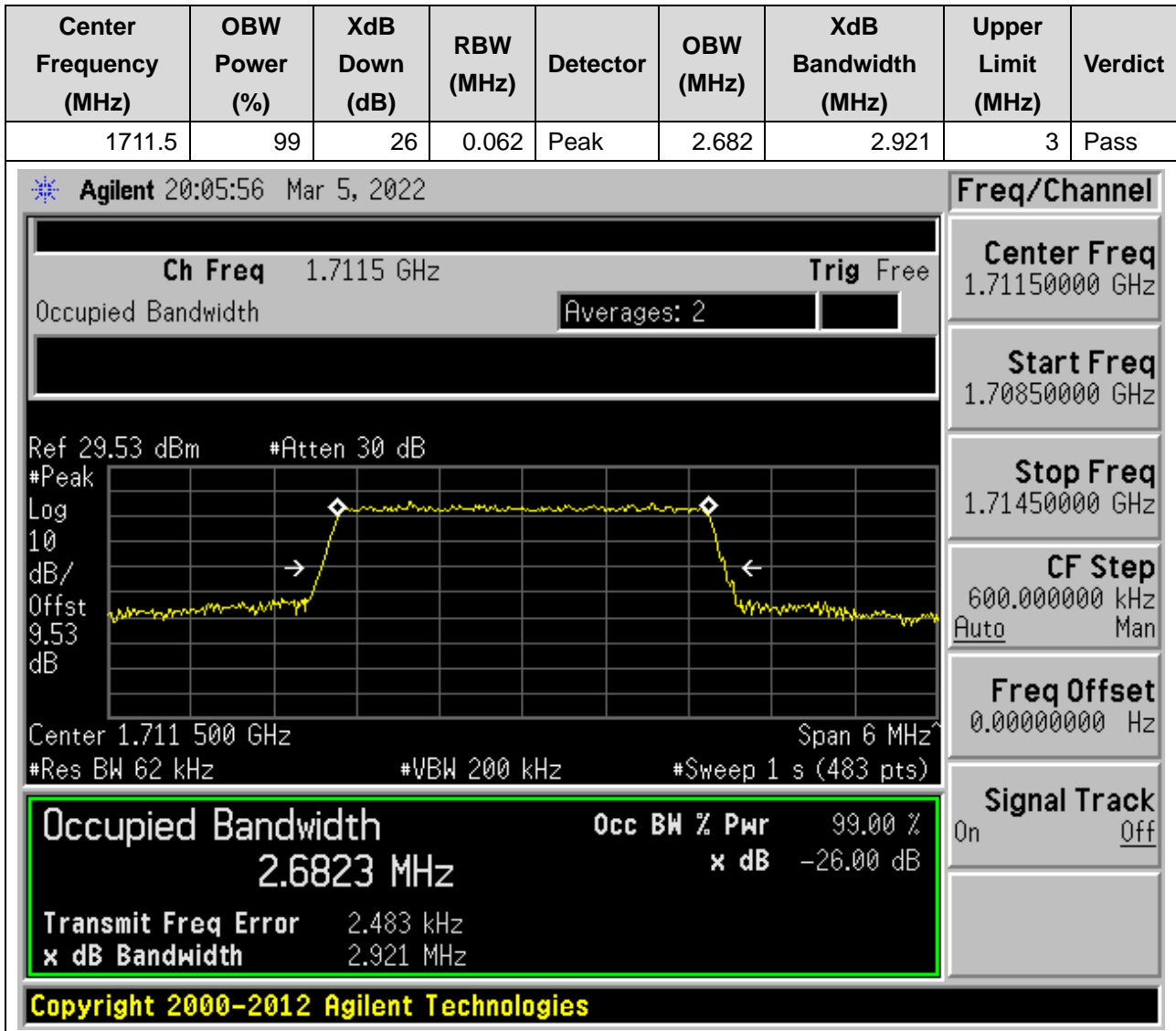
**x dB** -26.00 dB

**Transmit Freq Error** 48.314 Hz

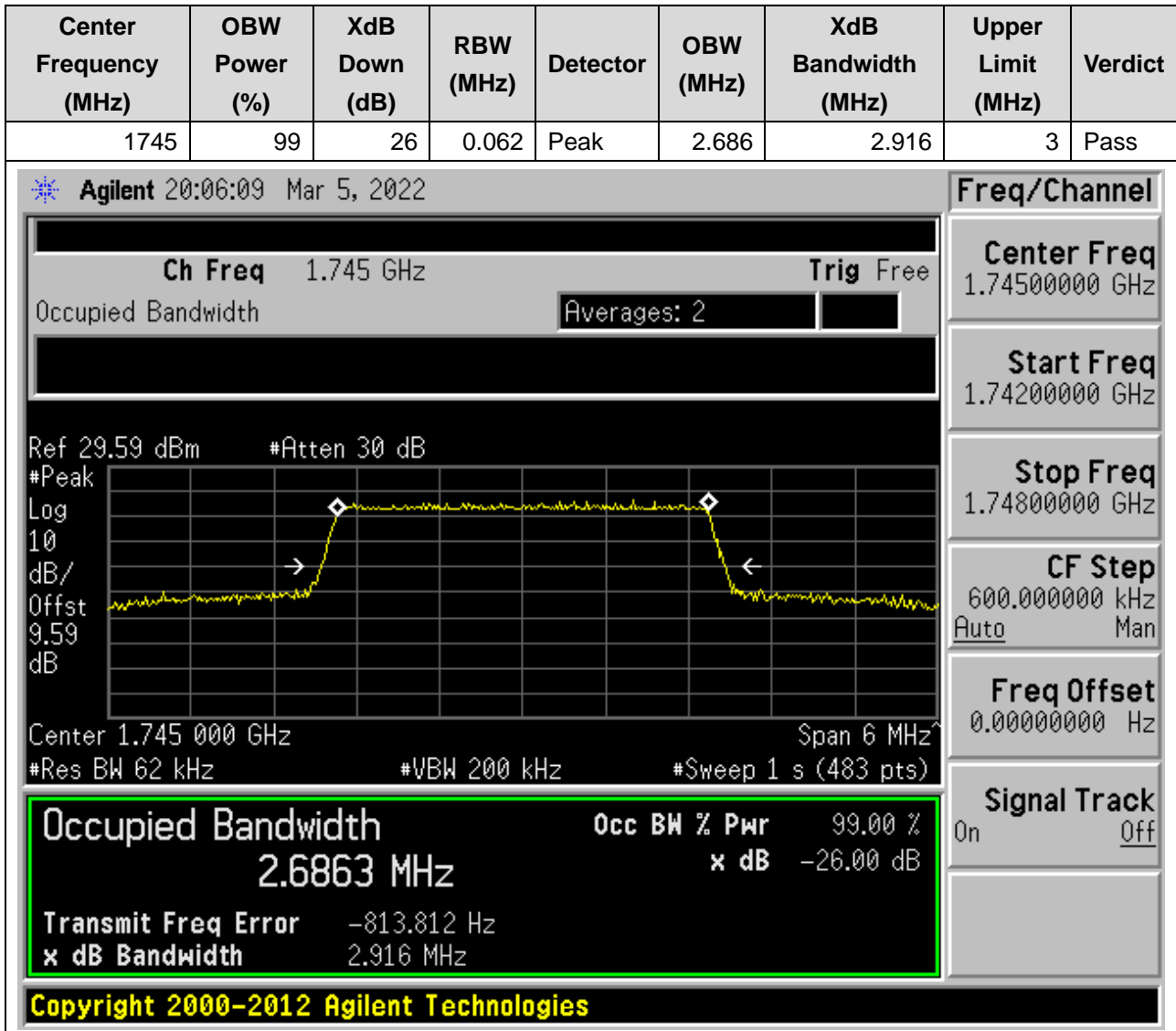
**x dB Bandwidth** 2.910 MHz

Copyright 2000–2012 Agilent Technologies

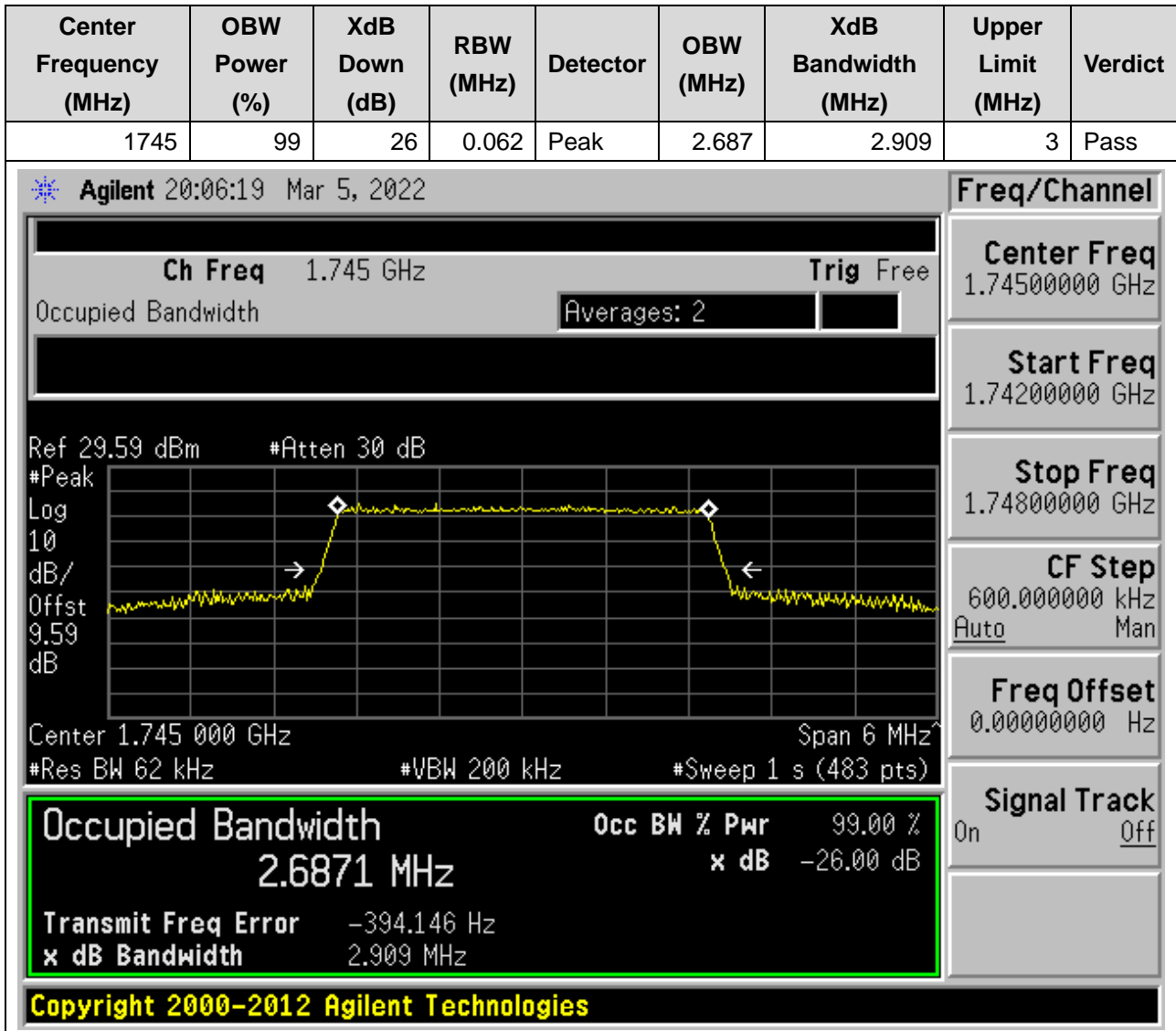
**19.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:131987, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



**19.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:132322, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



**19.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:132322, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



**19.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:132657, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1778.5	99	26	0.062	Peak	2.688	2.919	3	Pass

