

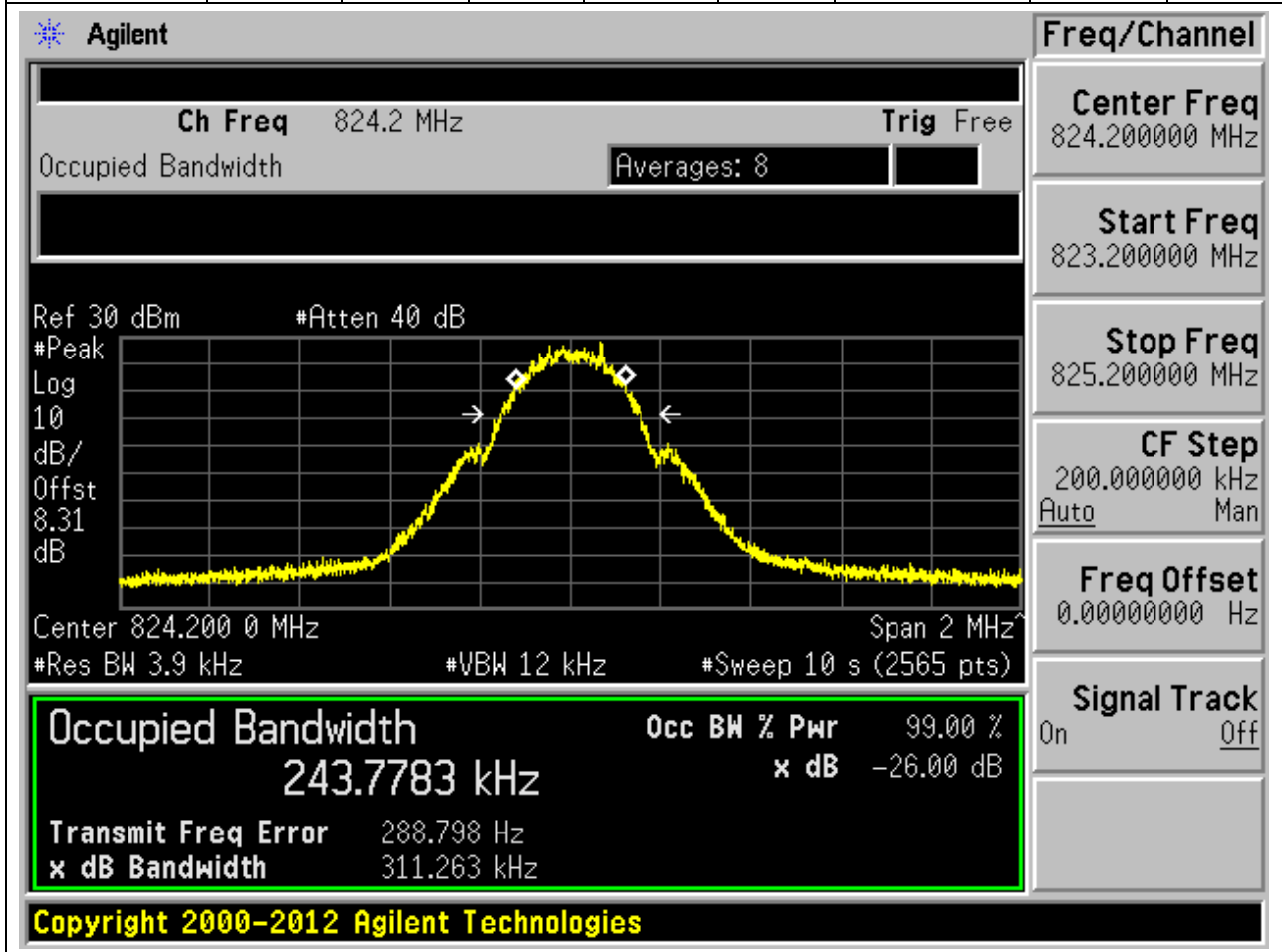
## Annex A.3 Occupied Bandwidth

# GSM

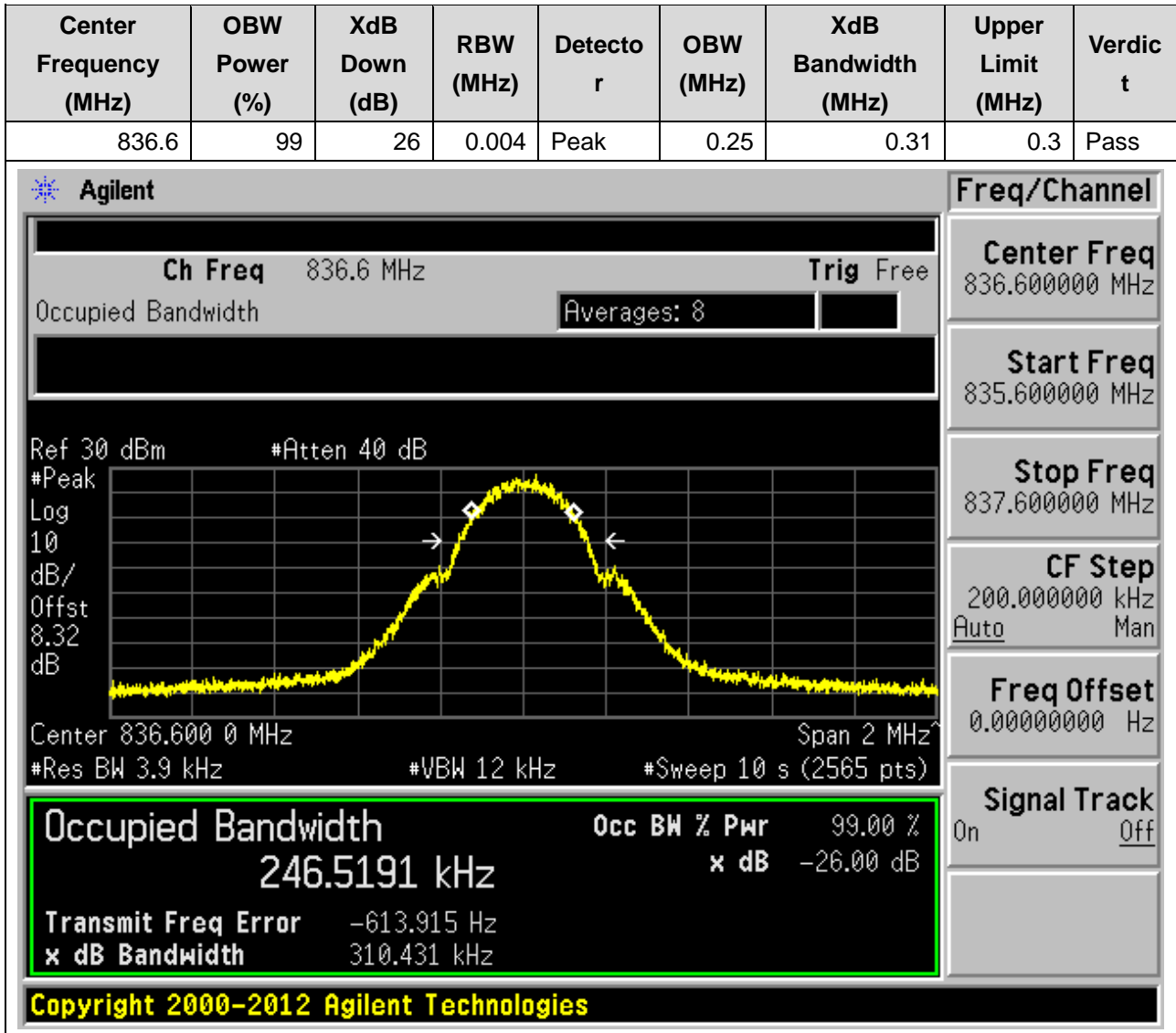
## 1. GSM\_GSM850

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

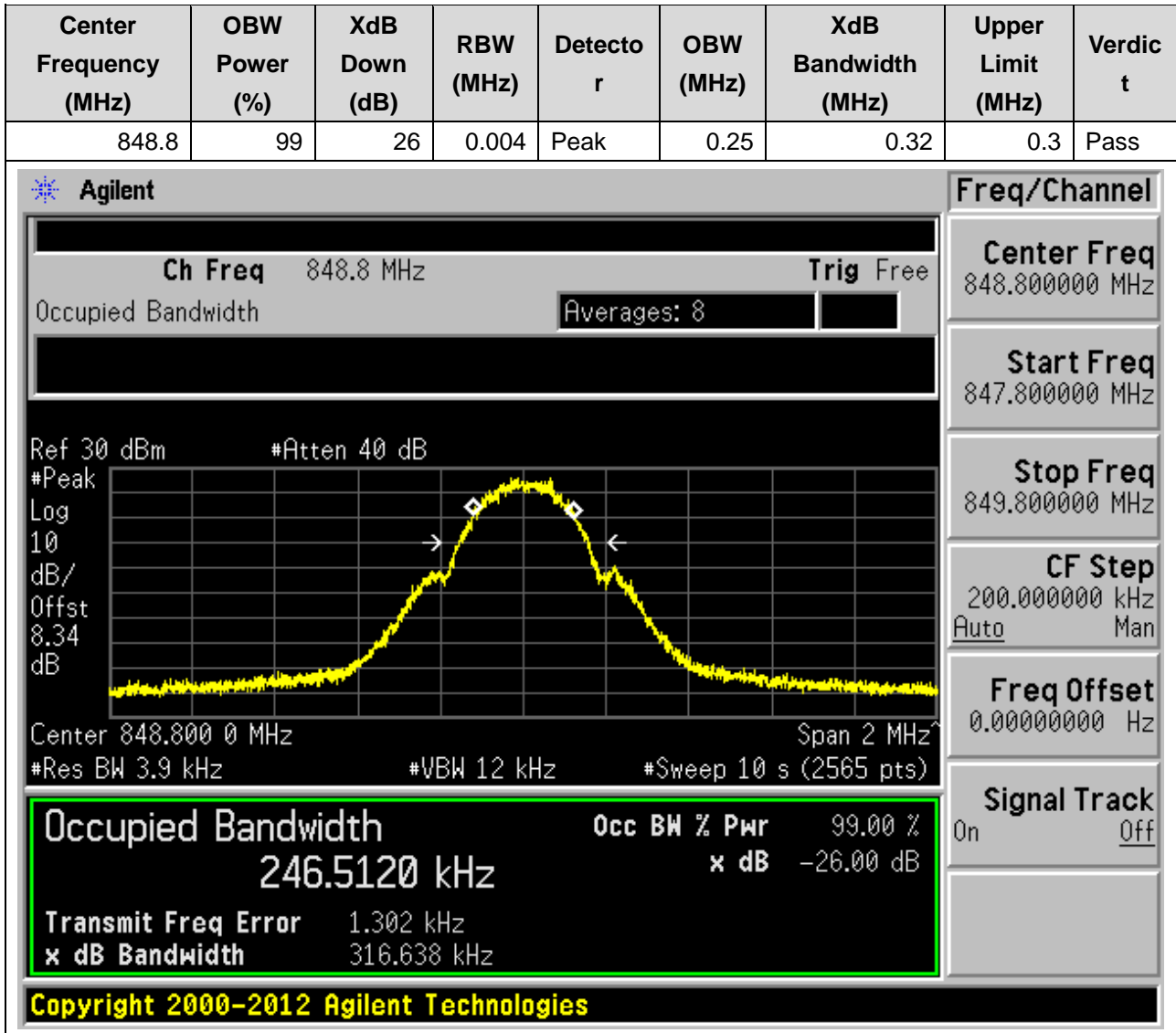
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
824.2	99	26	0.004	Peak	0.24	0.31	0.3	Pass



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

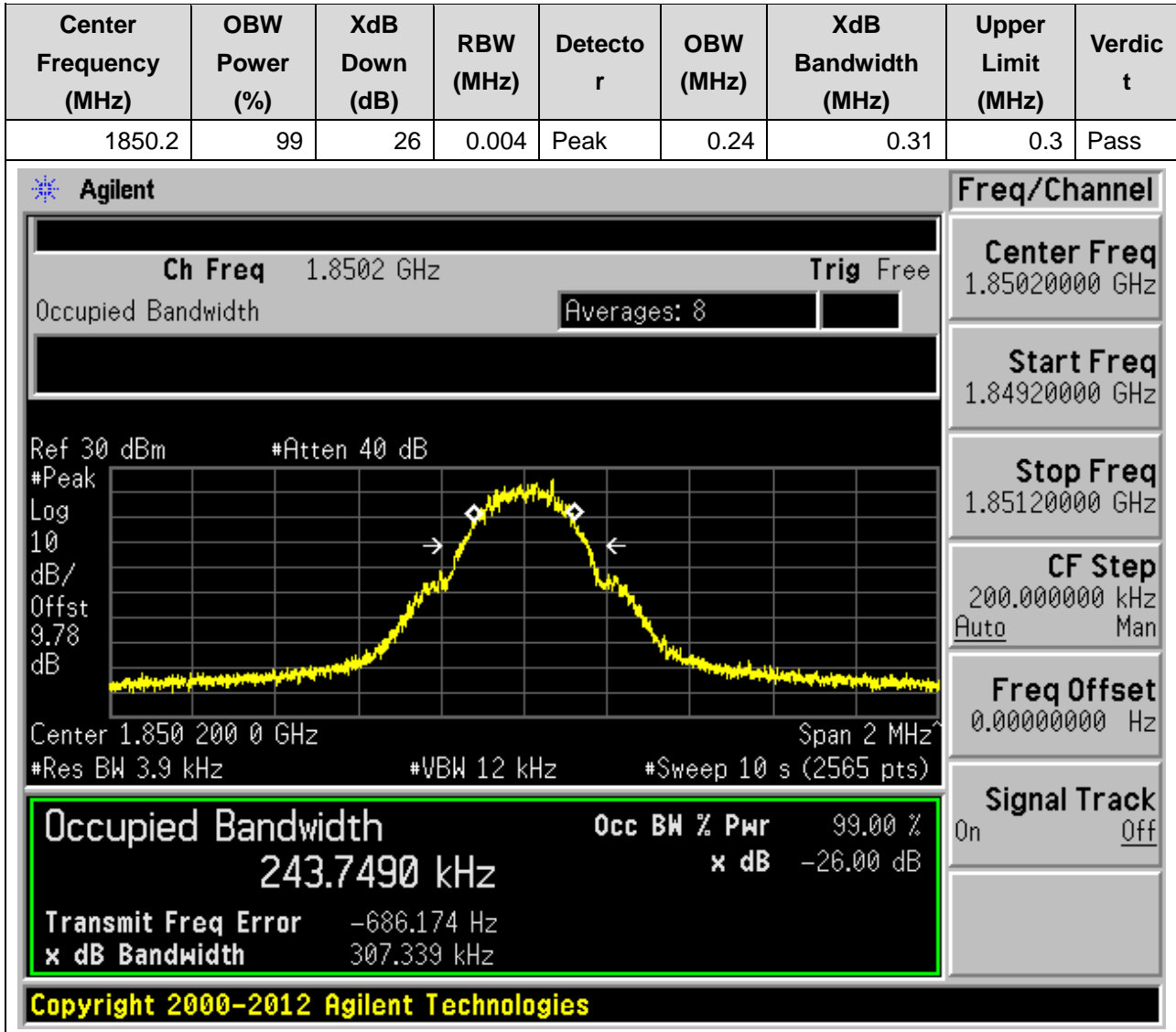


### 1.3. GSM Occupied Bandwidth(NTNV)(Channel:251)

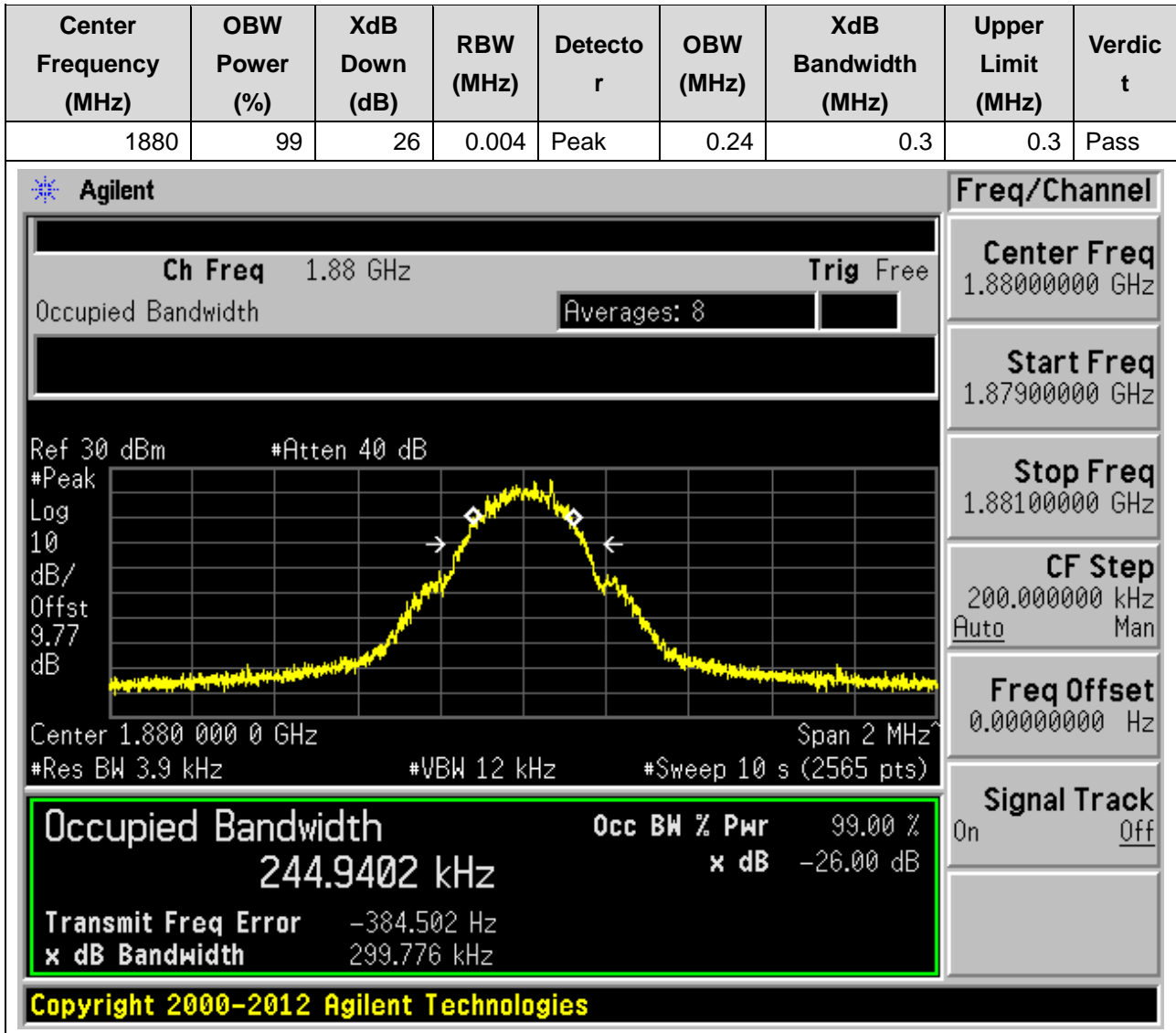


## 2. GSM\_PCS

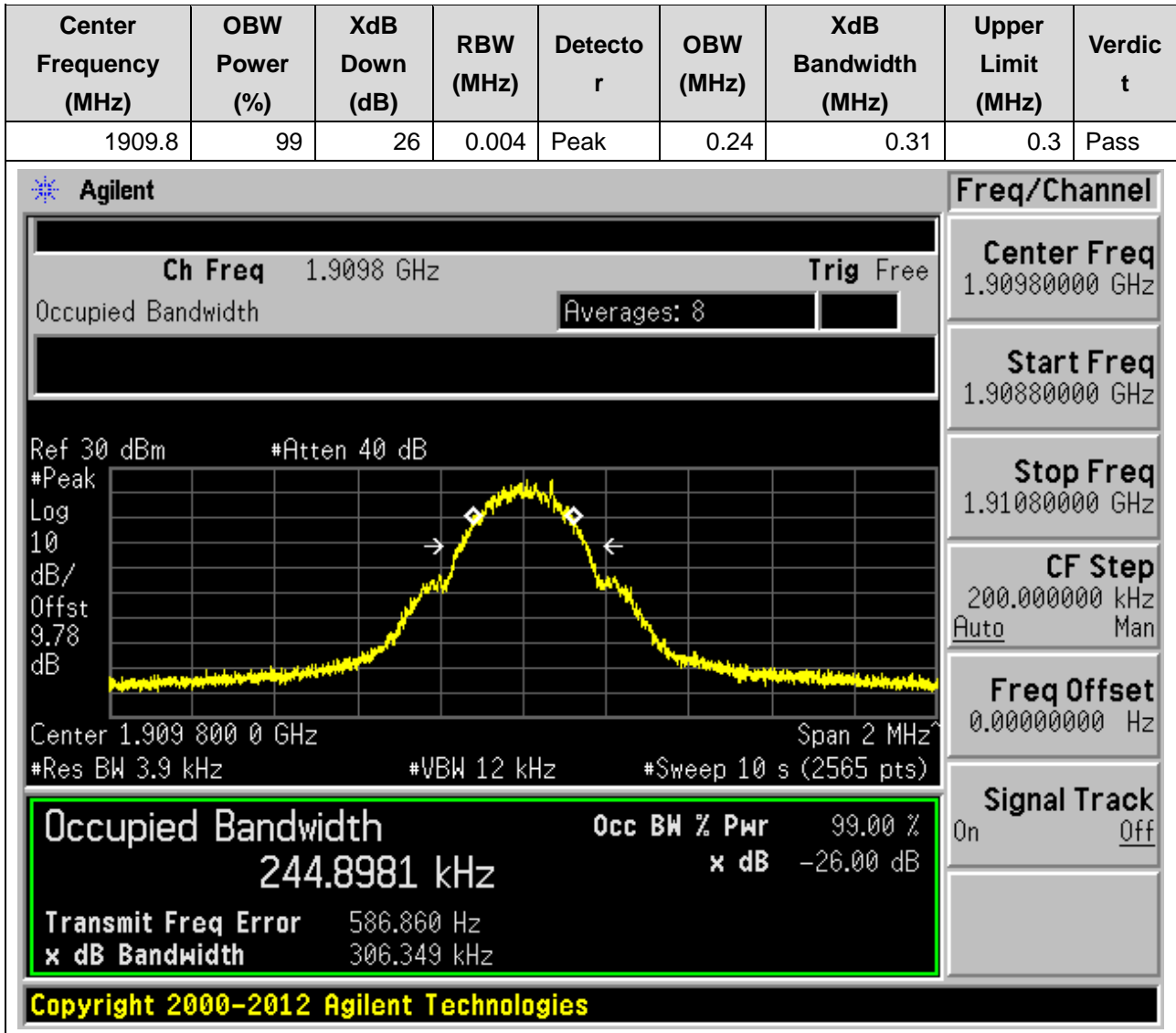
### 2.1. GSM Occupied Bandwidth(NTNV)(Channel:512)



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



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

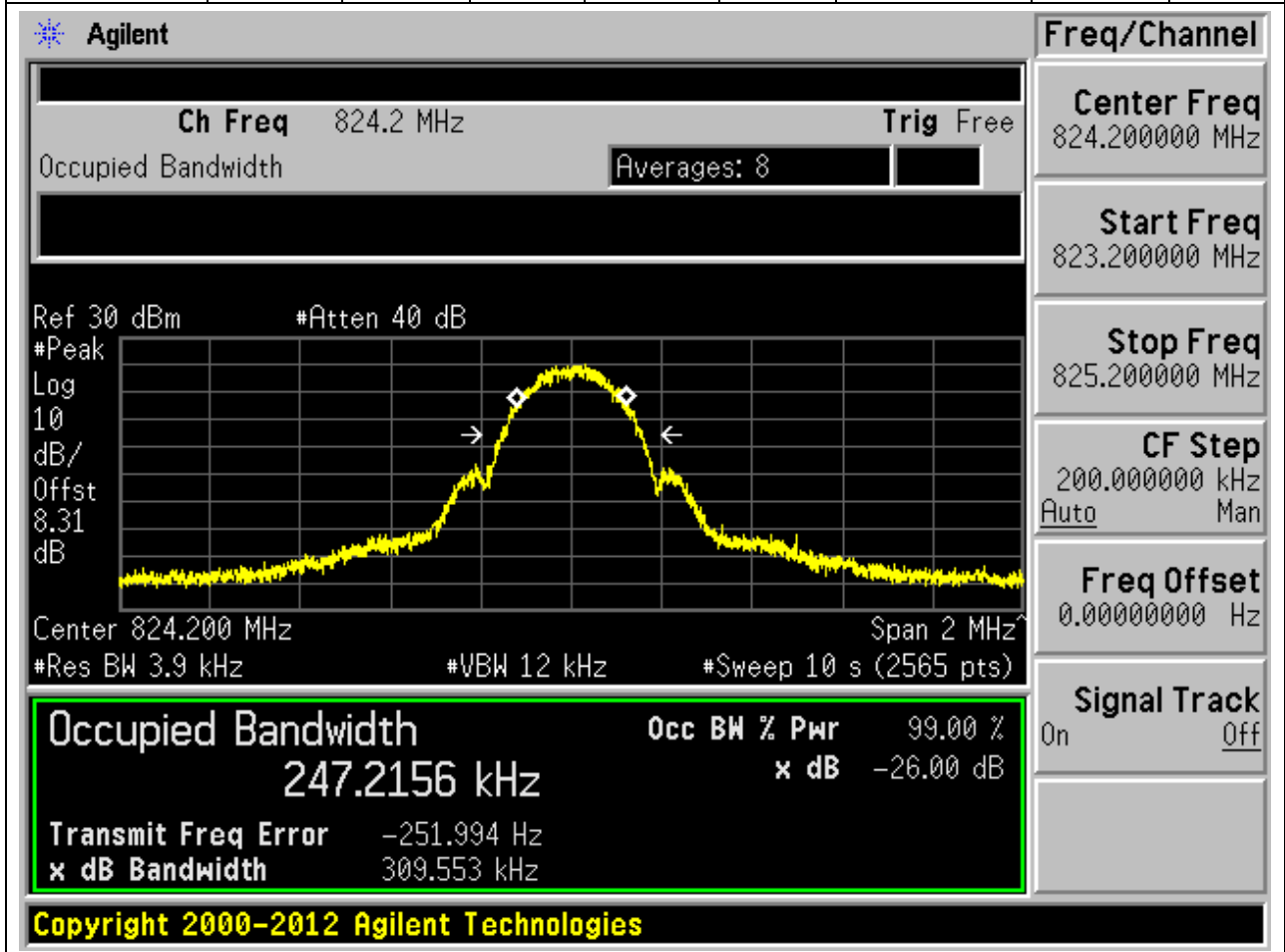


## EGPRS

### 3. EGPRS\_GSM850

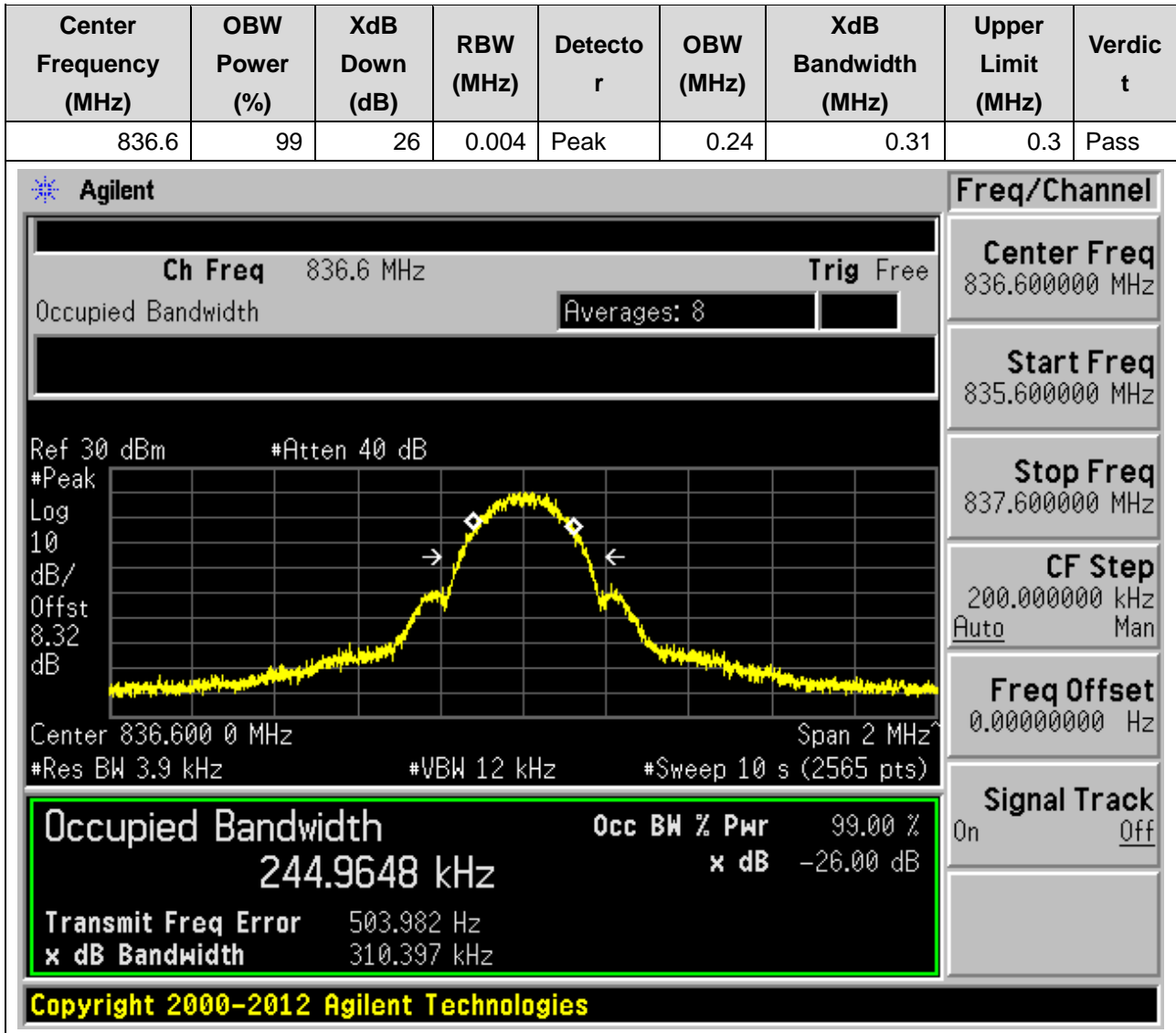
#### 3.1. EGPRS Occupied Bandwidth(NTNV)(Channel:128)

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	0.25	0.31	0.3	Pass

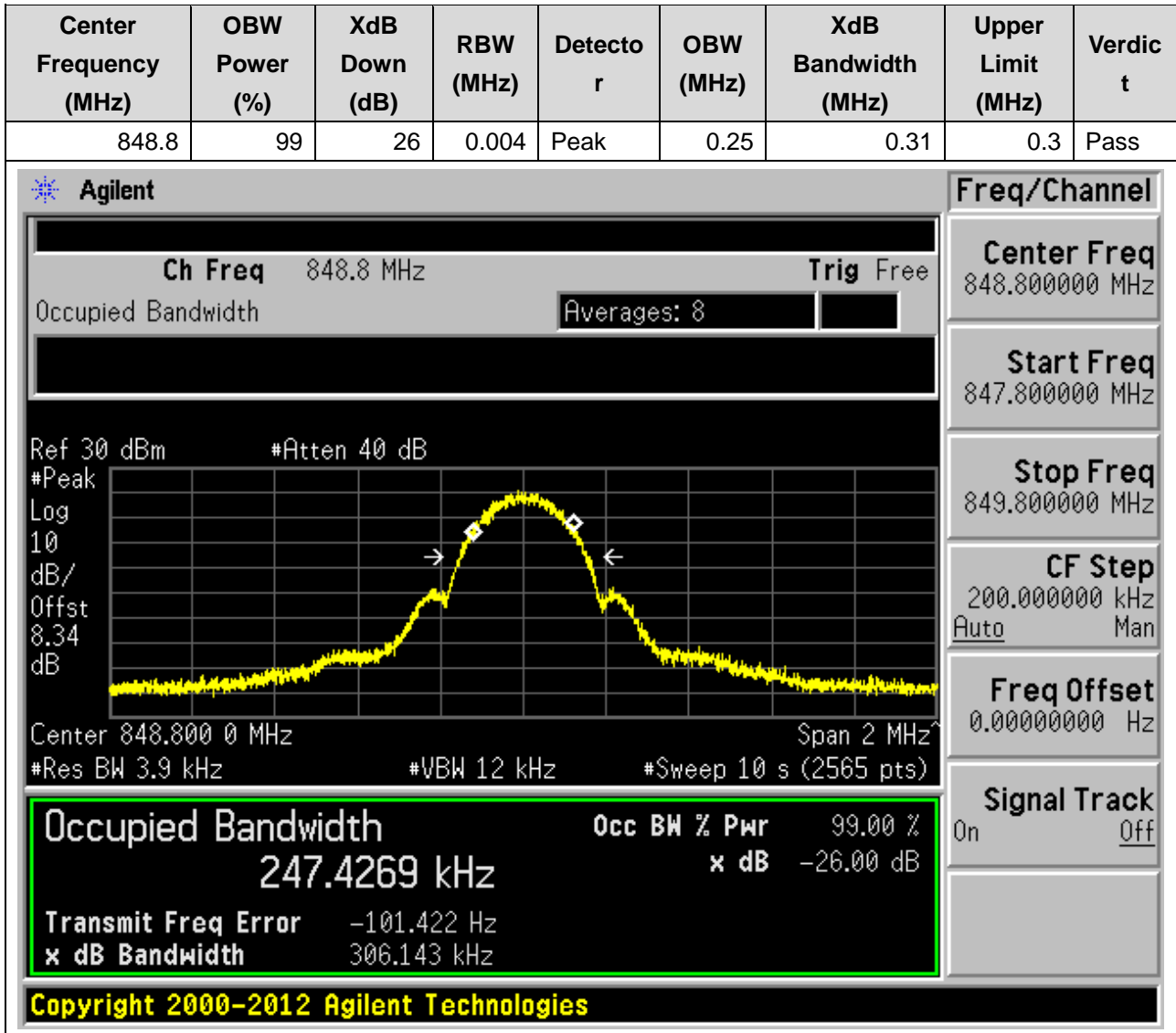




### 3.2. EGPRS Occupied Bandwidth(NTNV)(Channel:190)

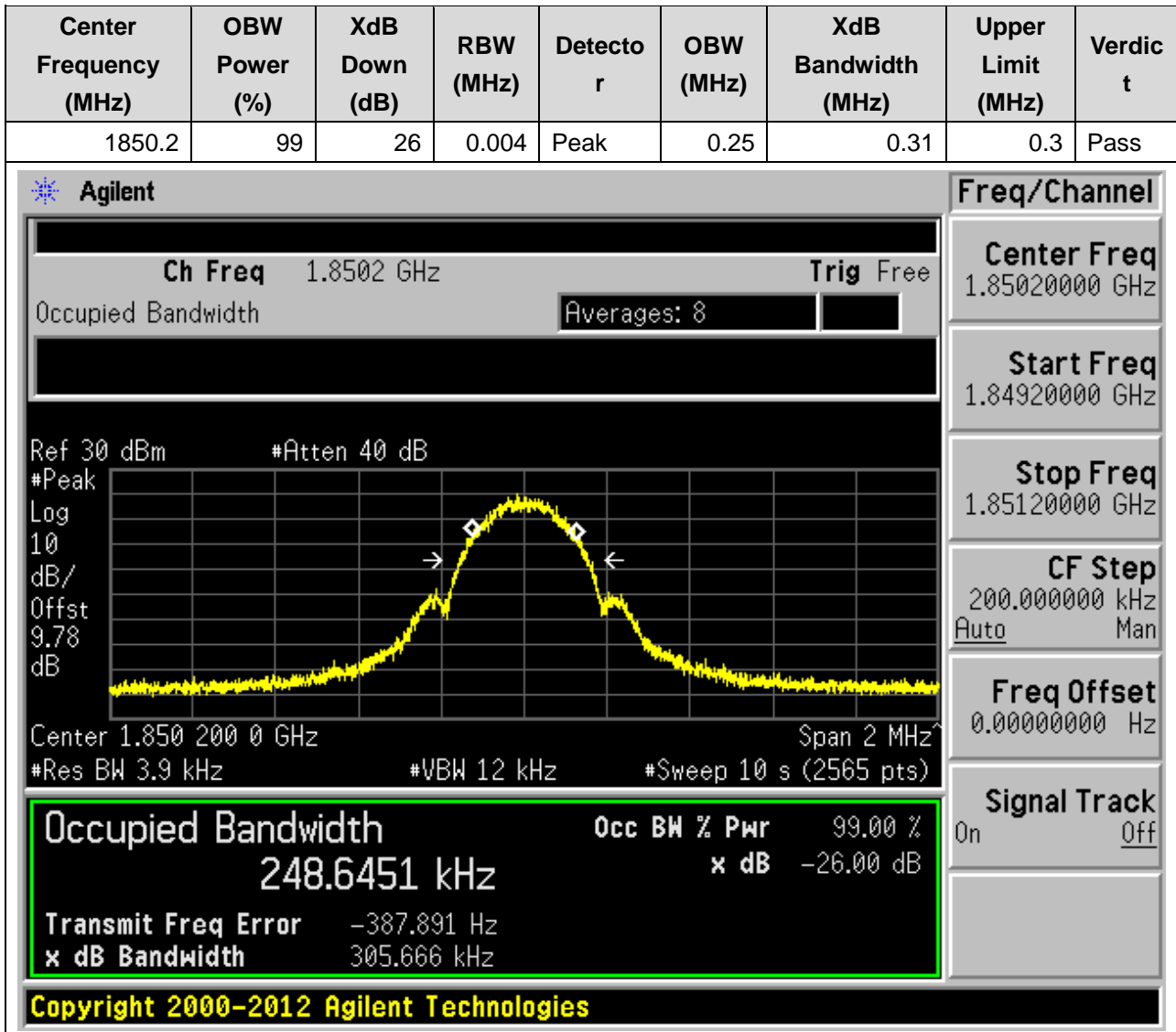


### 3.3. EGPRS Occupied Bandwidth(NTNV)(Channel:251)

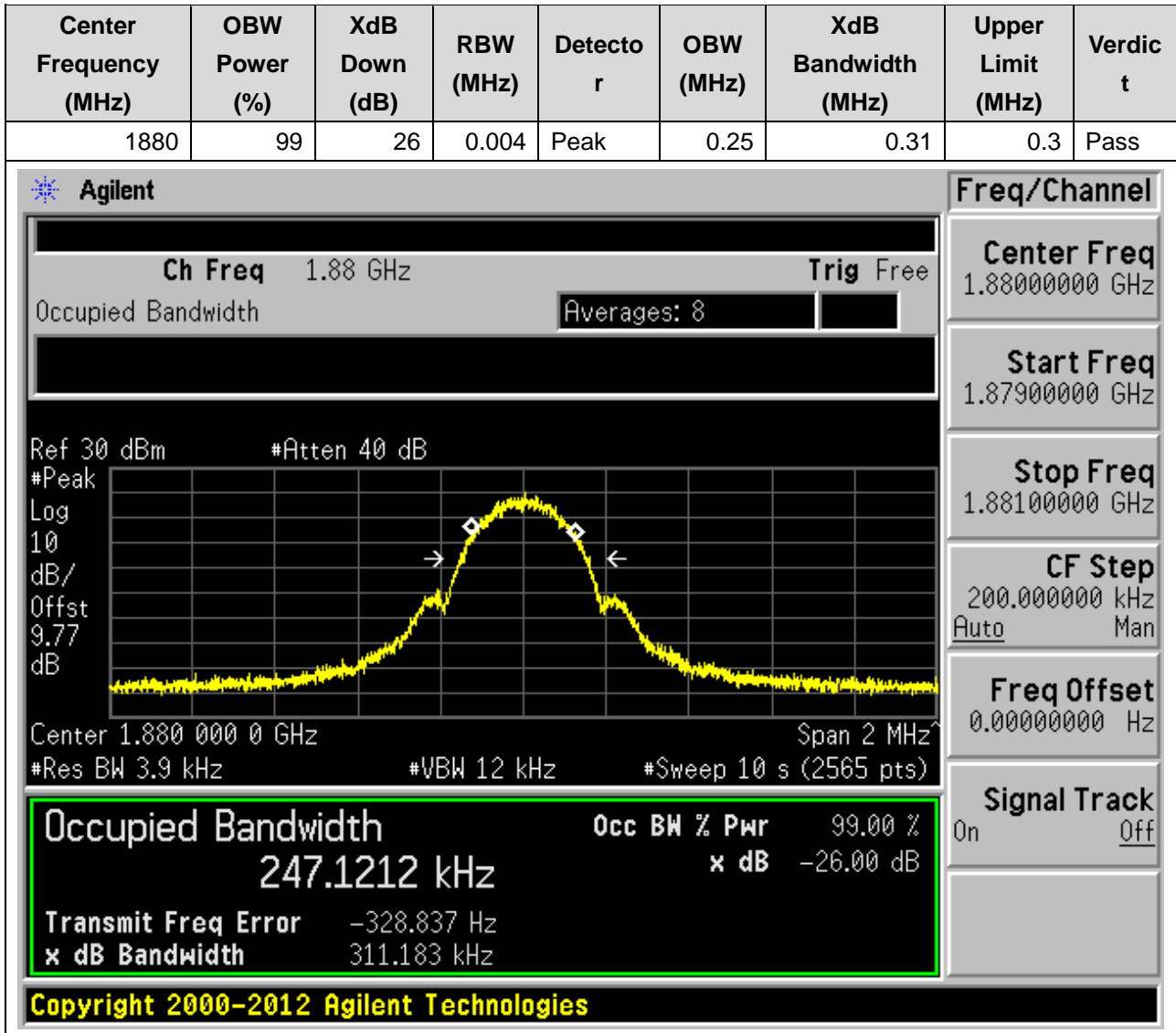


## 4. EGPRS\_PCS

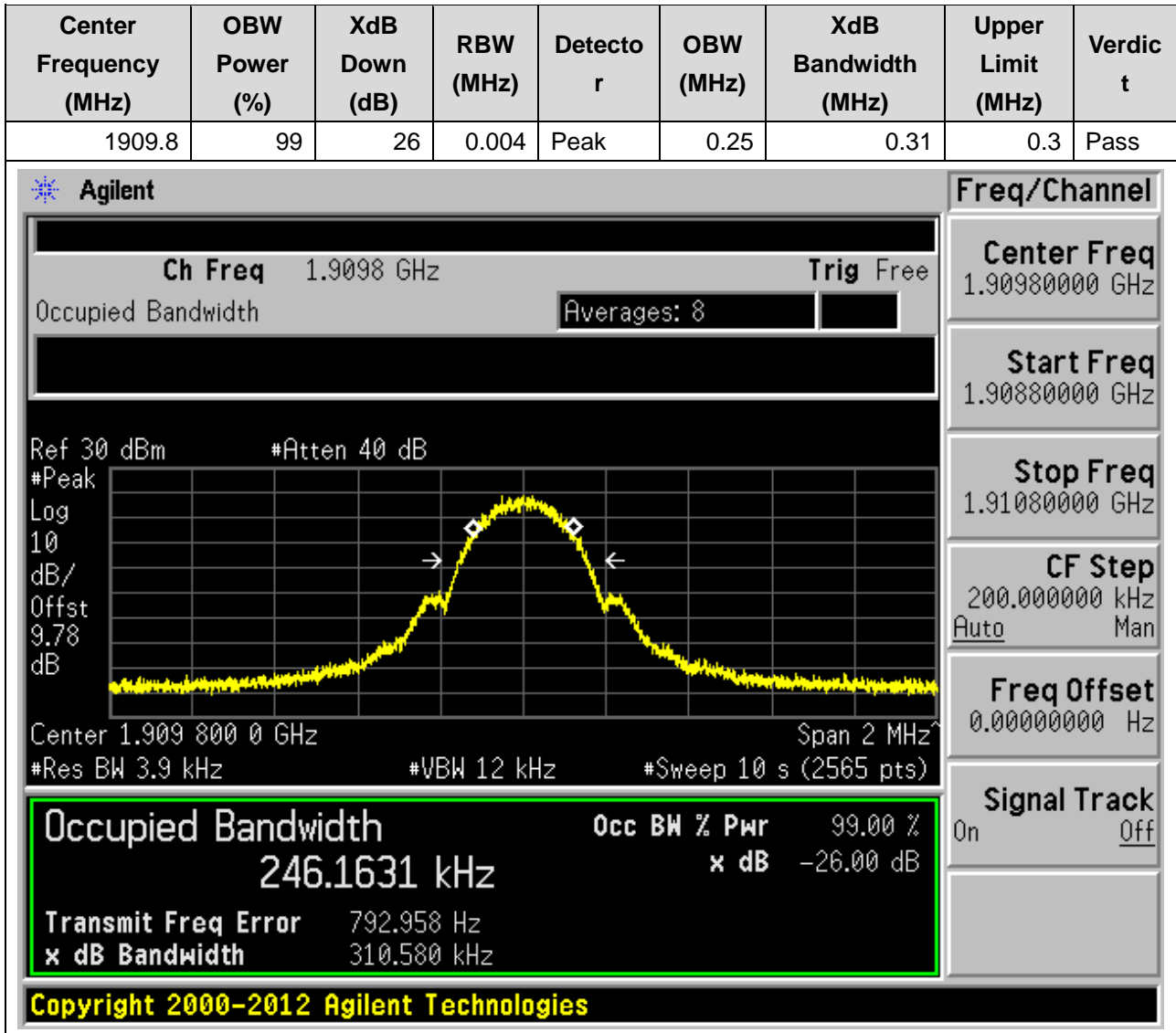
### 4.1. EGPRS Occupied Bandwidth(NTNV)(Channel:512)



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



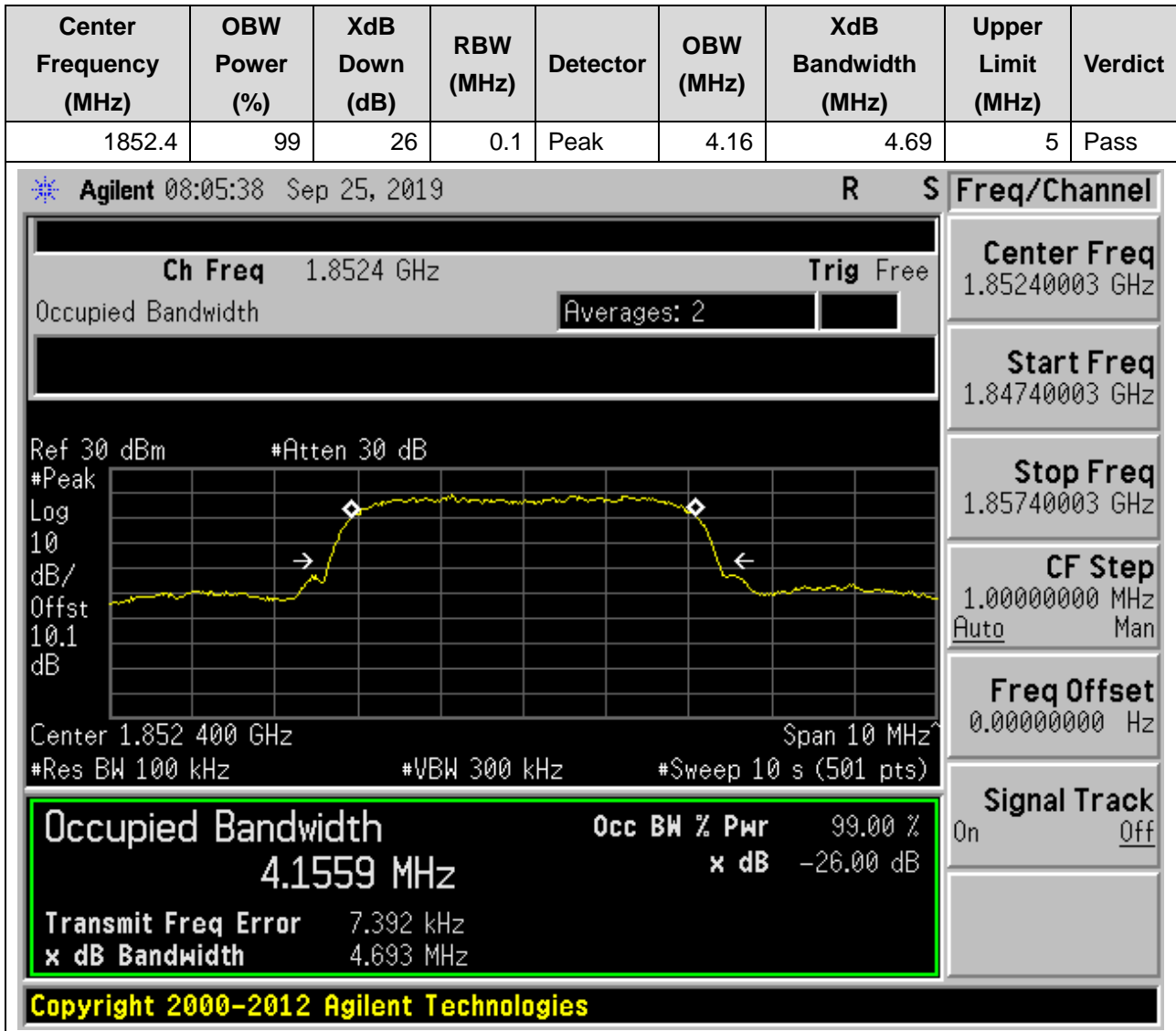
### 4.3. EGPRS Occupied Bandwidth(NTNV)(Channel:810)



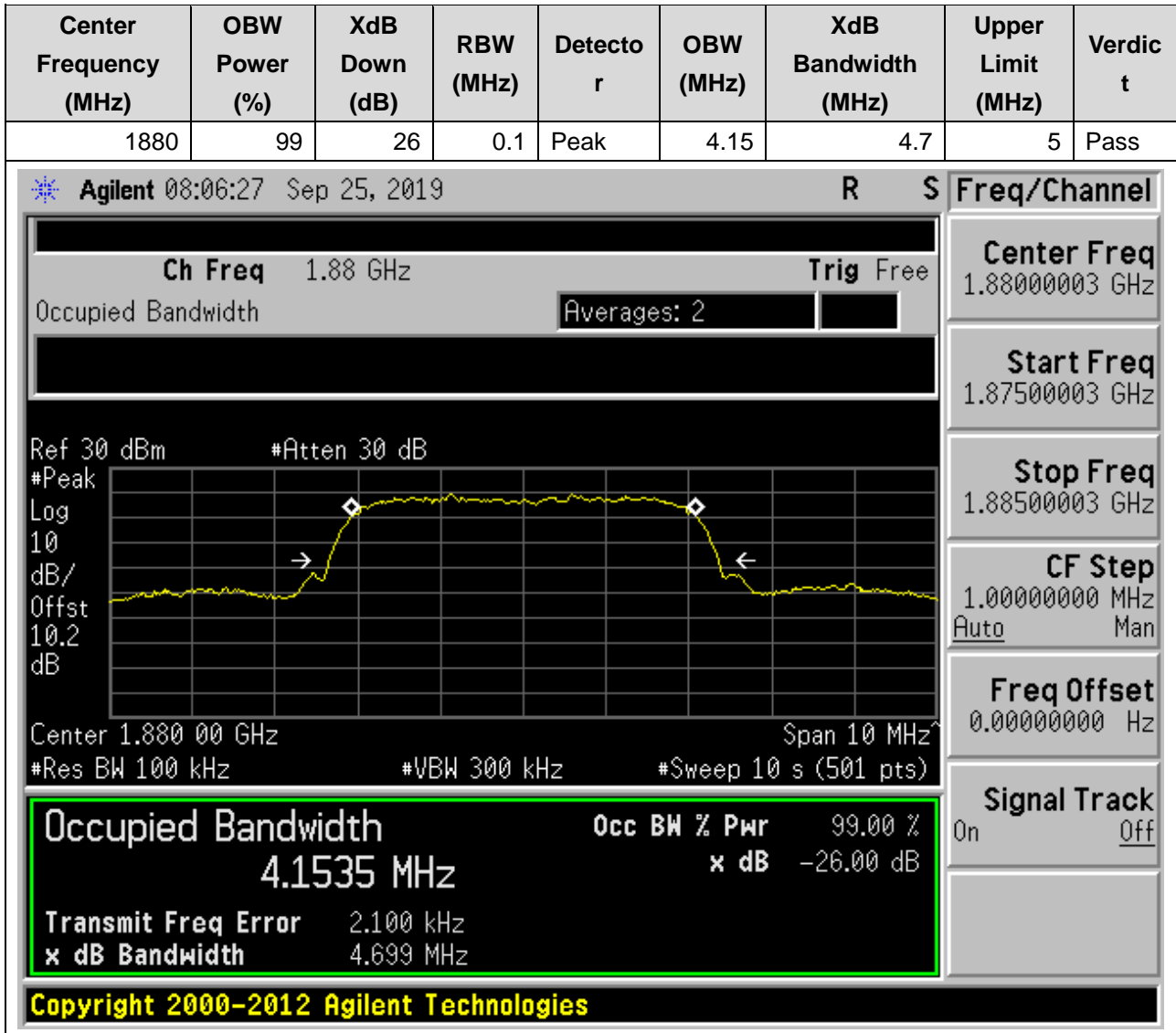
## WCDMA

### 5. WCDMA\_Band2

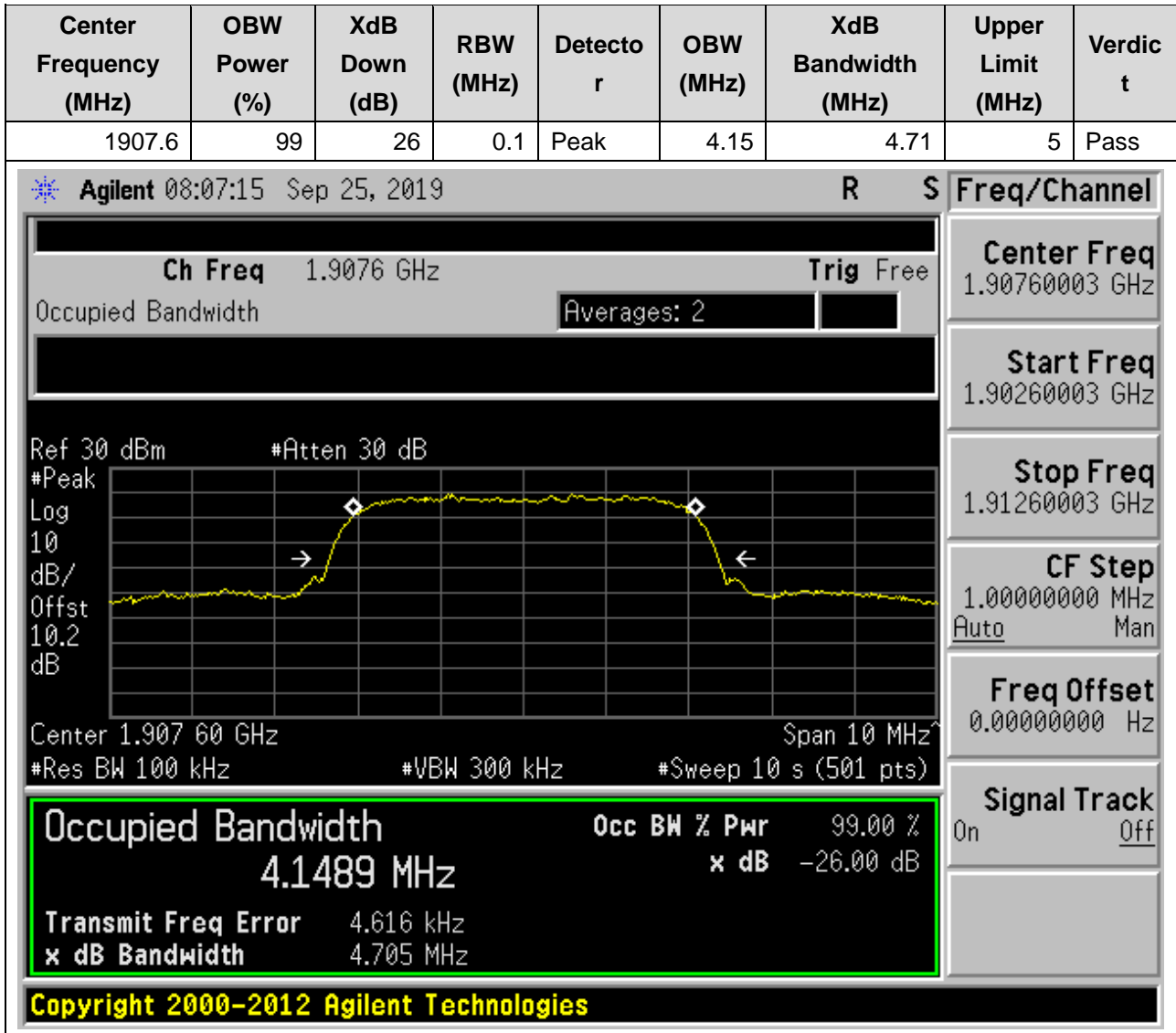
#### 5.1. WCDMA Occupied Bandwidth(NTNV)(Channel:9262)



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



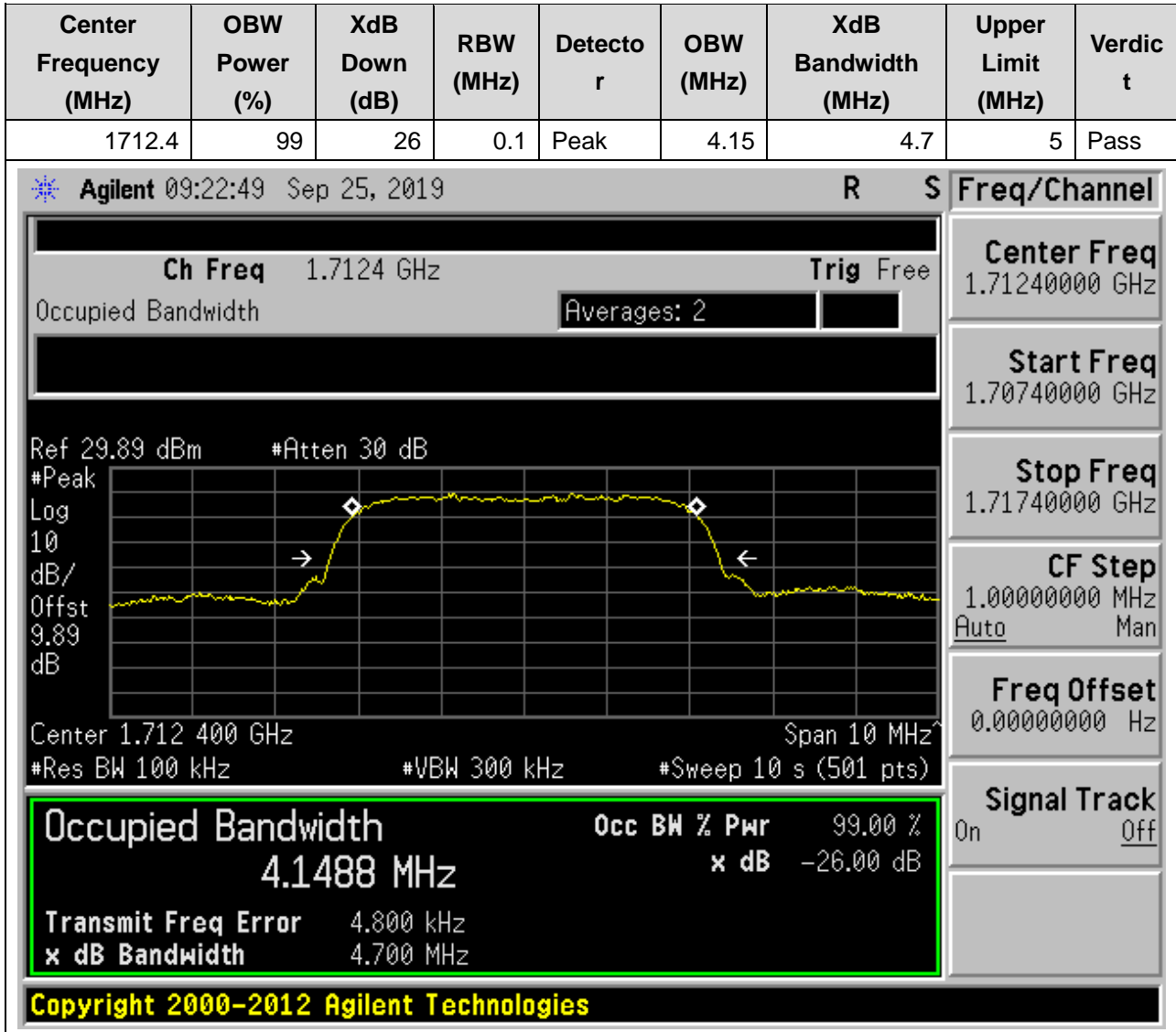
### 5.3. WCDMA Occupied Bandwidth(NTNV)(Channel:9538)



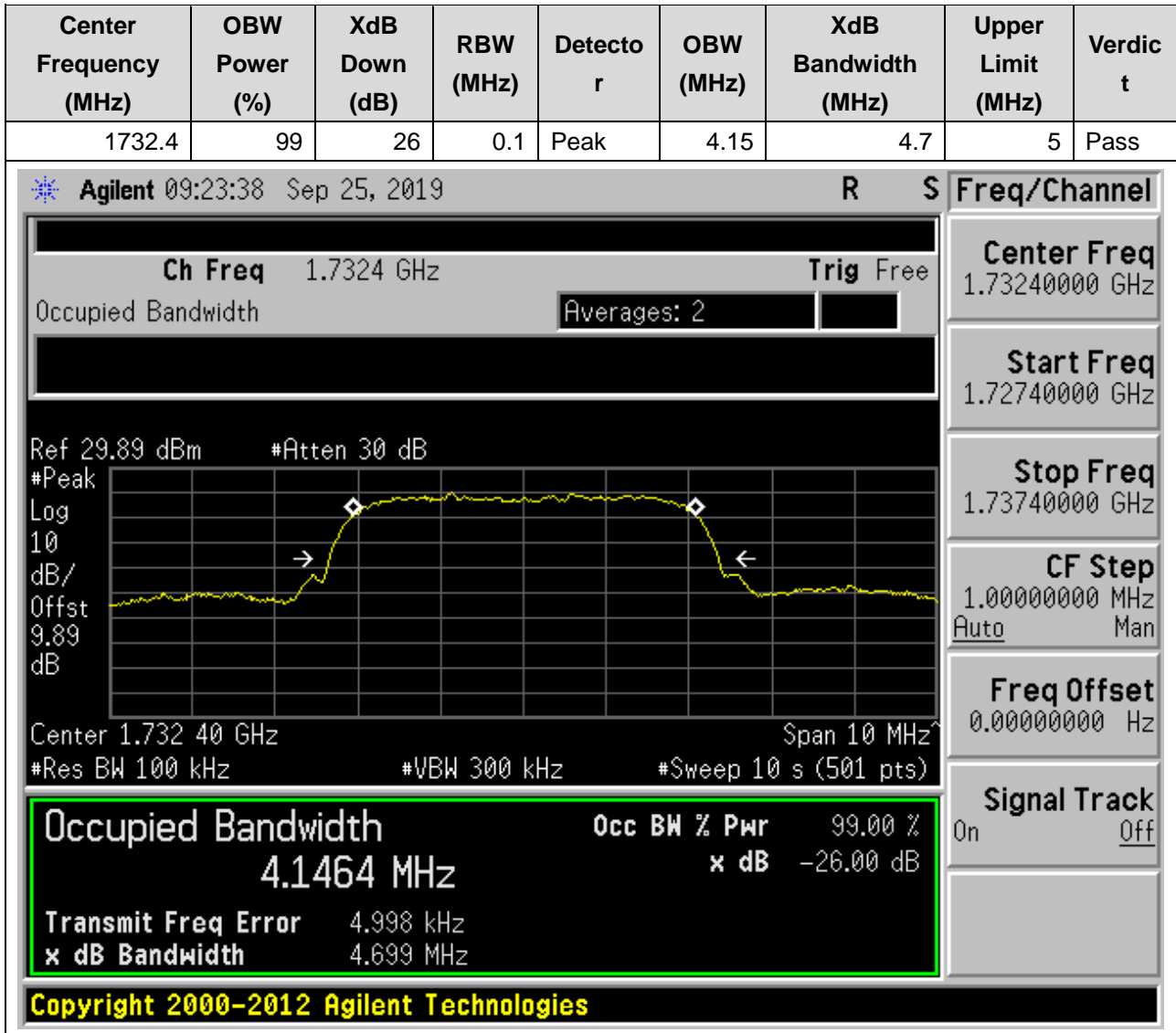


## 6. WCDMA\_Band4

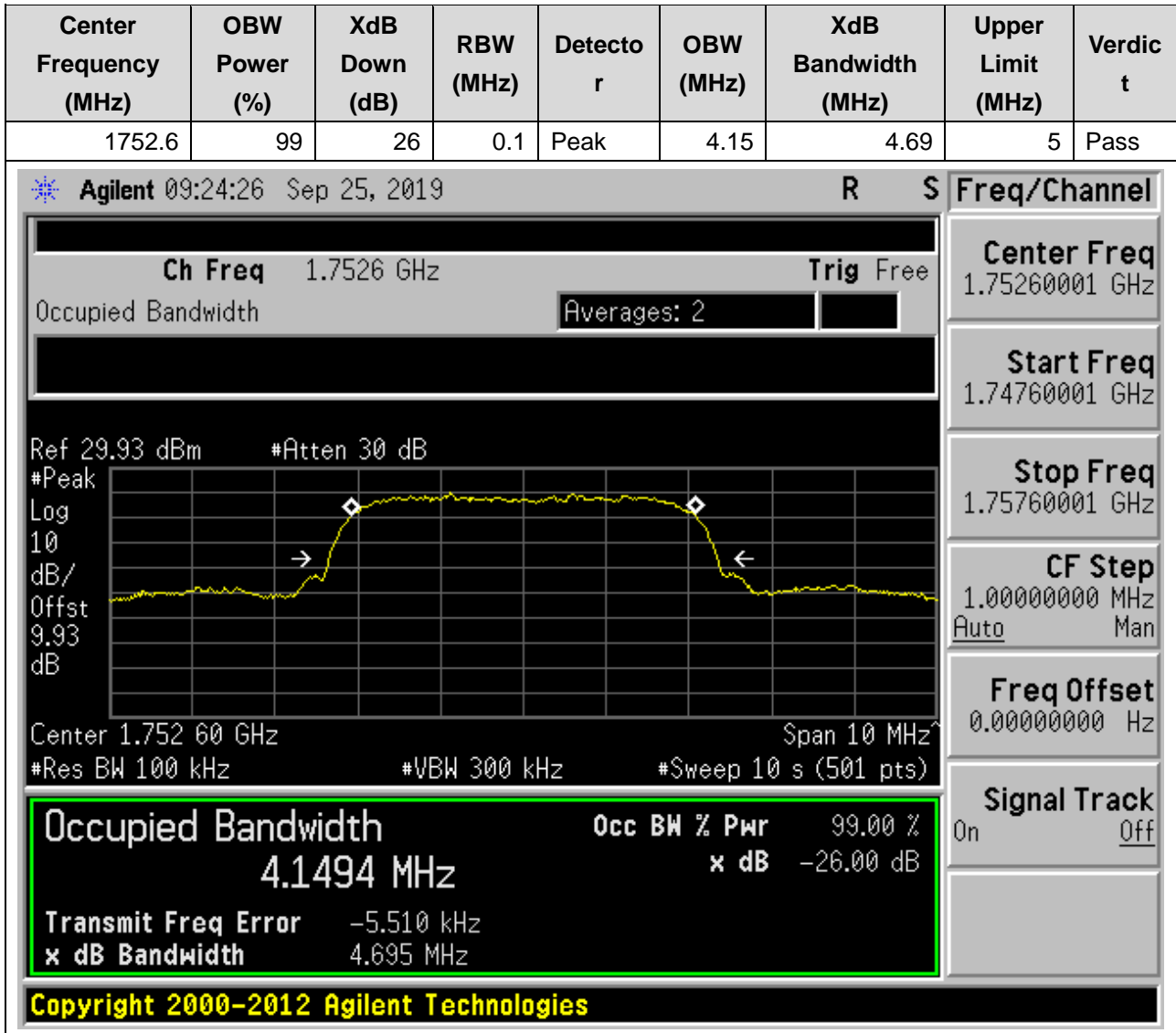
### 6.1. WCDMA Occupied Bandwidth(NTNV)(Channel:1312)



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

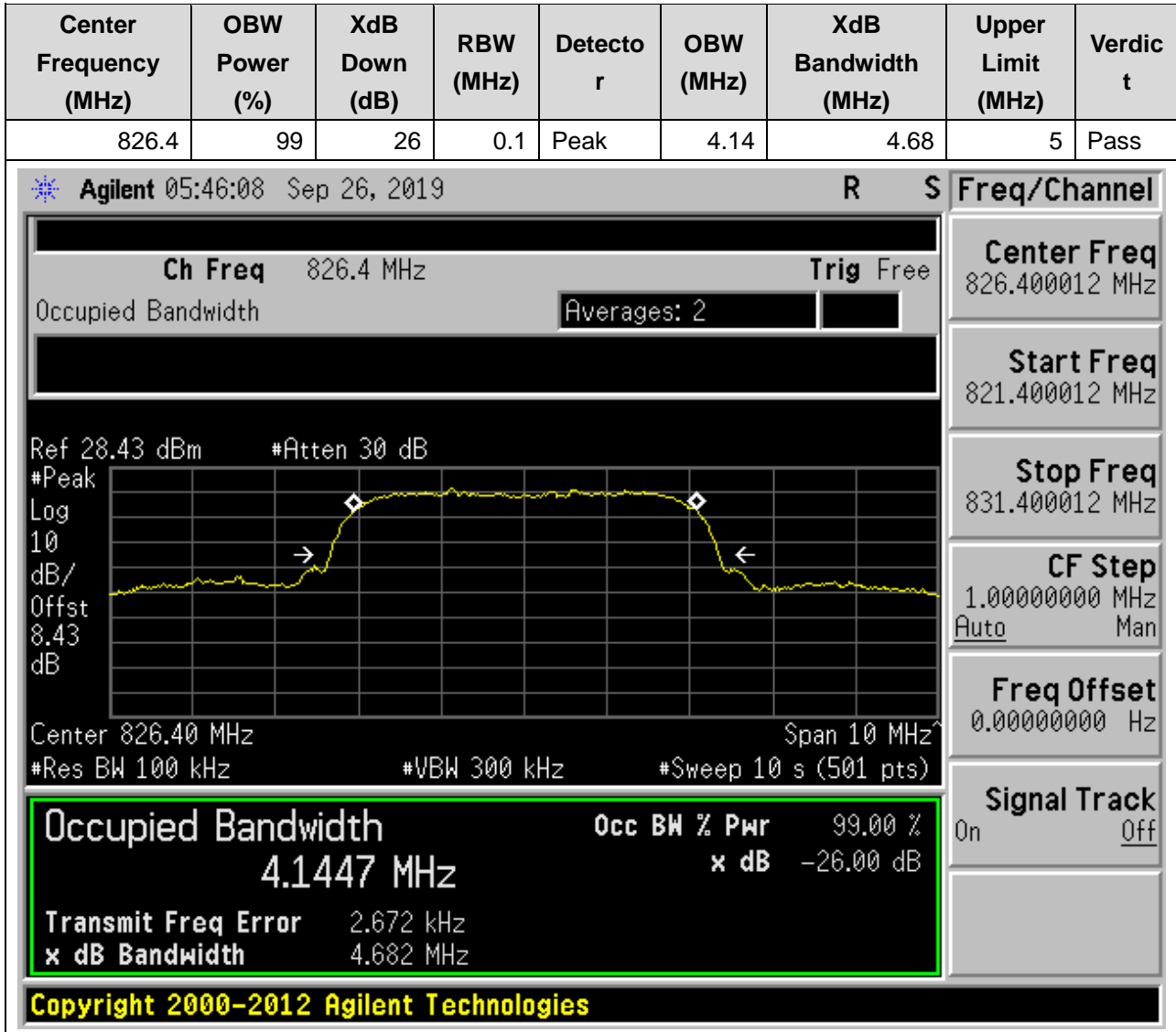


### 6.3. WCDMA Occupied Bandwidth(NTNV)(Channel:1513)

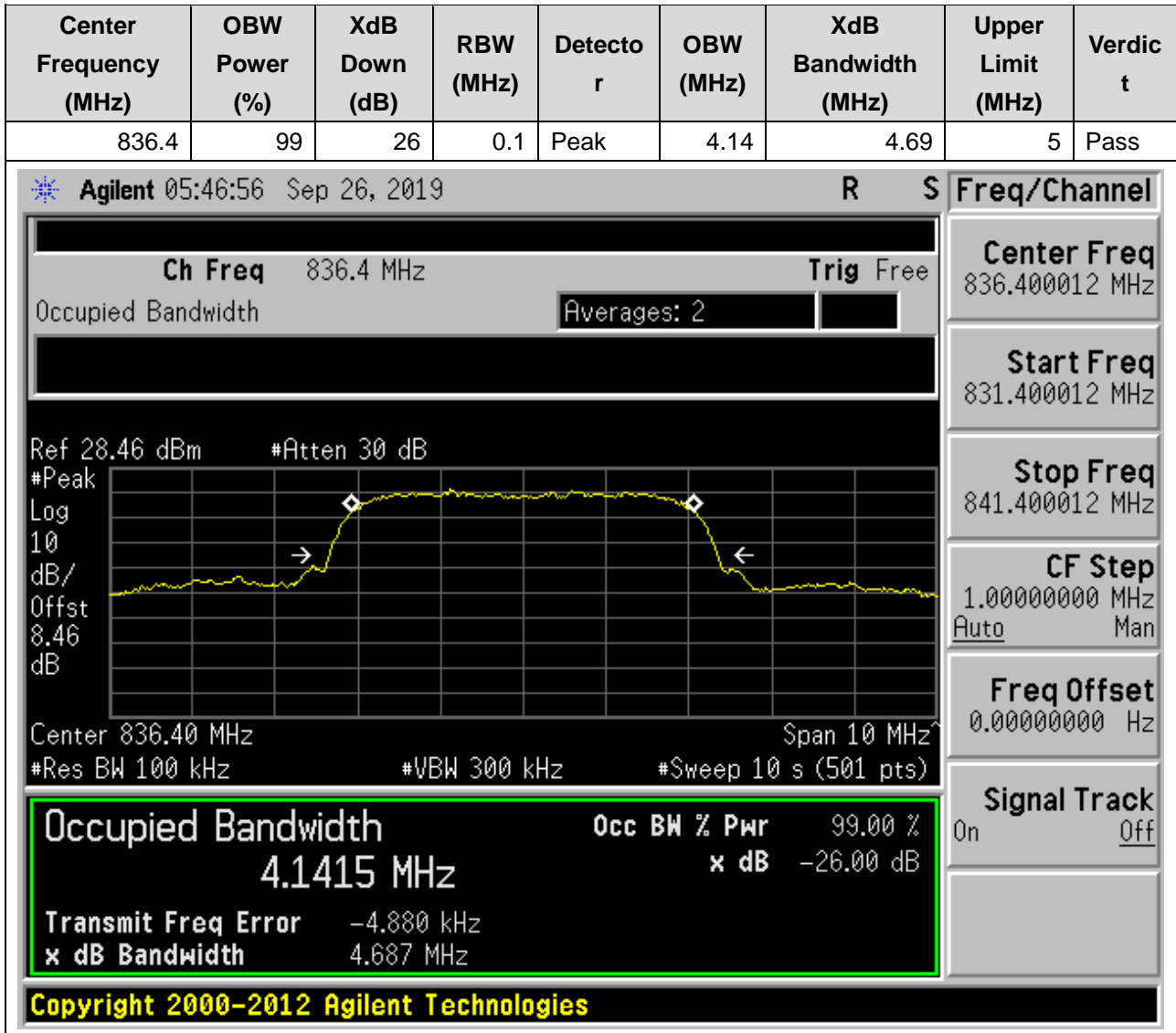


## 7. WCDMA\_Band5

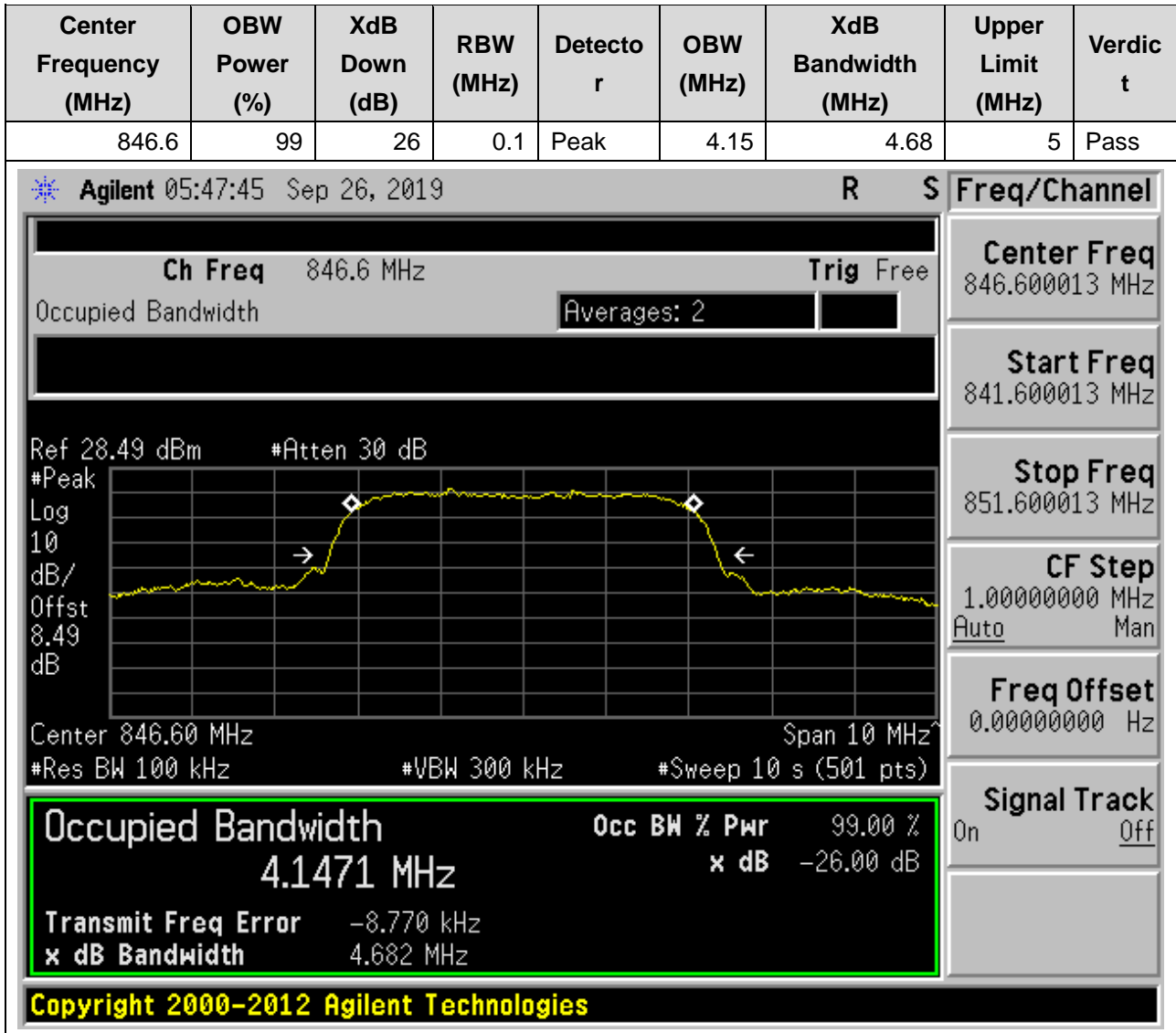
### 7.1. WCDMA Occupied Bandwidth(NTNV)(Channel:4132)



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



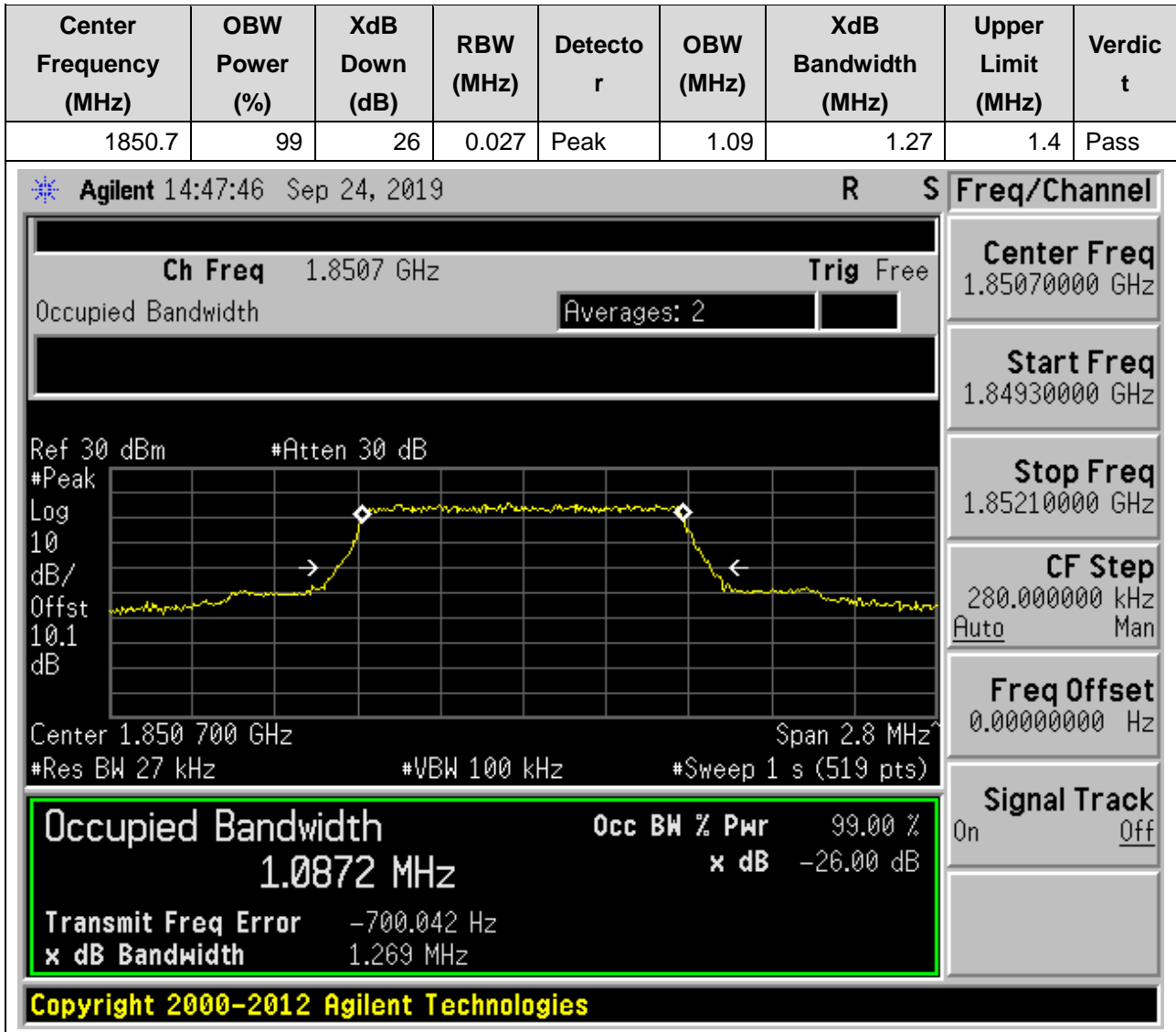
### 7.3. WCDMA Occupied Bandwidth(NTNV)(Channel:4233)



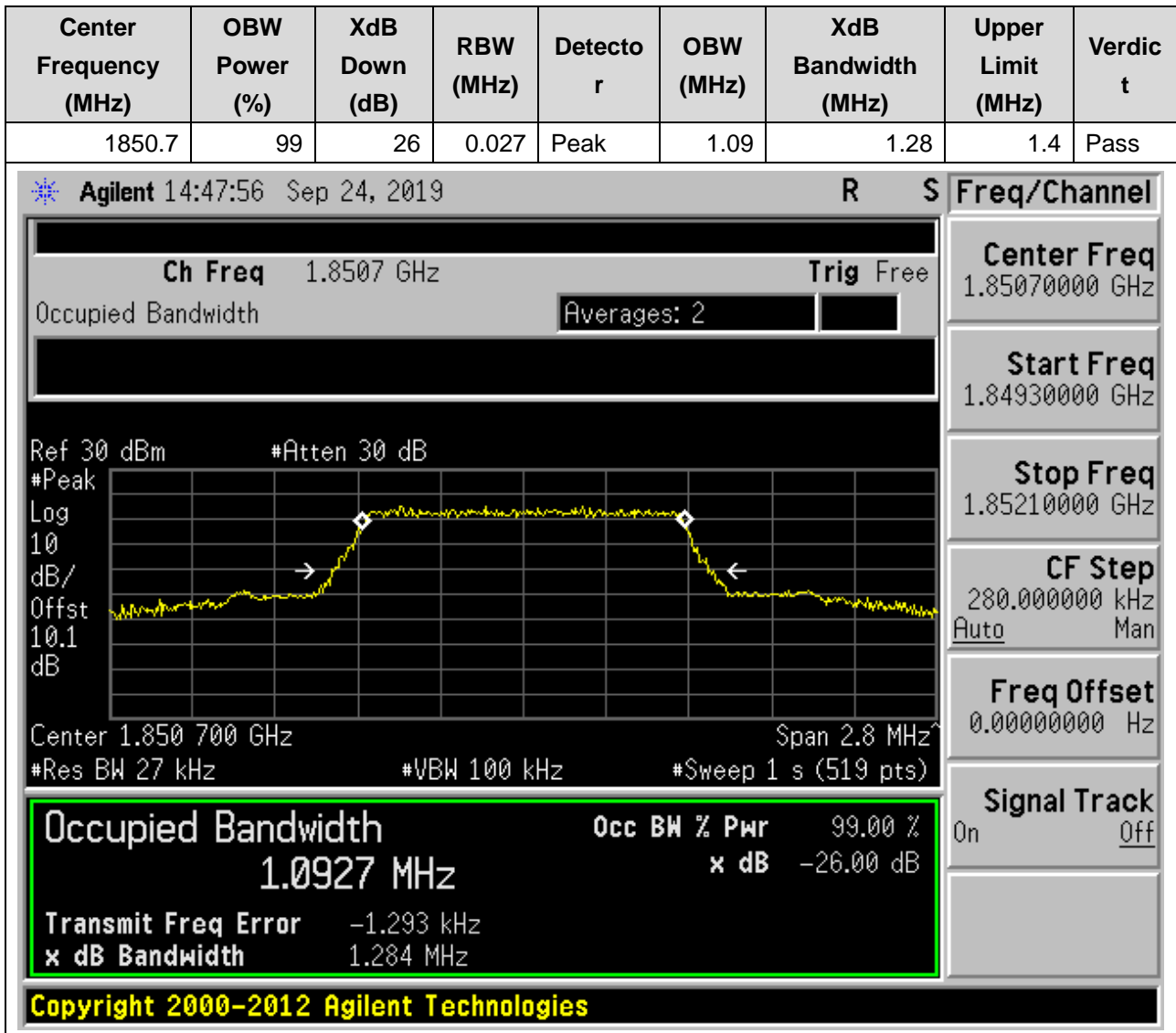
# LTE

## 8. LTE\_Band2

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

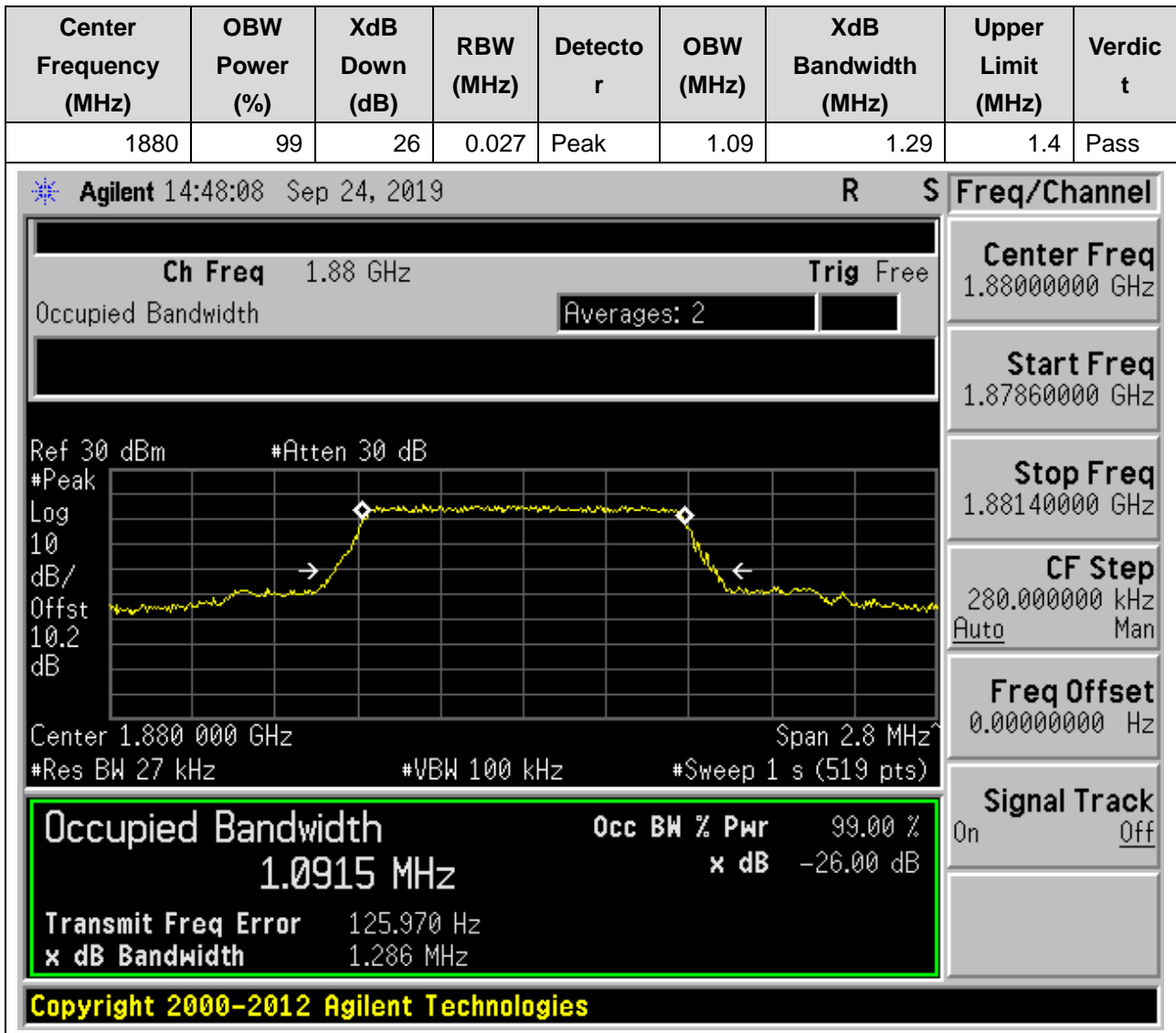


**8.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:18607, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**





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



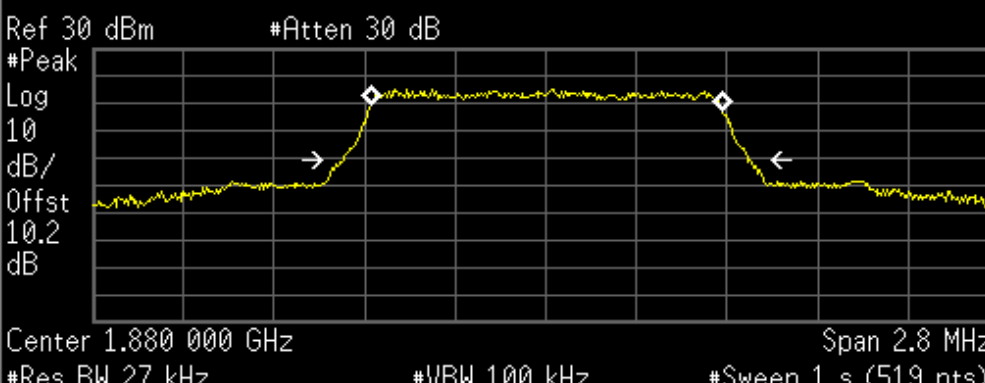
**8.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:18900, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