**Agilent** 20:06:33 Mar 5, 2022

**Ch Freq** 1.7785 GHz **Trig** Free

Occupied Bandwidth **Averages: 2**

Ref 29.66 dBm #Atten 30 dB

Center 1.778 500 GHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

**Freq/Channel**

**Center Freq**  
1.77850000 GHz

**Start Freq**  
1.77550000 GHz

**Stop Freq**  
1.78150000 GHz

**CF Step**  
600.000000 kHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

**Occupied Bandwidth** **Occ BW % Pwr** 99.00 %

**2.6884 MHz**

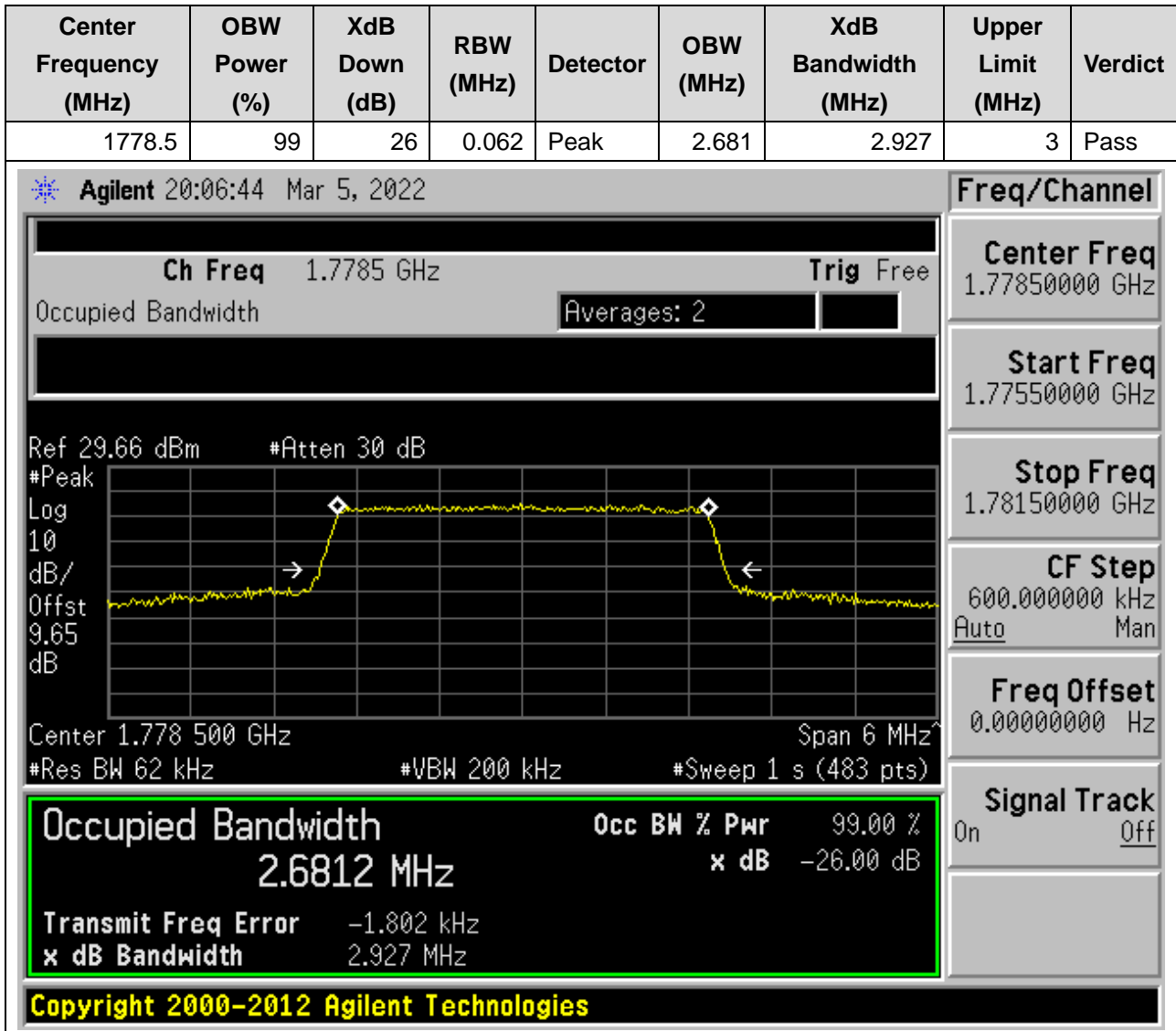
**x dB** -26.00 dB

**Transmit Freq Error** 979.978 Hz

**x dB Bandwidth** 2.919 MHz

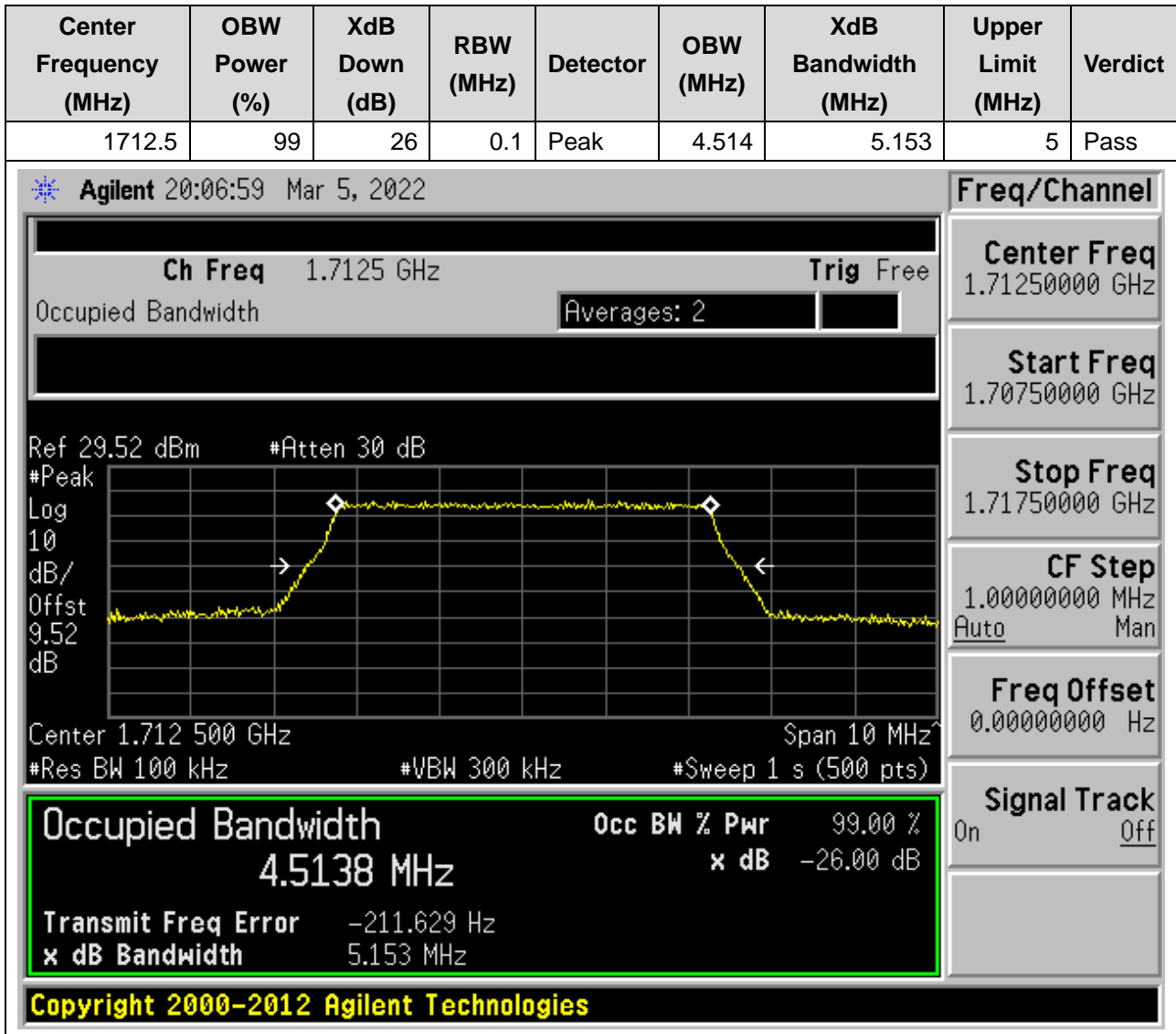
Copyright 2000-2012 Agilent Technologies