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	1.09	1.27	1.4	Pass

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**Ch Freq** 1.88 GHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.2 dB

Center 1.880 000 GHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (519 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>1.0859 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-212.889 Hz	
<b>x dB Bandwidth</b>	1.266 MHz	

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**Freq/Channel**

**Center Freq**  
1.88000000 GHz

**Start Freq**  
1.87860000 GHz

**Stop Freq**  
1.88140000 GHz

**CF Step**  
280.000000 kHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

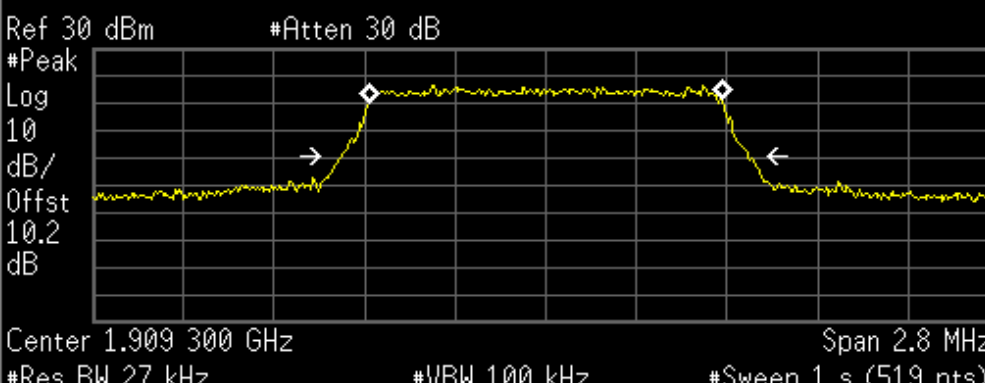
**8.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:19193, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

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	1.09	1.26	1.4	Pass

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

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.2 dB

Center 1.909 300 GHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (519 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>1.0937 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-813.568 Hz	
<b>x dB Bandwidth</b>	1.257 MHz	

**Freq/Channel**

**Center Freq** 1.90930000 GHz

**Start Freq** 1.90790000 GHz

**Stop Freq** 1.91070000 GHz

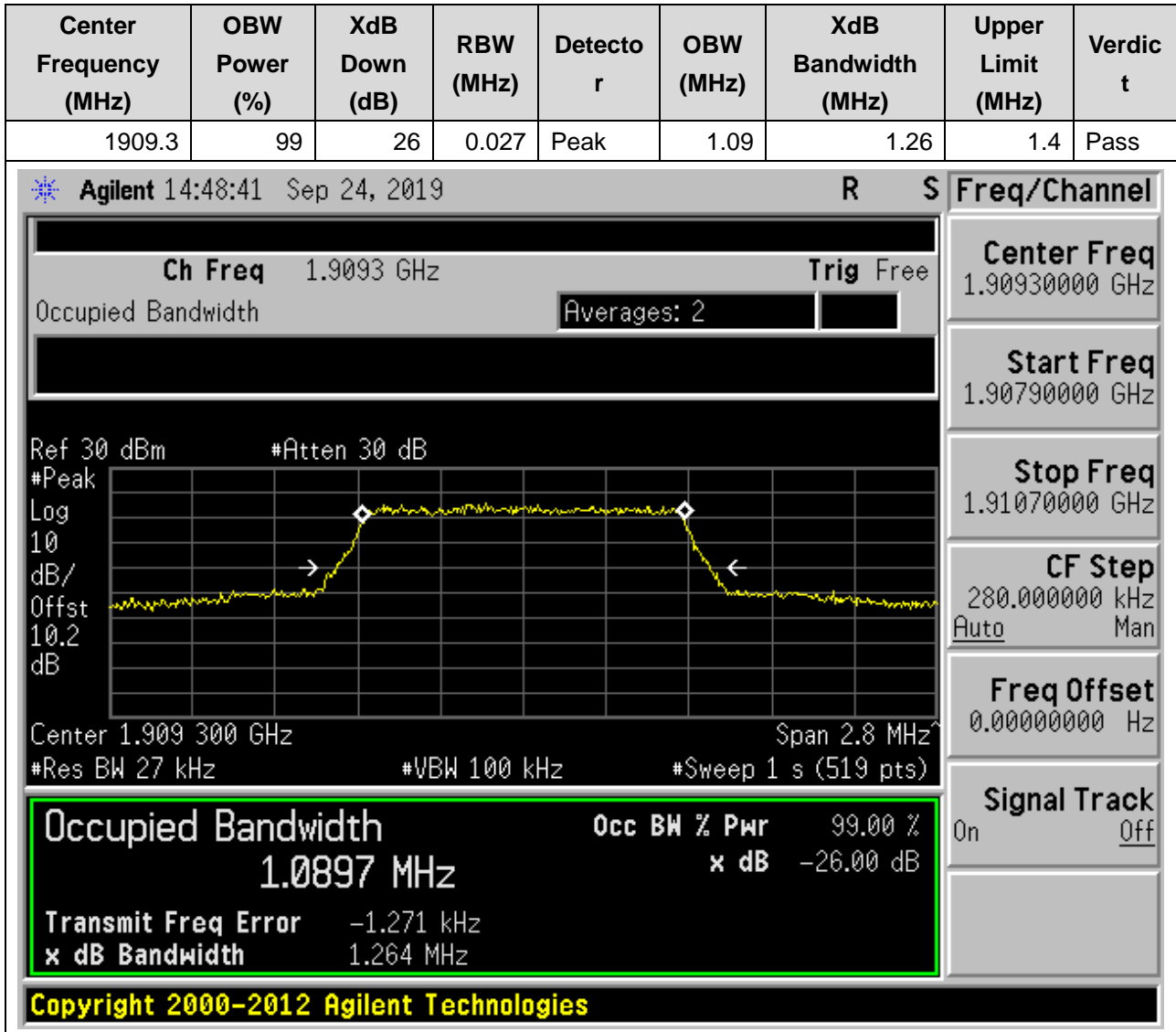
**CF Step** 280.000000 kHz  
Auto Man

**Freq Offset** 0.00000000 Hz

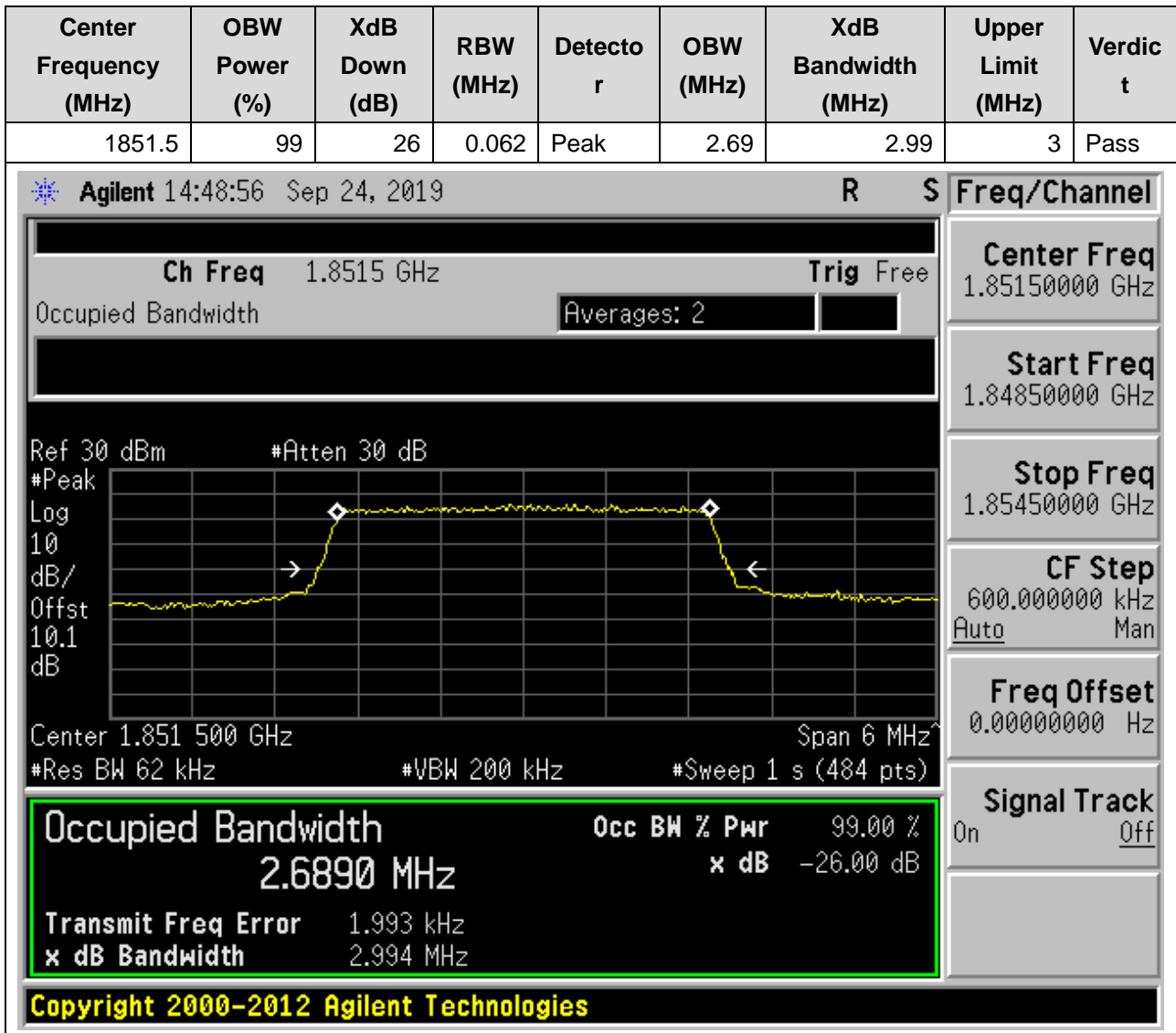
**Signal Track** On Off

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

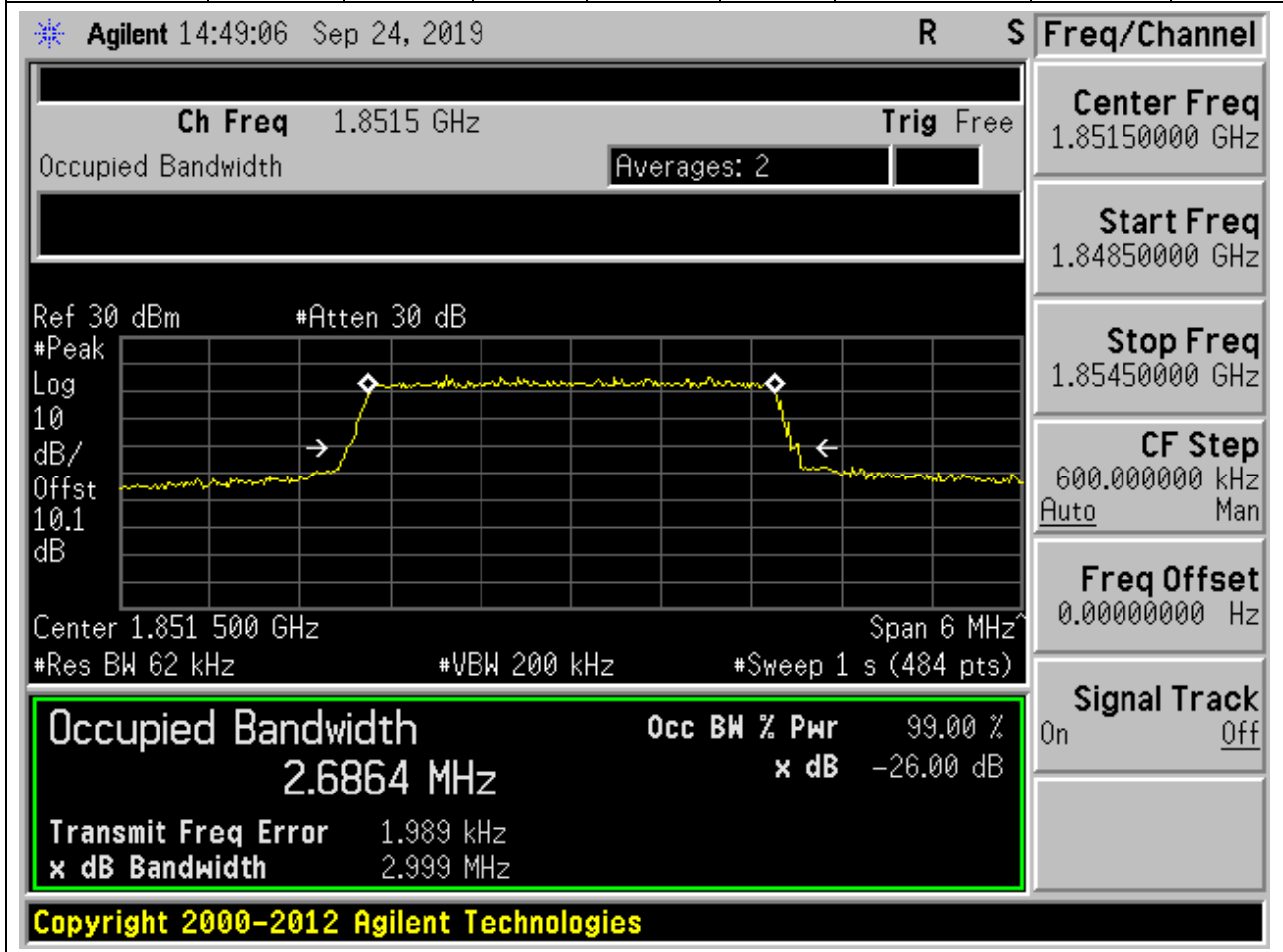


**8.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:18615, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

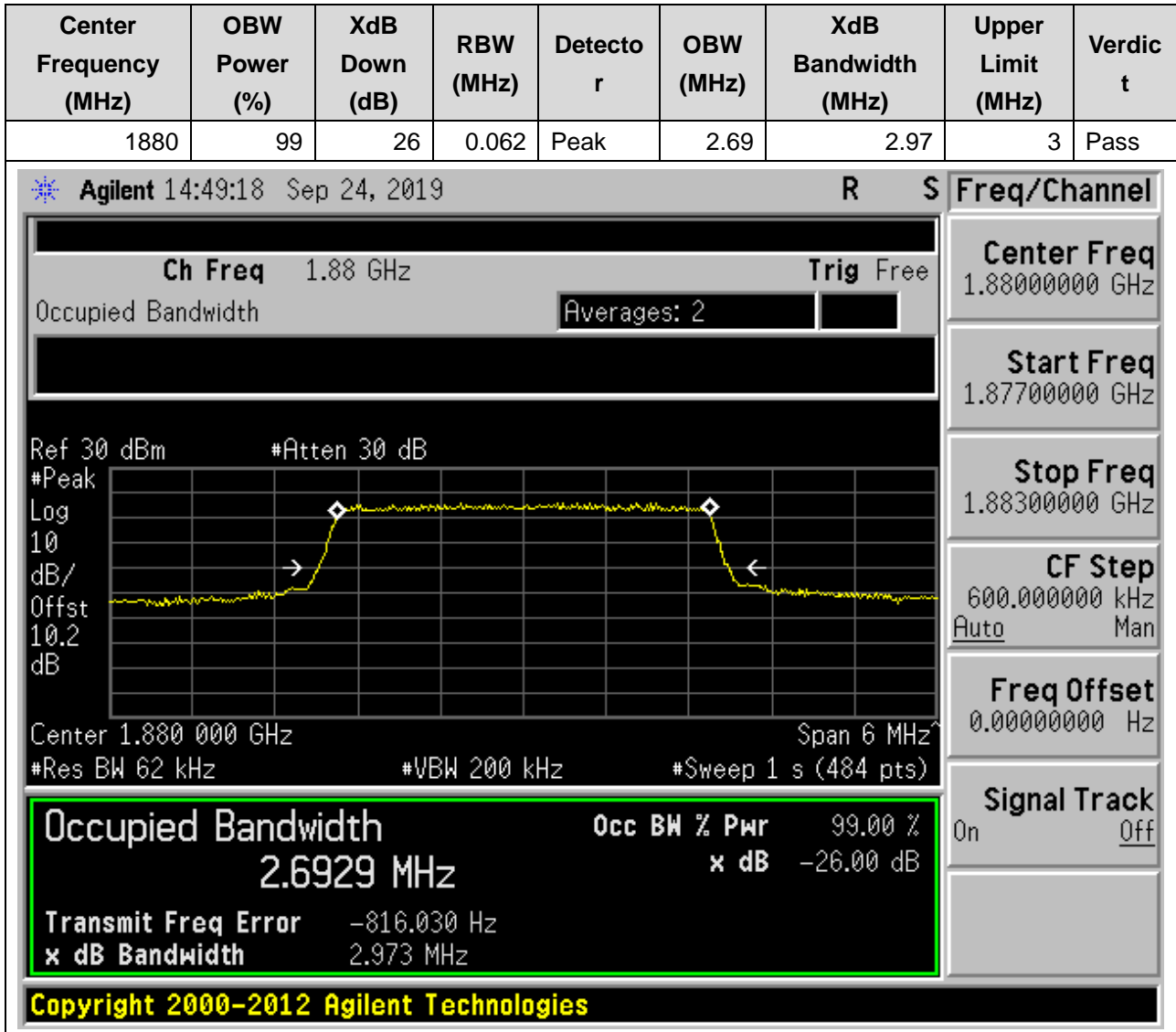


**8.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:18615, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

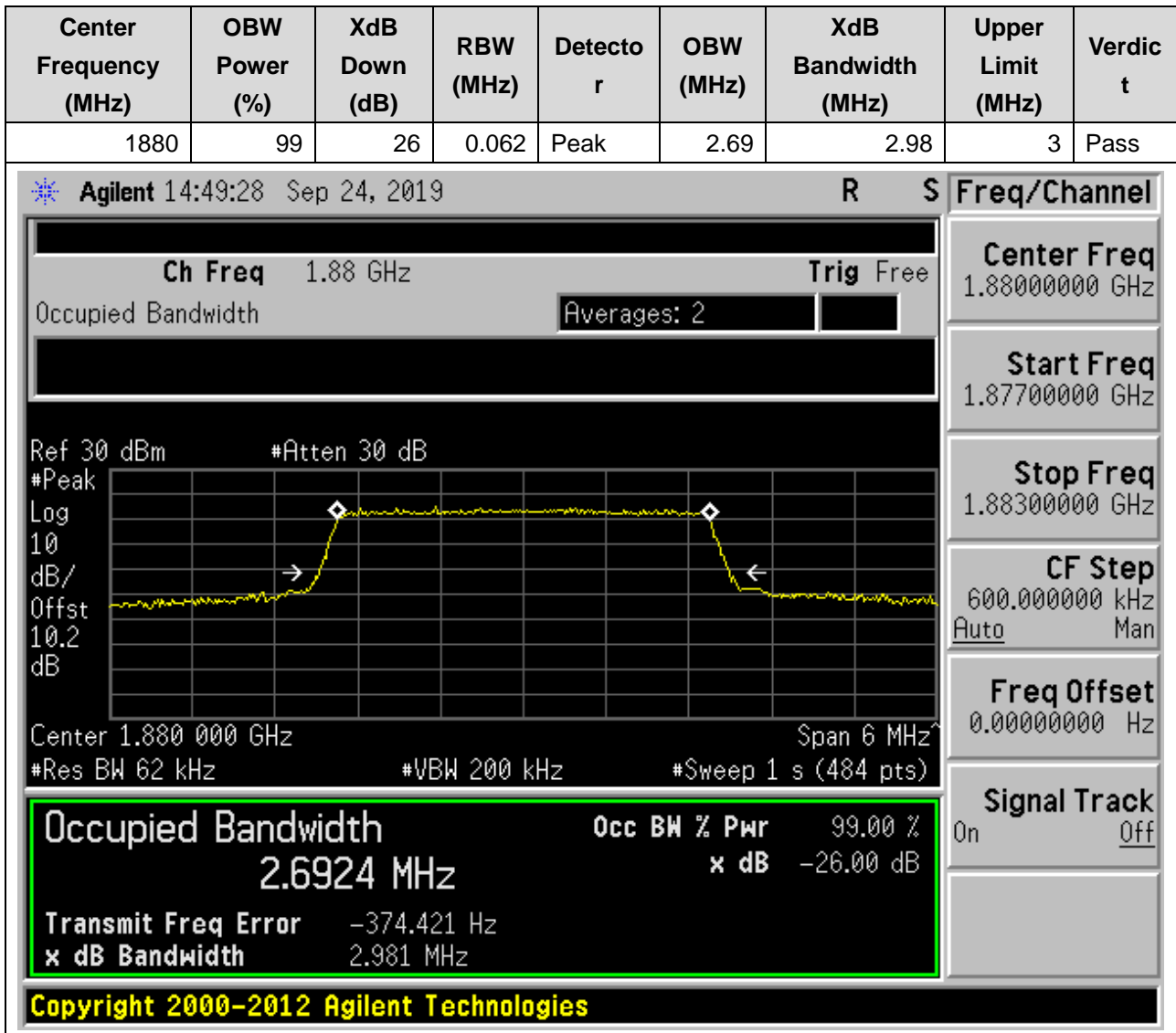
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1851.5	99	26	0.062	Peak	2.69	3	3	Pass



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



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





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

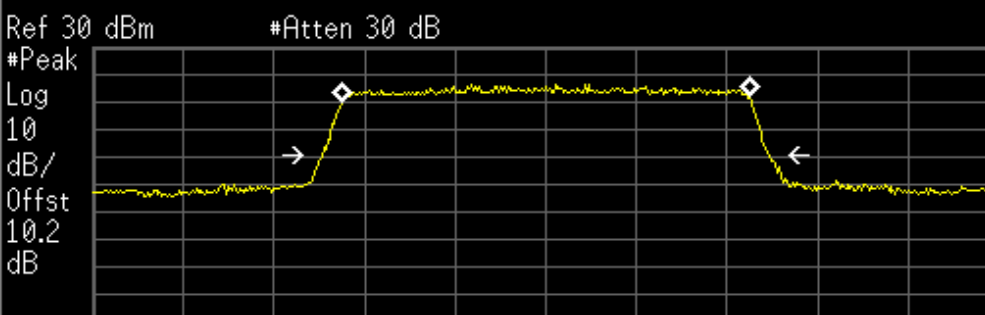
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1908.5	99	26	0.062	Peak	2.69	2.97	3	Pass

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**Ch Freq** 1.9085 GHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
10.2  
dB

Center 1.908 500 GHz Span 6 MHz

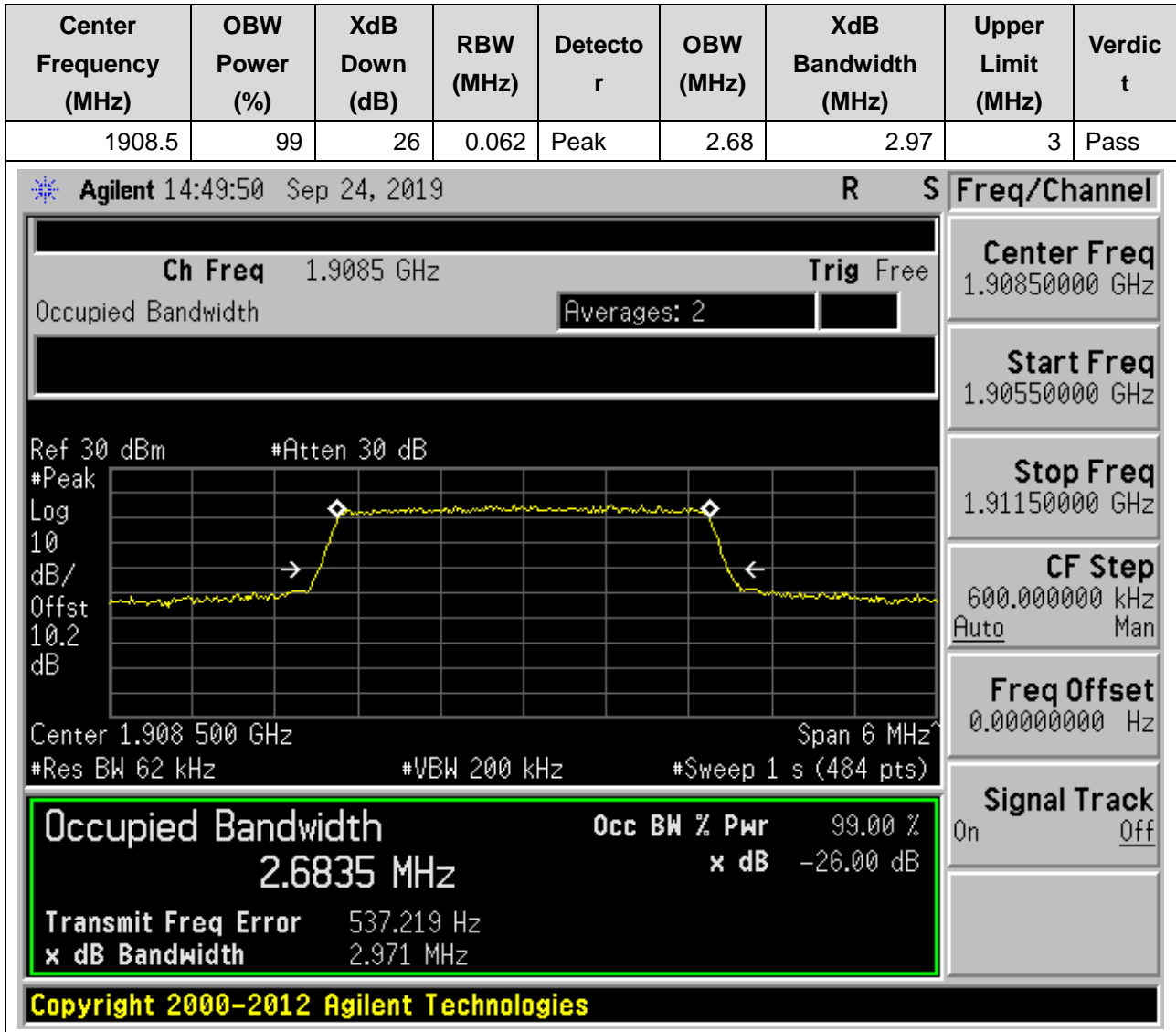
#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (484 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
2.6887 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	1.126 kHz	
<b>x dB Bandwidth</b>	2.969 MHz	

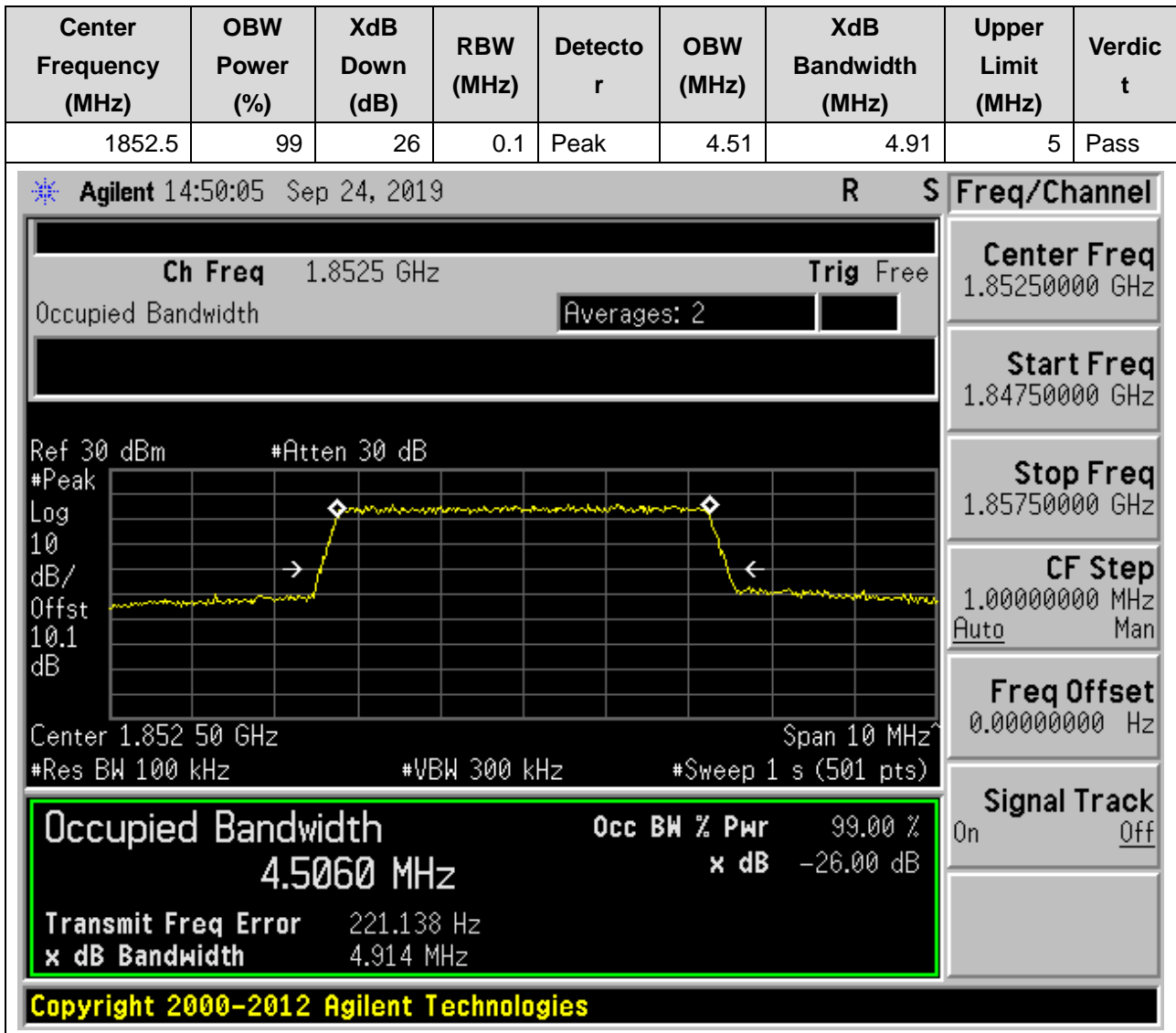
**Signal Track**  
On Off

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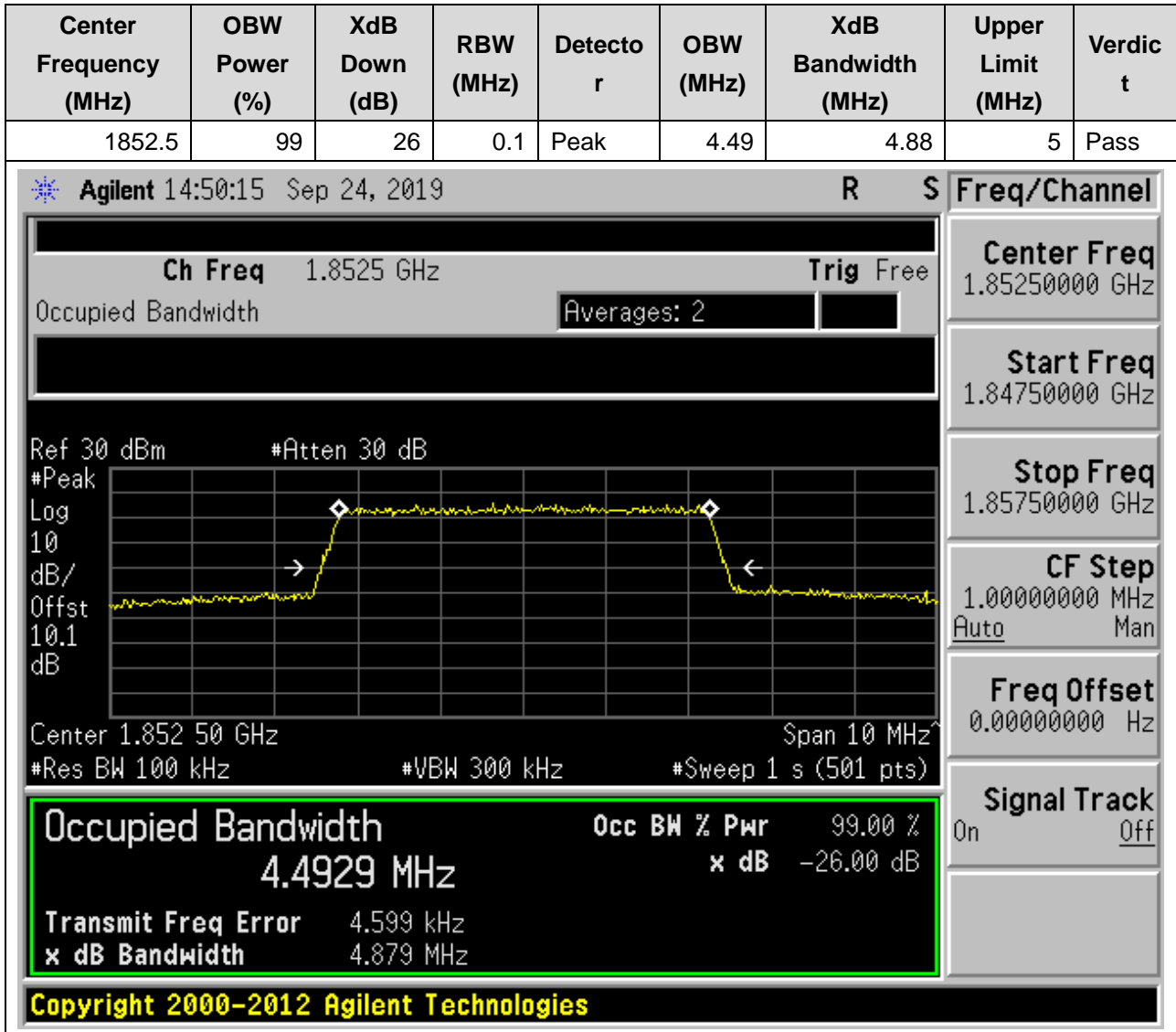
**8.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:19185, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



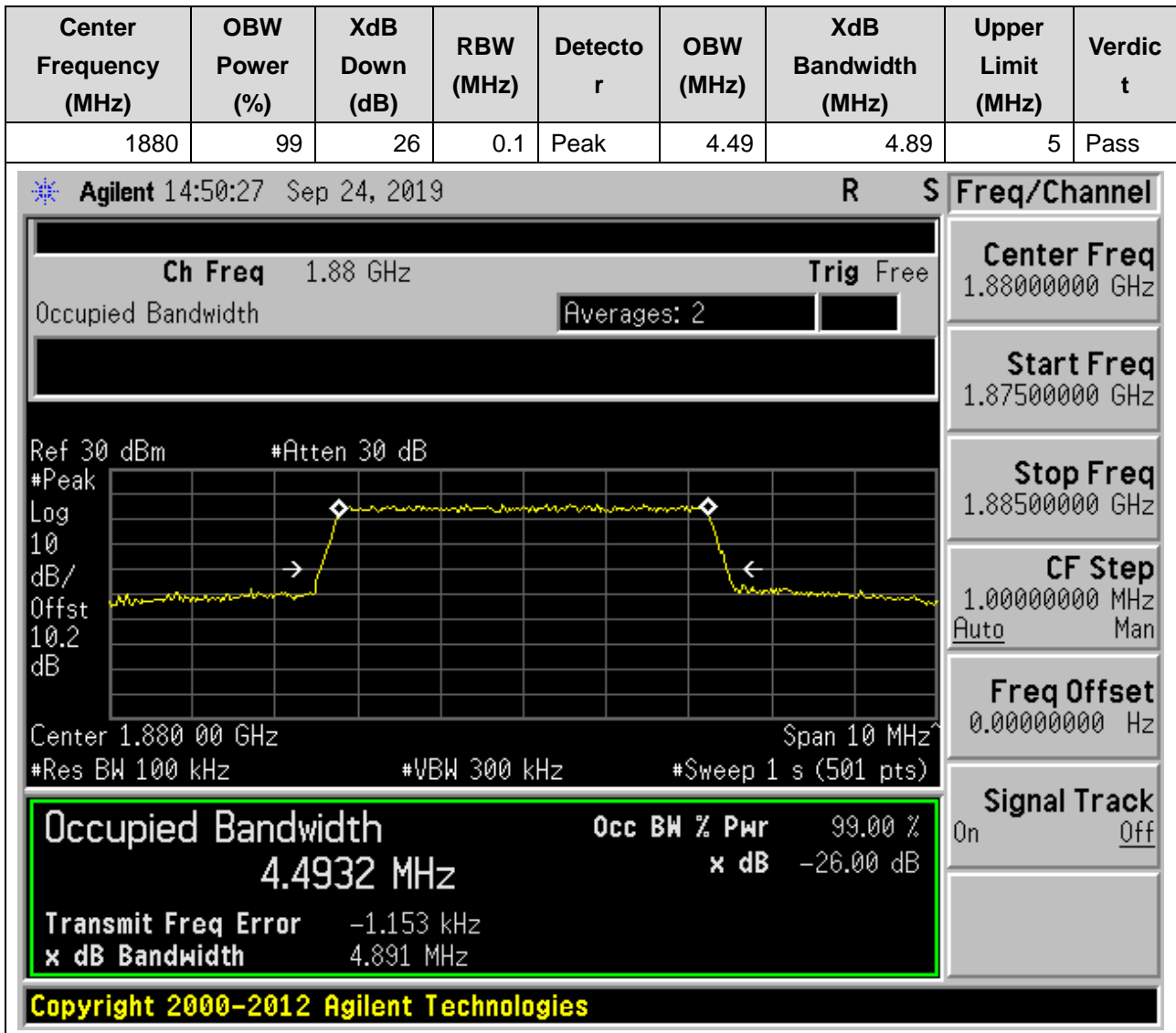
**8.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:18625, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



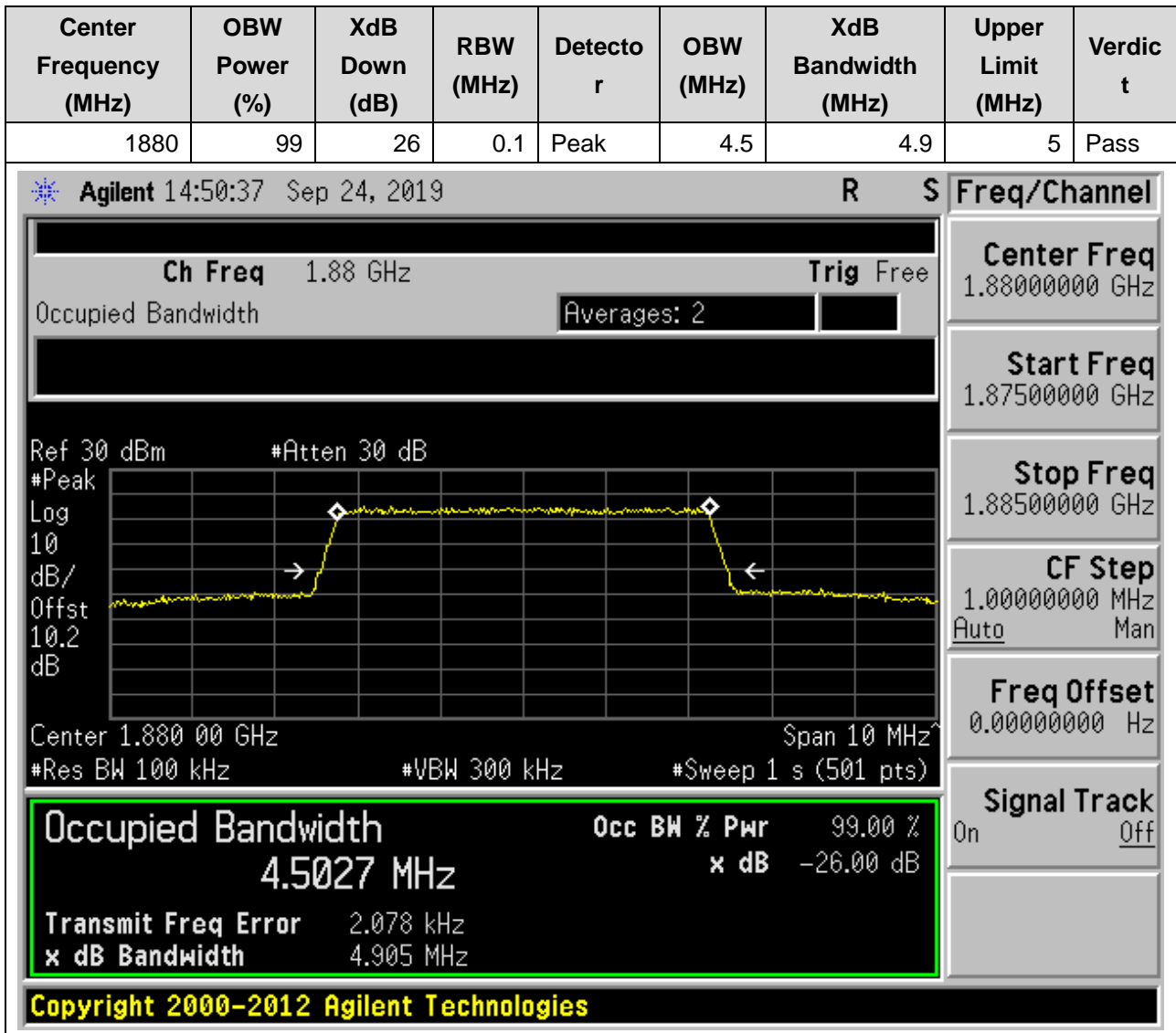
**8.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:18625, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



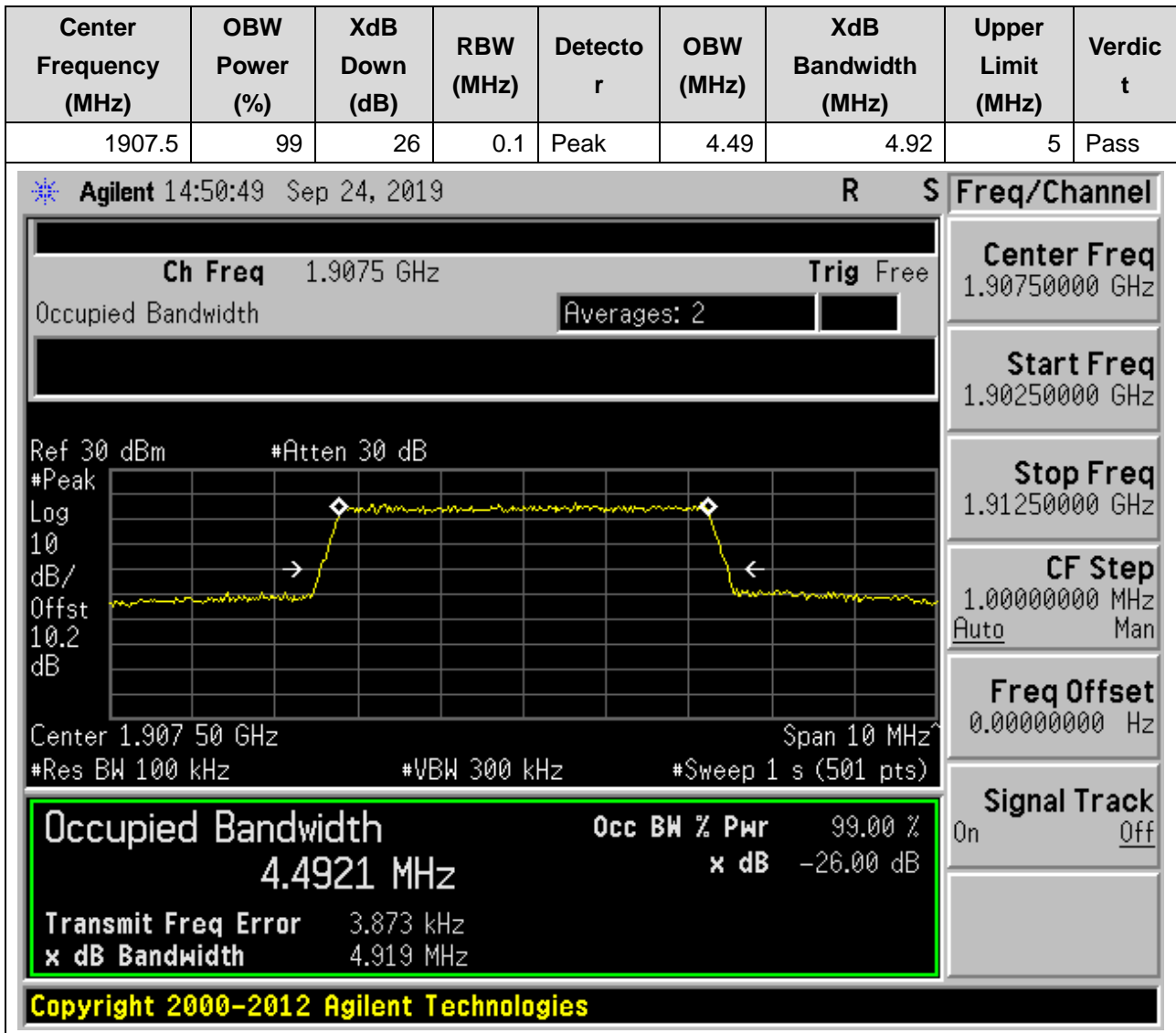
**8.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:18900, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



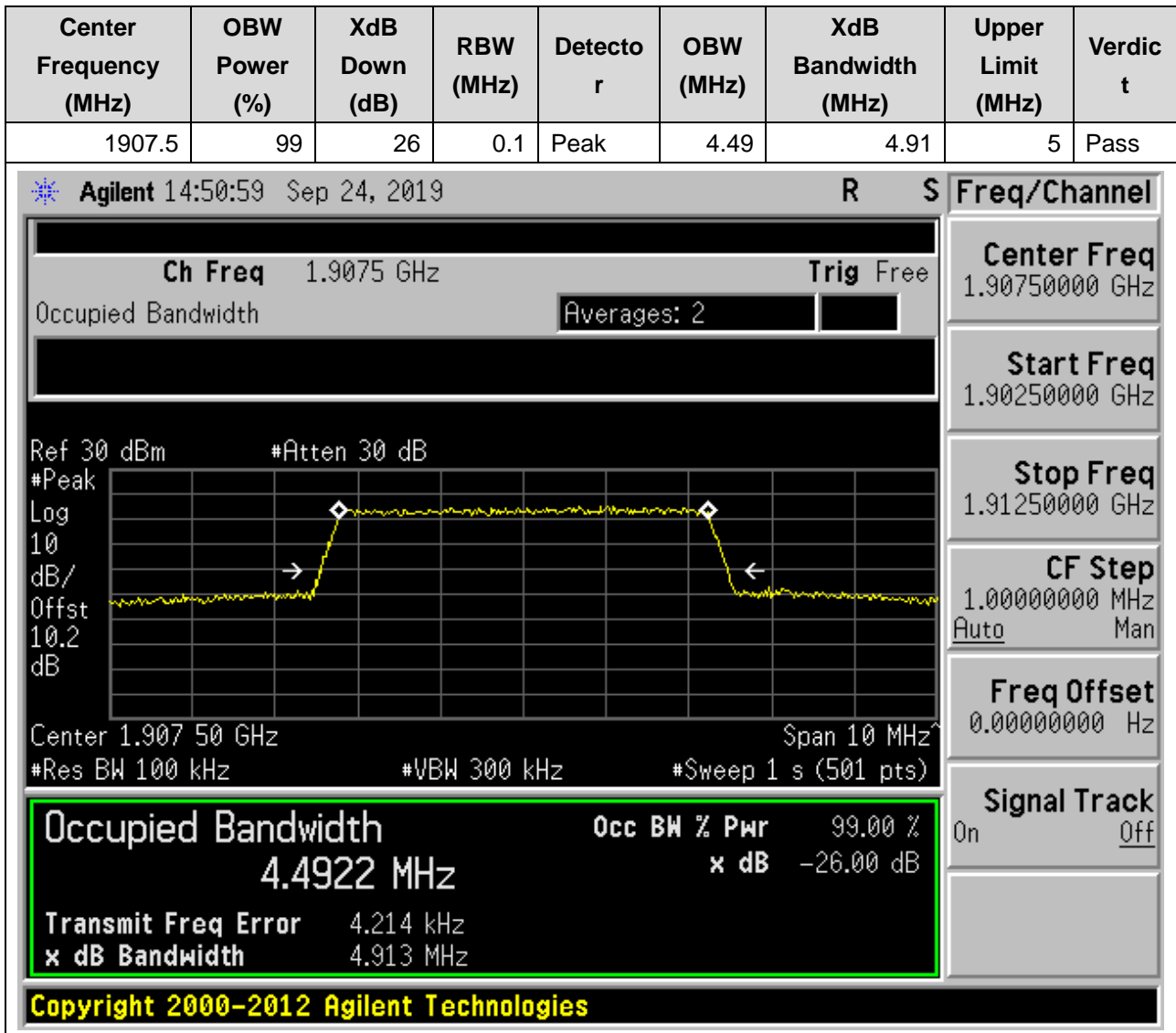
**8.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:18900, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



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

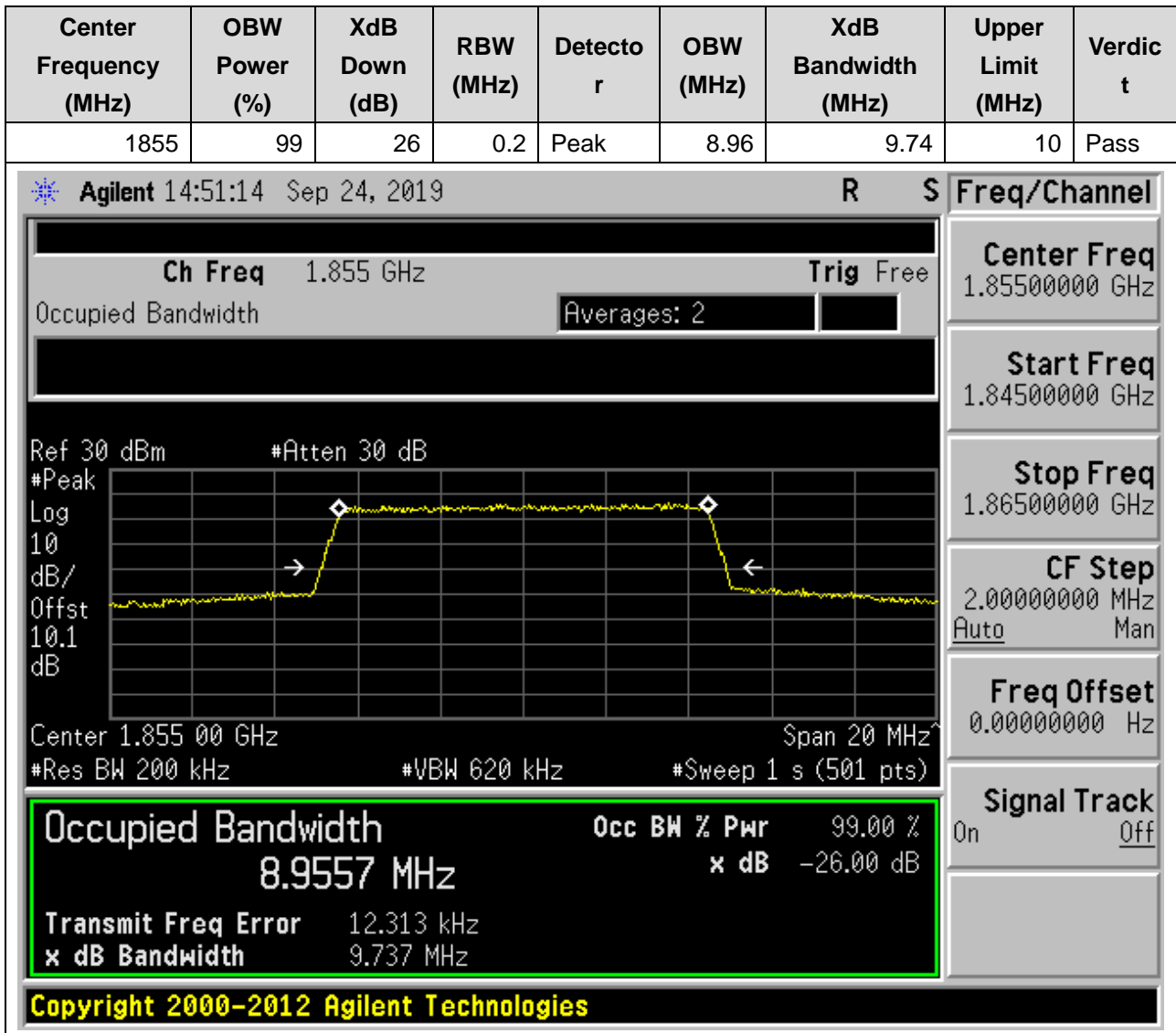


**8.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:19175, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

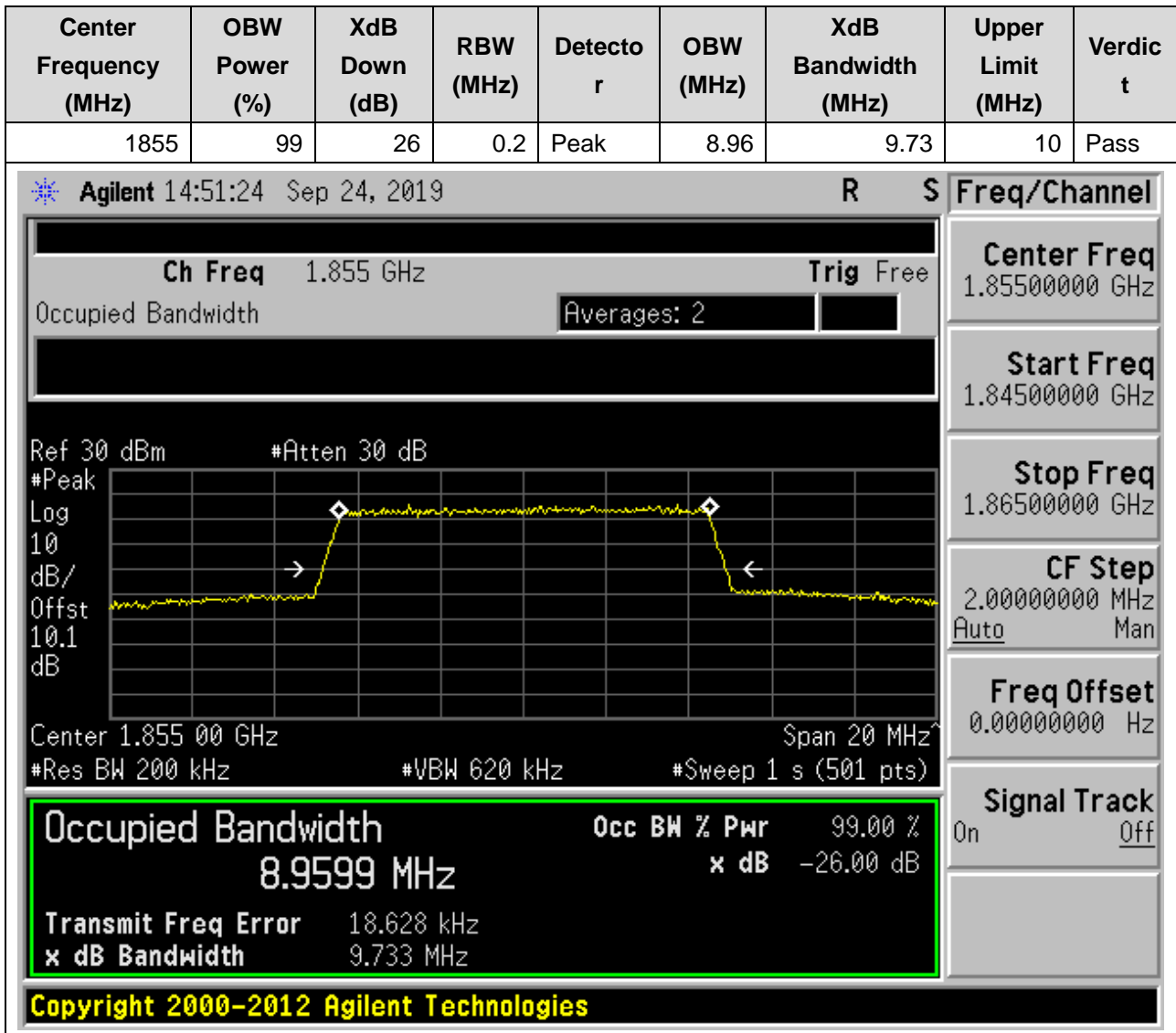




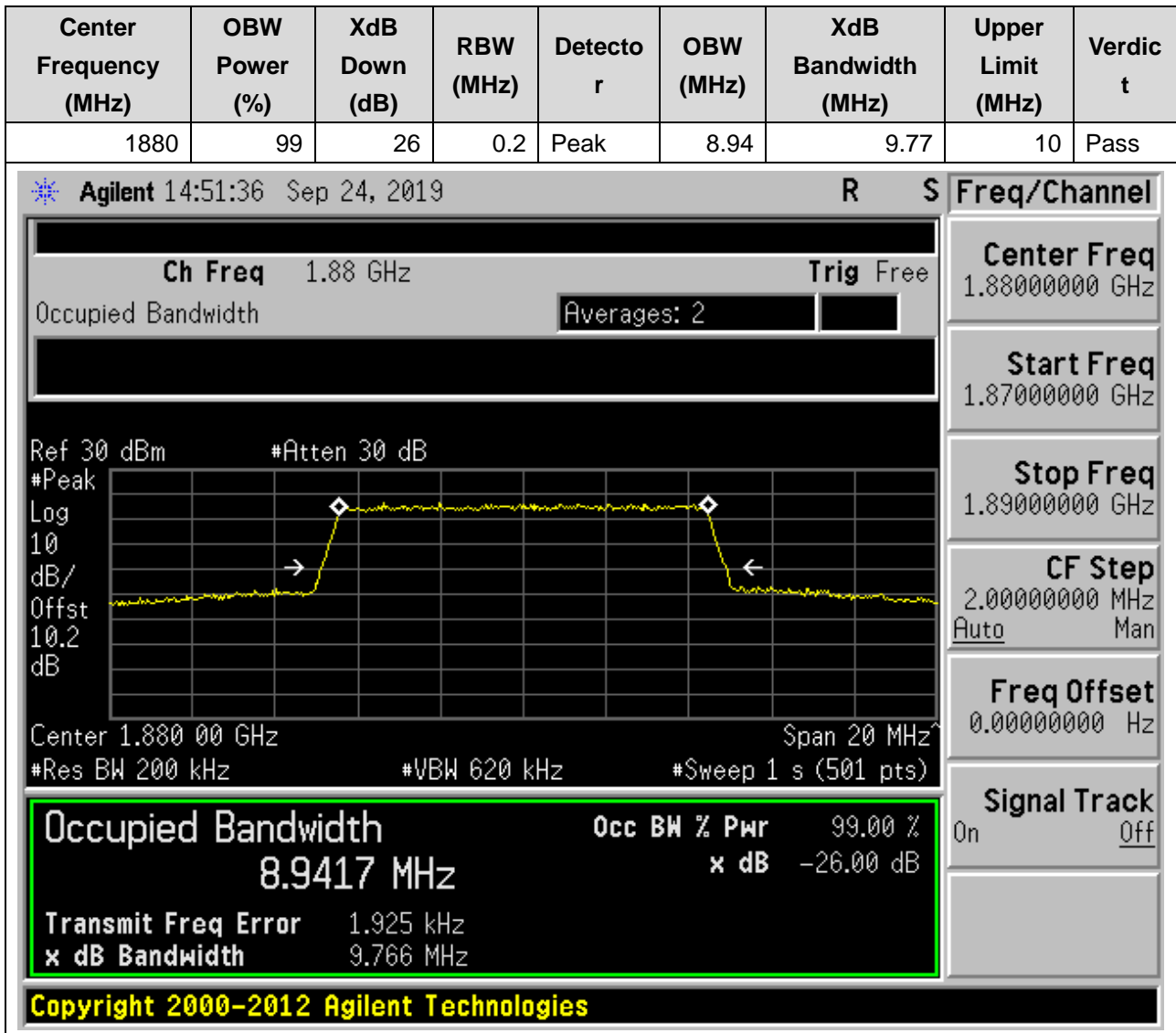
**8.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:18650, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



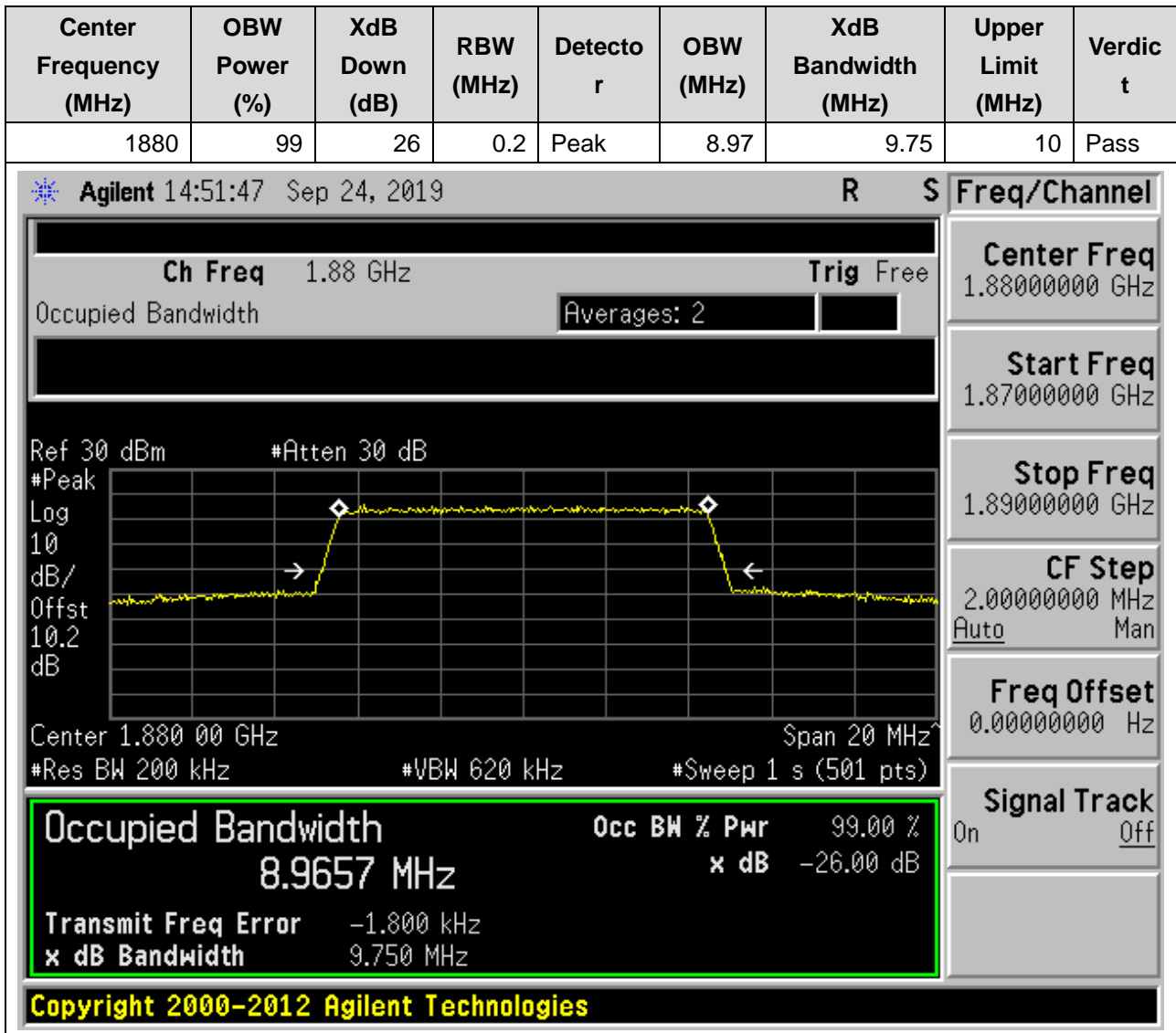
**8.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:18650, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



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



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



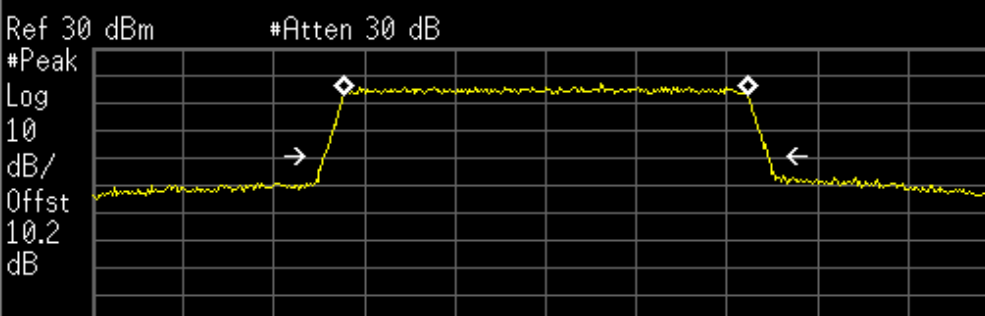
**8.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:19150, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

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	8.97	9.8	10	Pass

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**Ch Freq** 1.905 GHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.2 dB

Center 1.905 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>8.9744 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	29.175 Hz	
<b>x dB Bandwidth</b>	9.796 MHz	

**Freq/Channel**

**Center Freq**  
1.90500000 GHz

**Start Freq**  
1.89500000 GHz

**Stop Freq**  
1.91500000 GHz

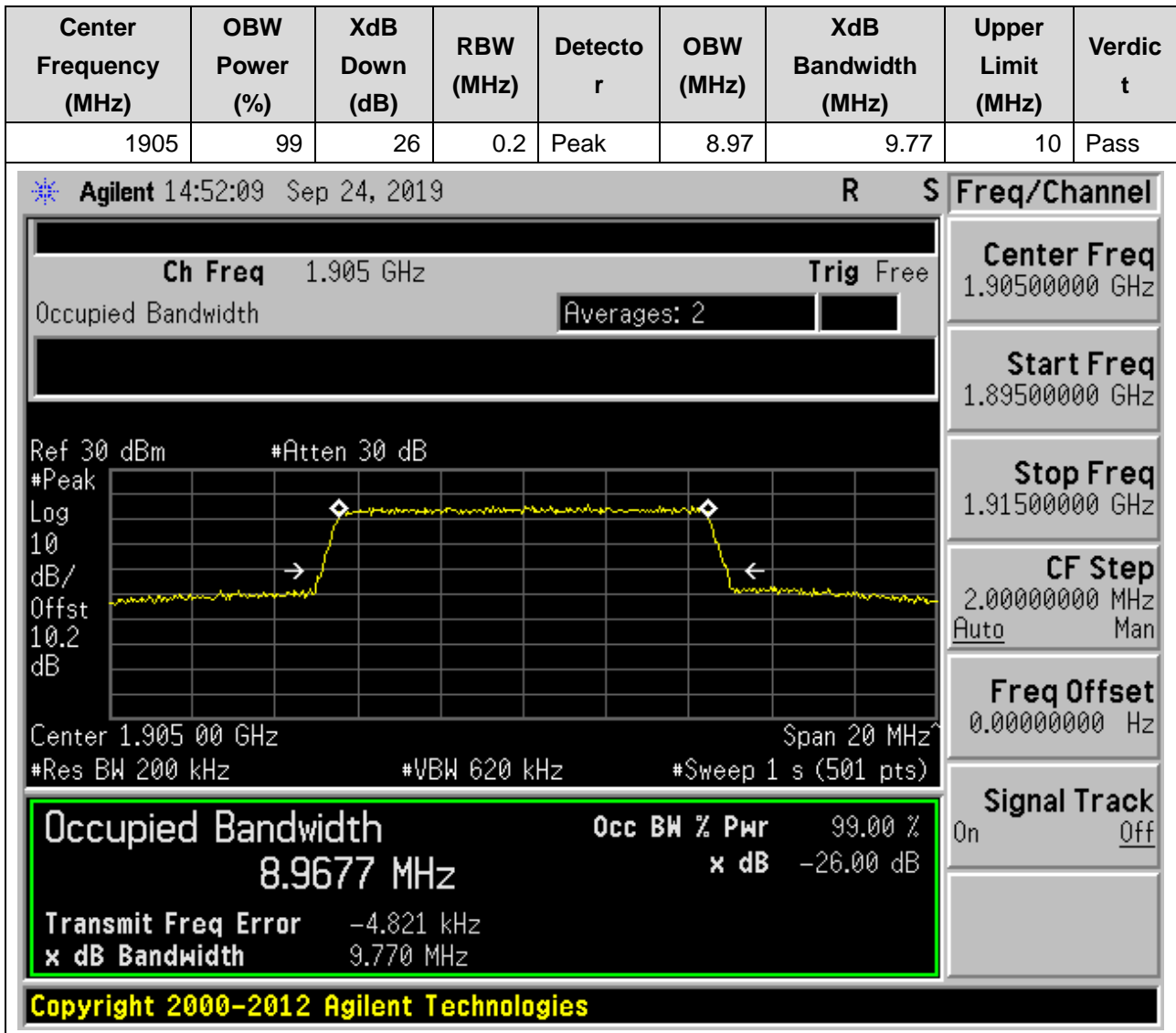
**CF Step**  
2.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

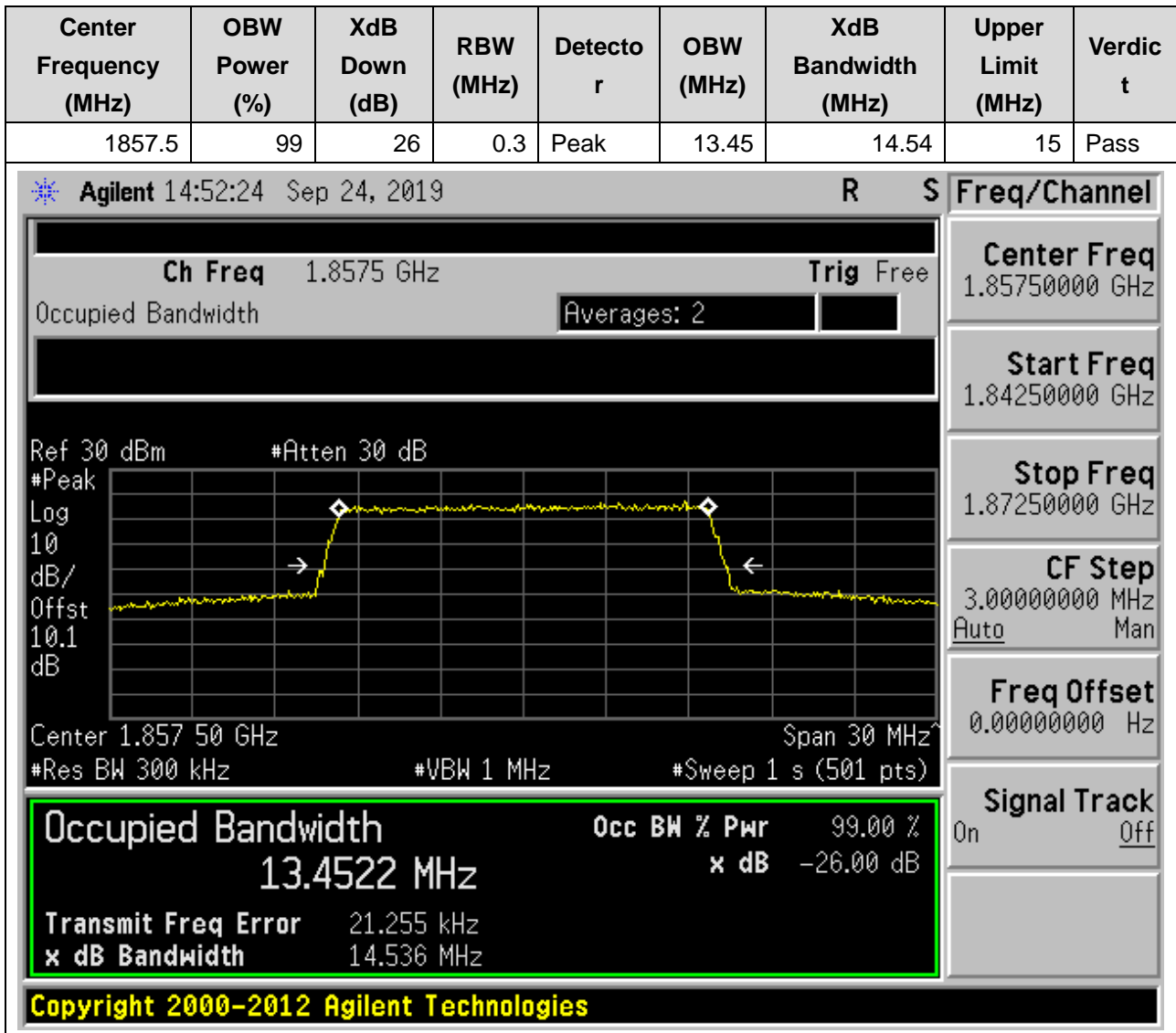
**Signal Track**  
On Off

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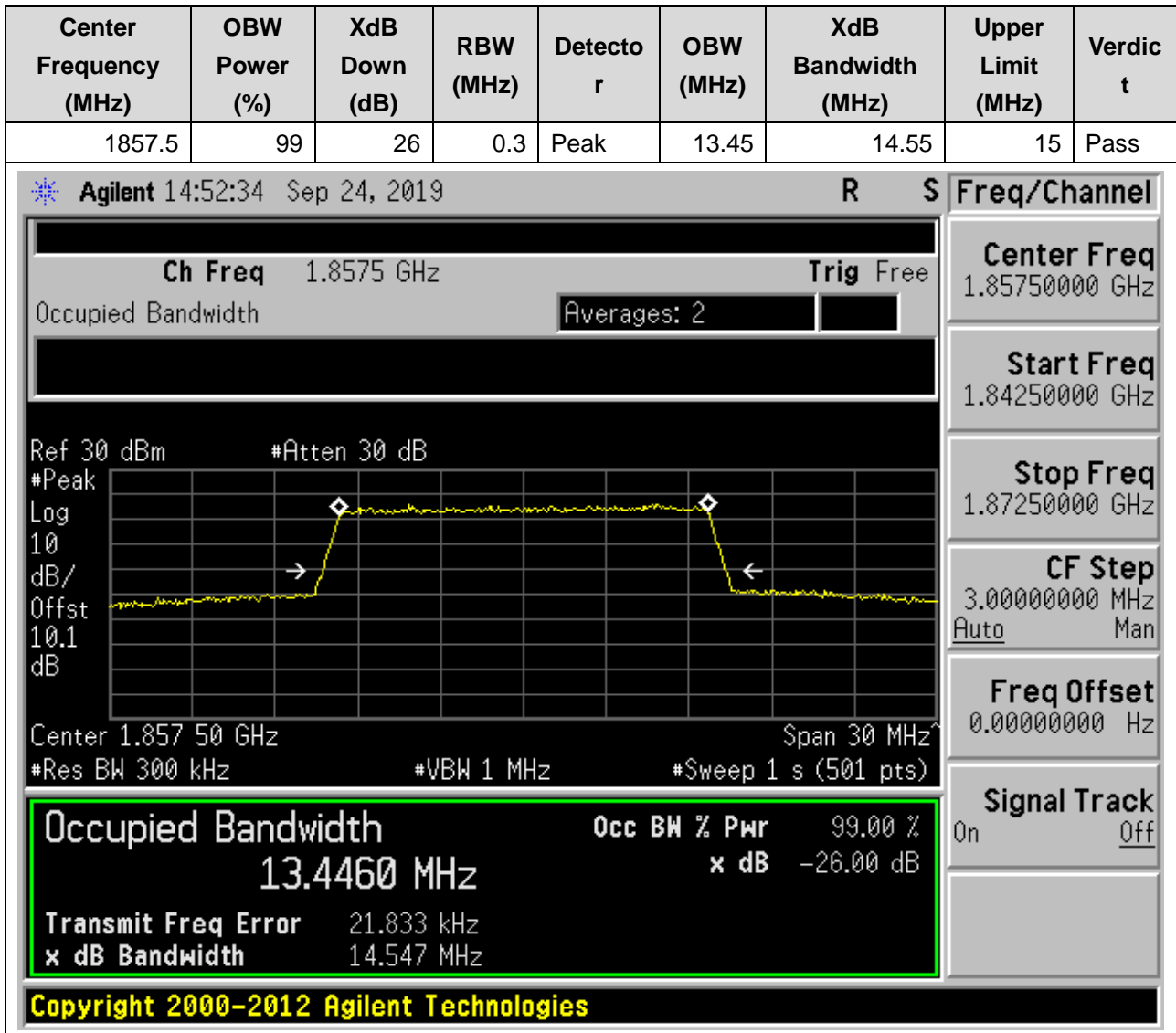
**8.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:19150, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



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

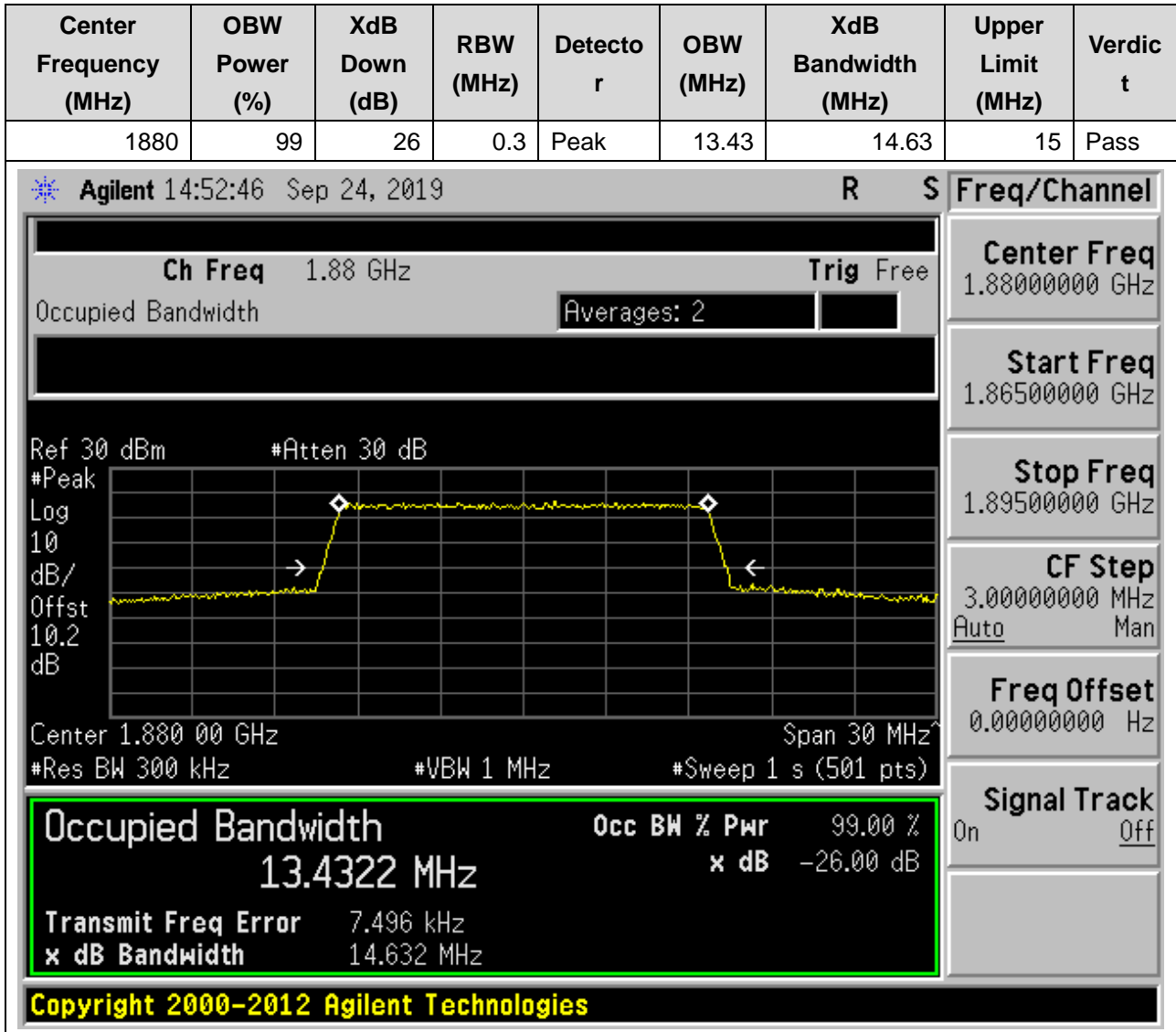


**8.26. LTE Occupied Bandwidth(NTNV)(Subtest:26, Channel:18675, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

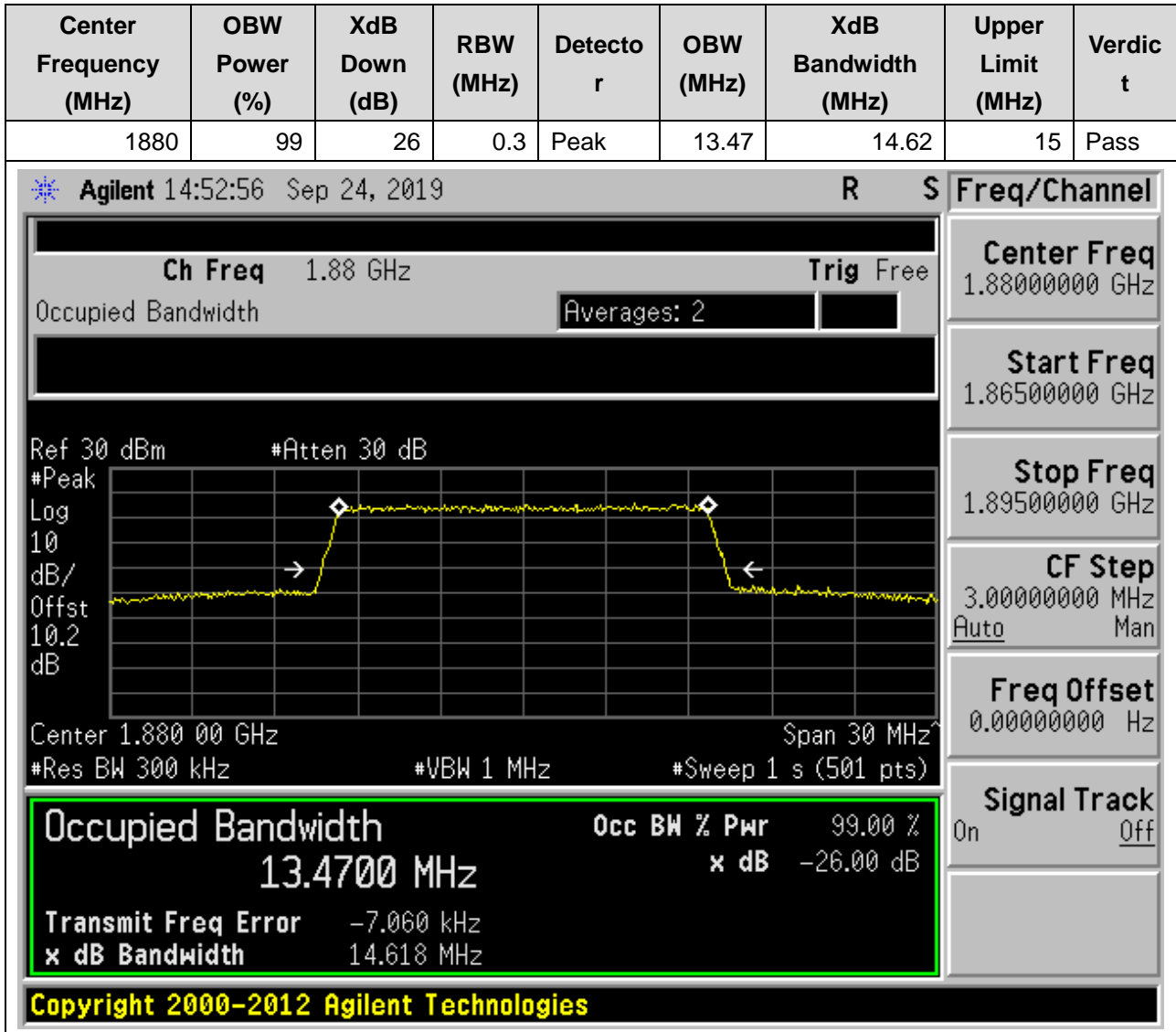




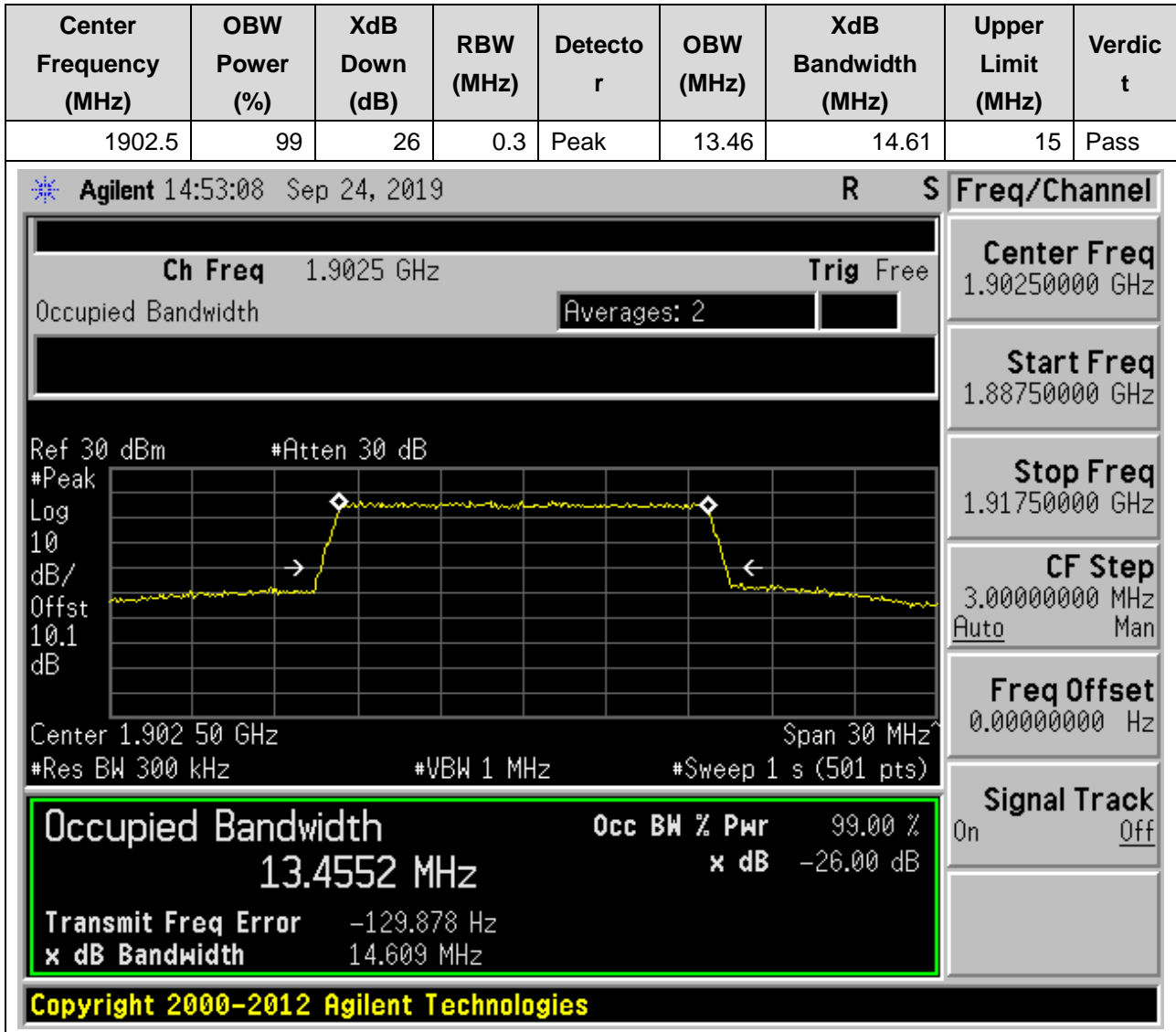
**8.27. LTE Occupied Bandwidth(NTNV)(Subtest:27, Channel:18900, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