**19.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:132657, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

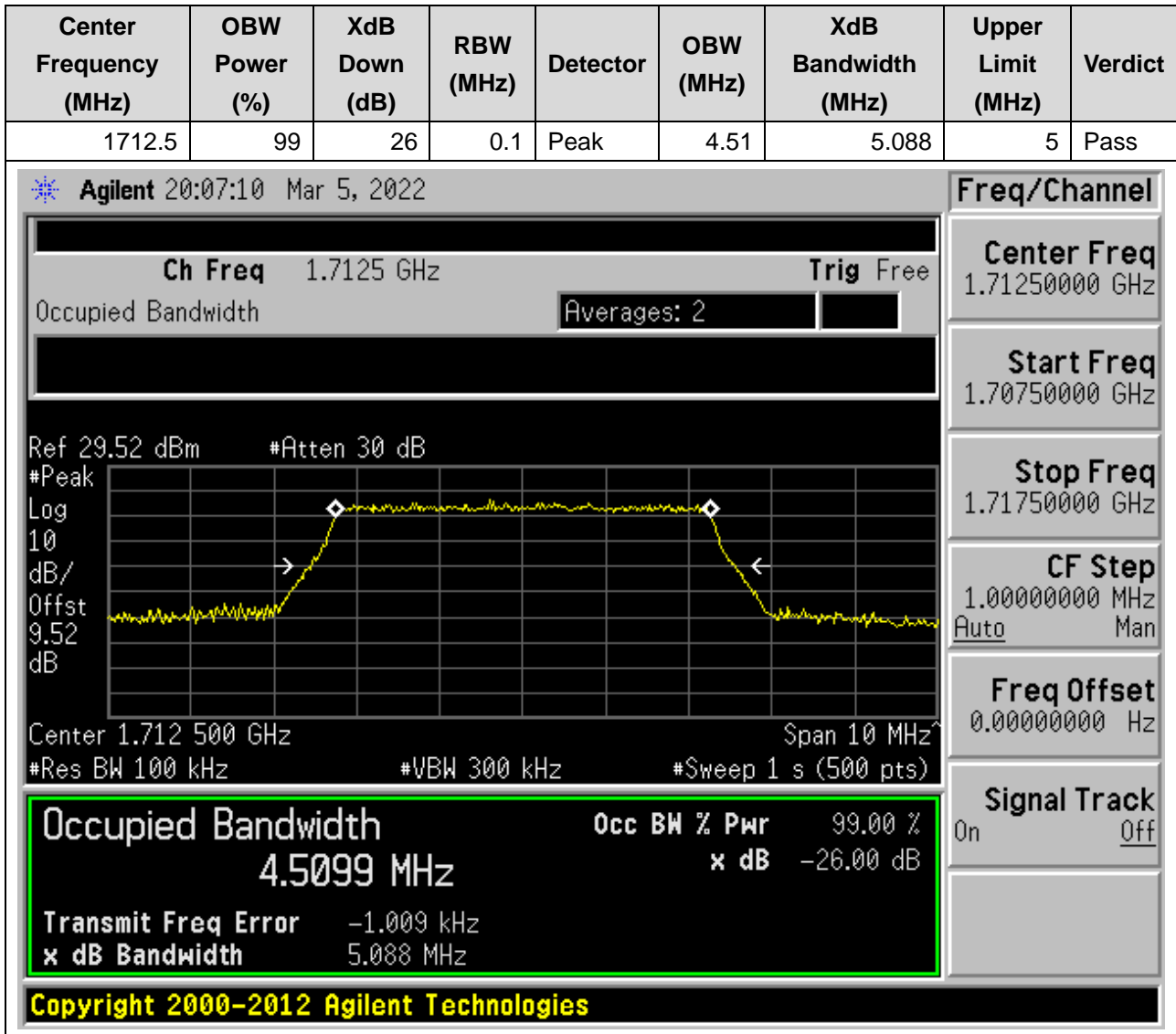




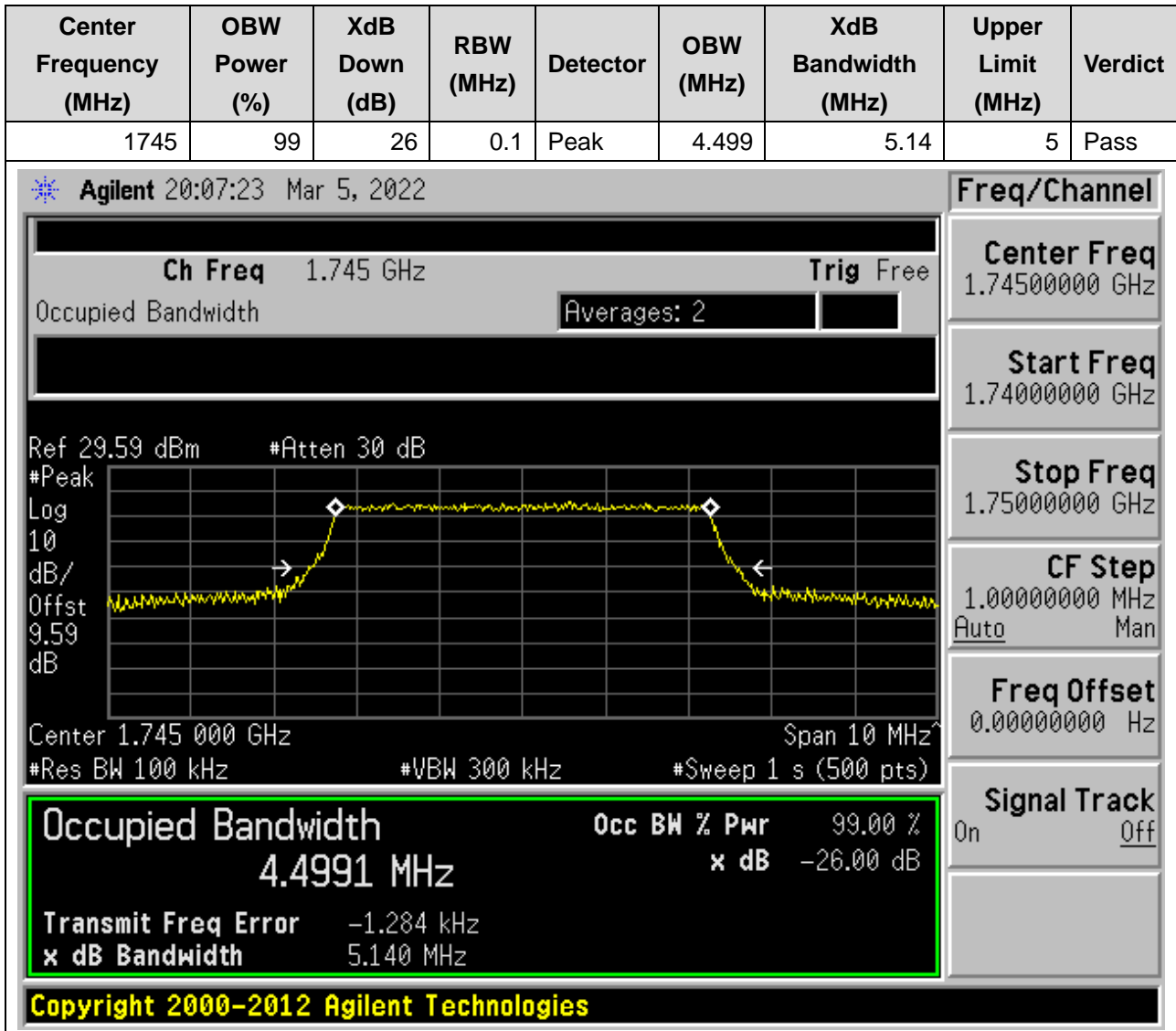
**19.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:131997, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



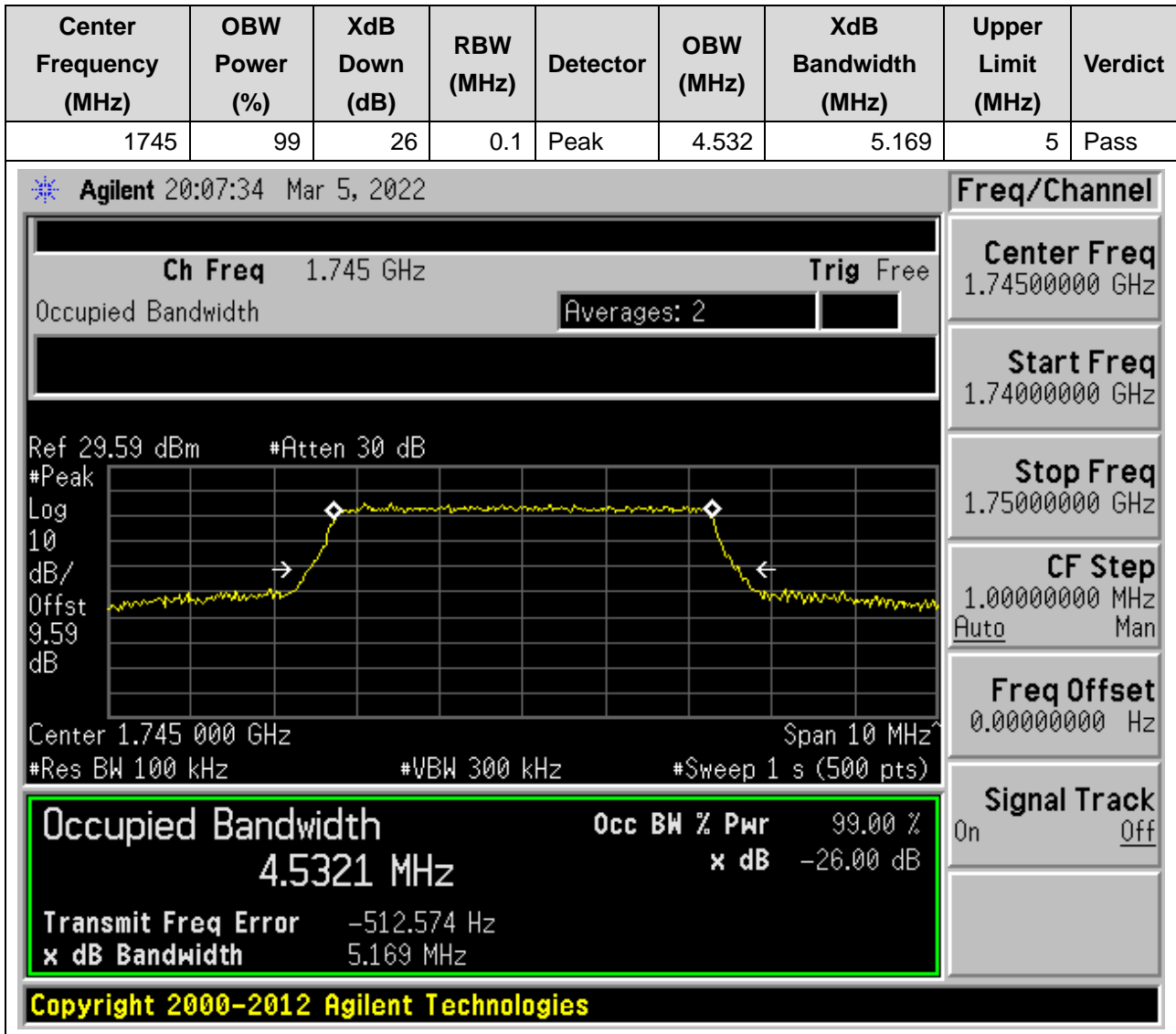
**19.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:131997, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



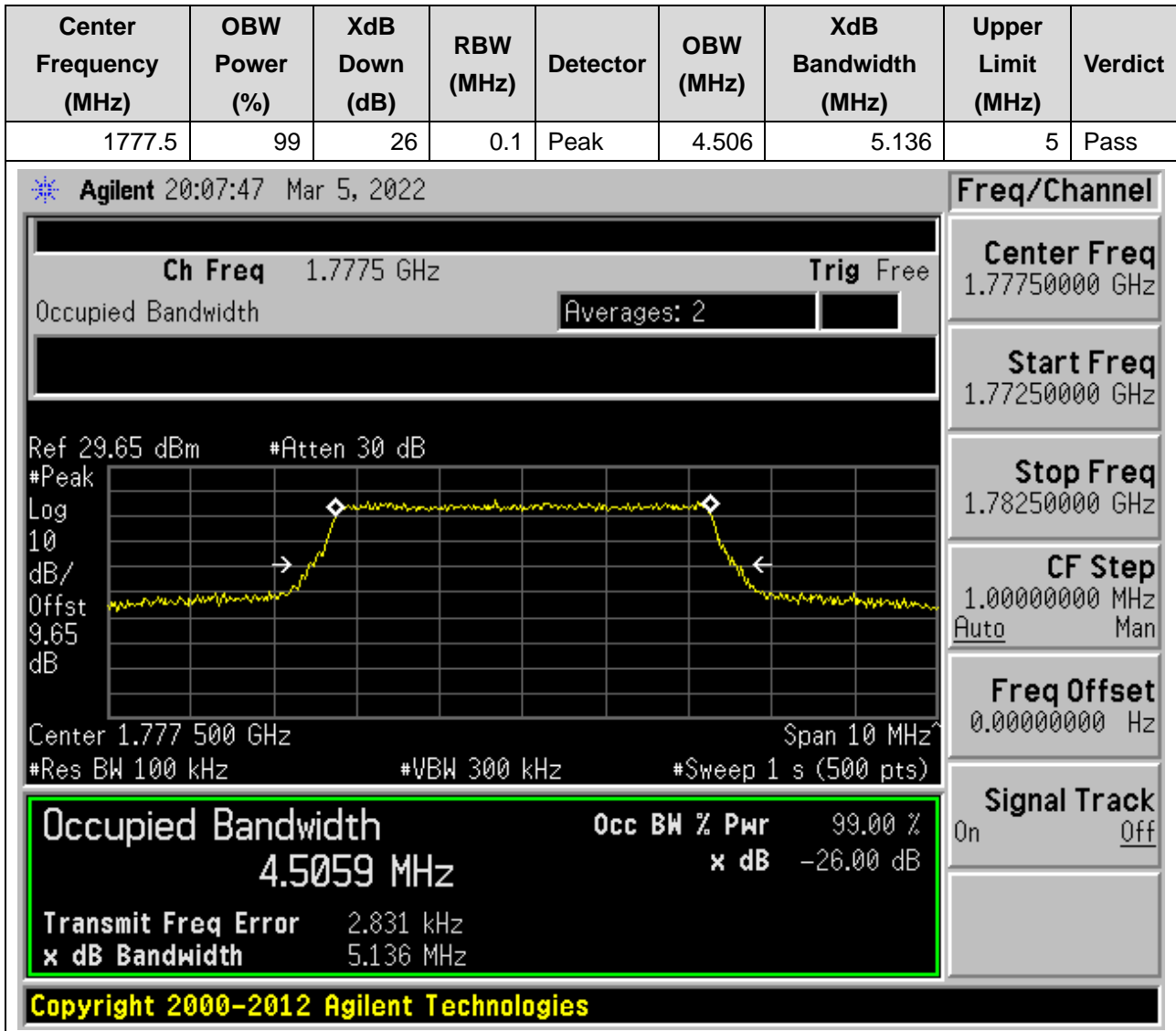
**19.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:132322, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



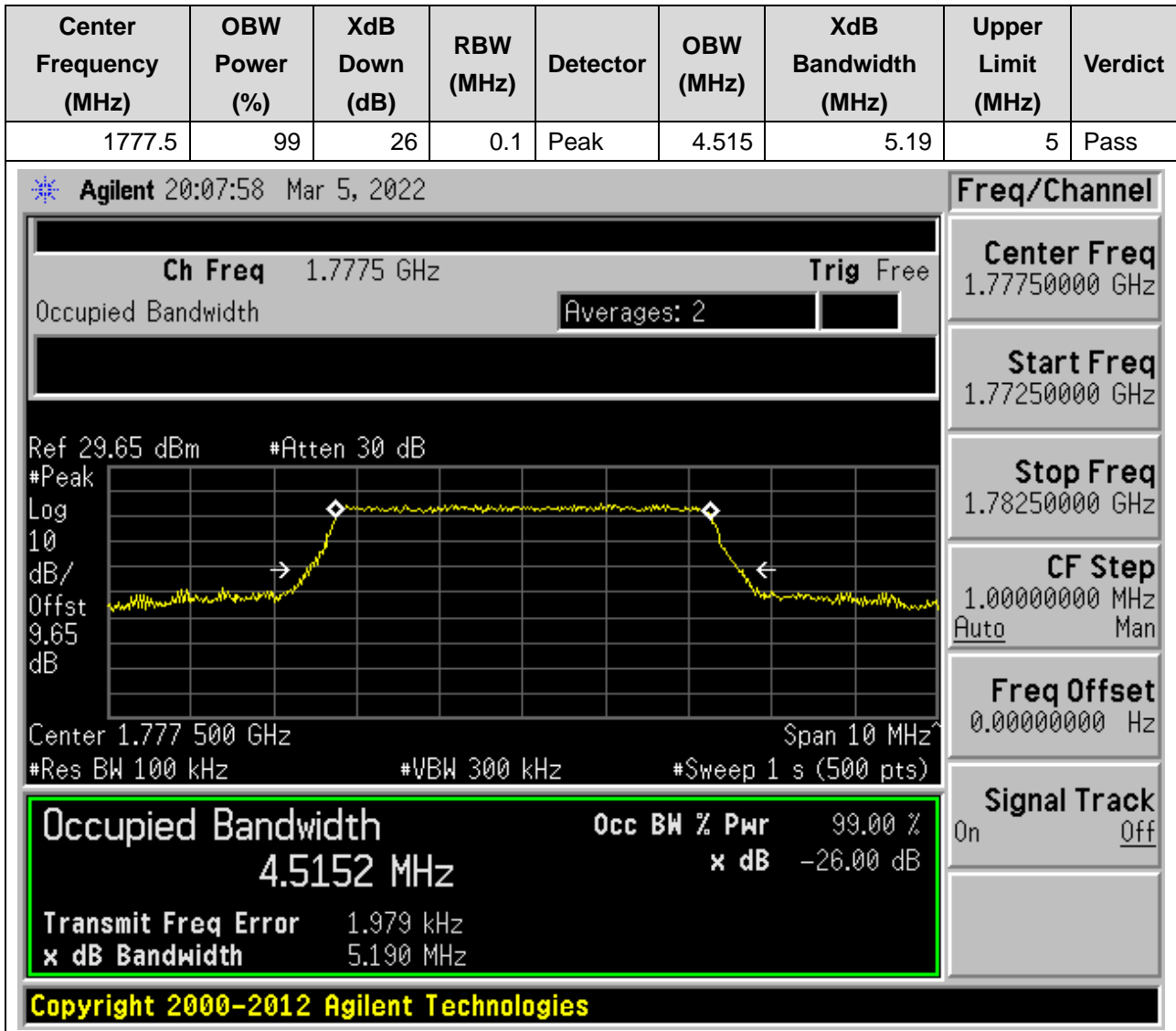
**19.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:132322, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



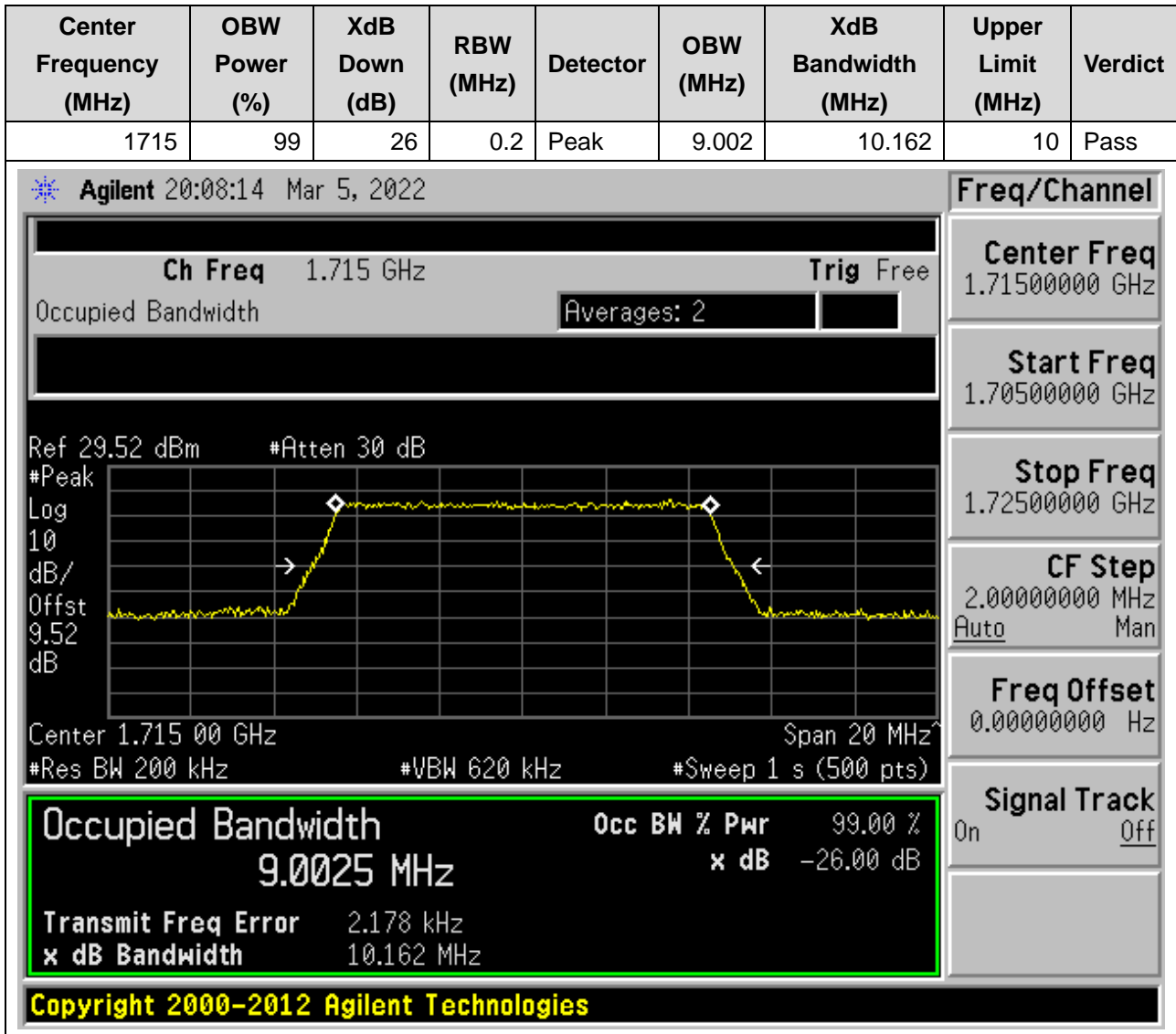
**19.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:132647, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



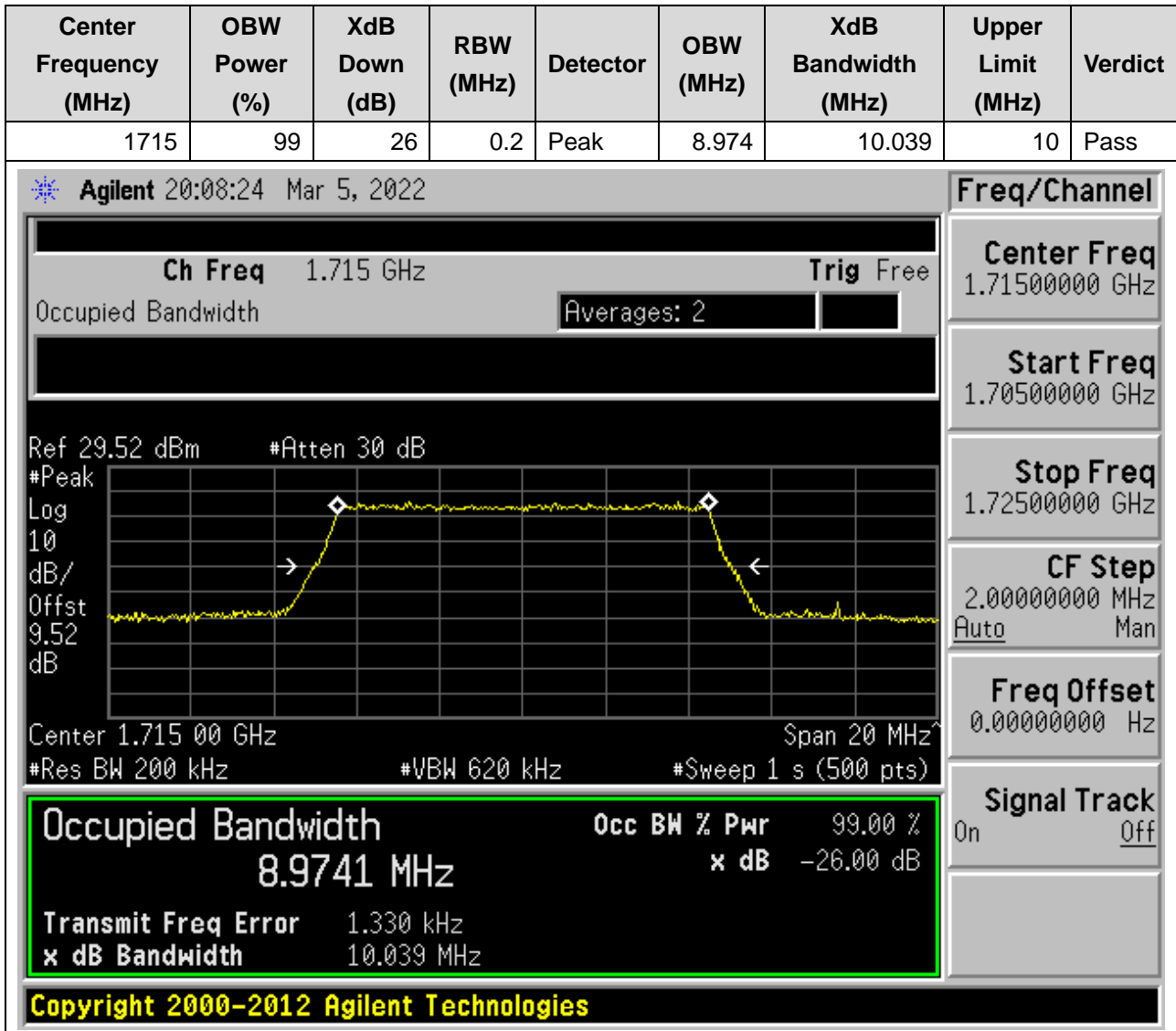
**19.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:132647, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