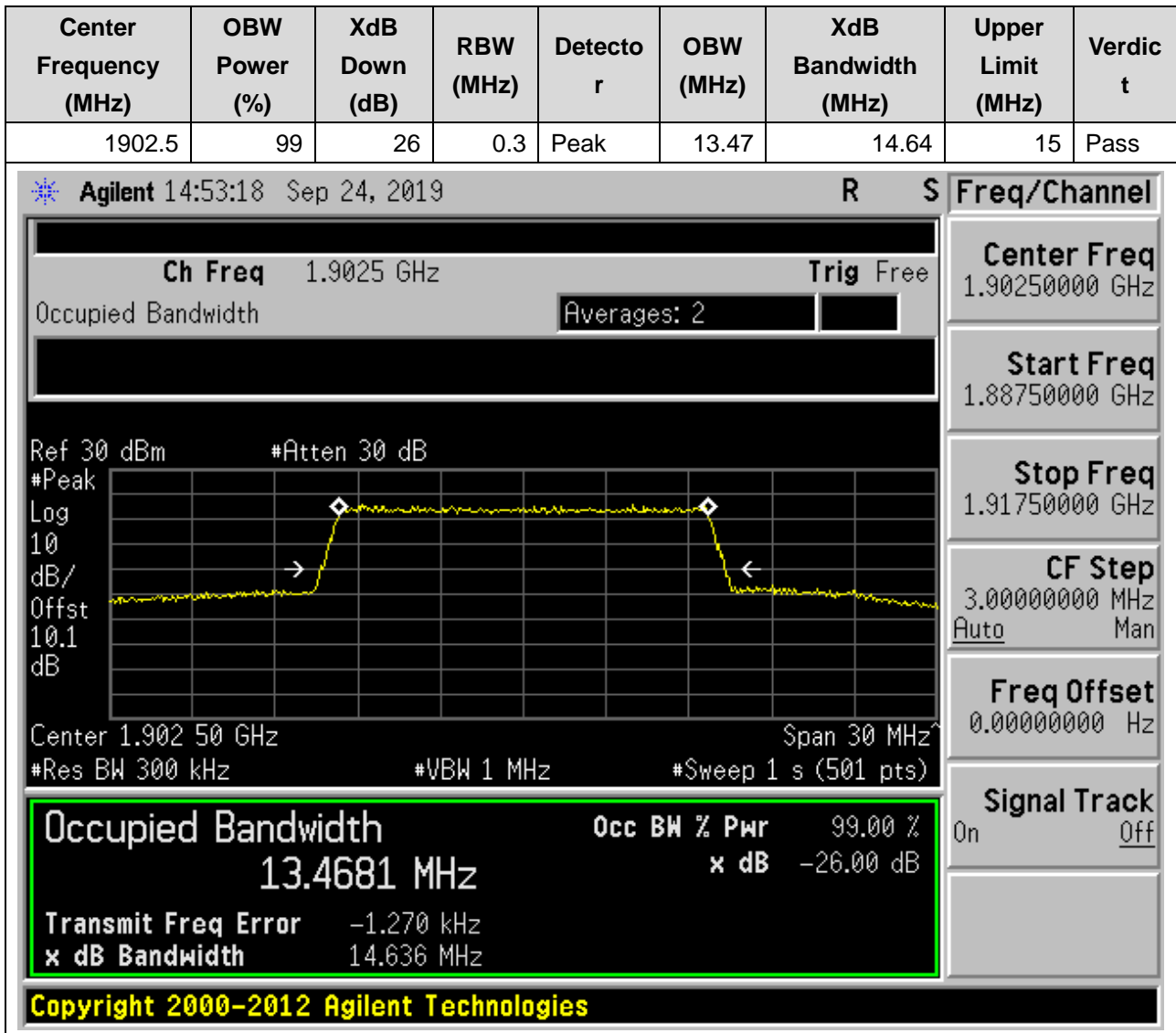
**8.28. LTE Occupied Bandwidth(NTNV)(Subtest:28, Channel:18900, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



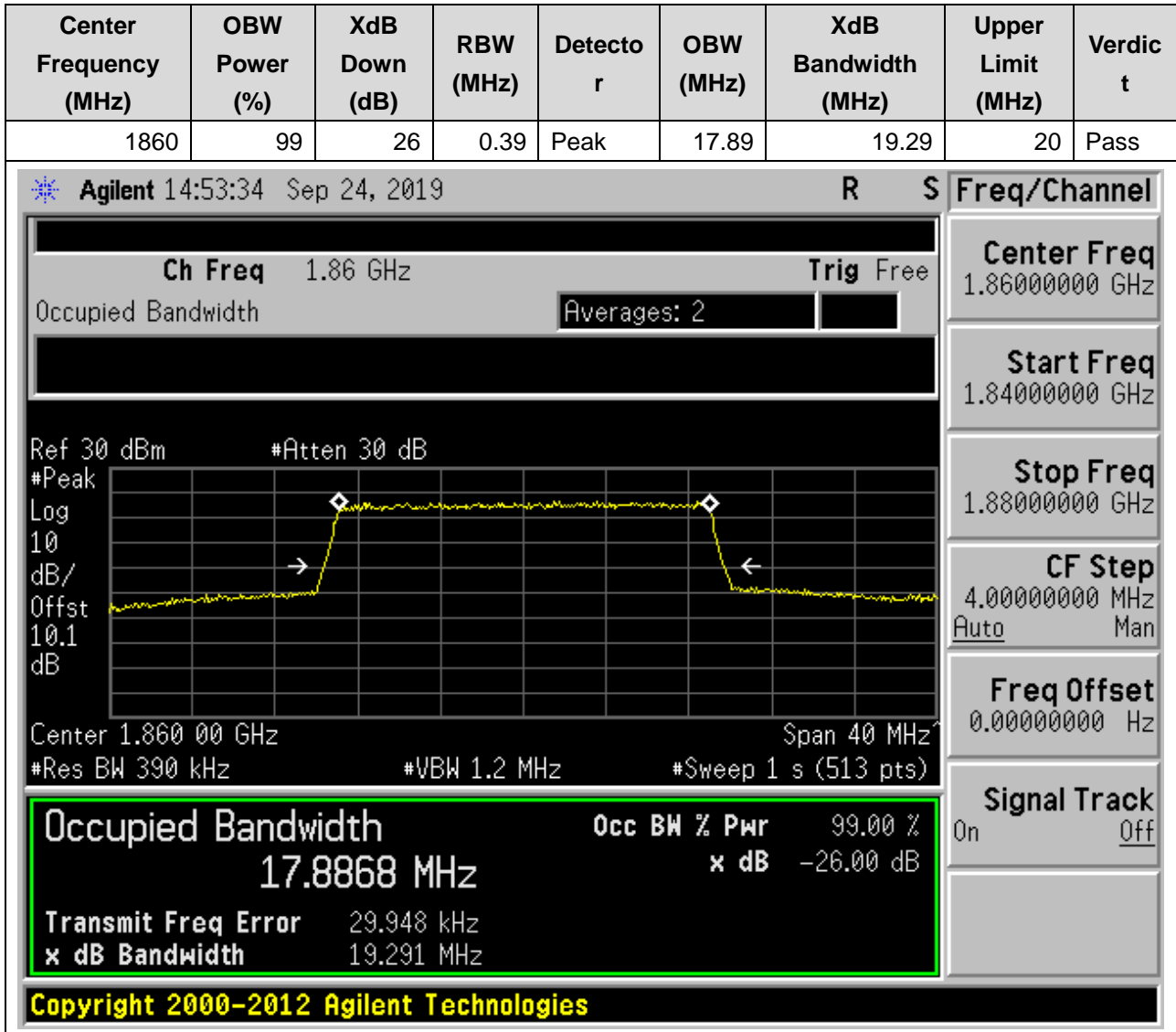
**8.29. LTE Occupied Bandwidth(NTNV)(Subtest:29, Channel:19125, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



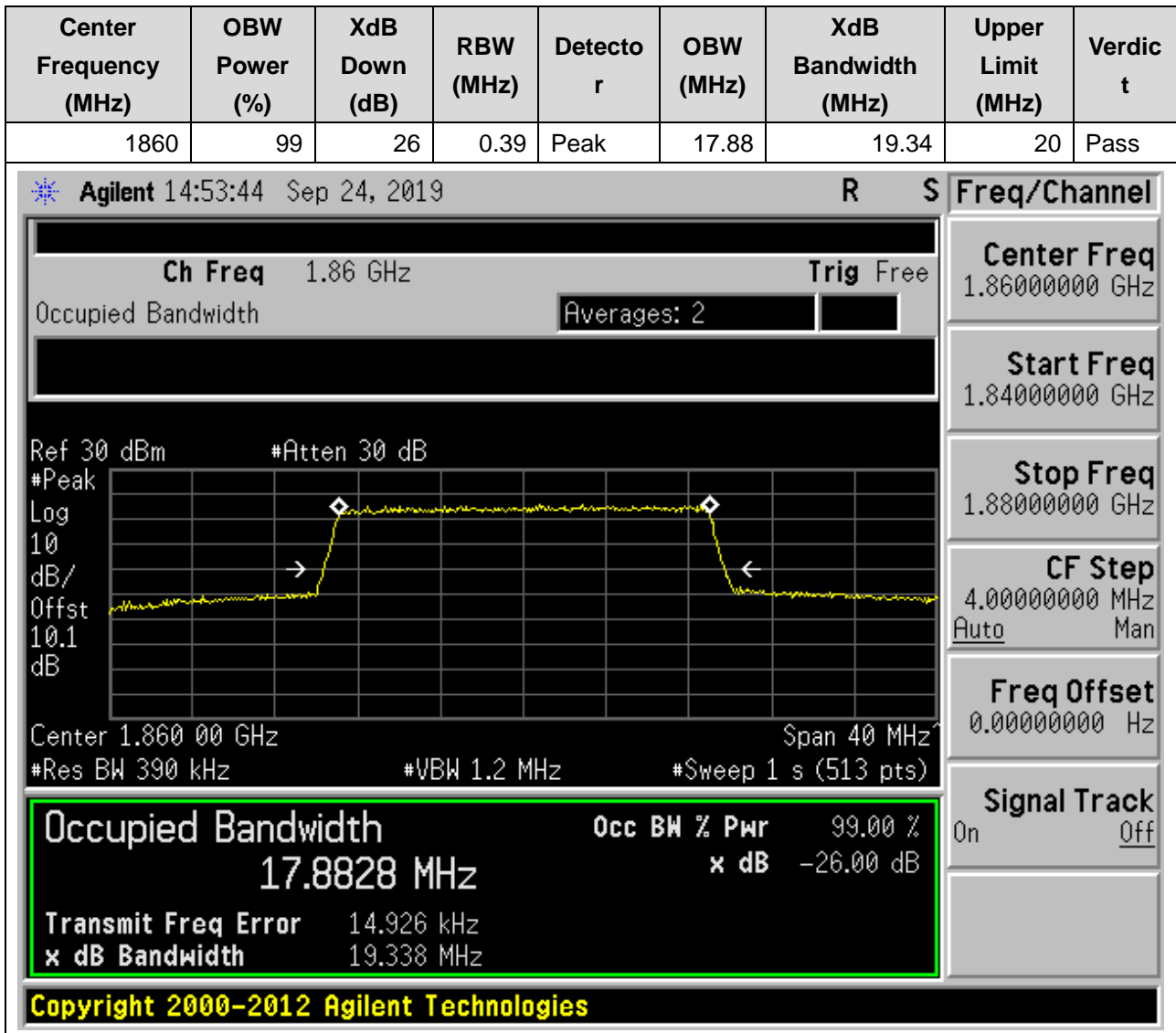
**8.30. LTE Occupied Bandwidth(NTNV)(Subtest:30, Channel:19125, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



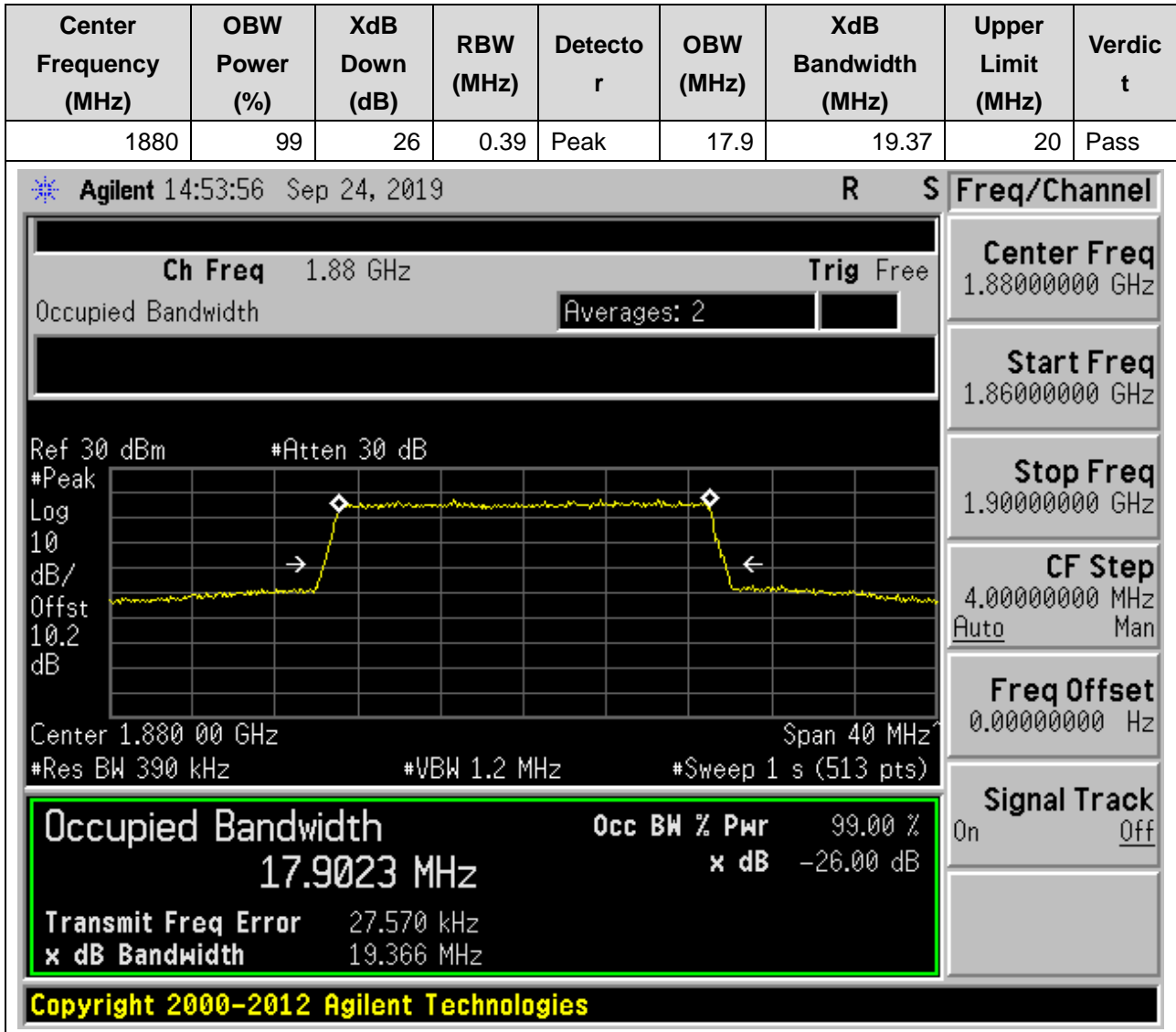
**8.31. LTE Occupied Bandwidth(NTNV)(Subtest:31, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



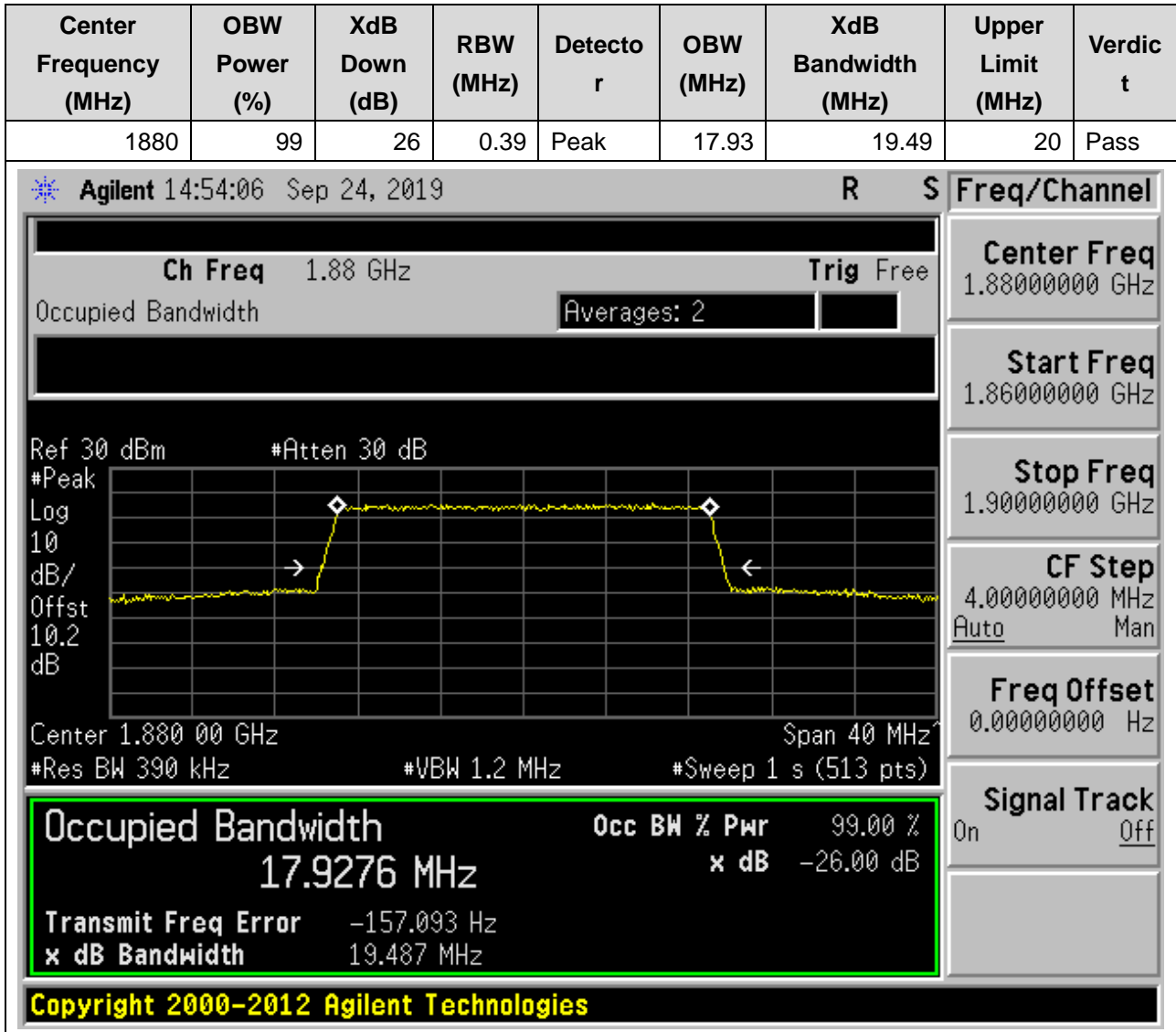
**8.32. LTE Occupied Bandwidth(NTNV)(Subtest:32, Channel:18700, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



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

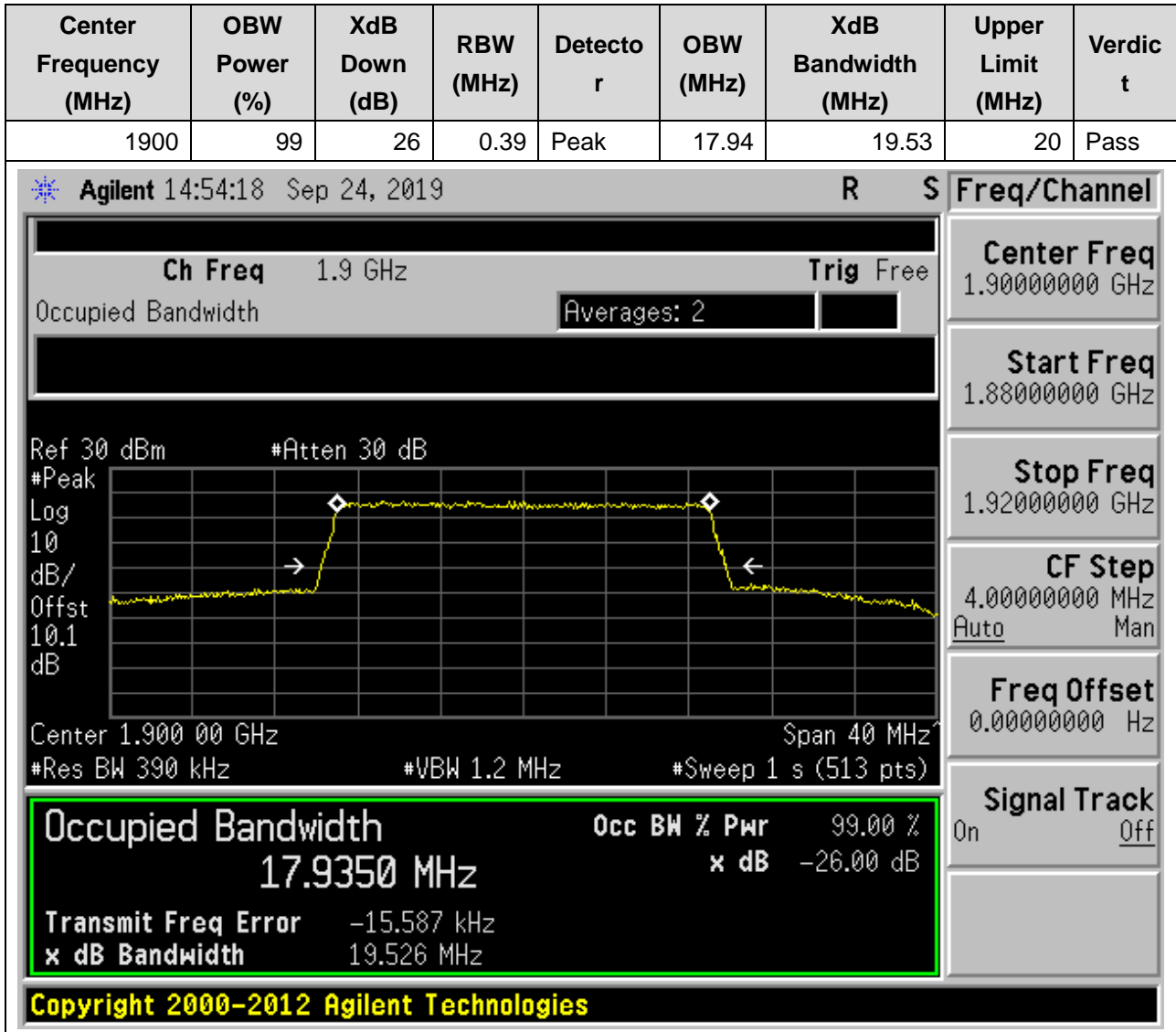


**8.34. LTE Occupied Bandwidth(NTNV)(Subtest:34, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

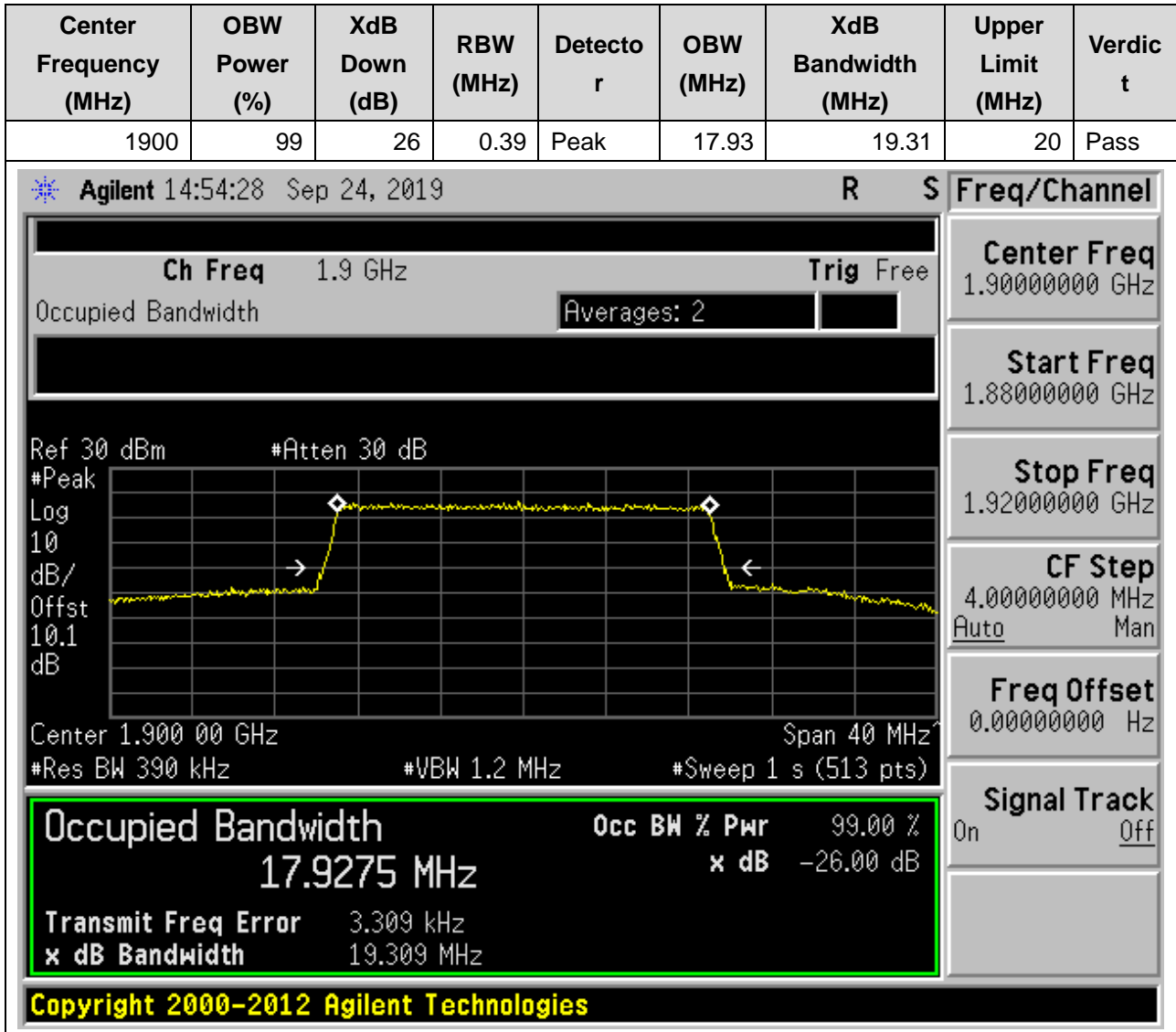




**8.35. LTE Occupied Bandwidth(NTNV)(Subtest:35, Channel:19100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

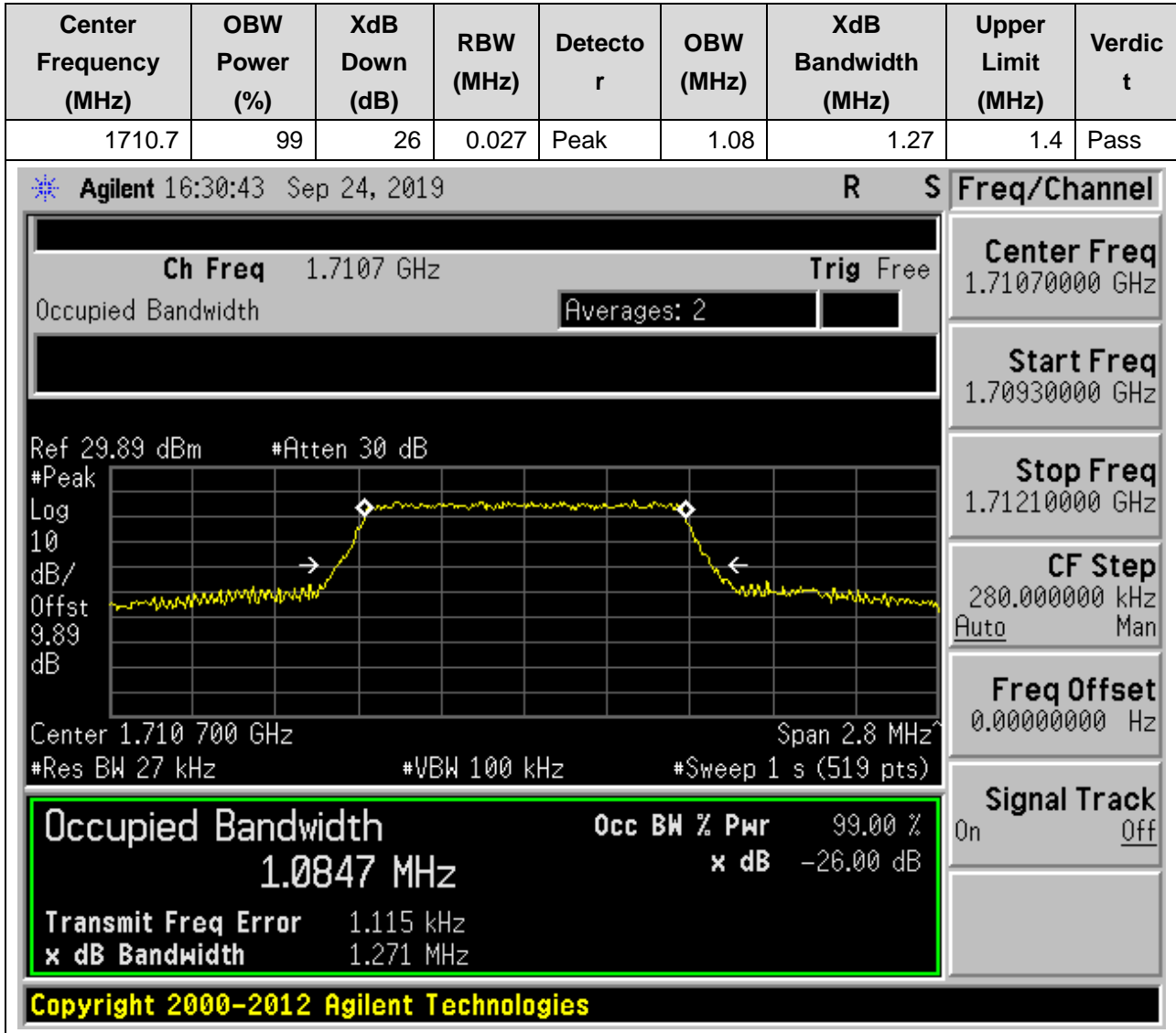


**8.36. LTE Occupied Bandwidth(NTNV)(Subtest:36, Channel:19100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

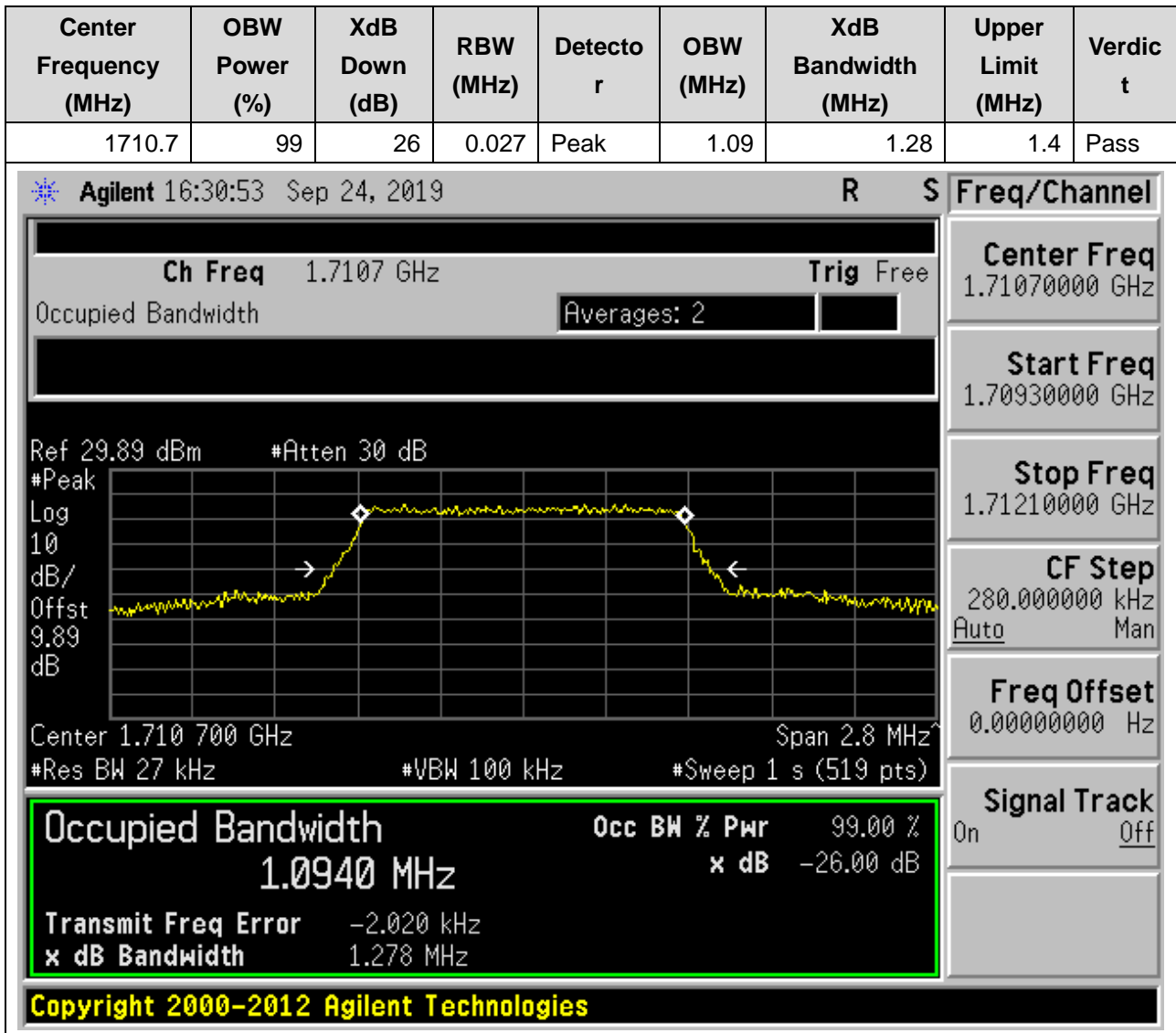


## 9. LTE\_Band4

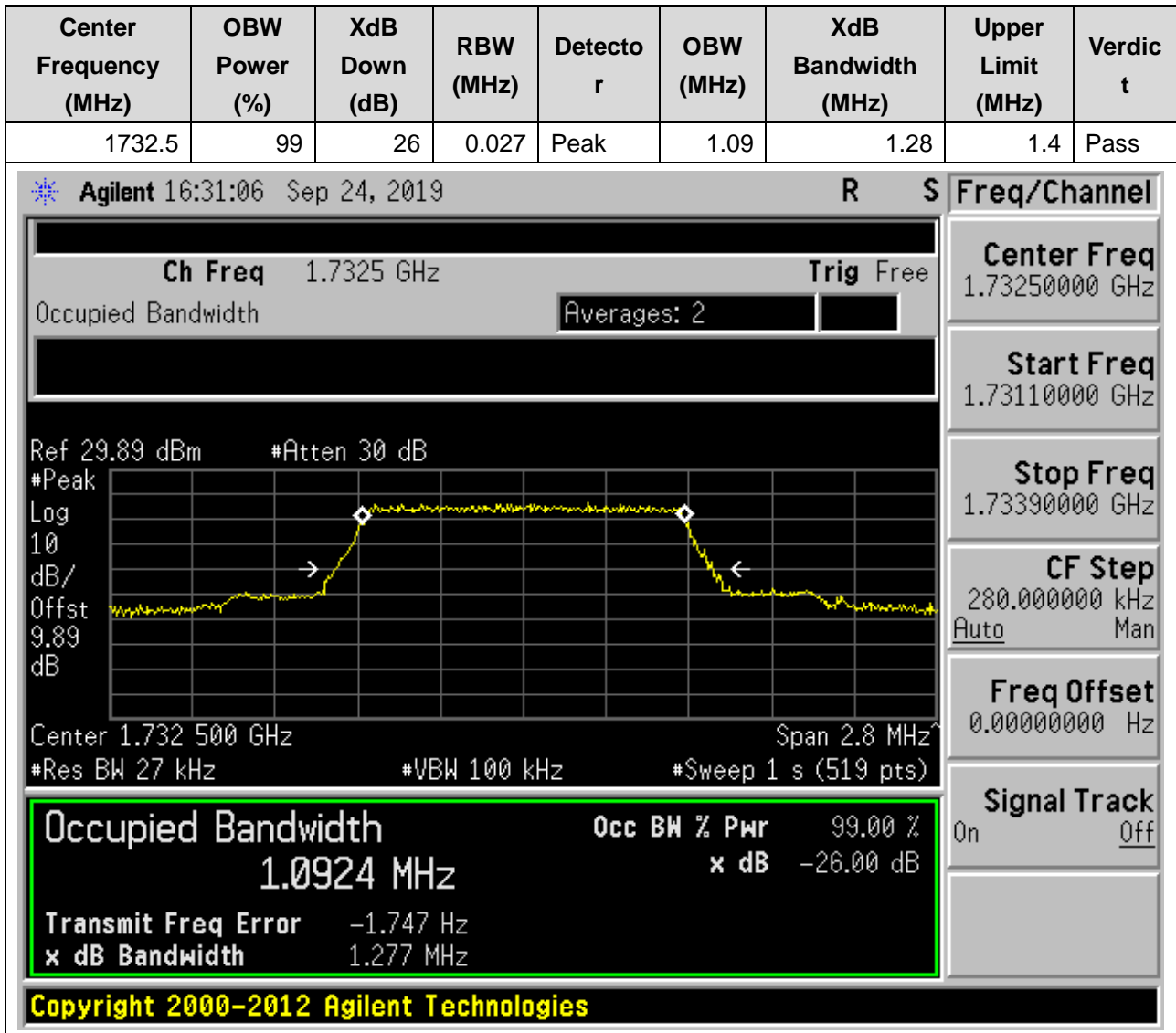
### 9.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:19957, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



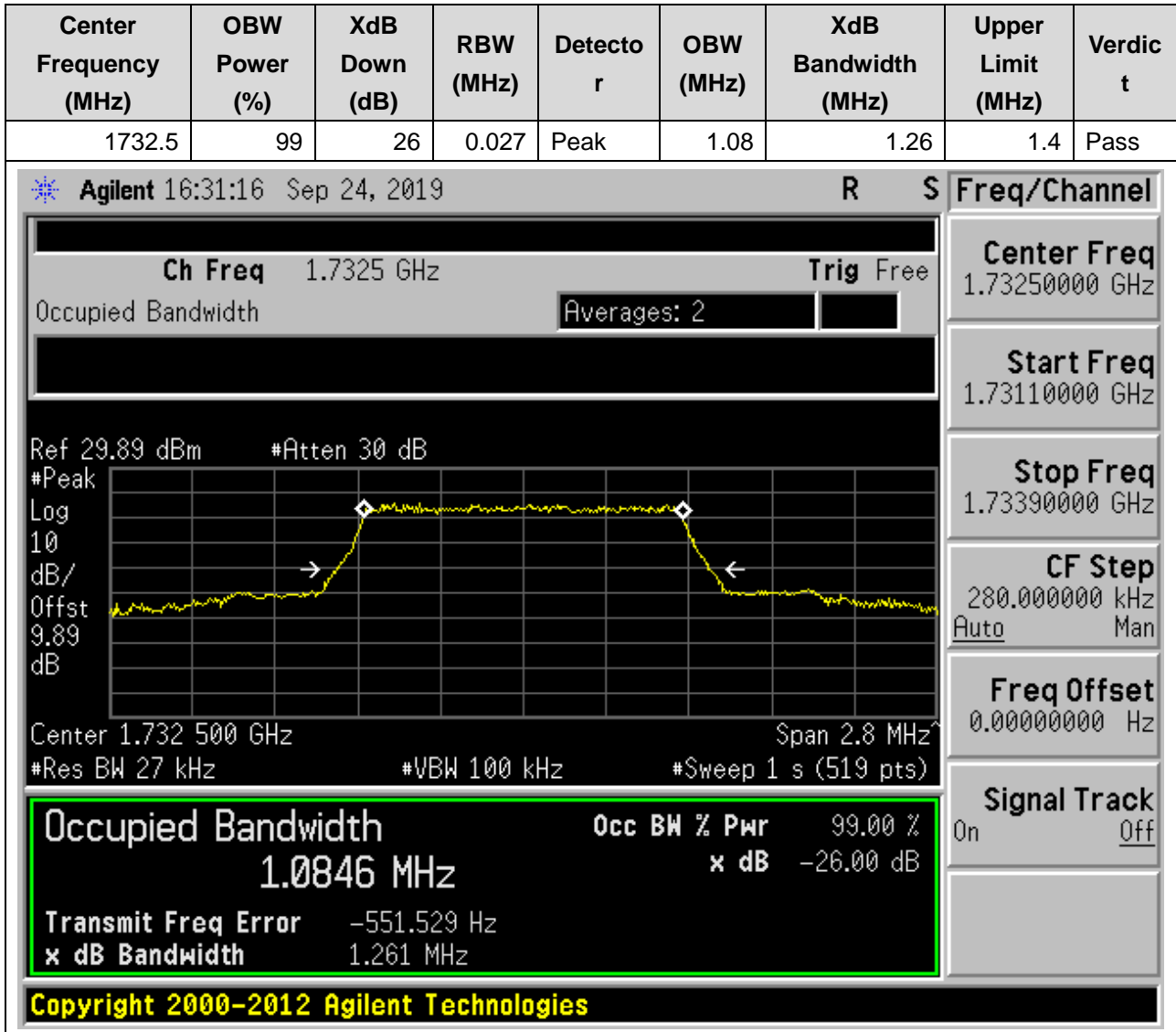
**9.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:19957, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



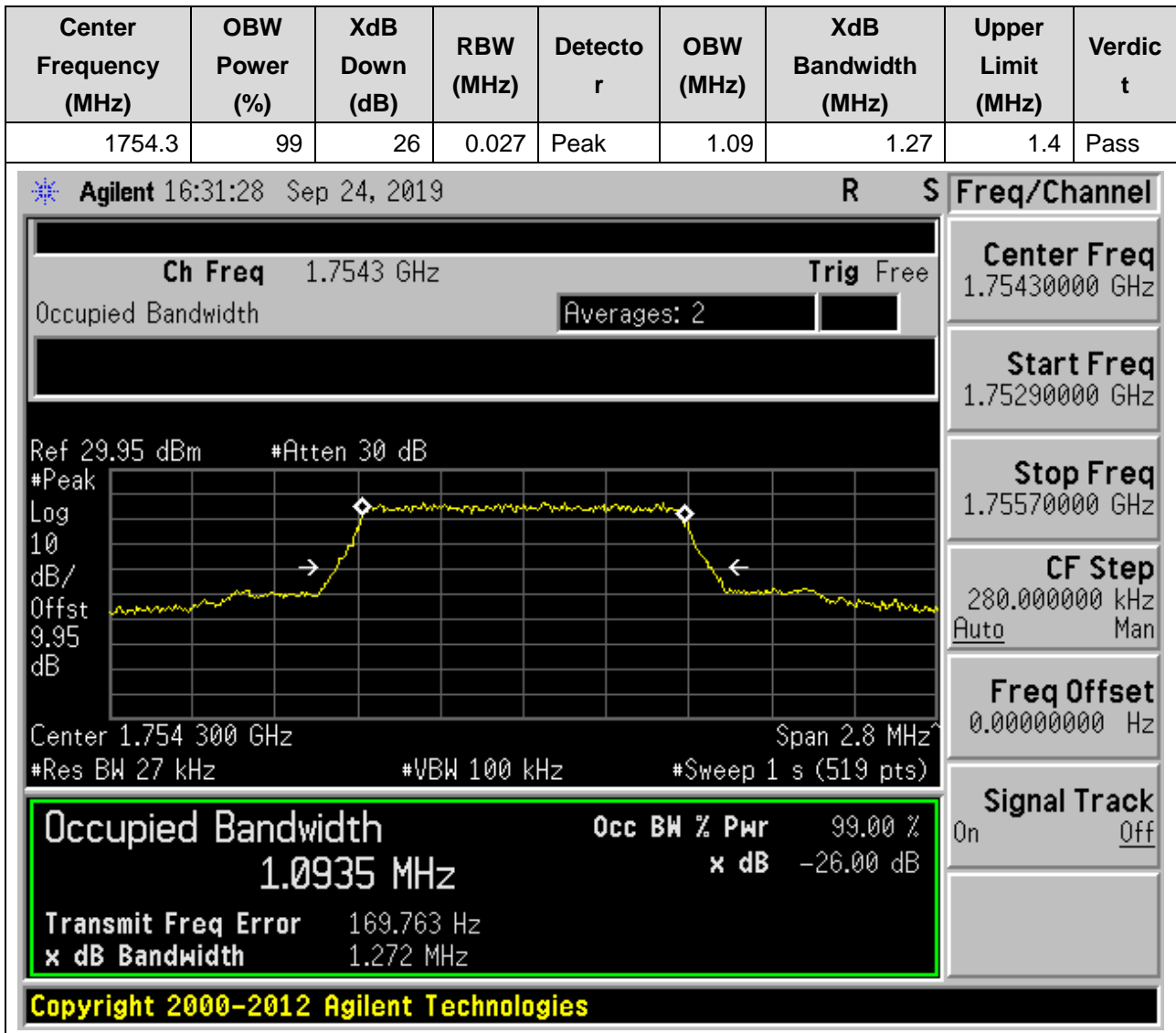
**9.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:20175, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



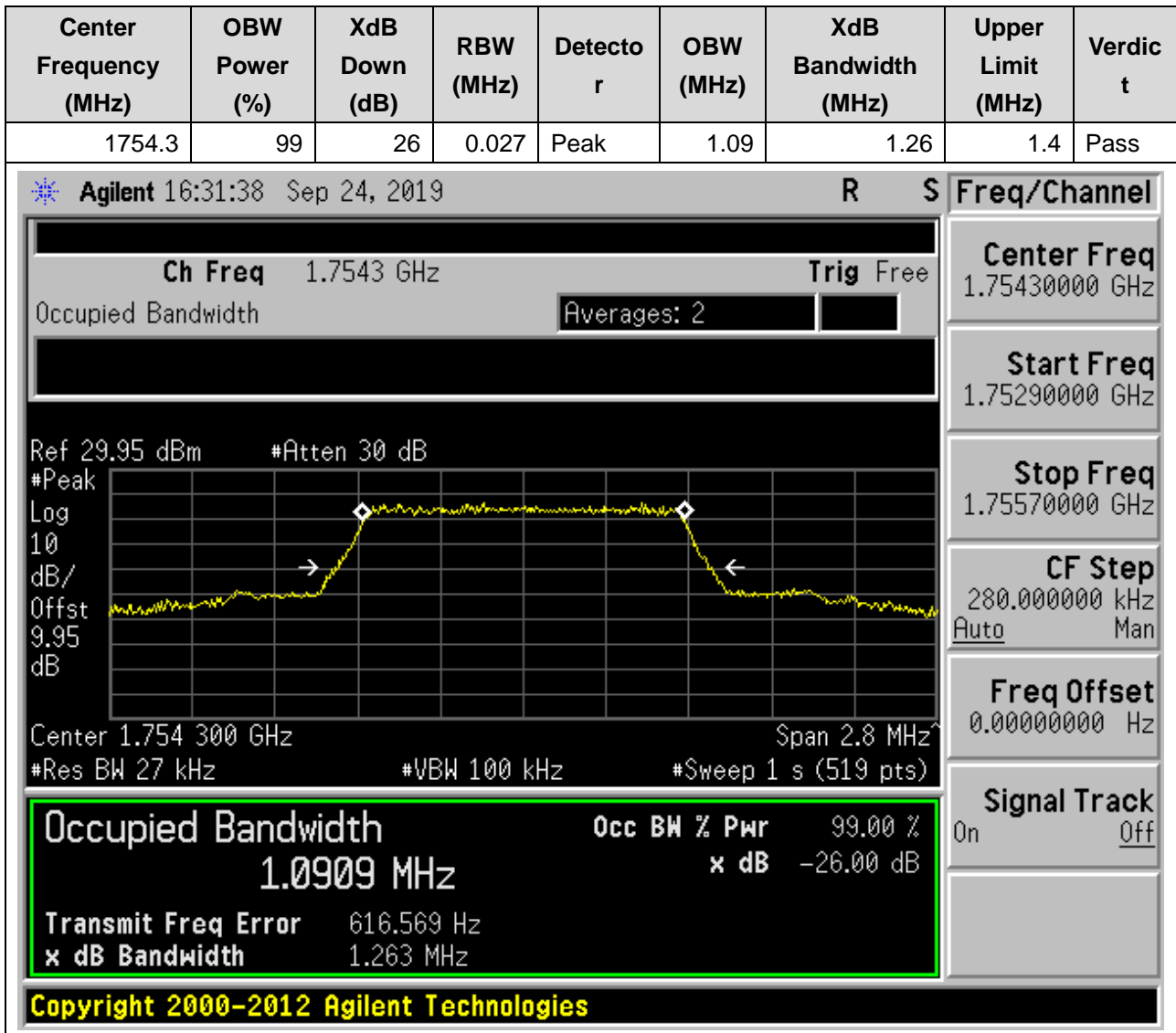
**9.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:20175, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



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

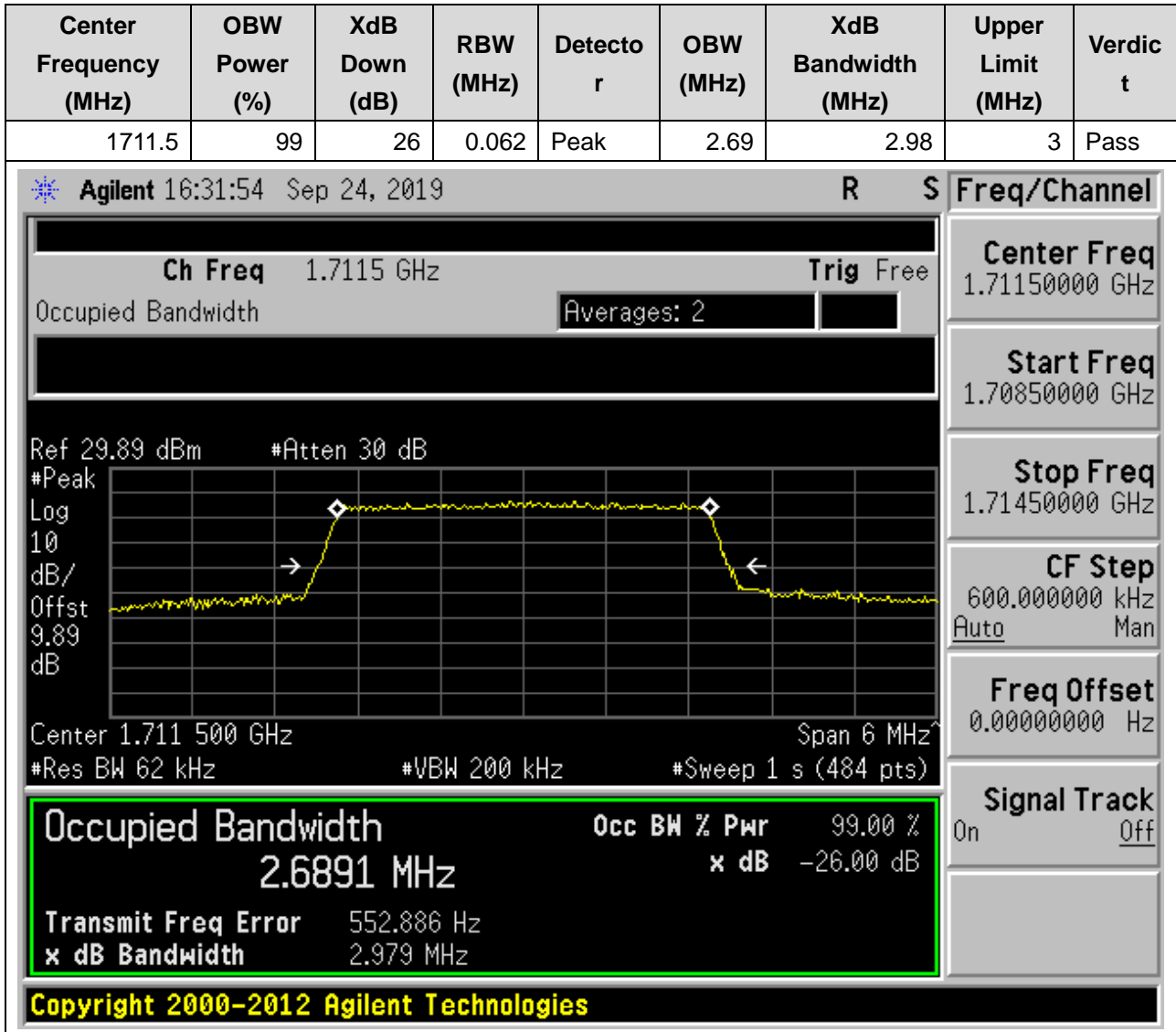


**9.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:20393, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

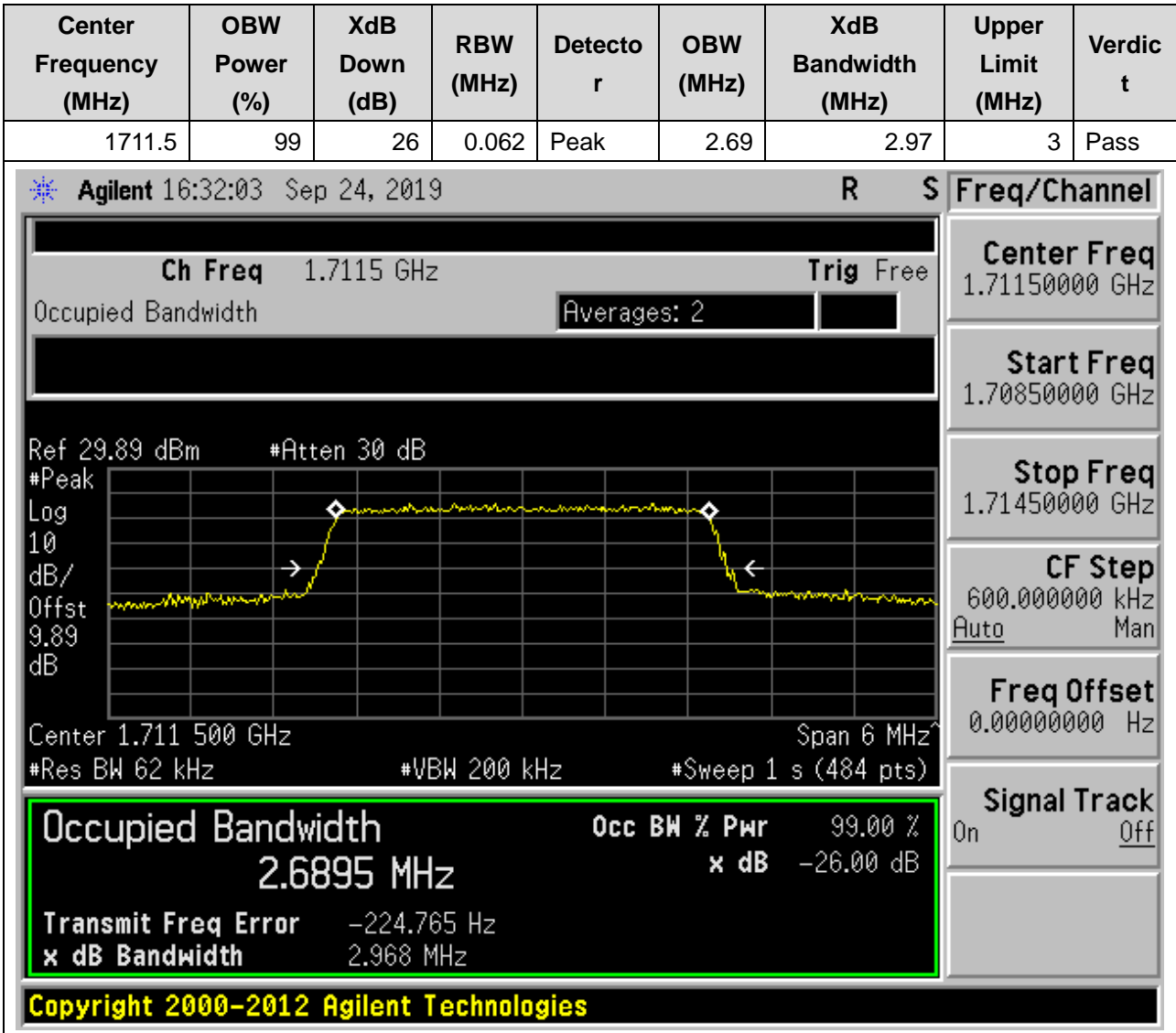




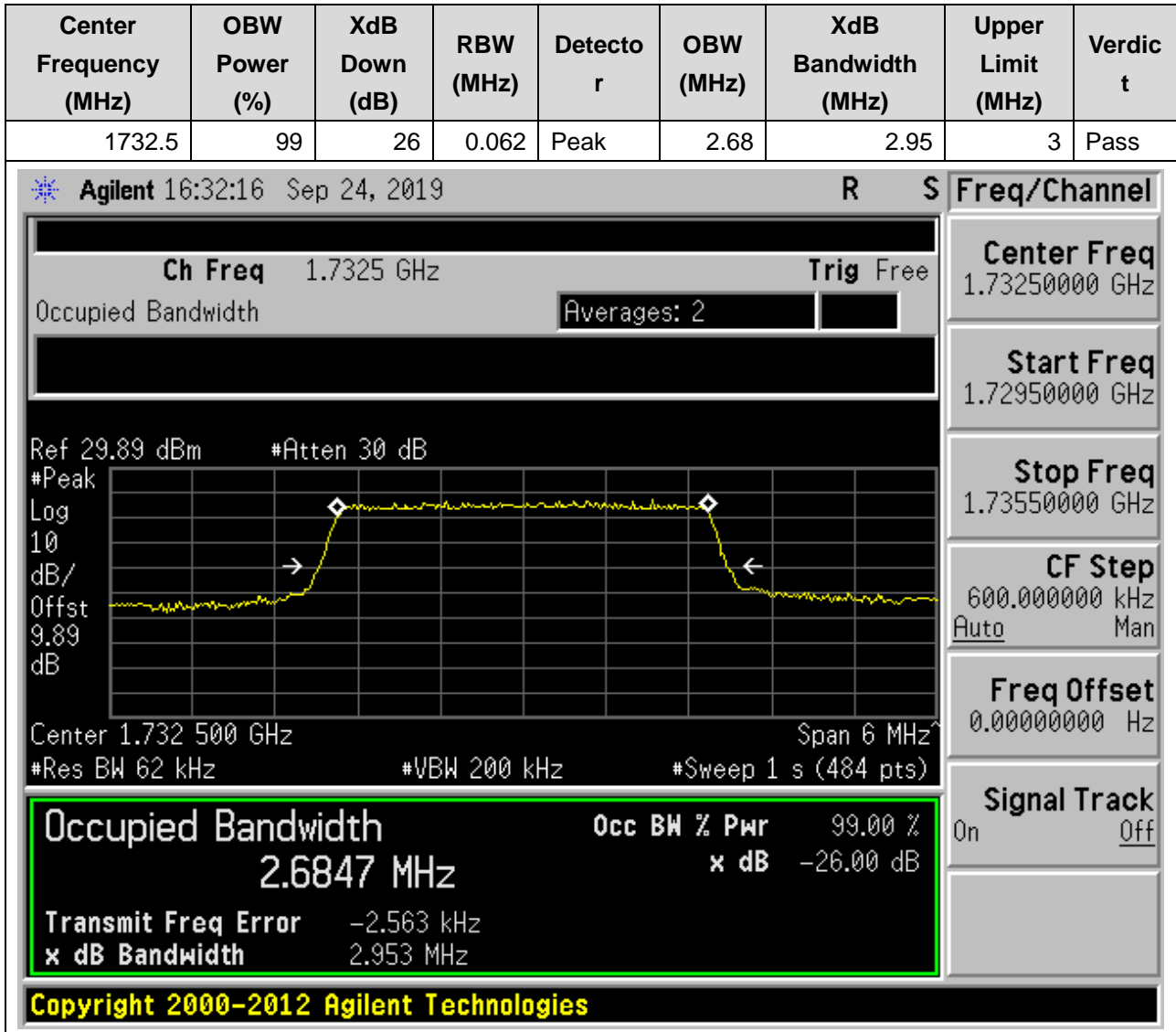
**9.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:19965, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



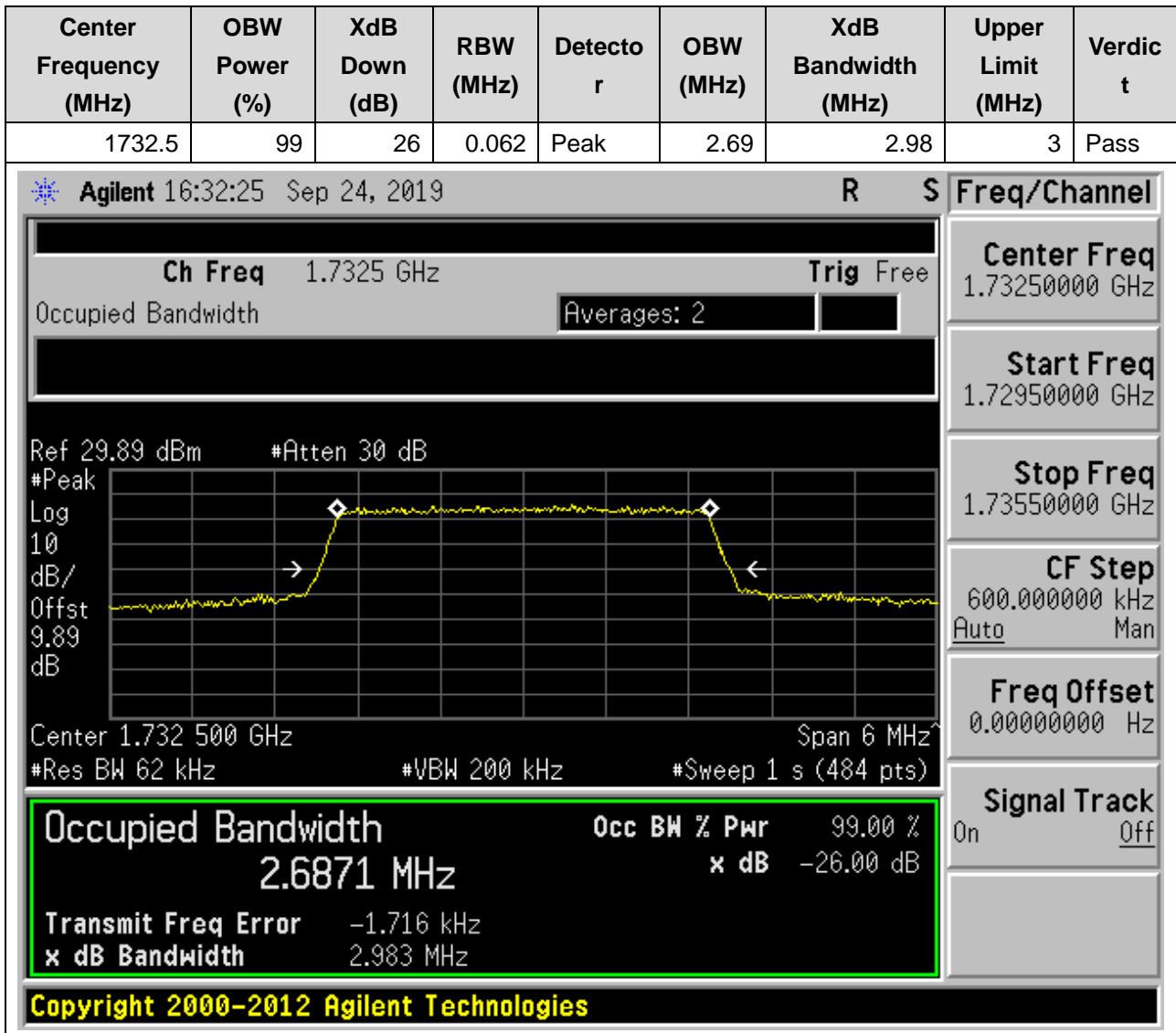
**9.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:19965, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



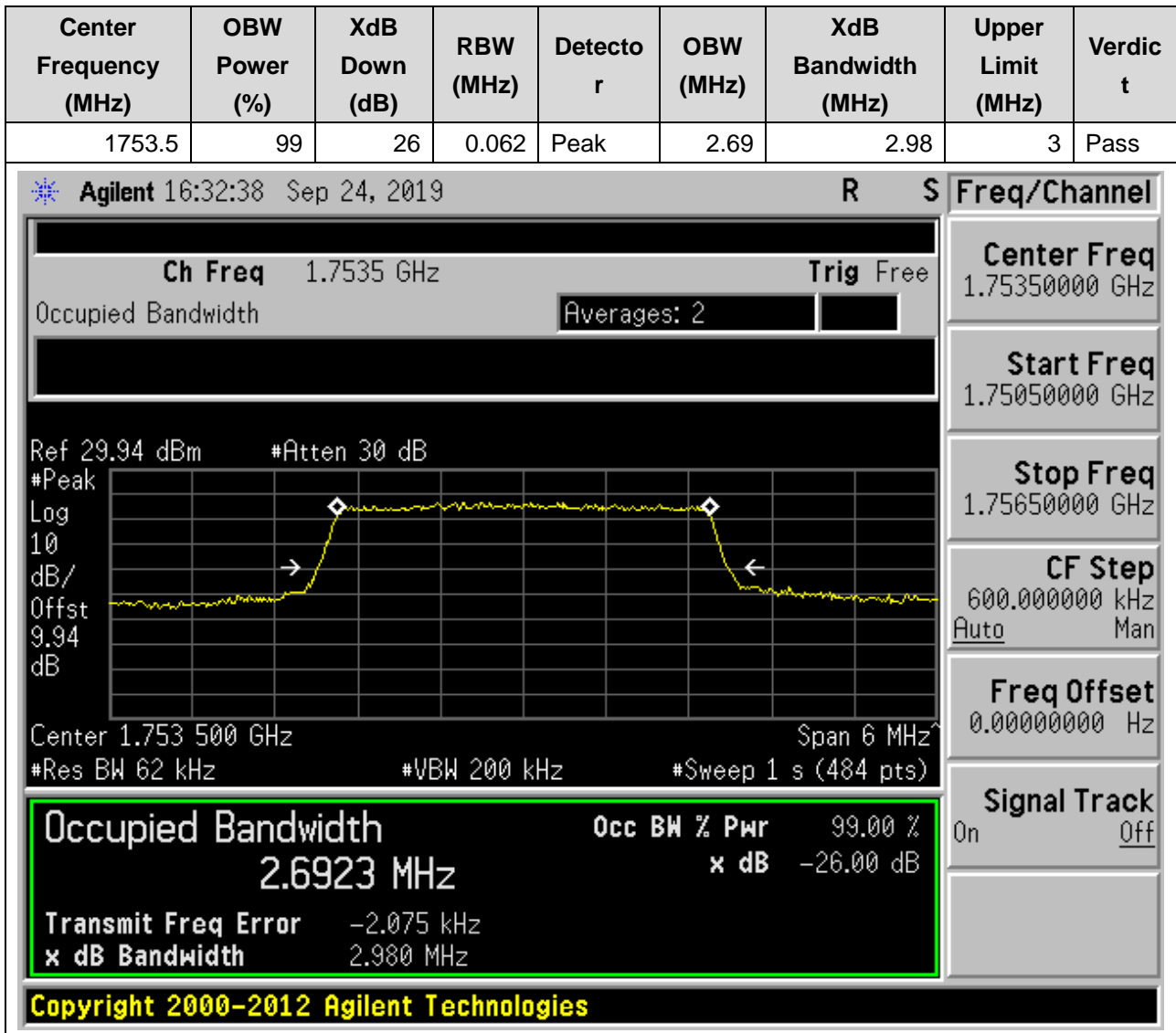
**9.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:20175, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



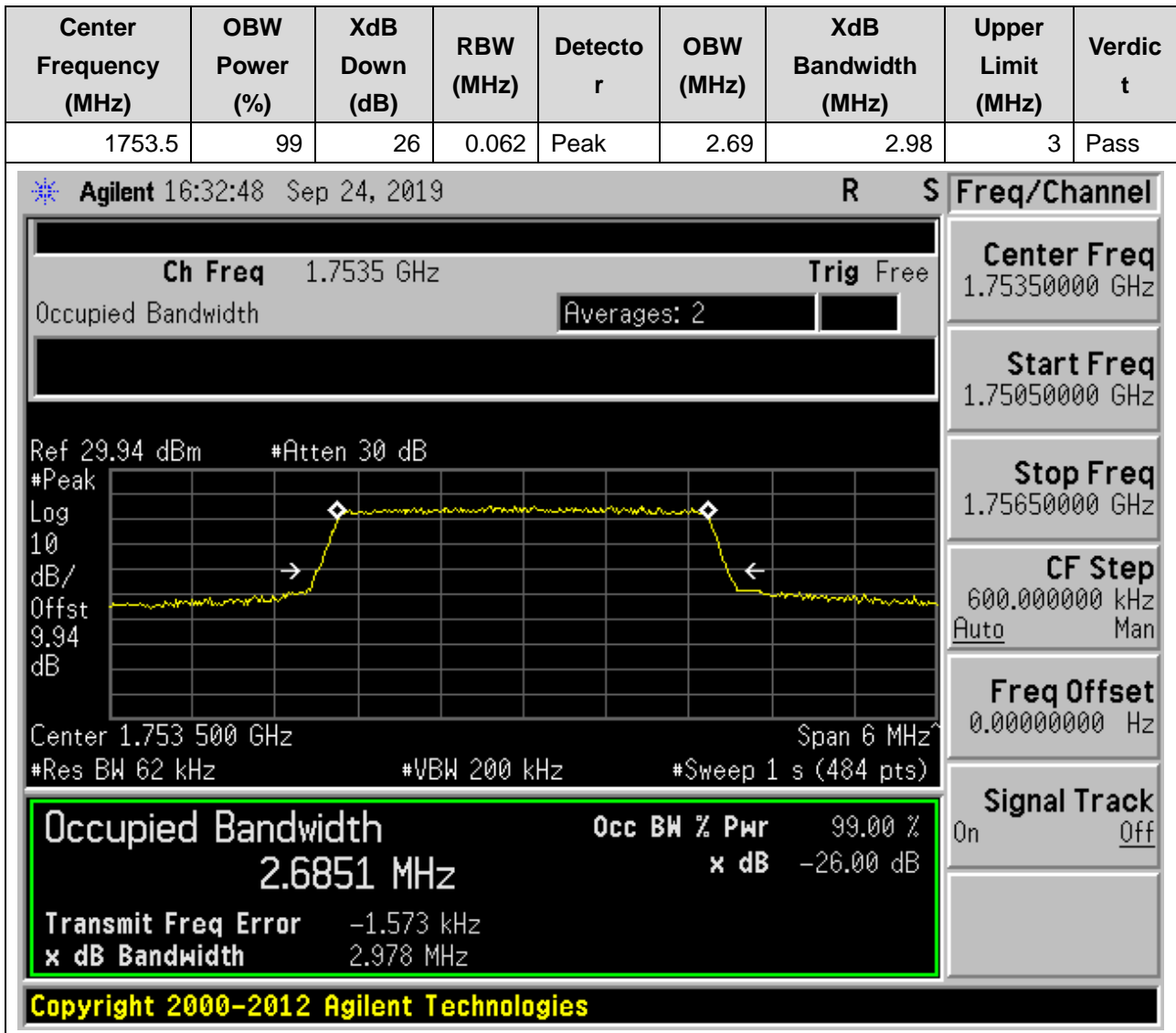
**9.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:20175, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



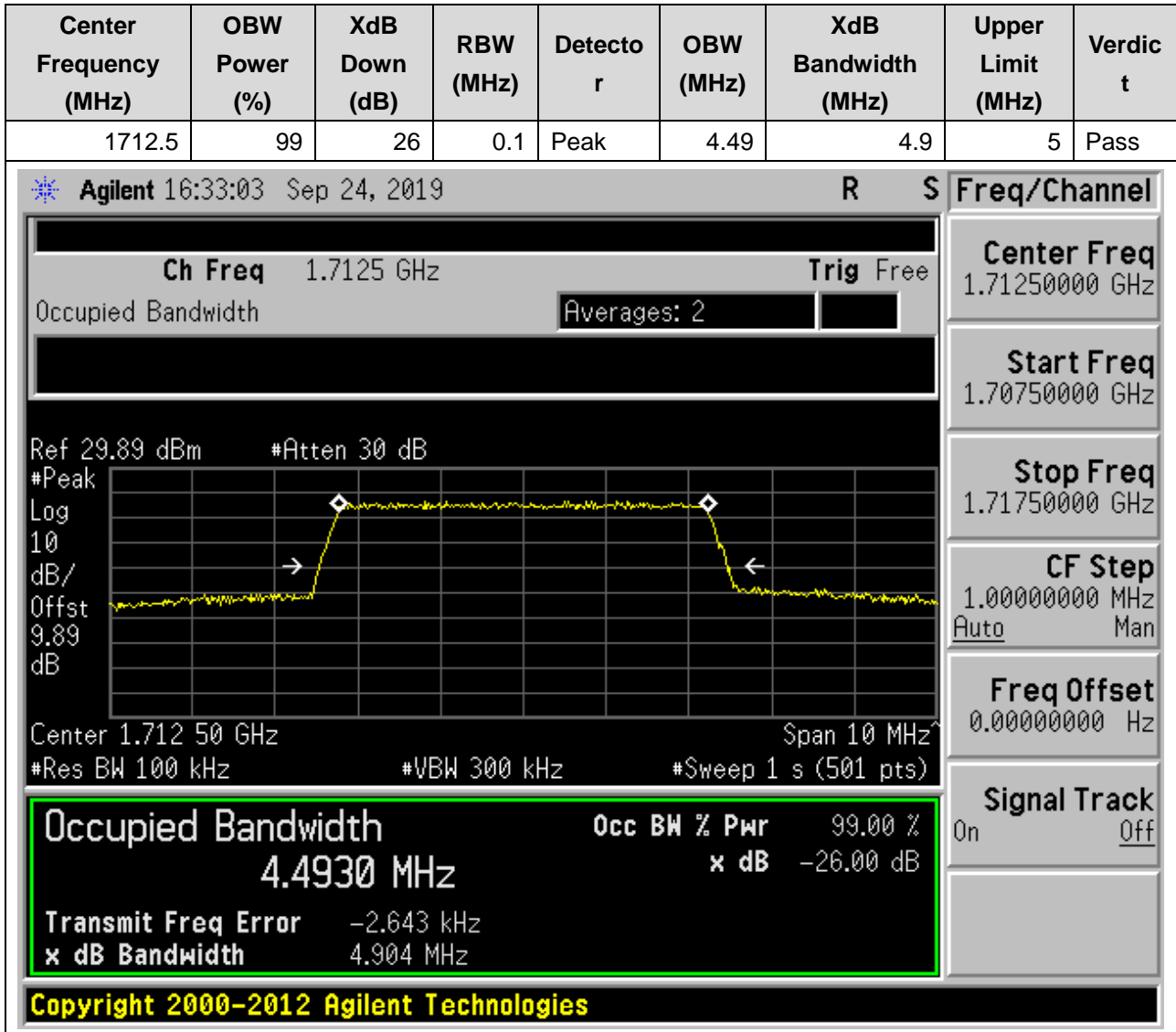
**9.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:20385, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



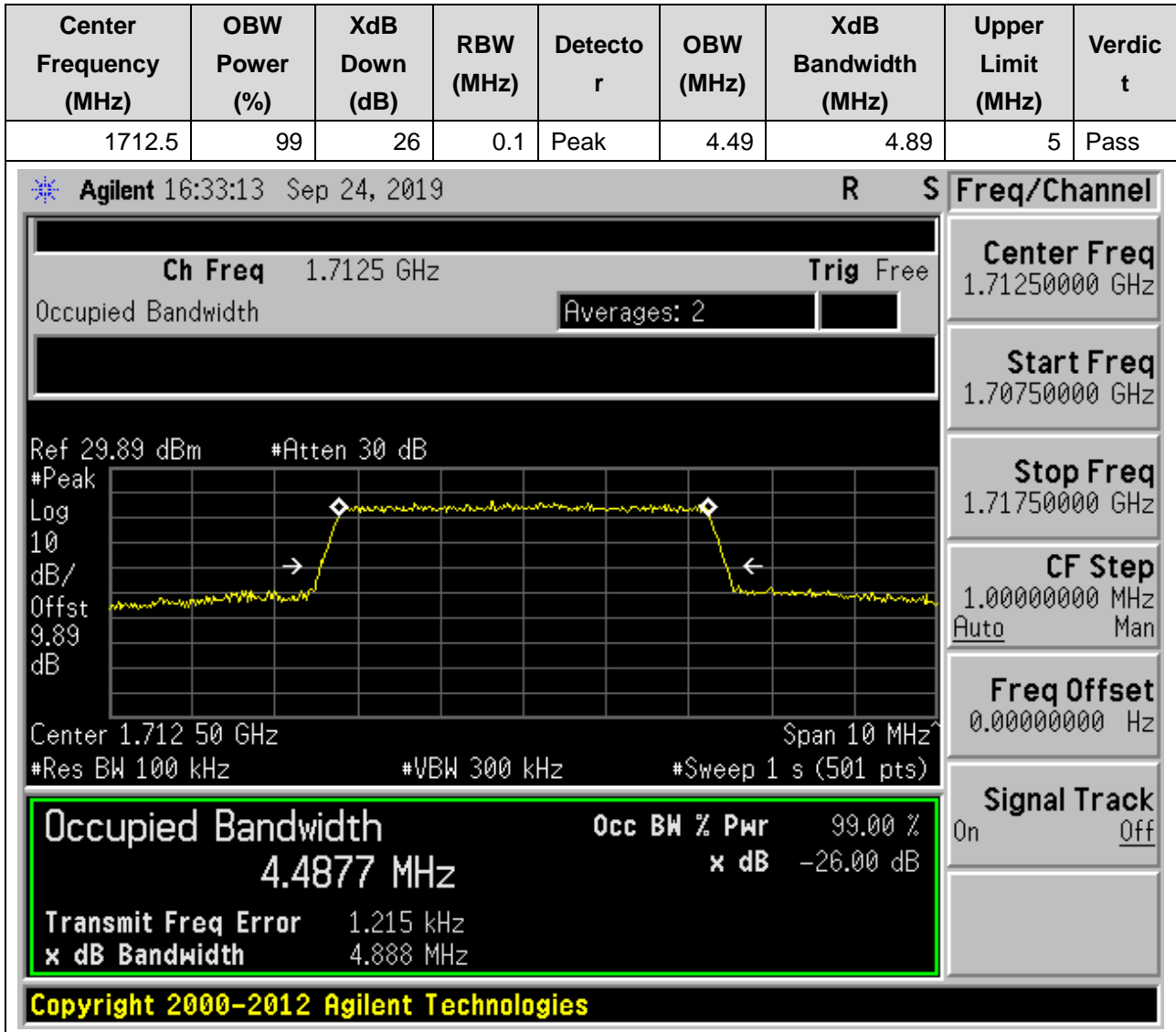
**9.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:20385, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



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

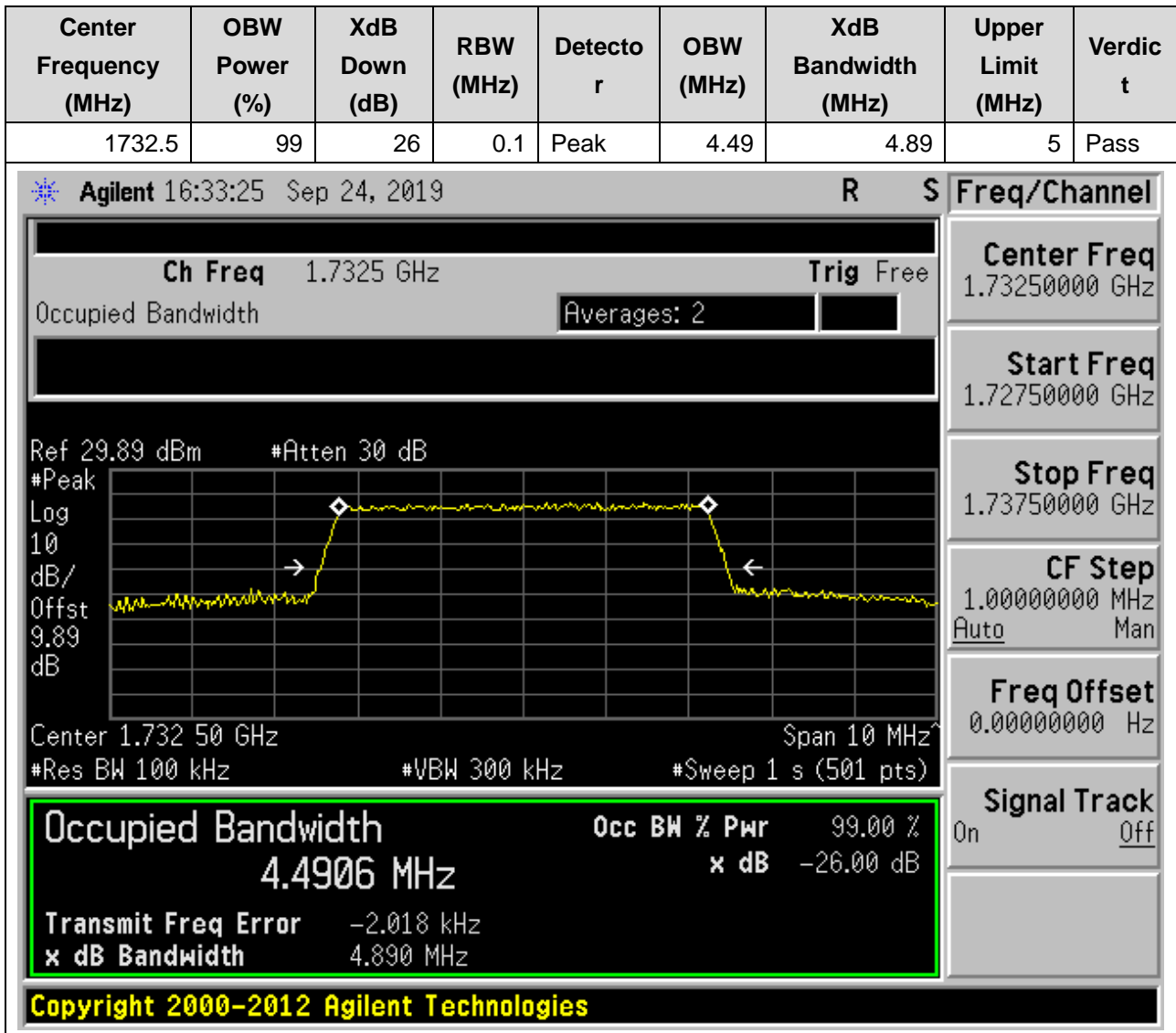


**9.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:19975, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

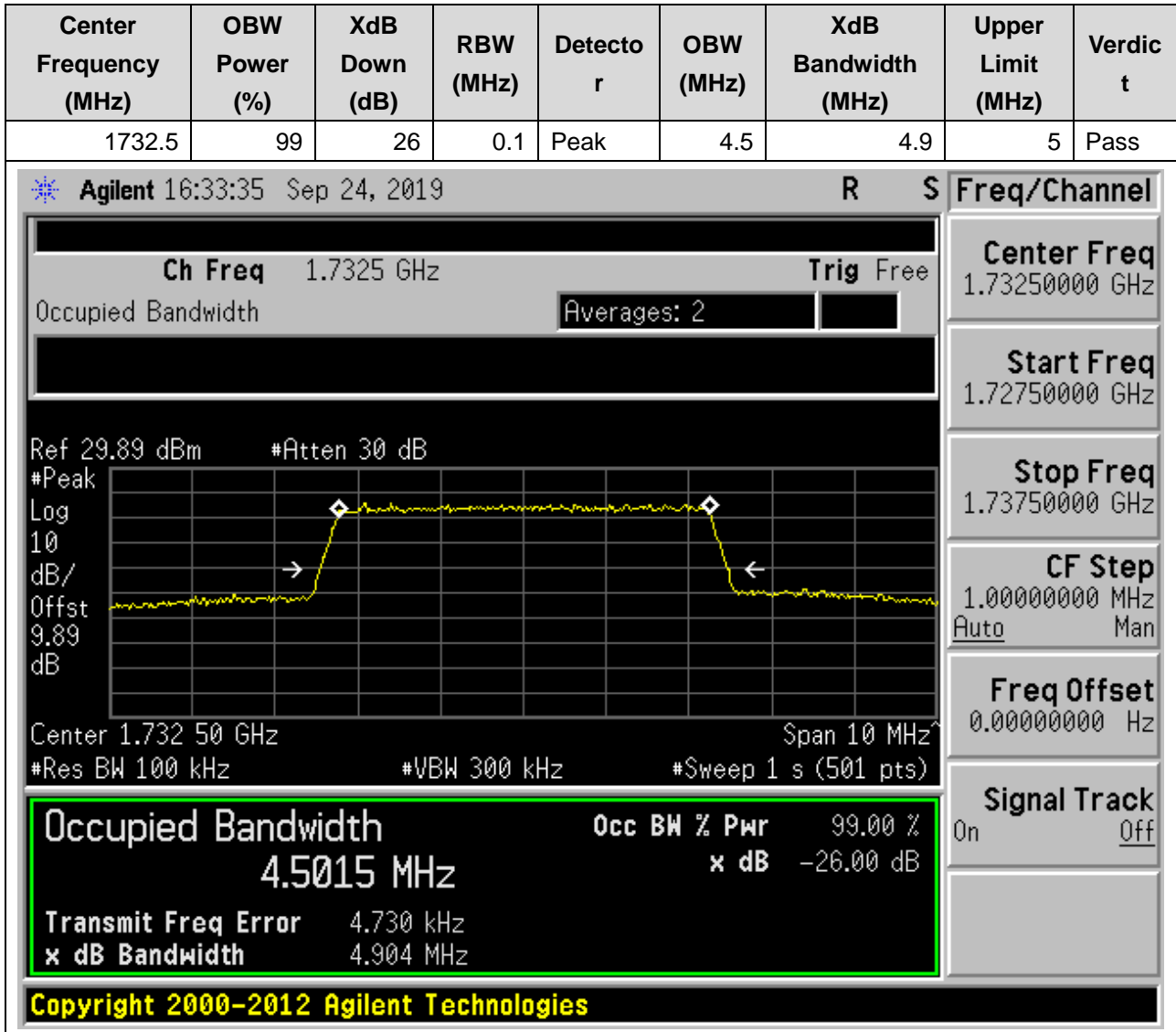




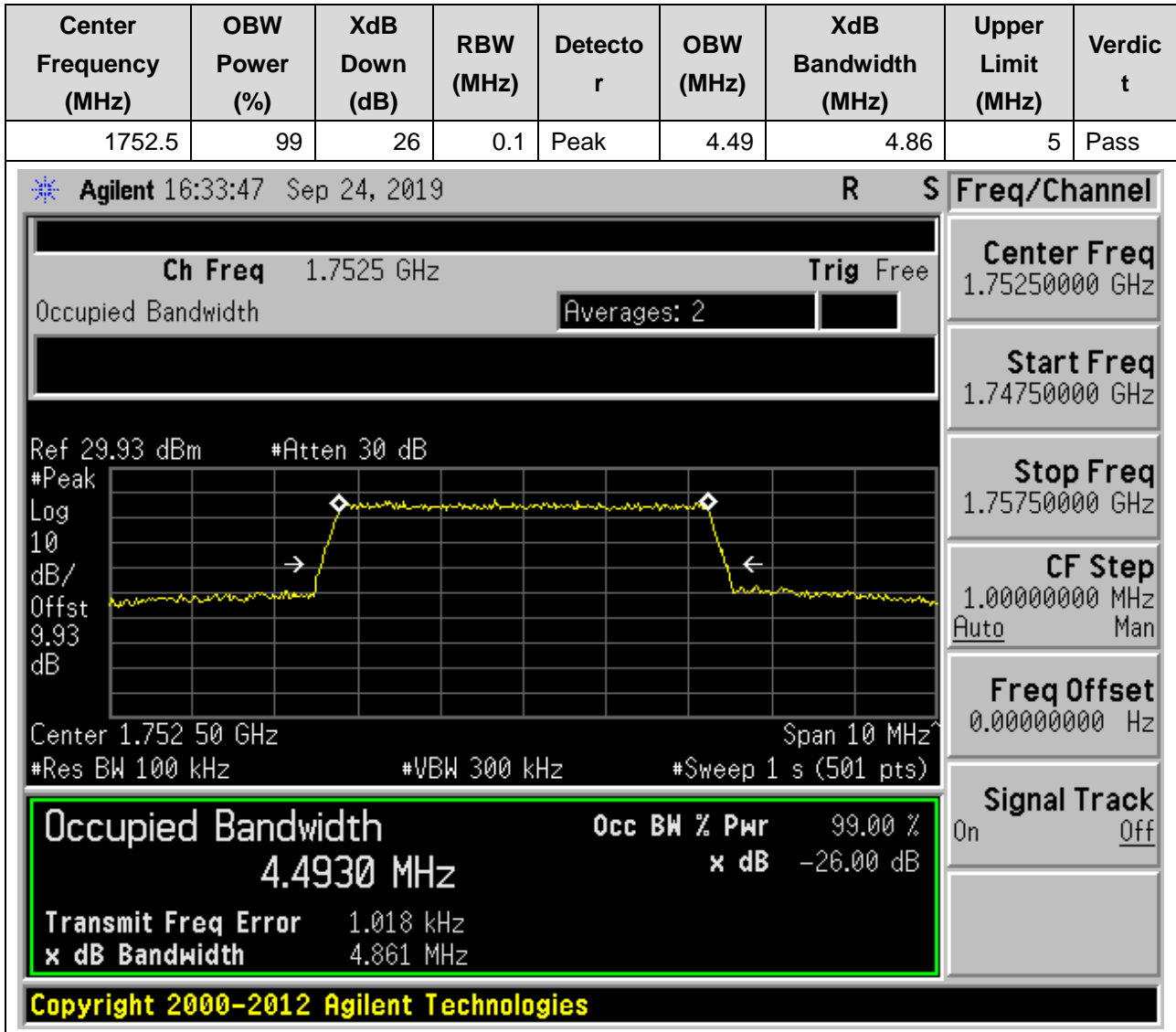
**9.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:20175, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