**19.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:132022, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



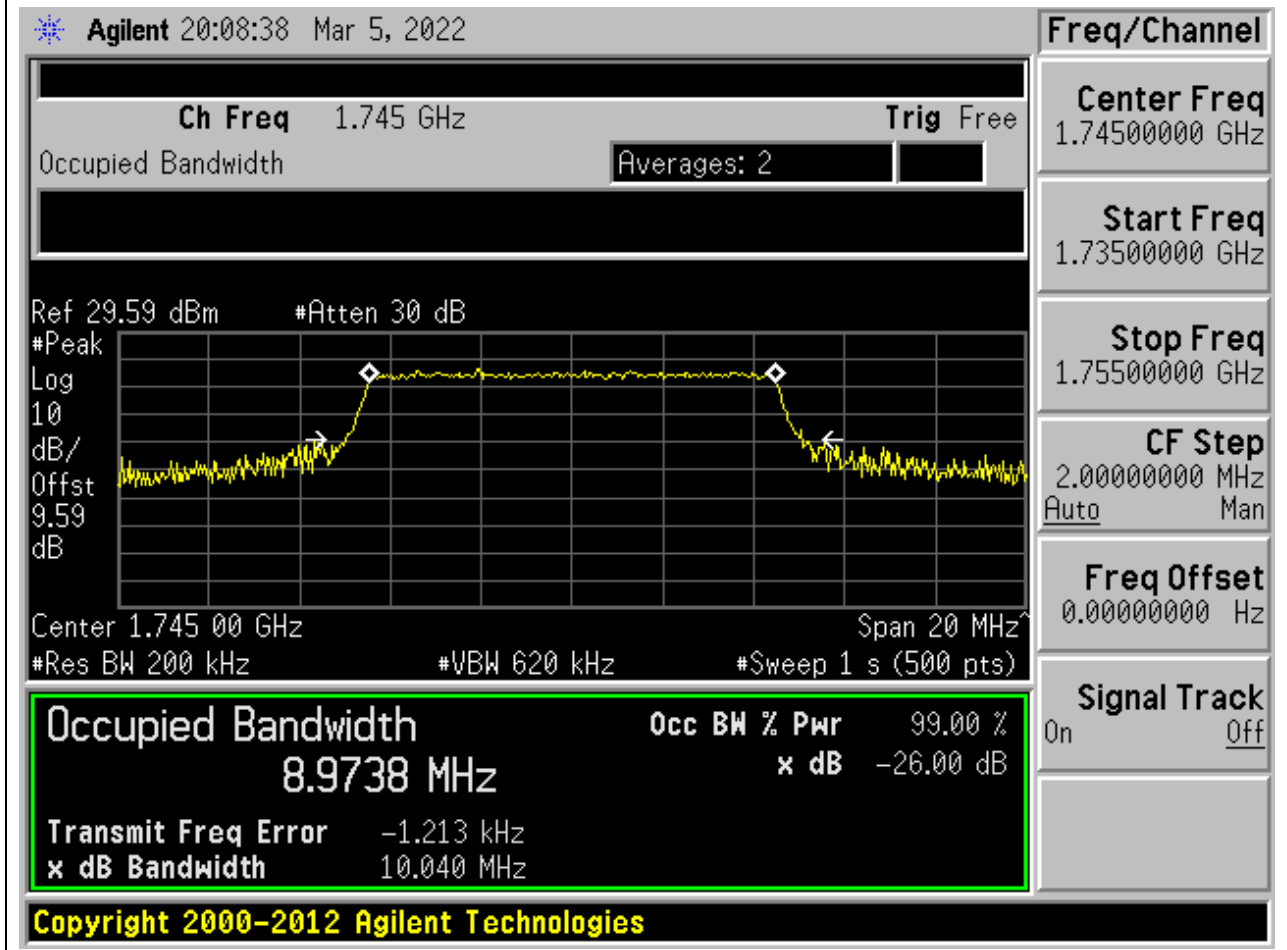
**19.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:132022, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



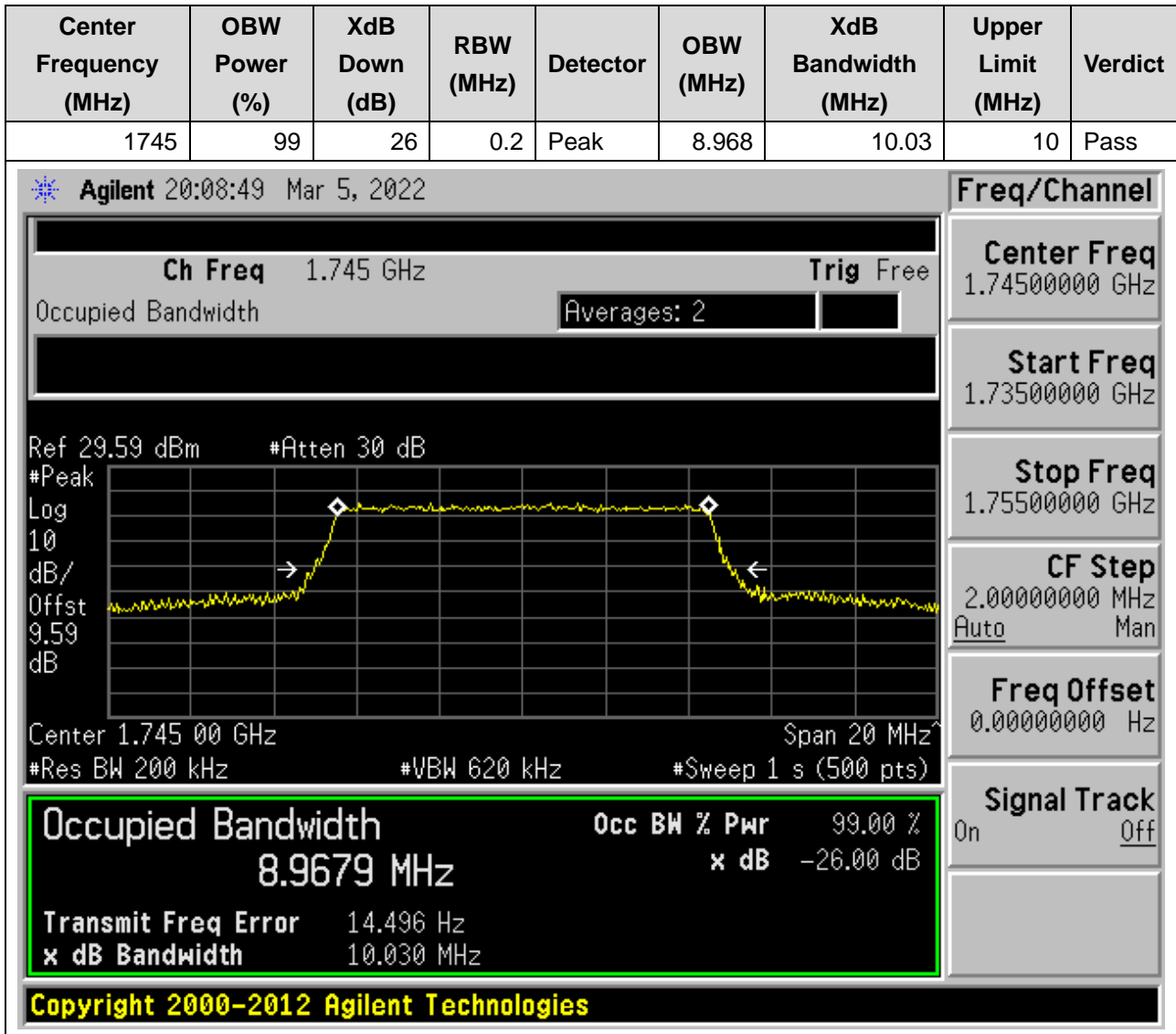


**19.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:132322, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

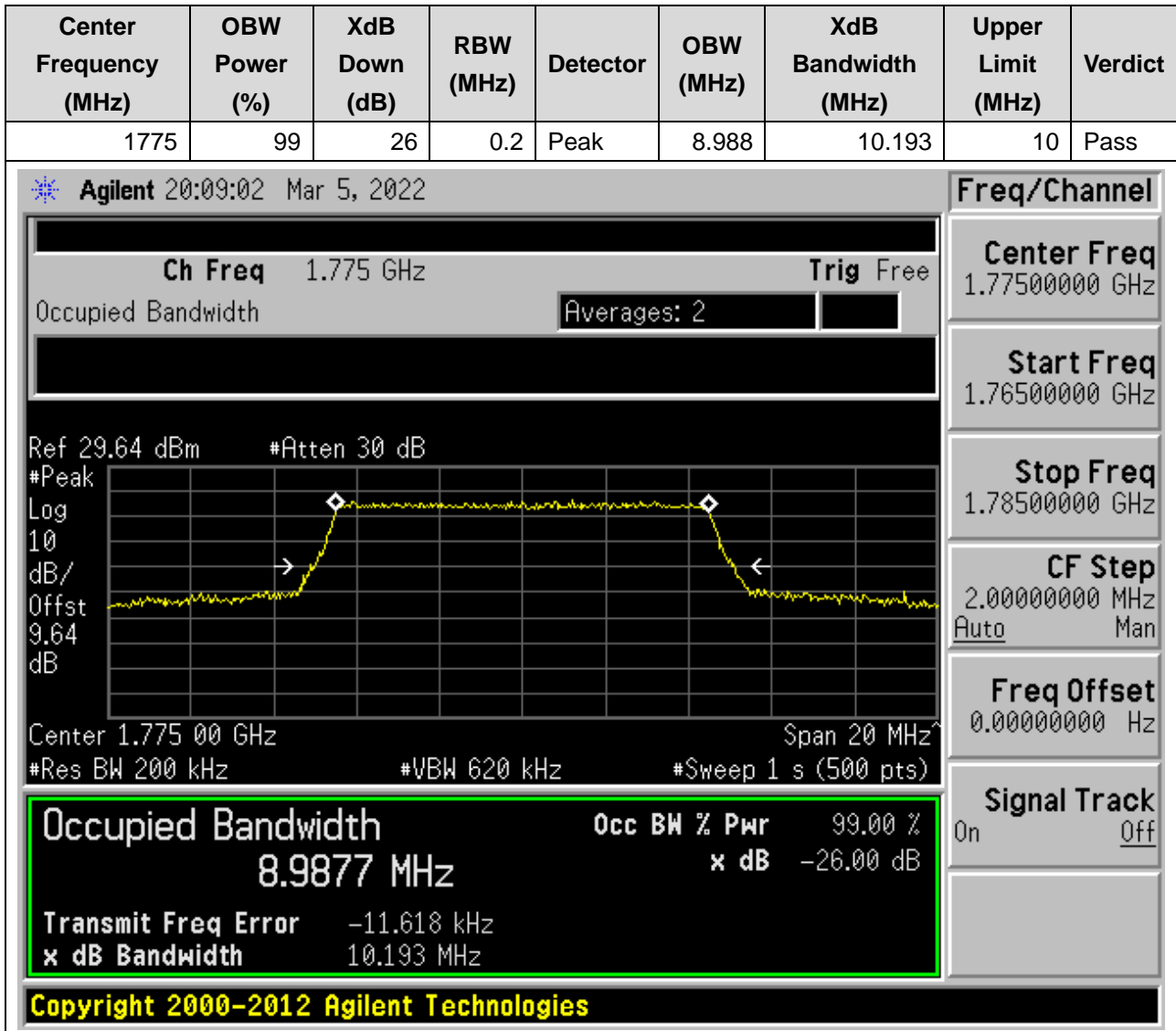
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.2	Peak	8.974	10.04	10	Pass