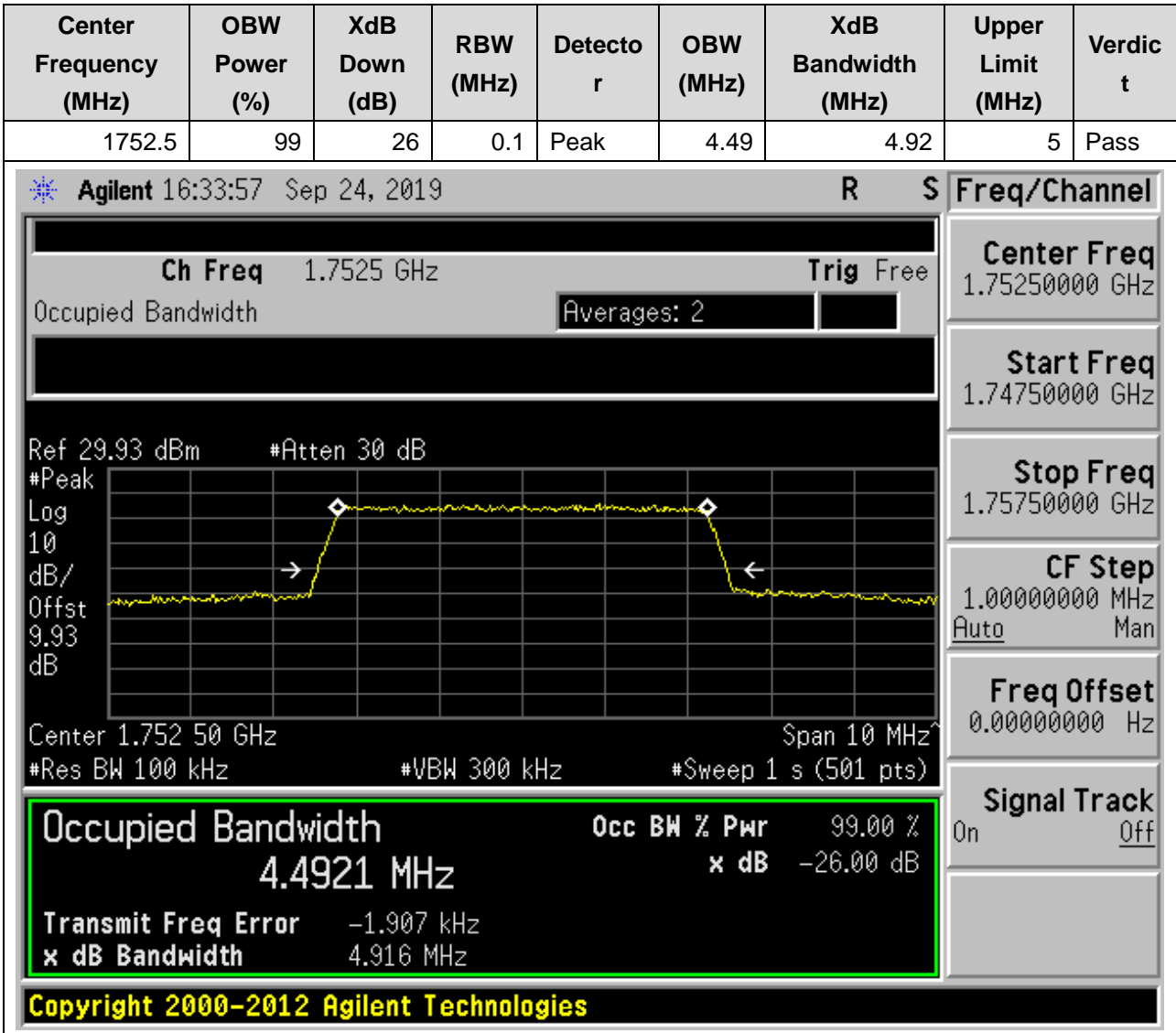
**9.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:20175, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



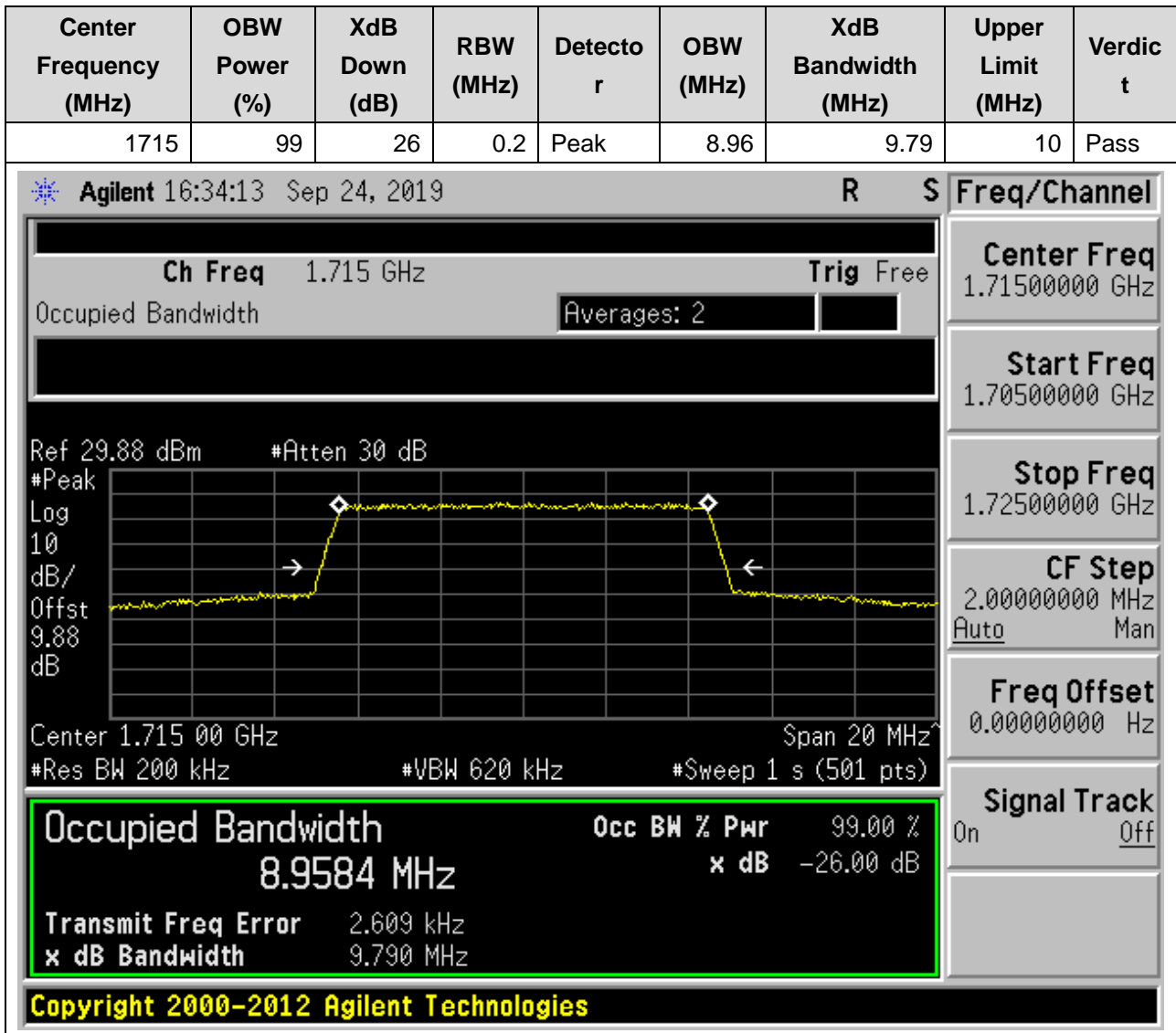
**9.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:20375, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



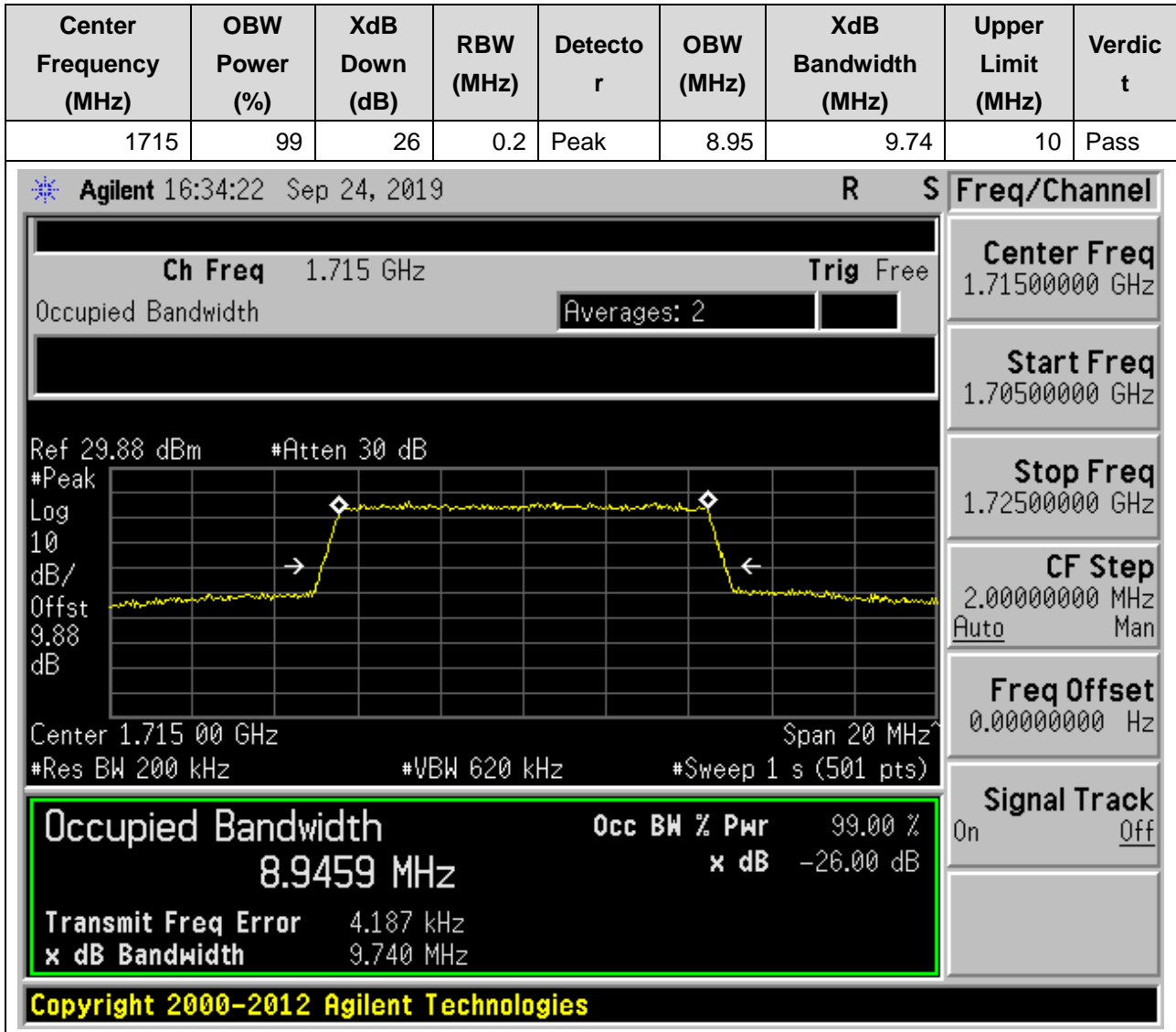
**9.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:20375, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



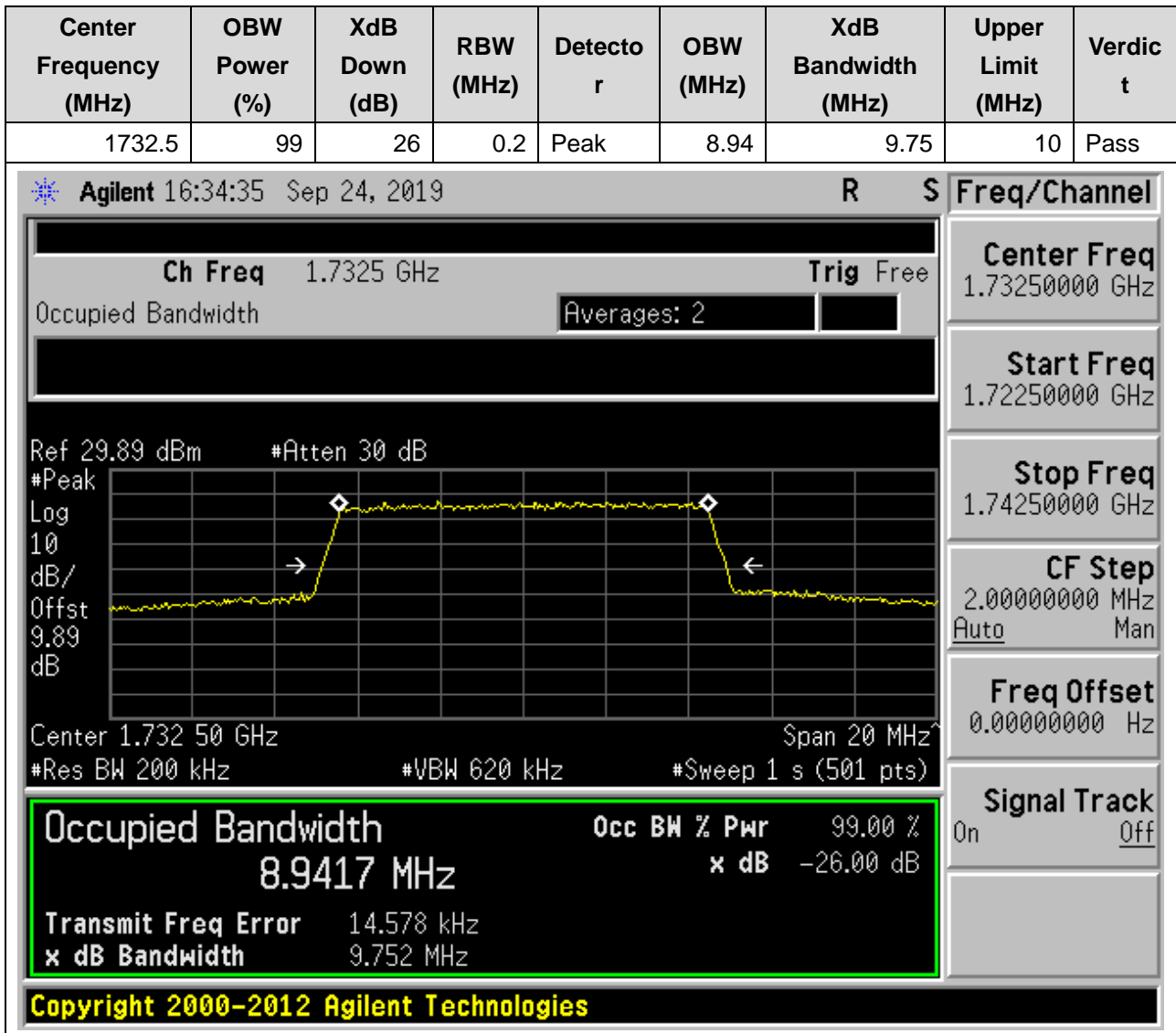
**9.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:20000, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



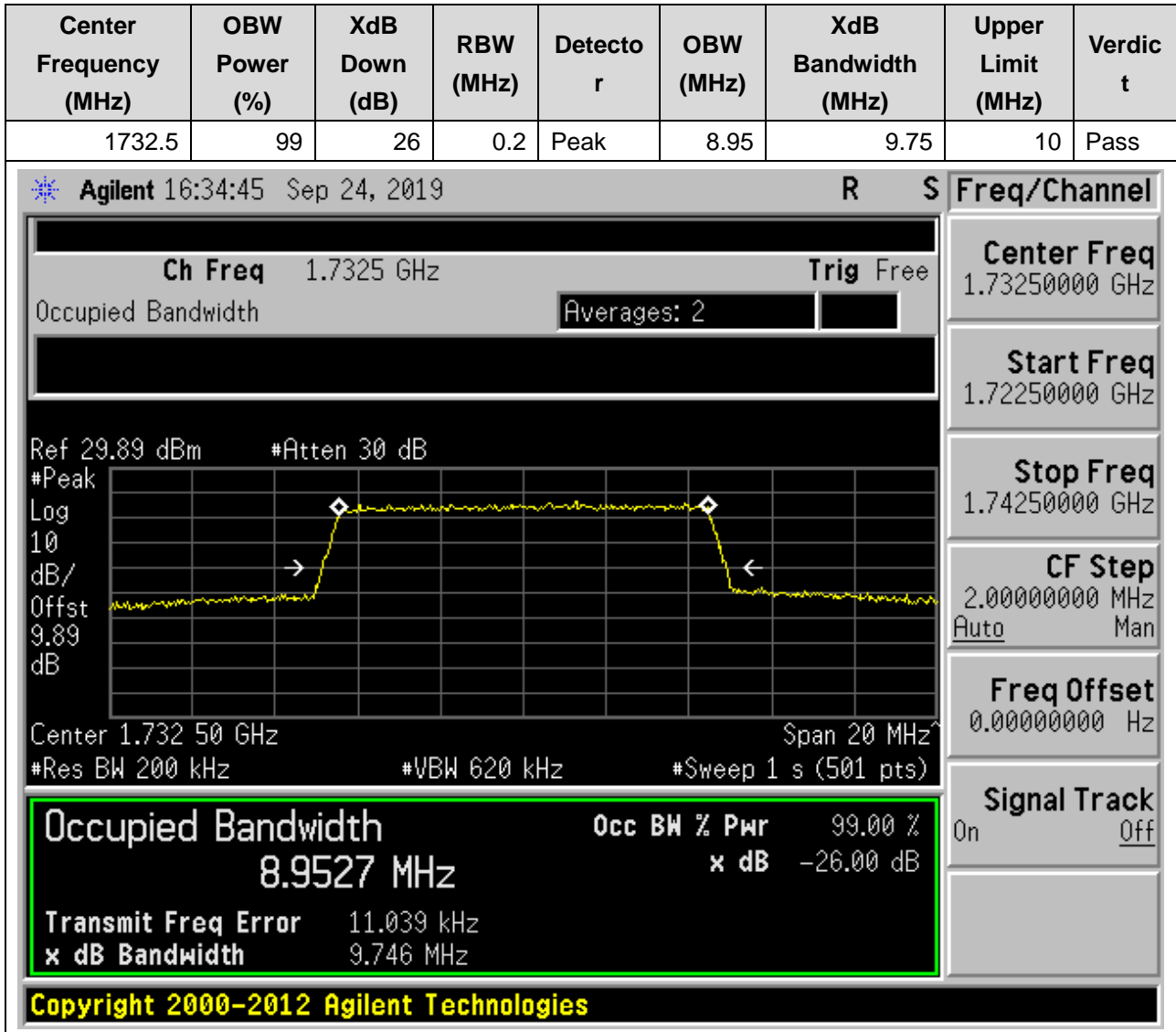
**9.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:20000, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



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

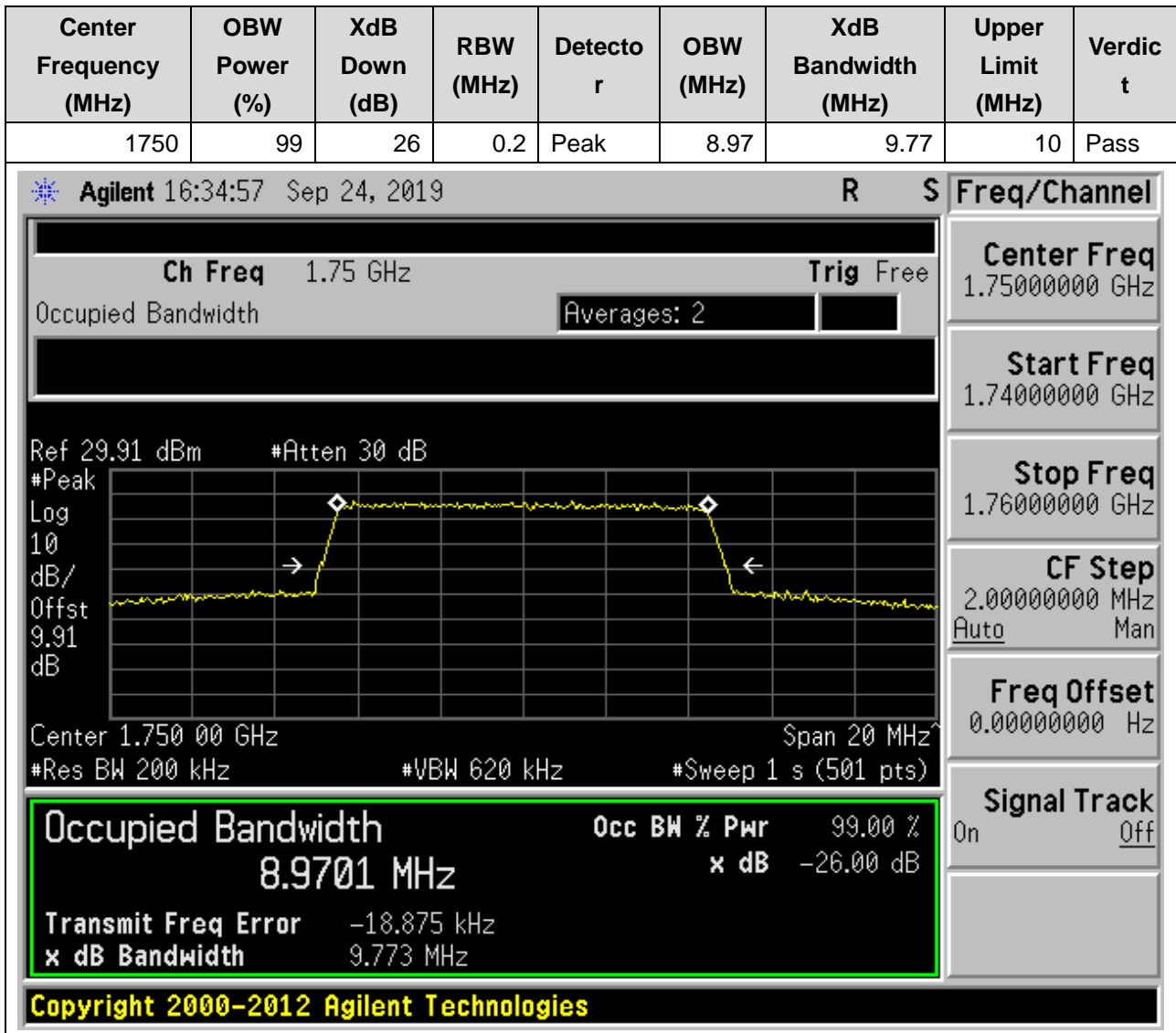


**9.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:20175, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

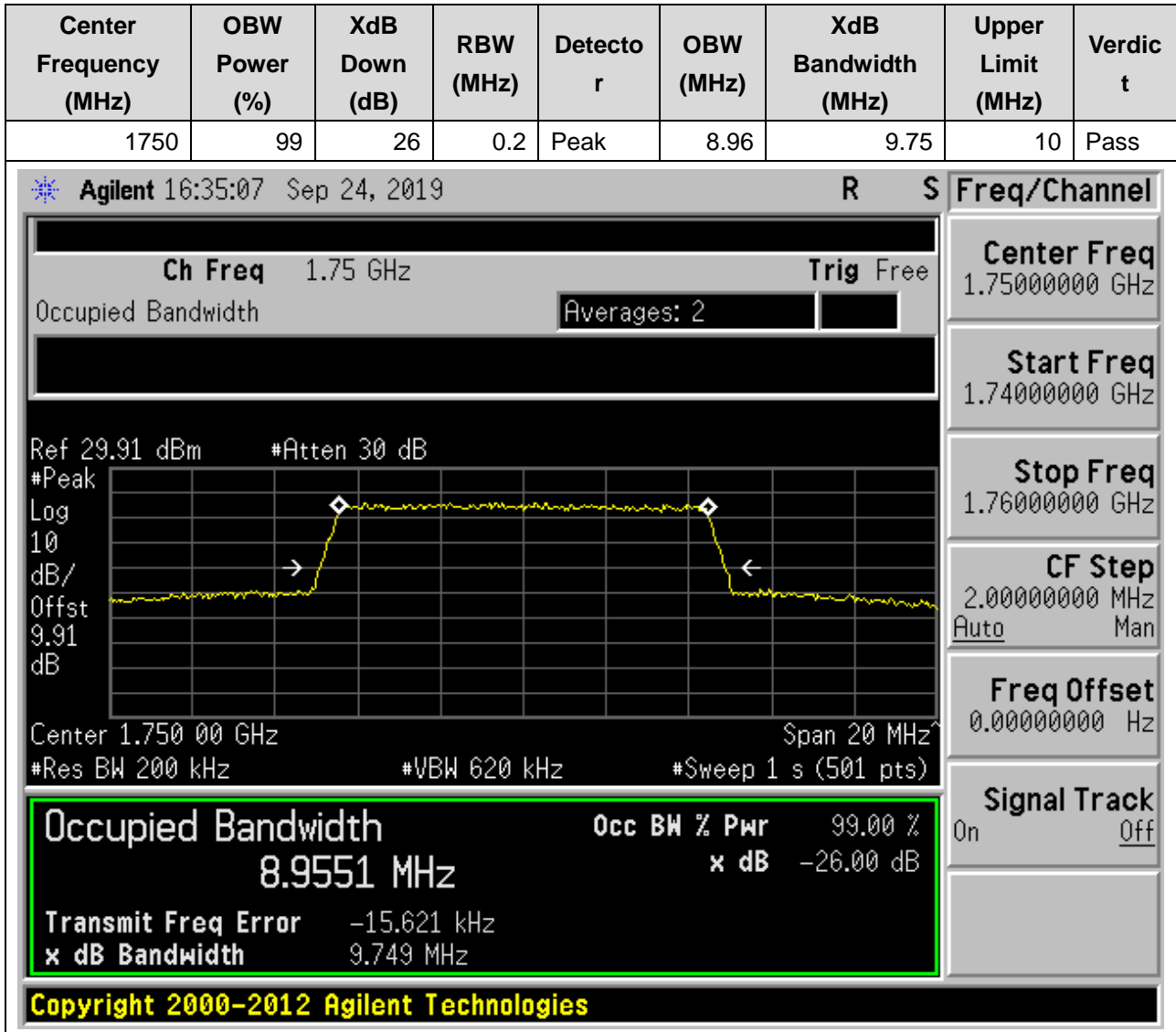




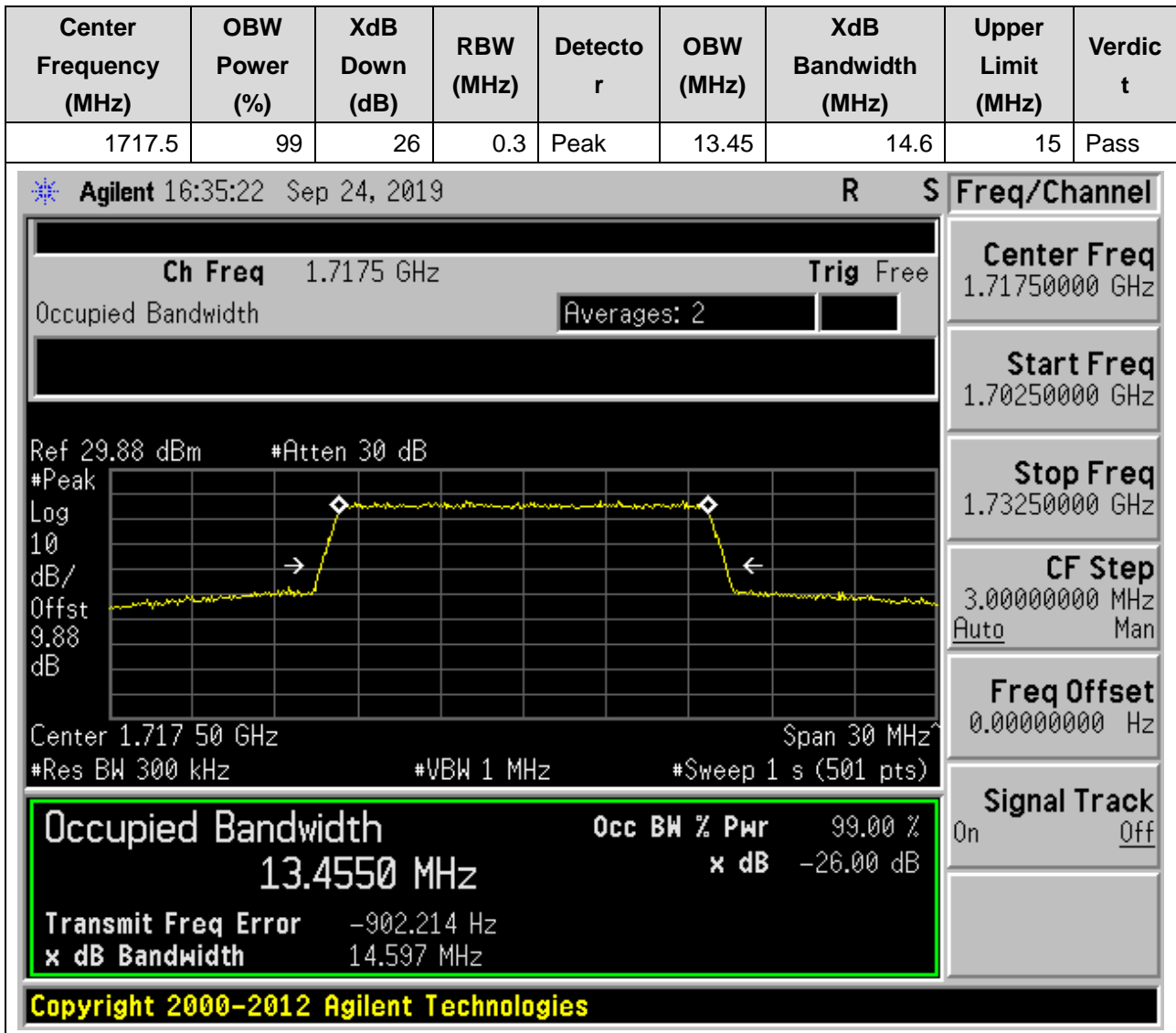
**9.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:20350, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



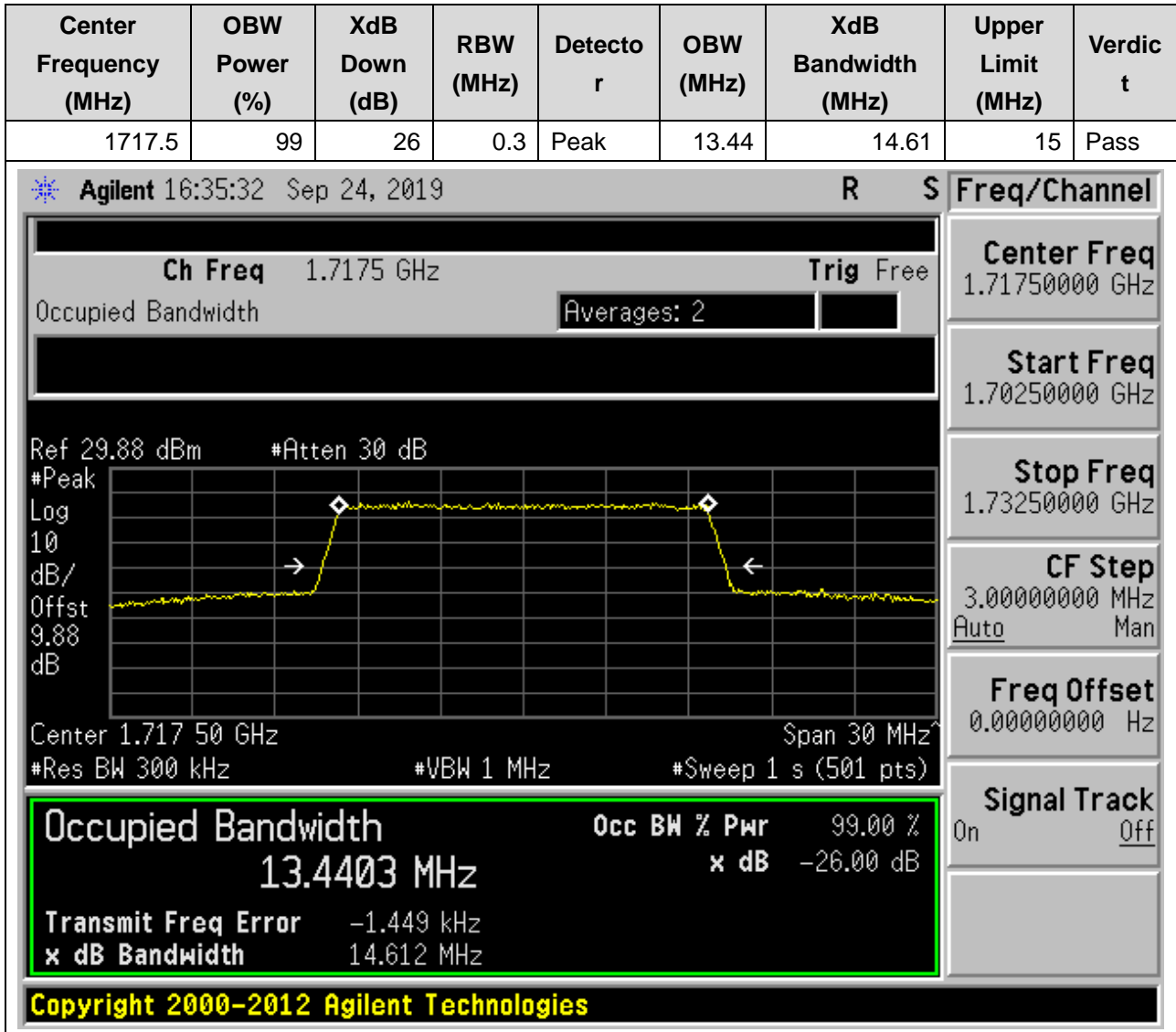
**9.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:20350, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



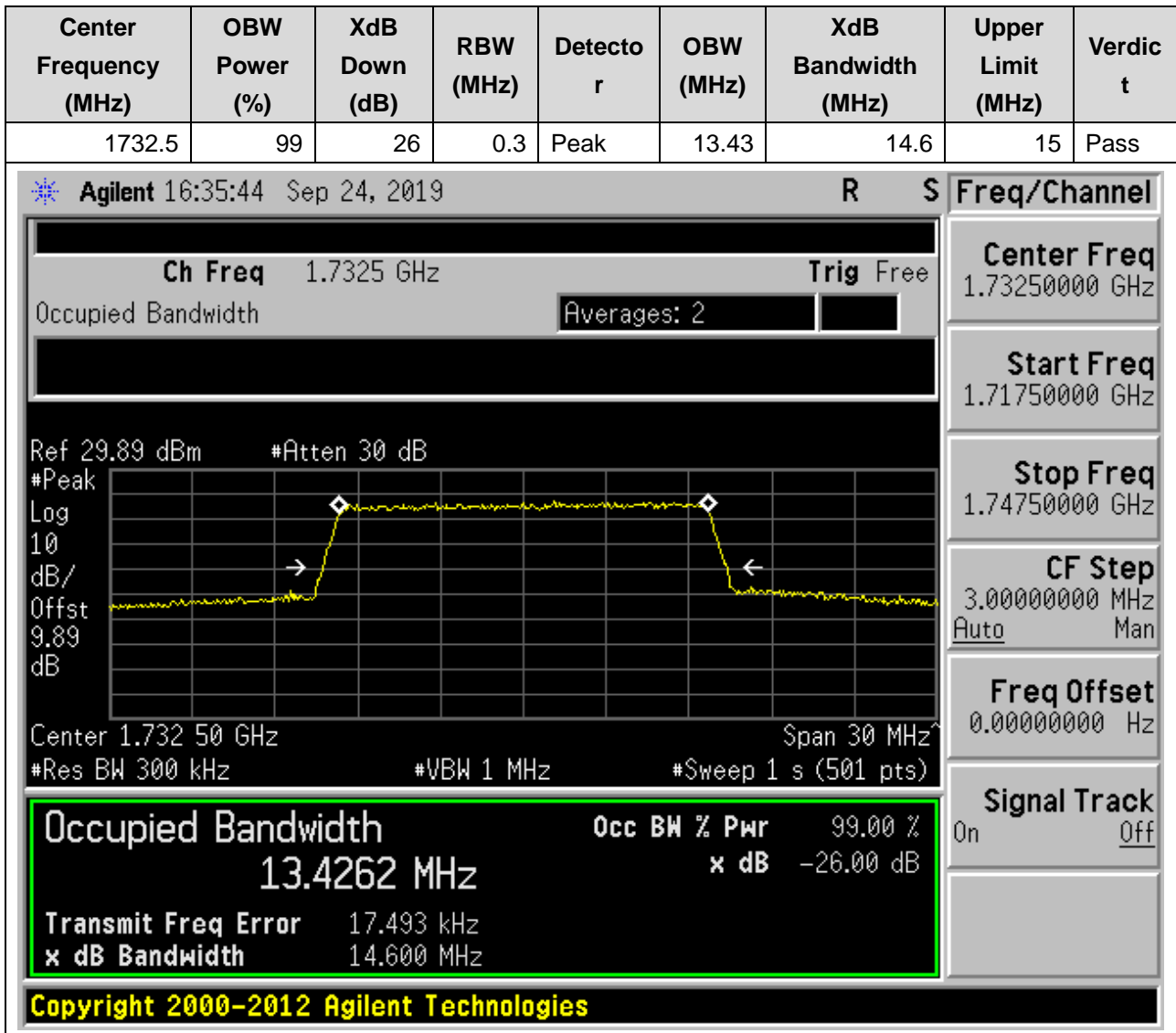
**9.25. LTE Occupied Bandwidth(NTNV)(Subtest:25, Channel:20025, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