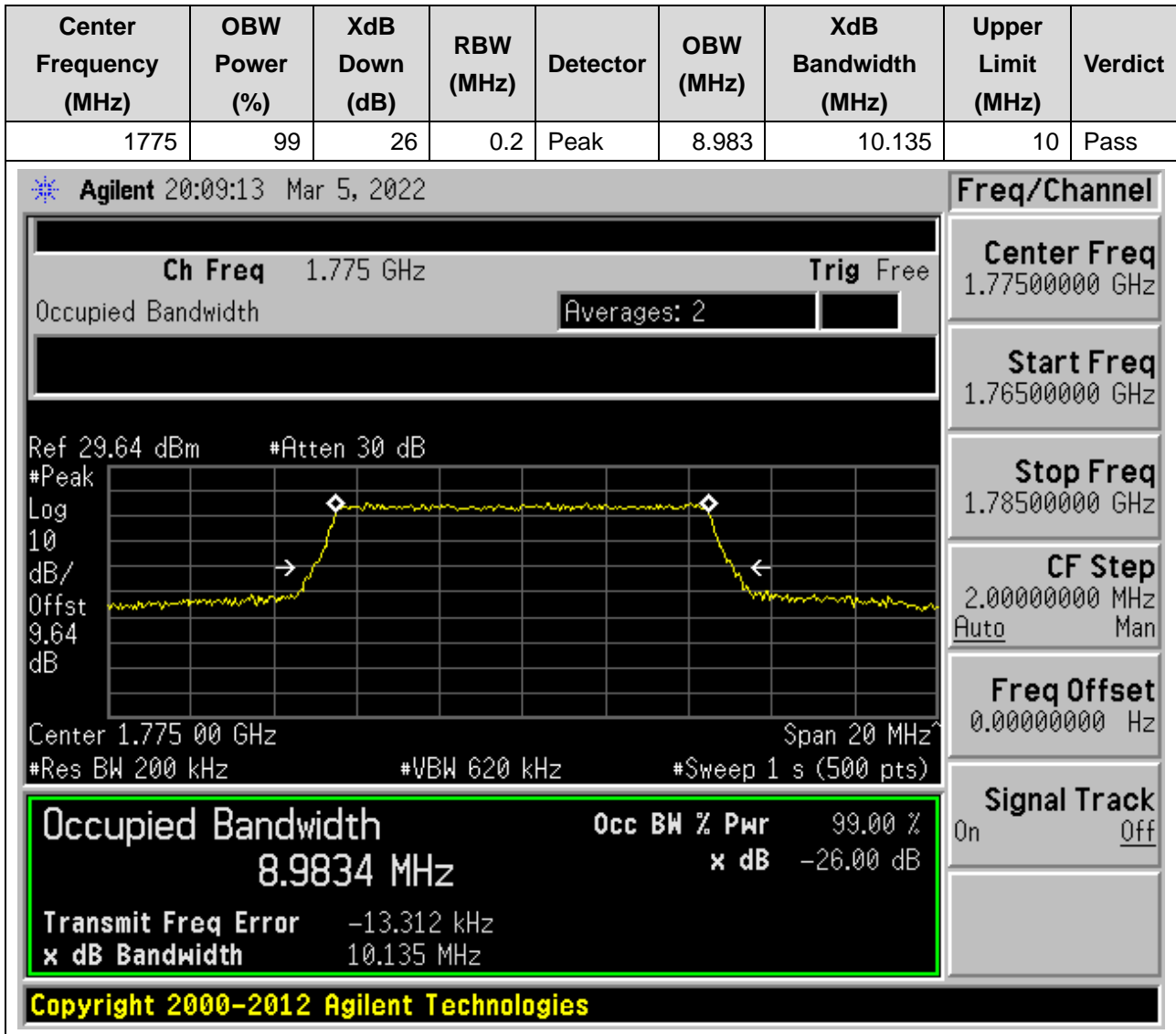
**19.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:132322, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



**19.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:132622, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



**19.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:132622, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



**19.25. LTE Occupied Bandwidth(NTNV)(Subtest:25, Channel:132047, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1717.5	99	26	0.3	Peak	13.5	15.113	15	Pass

**Agilent** 20:09:28 Mar 5, 2022

**Ch Freq** 1.7175 GHz **Trig** Free

Occupied Bandwidth **Averages: 2**

Ref 29.51 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.51 dB

Center 1.717 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>13.4999 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	15.700 kHz	
<b>x dB Bandwidth</b>	15.113 MHz	

**Copyright 2000–2012 Agilent Technologies**

**Freq/Channel**

**Center Freq**  
1.71750000 GHz

**Start Freq**  
1.70250000 GHz

**Stop Freq**  
1.73250000 GHz

**CF Step**  
3.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

**19.26. LTE Occupied Bandwidth(NTNV)(Subtest:26, Channel:132047, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1717.5	99	26	0.3	Peak	13.495	15.117	15	Pass

**Agilent** 20:09:39 Mar 5, 2022

**Ch Freq** 1.7175 GHz **Trig** Free

Occupied Bandwidth **Averages: 2**

Ref 29.51 dBm #Atten 30 dB

Center 1.717 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>13.4946 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-9.407 kHz
<b>x dB Bandwidth</b>		15.118 MHz

**Copyright 2000-2012 Agilent Technologies**

**Freq/Channel**

**Center Freq**  
1.71750000 GHz

**Start Freq**  
1.70250000 GHz

**Stop Freq**  
1.73250000 GHz

**CF Step**  
3.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

**19.27. LTE Occupied Bandwidth(NTNV)(Subtest:27, Channel:132322, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.3	Peak	13.463	15.107	15	Pass

**Agilent**

Ch Freq 1.745 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 29.38 dBm #Atten 30 dB

Center 1.745 00 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (500 pts)

**Freq/Channel**

Center Freq 1.74500000 GHz

Start Freq 1.73000000 GHz

Stop Freq 1.76000000 GHz

CF Step 3.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

13.4629 MHz x dB -26.00 dB

Transmit Freq Error 186.863 Hz

x dB Bandwidth 15.107 MHz

Copyright 2000-2012 Agilent Technologies

**19.28. LTE Occupied Bandwidth(NTNV)(Subtest:28, Channel:132322, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.3	Peak	13.488	15.094	15	Pass

**Agilent**

Ch Freq 1.745 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 29.38 dBm #Atten 30 dB

Center 1.745 00 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (500 pts)

**Freq/Channel**

Center Freq 1.74500000 GHz

Start Freq 1.73000000 GHz

Stop Freq 1.76000000 GHz

CF Step 3.00000000 MHz  
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

**Occupied Bandwidth** Occ BW % Pwr 99.00 %

**13.4883 MHz** x dB -26.00 dB

Transmit Freq Error 12.341 kHz

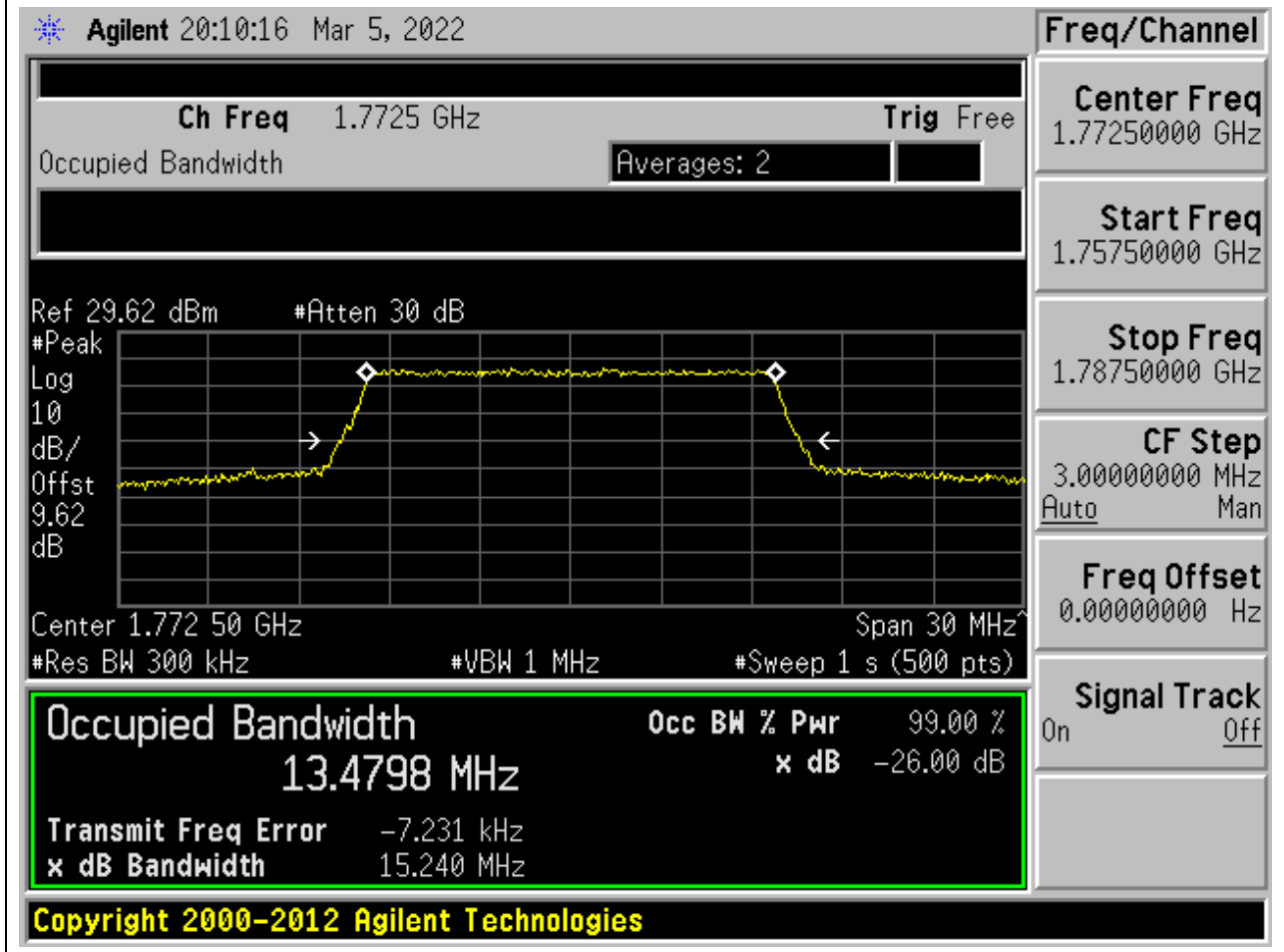
x dB Bandwidth 15.094 MHz

Copyright 2000-2012 Agilent Technologies

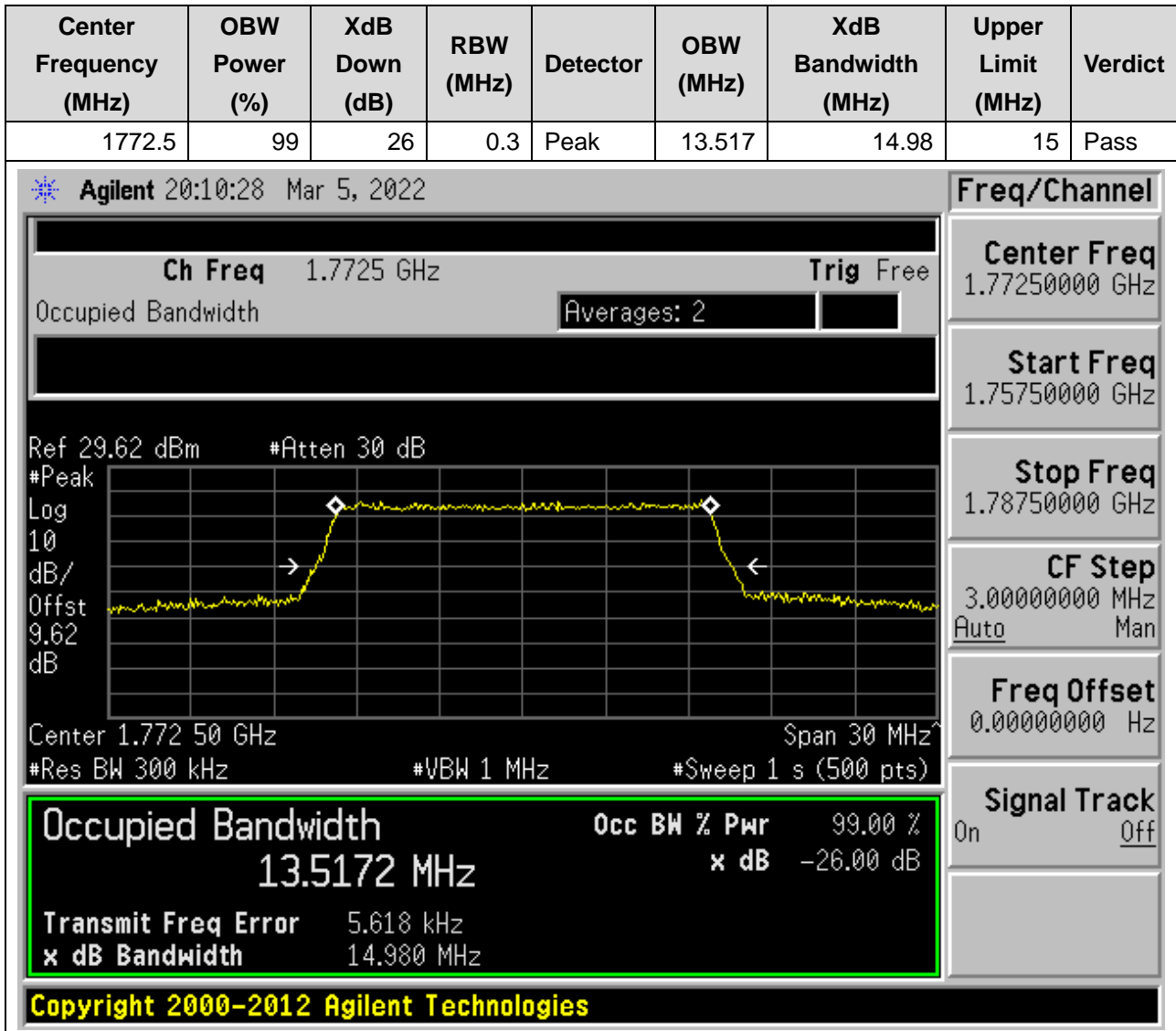


**19.29. LTE Occupied Bandwidth(NTNV)(Subtest:29, Channel:132597, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1772.5	99	26	0.3	Peak	13.48	15.24	15	Pass

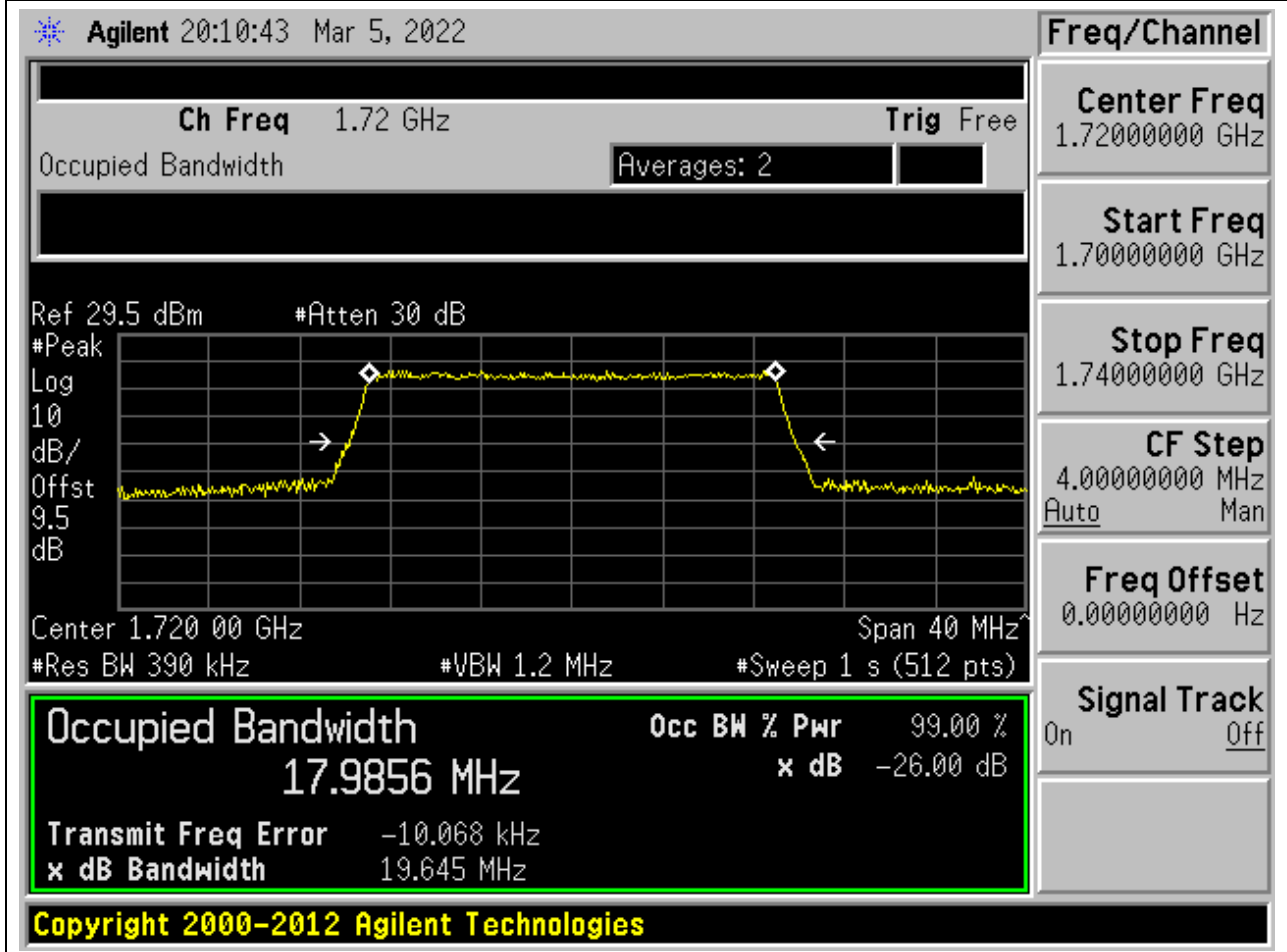


**19.30. LTE Occupied Bandwidth(NTNV)(Subtest:30, Channel:132597, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

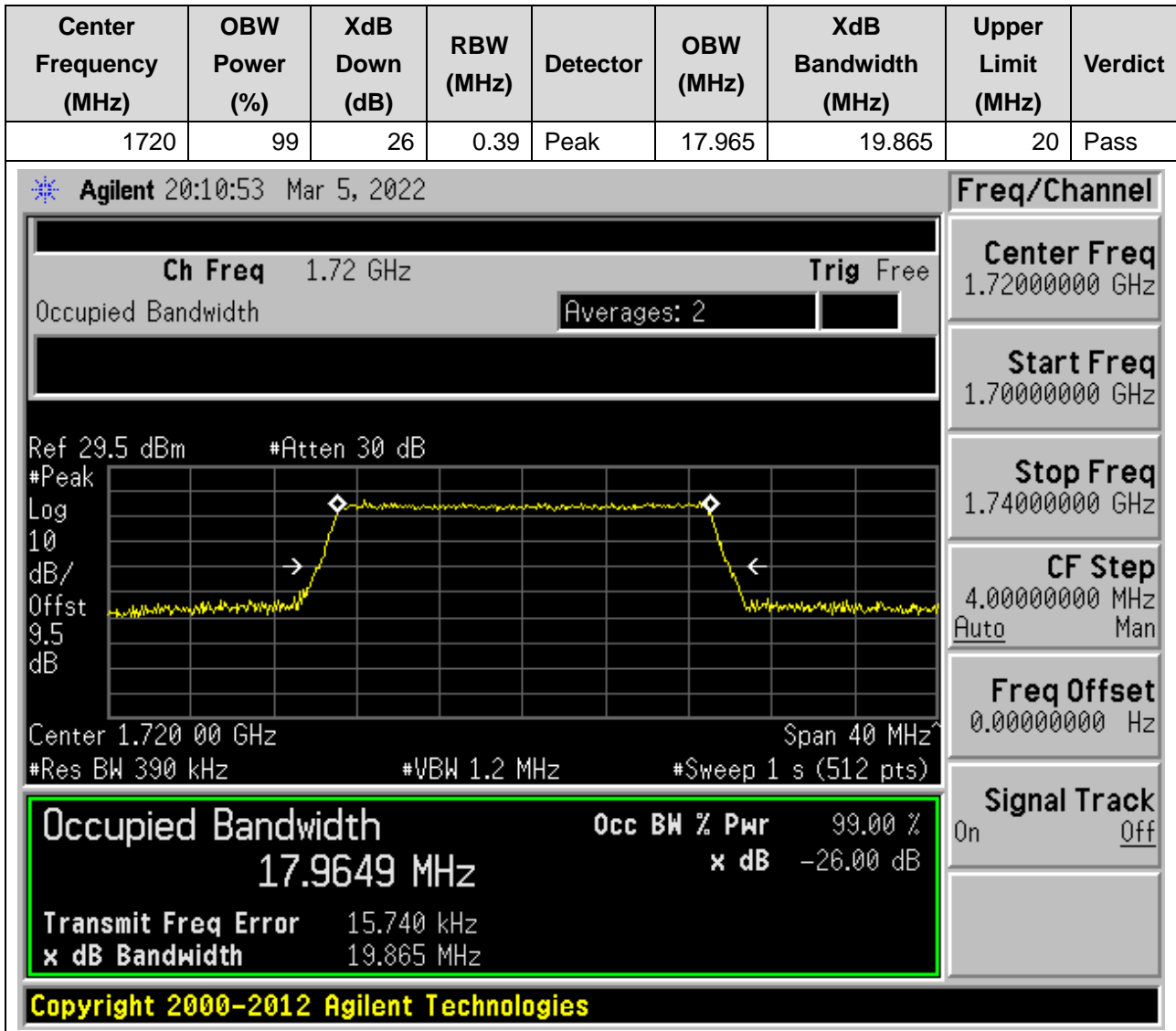


**19.31. LTE Occupied Bandwidth(NTNV)(Subtest:31, Channel:132072, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1720	99	26	0.39	Peak	17.986	19.645	20	Pass



**19.32. LTE Occupied Bandwidth(NTNV)(Subtest:32, Channel:132072, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



**19.33. LTE Occupied Bandwidth(NTNV)(Subtest:33, Channel:132322, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.39	Peak	17.93	19.765	20	Pass

**Agilent** 20:11:07 Mar 5, 2022

**Ch Freq** 1.745 GHz **Trig** Free

Occupied Bandwidth **Averages: 2**

Ref 29.59 dBm #Atten 30 dB

Center 1.745 00 GHz Span 40 MHz  
#Res BW 390 kHz #VBW 1.2 MHz #Sweep 1 s (512 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>17.9295 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	12.642 kHz	
<b>x dB Bandwidth</b>	19.765 MHz	

**Copyright 2000–2012 Agilent Technologies**

**Freq/Channel**

**Center Freq**  
1.74500000 GHz

**Start Freq**  
1.72500000 GHz

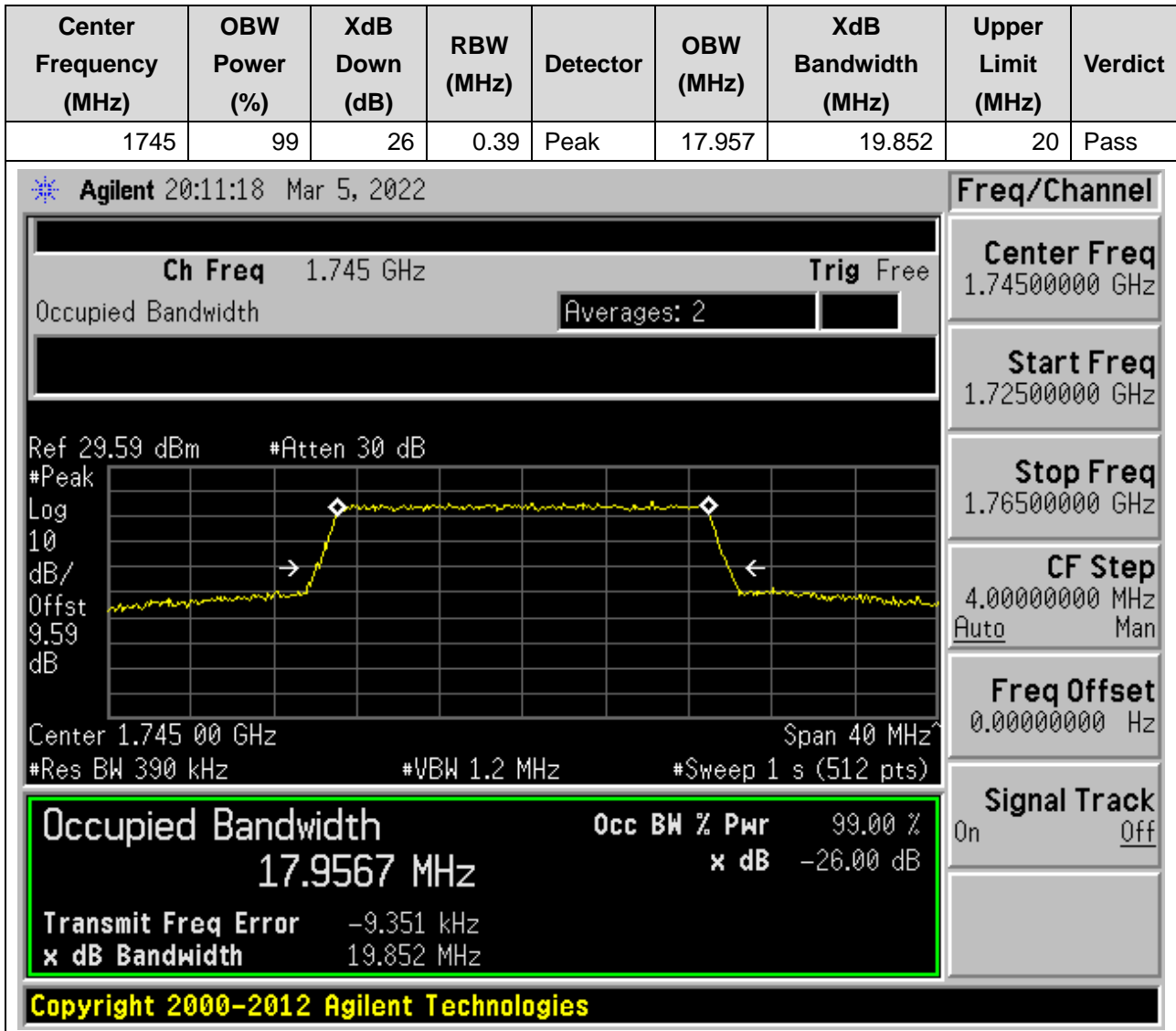
**Stop Freq**  
1.76500000 GHz

**CF Step**  
4.00000000 MHz  
Auto Man

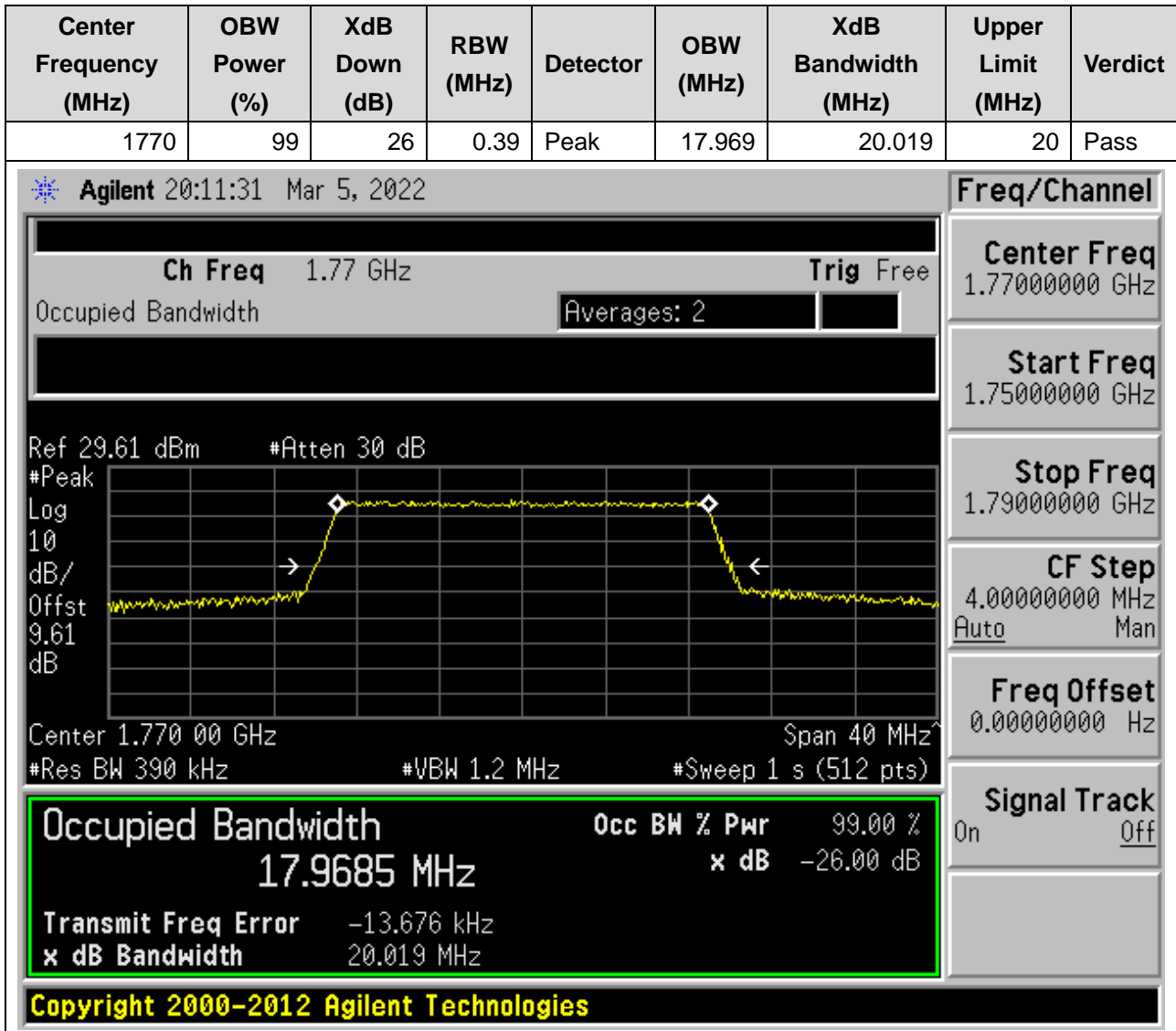
**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

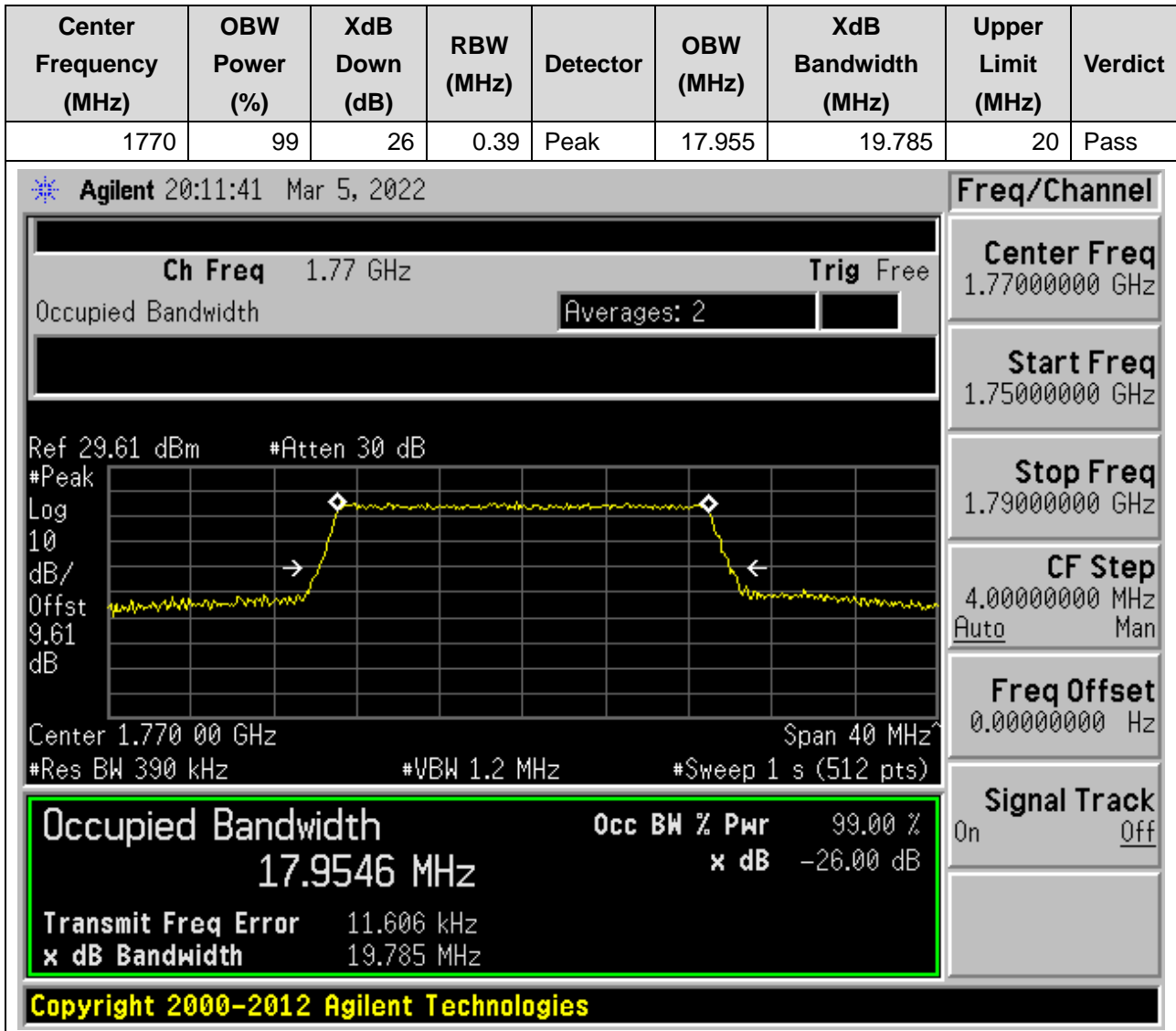
**19.34. LTE Occupied Bandwidth(NTNV)(Subtest:34, Channel:132322, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



**19.35. LTE Occupied Bandwidth(NTNV)(Subtest:35, Channel:132572, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



**19.36. LTE Occupied Bandwidth(NTNV)(Subtest:36, Channel:132572, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**





END