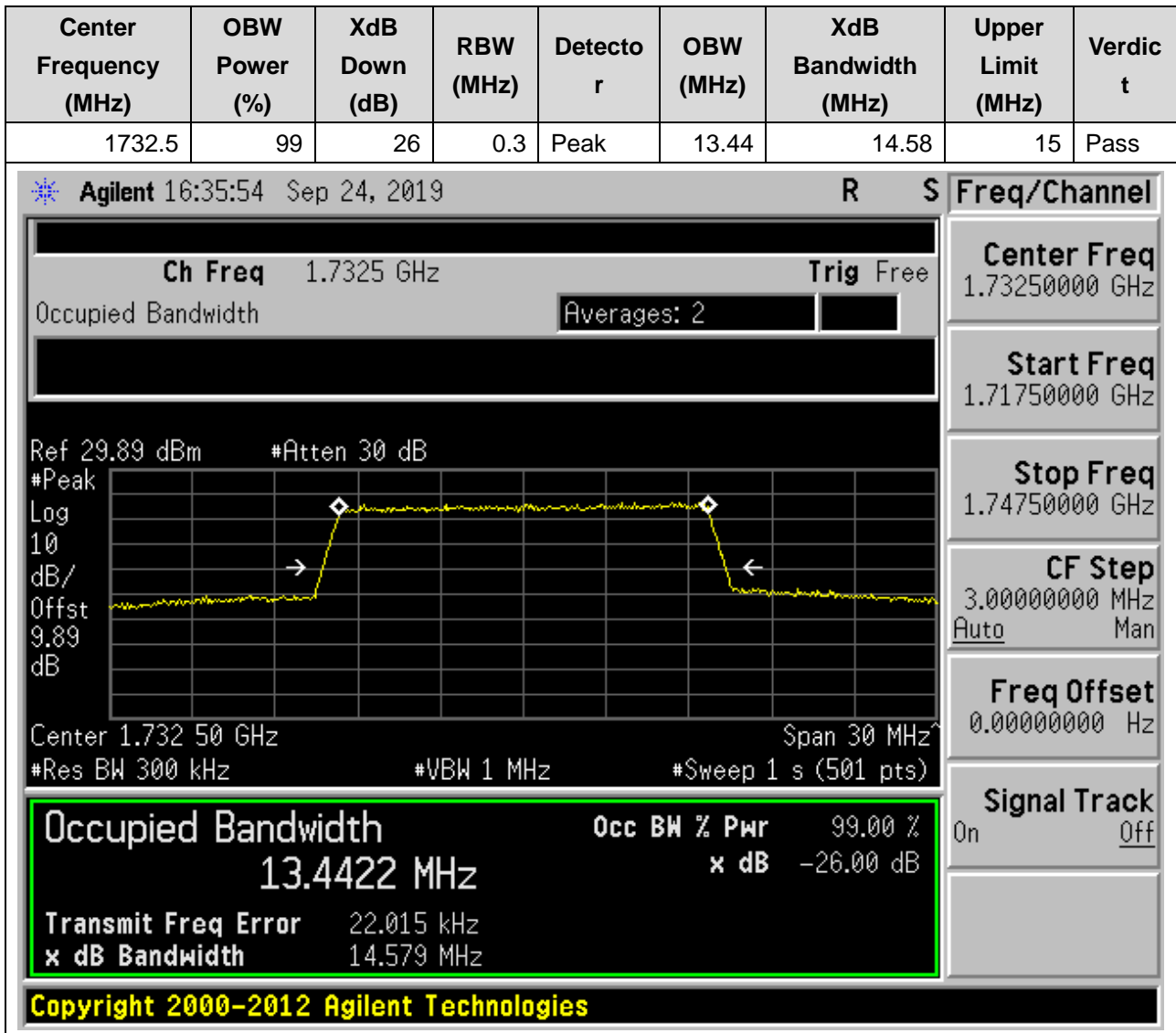
**9.26. LTE Occupied Bandwidth(NTNV)(Subtest:26, Channel:20025, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



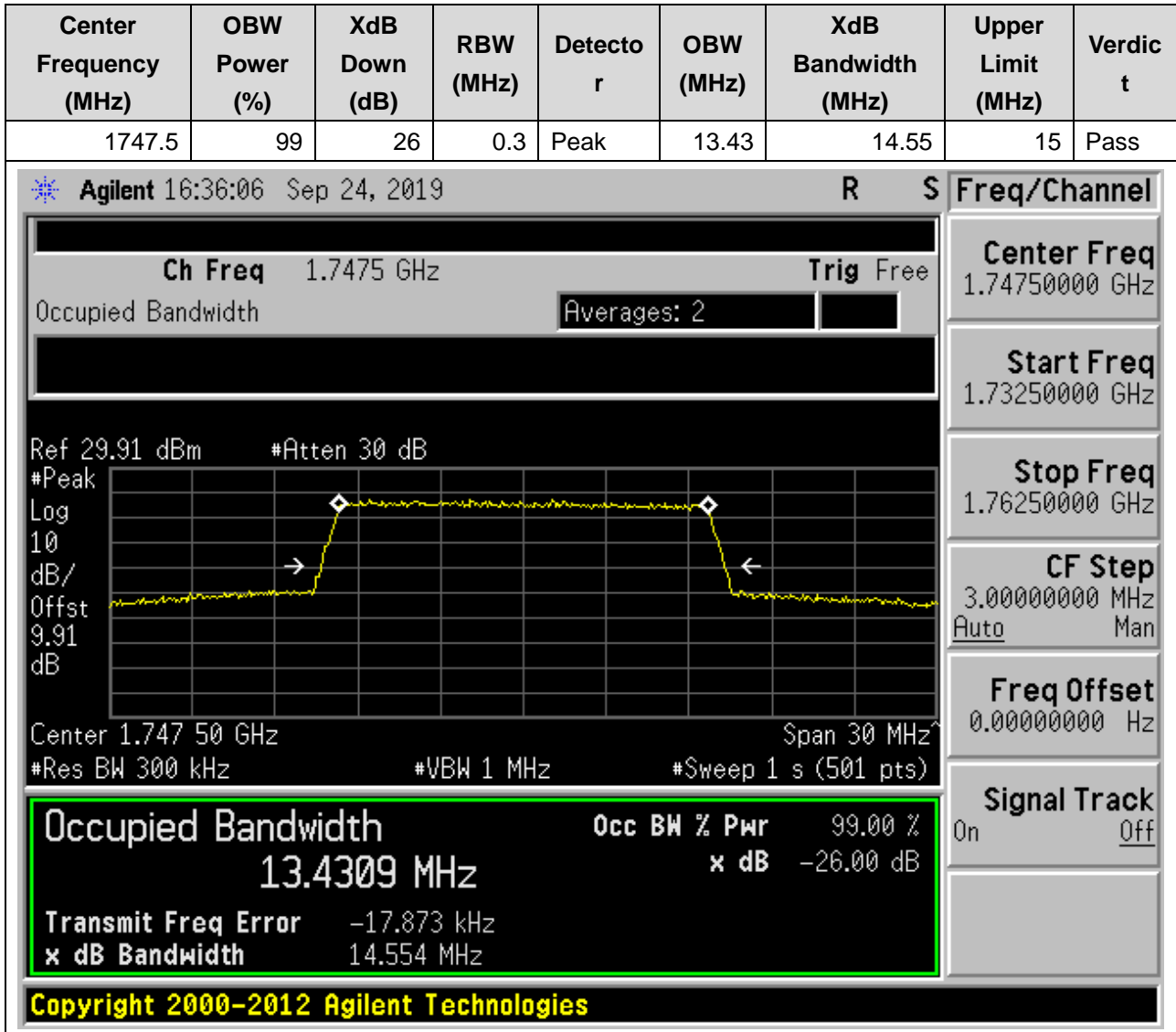
**9.27. LTE Occupied Bandwidth(NTNV)(Subtest:27, Channel:20175, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



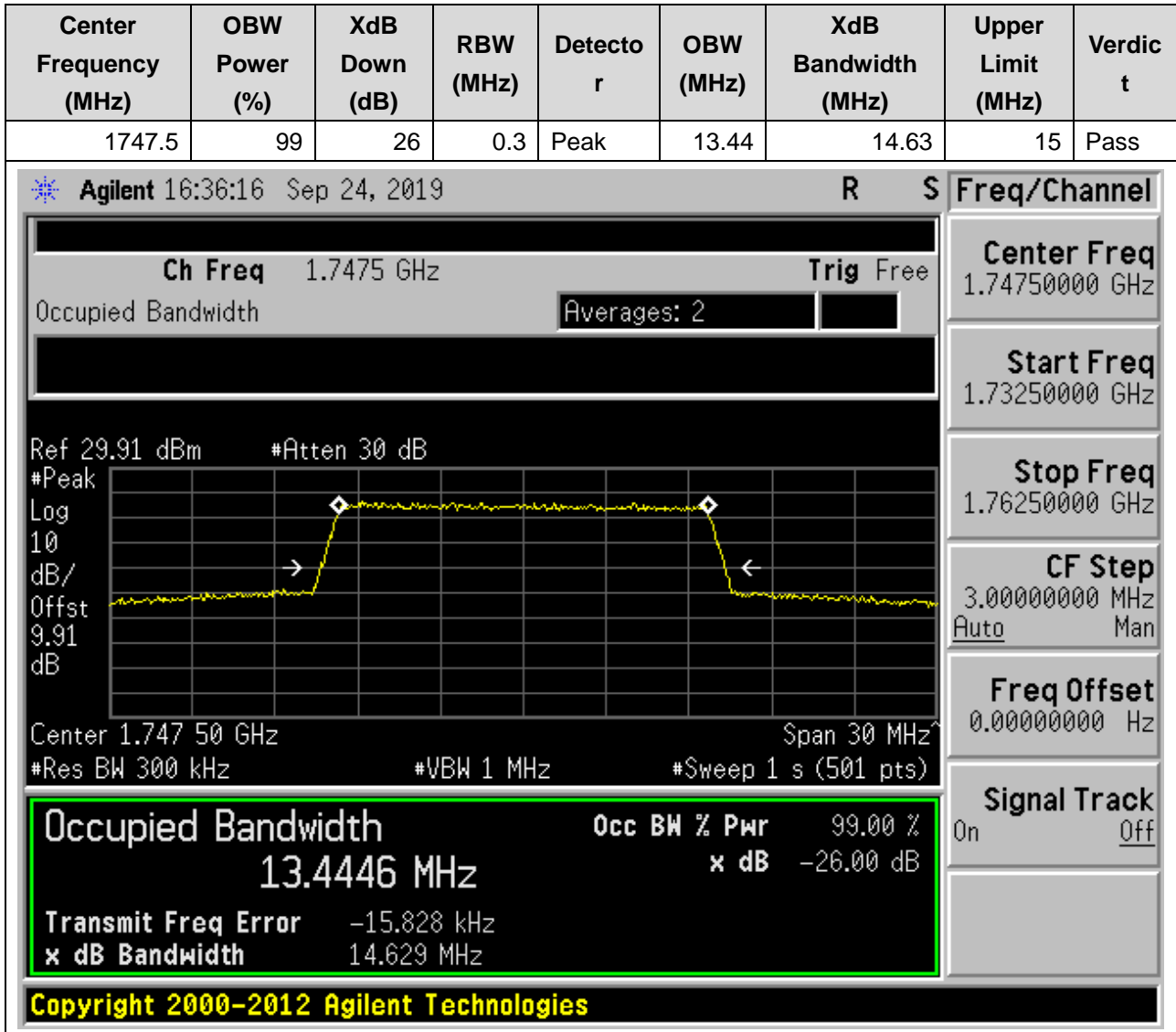
**9.28. LTE Occupied Bandwidth(NTNV)(Subtest:28, Channel:20175, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



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

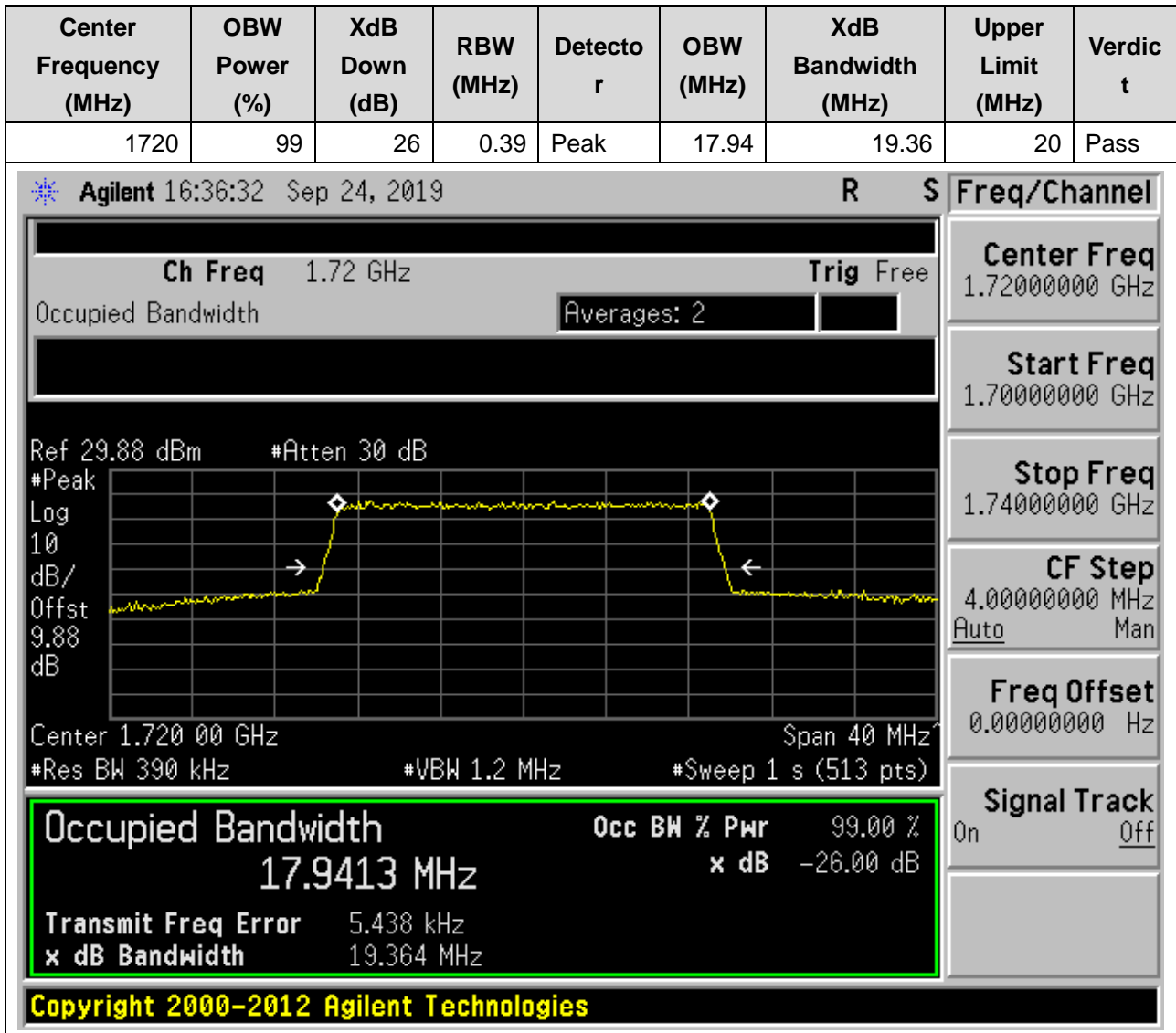


**9.30. LTE Occupied Bandwidth(NTNV)(Subtest:30, Channel:20325, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

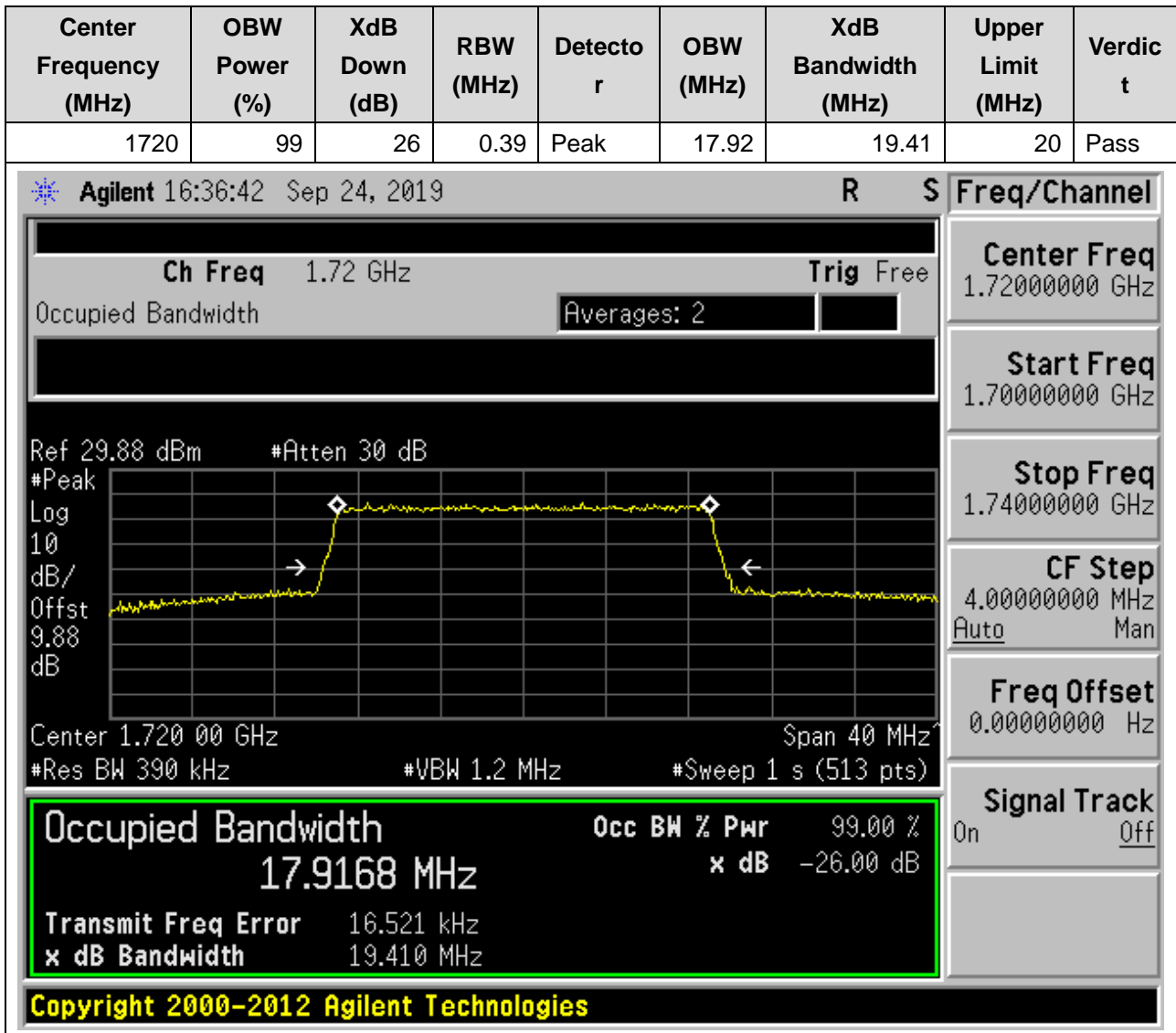




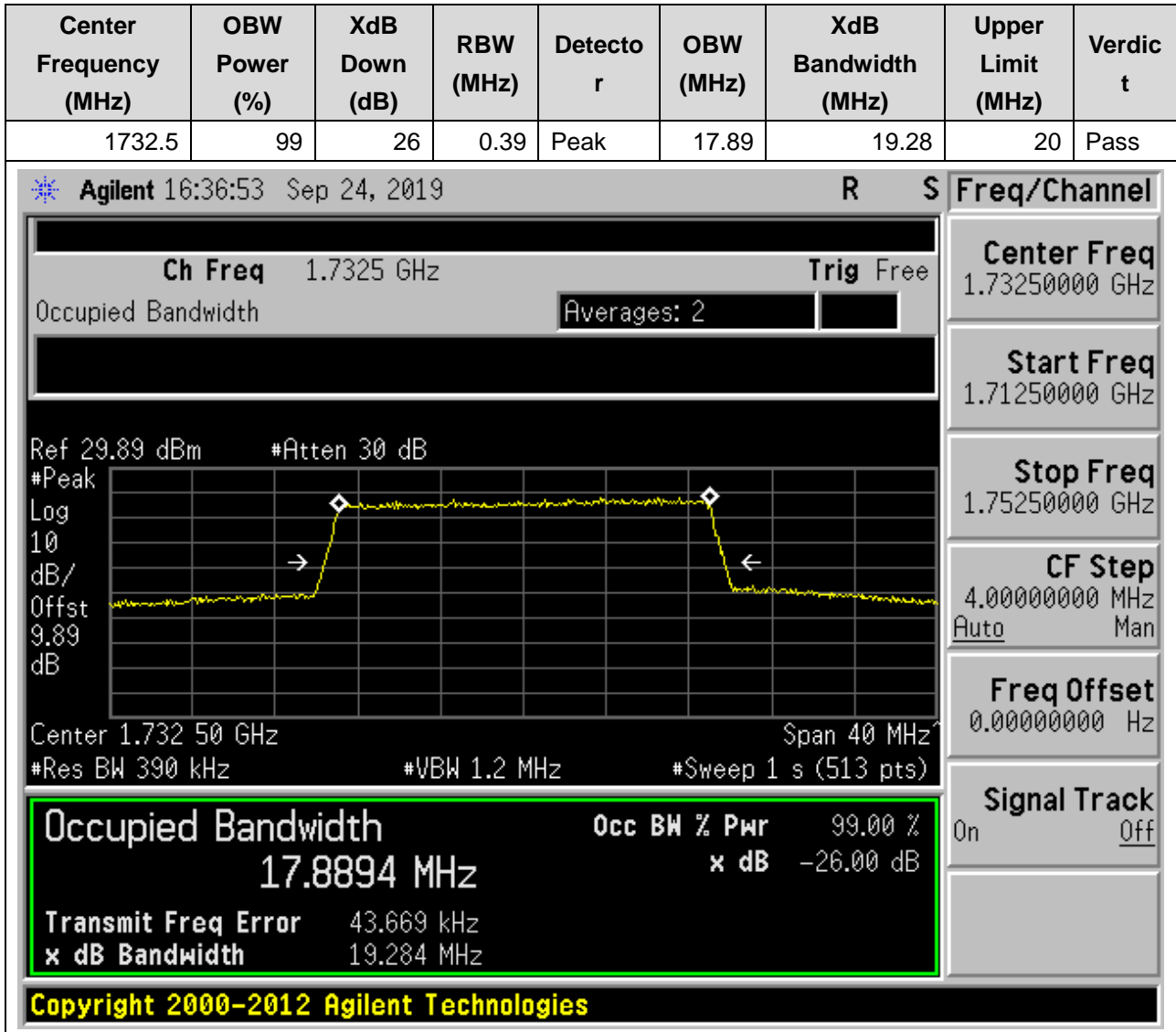
**9.31. LTE Occupied Bandwidth(NTNV)(Subtest:31, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



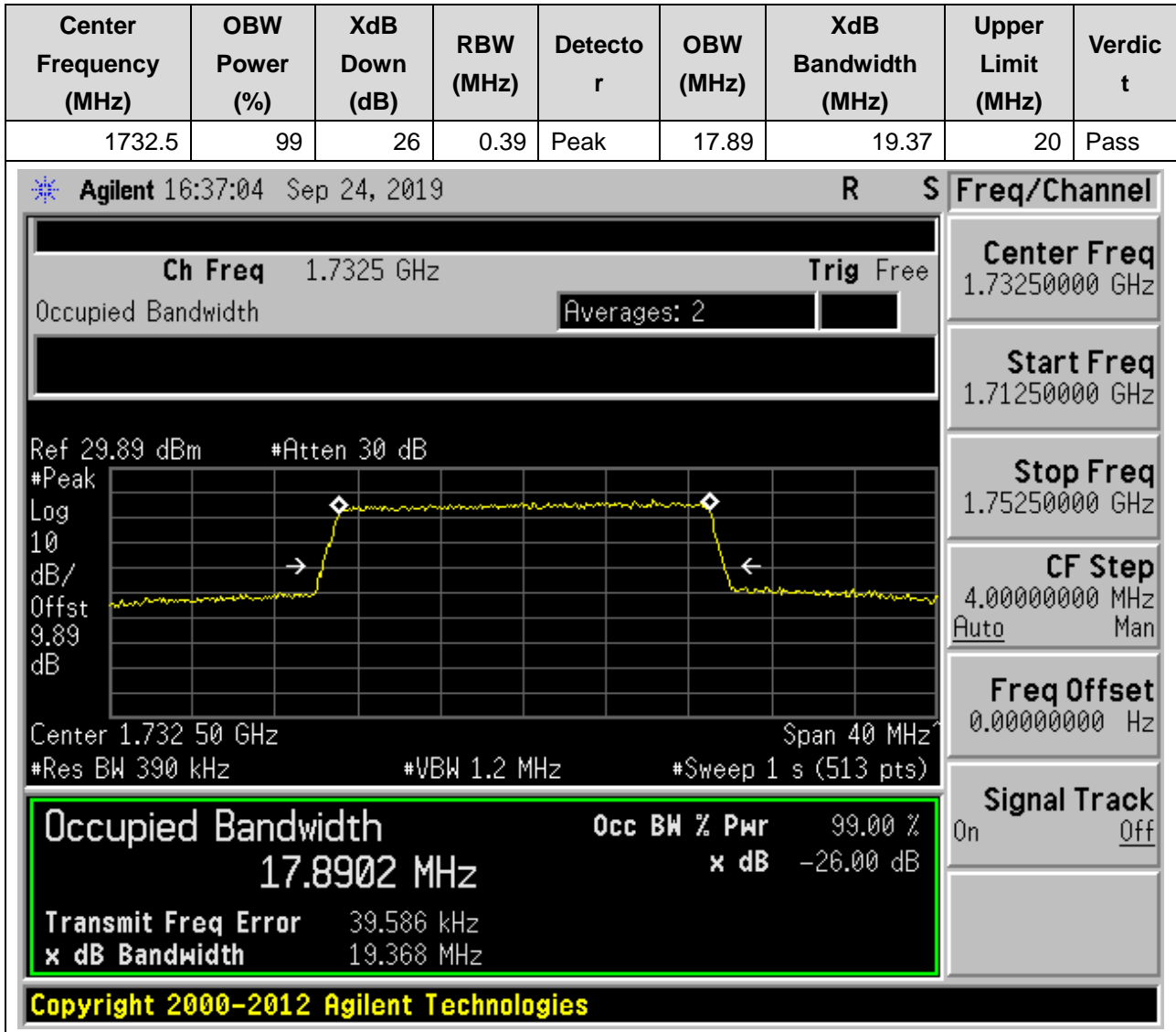
**9.32. LTE Occupied Bandwidth(NTNV)(Subtest:32, Channel:20050, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



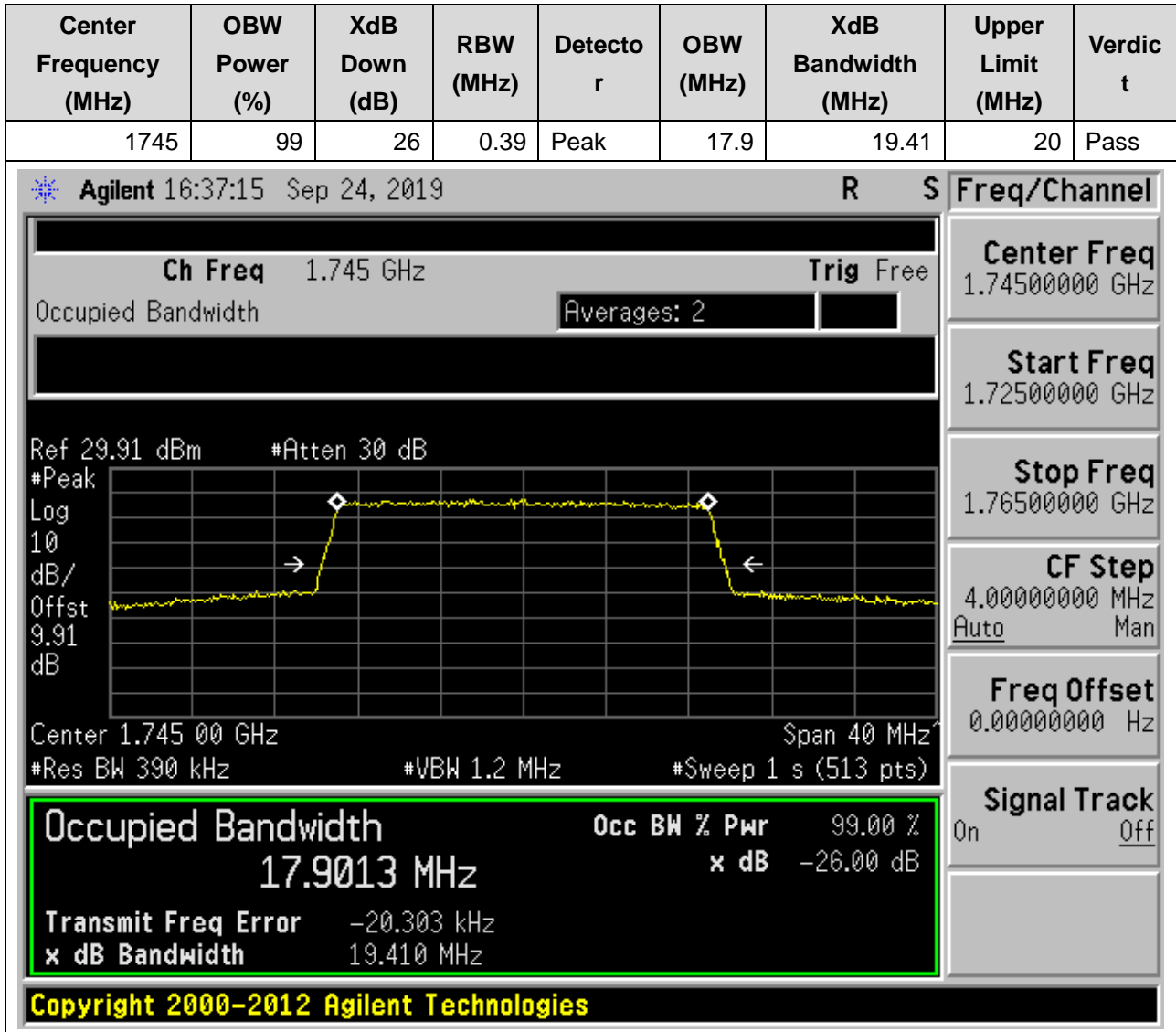
**9.33. LTE Occupied Bandwidth(NTNV)(Subtest:33, Channel:20175, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



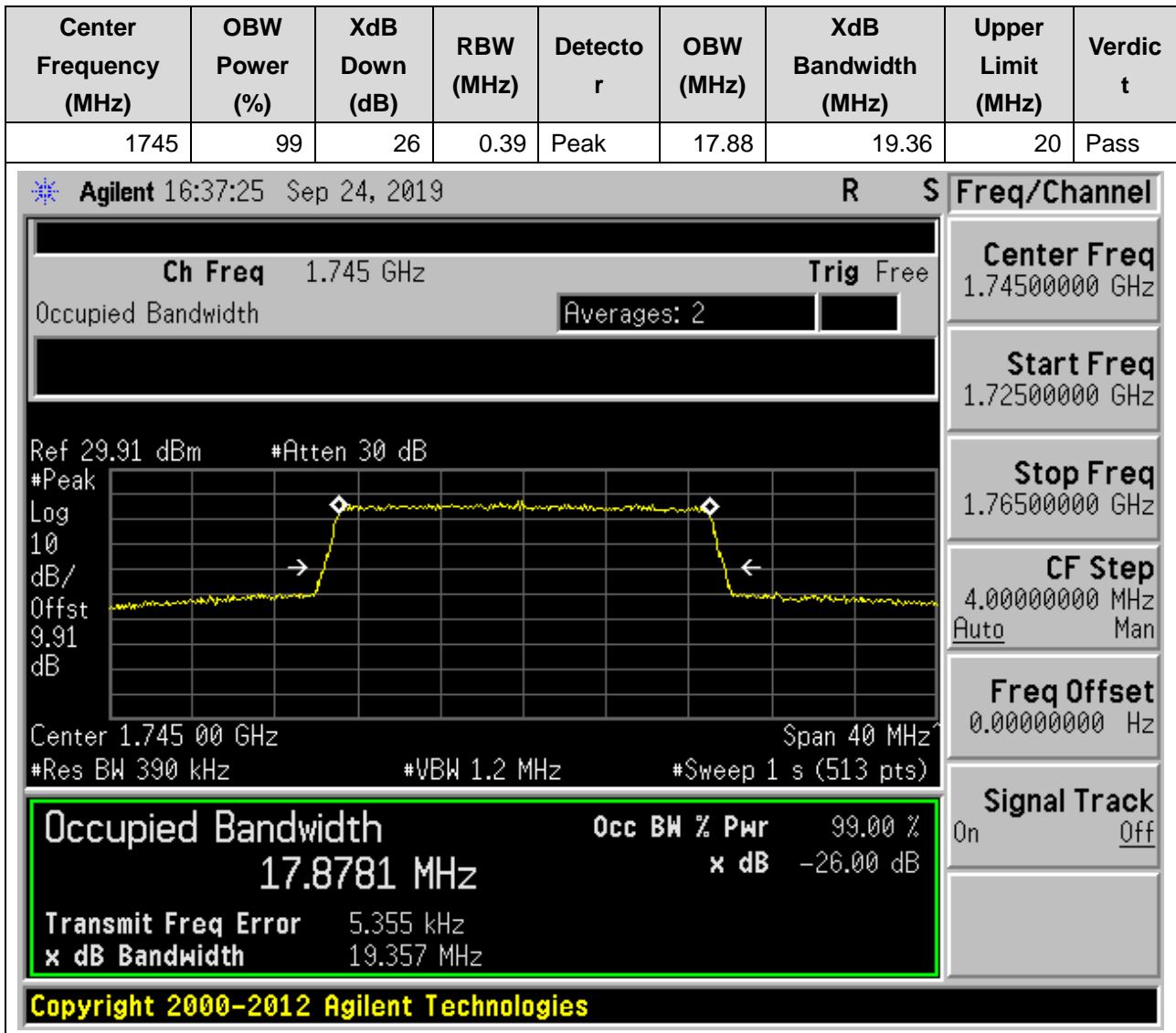
**9.34. LTE Occupied Bandwidth(NTNV)(Subtest:34, Channel:20175, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



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

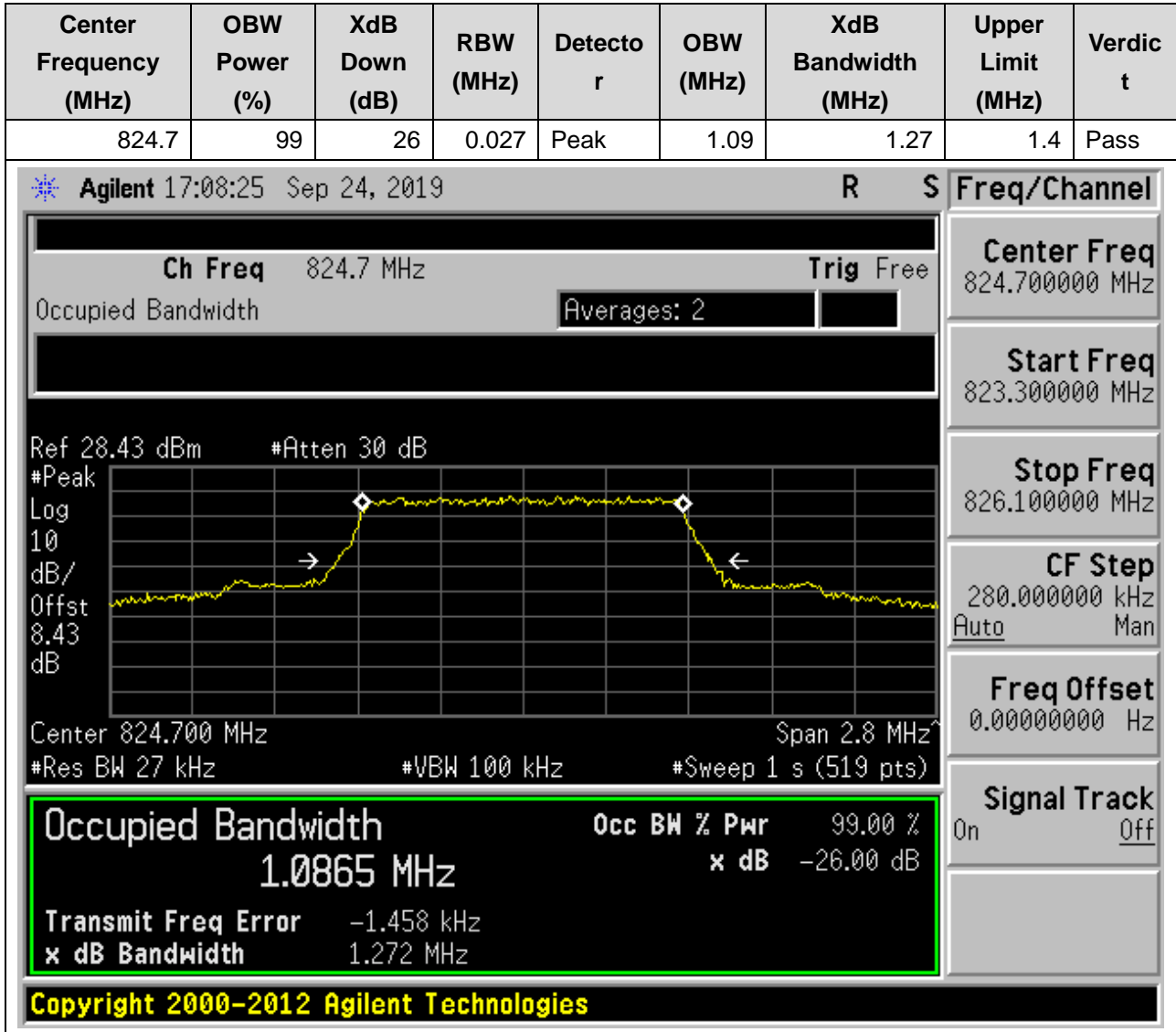


**9.36. LTE Occupied Bandwidth(NTNV)(Subtest:36, Channel:20300, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

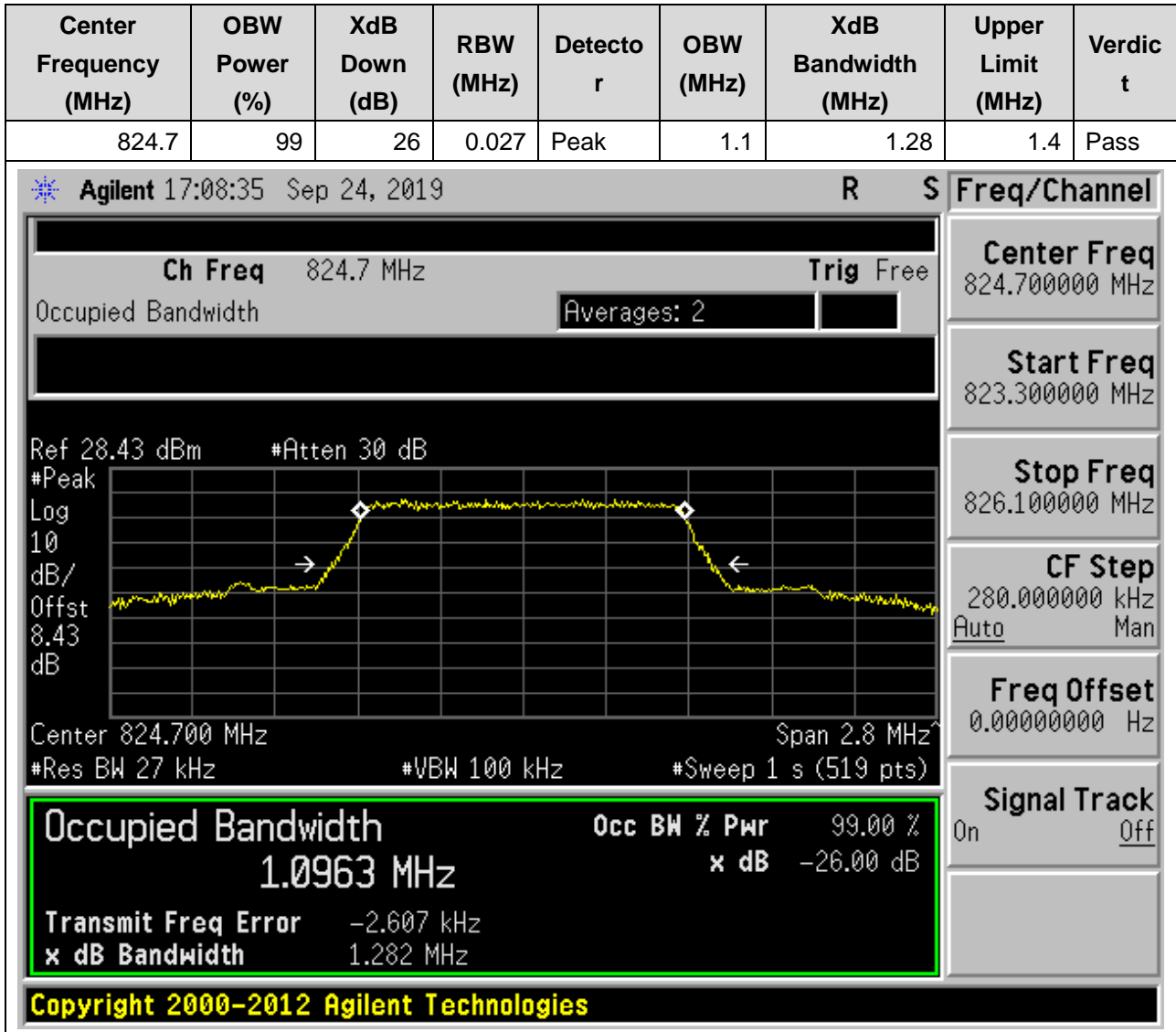


## 10. LTE\_Band5

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

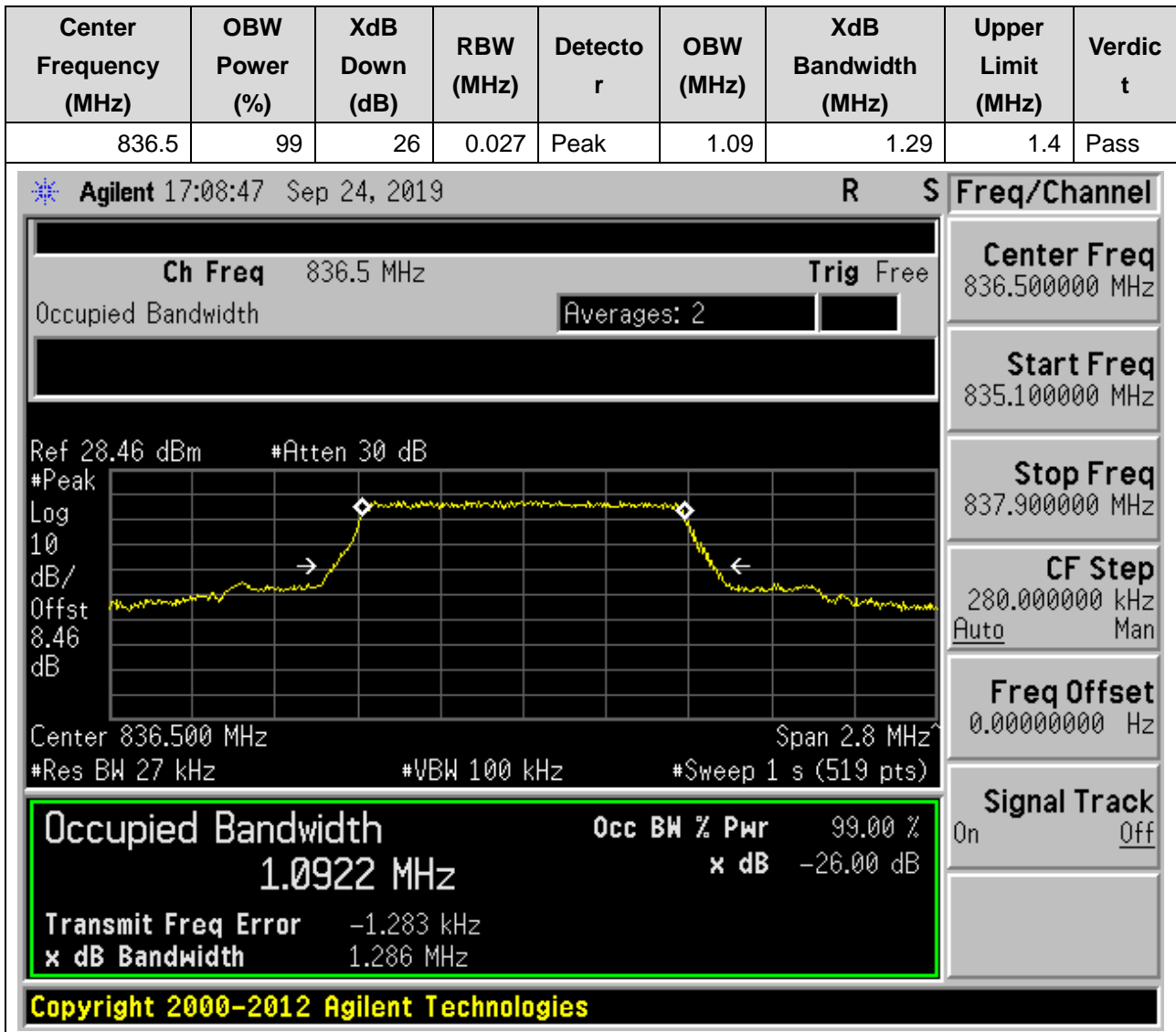


**10.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:20407, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

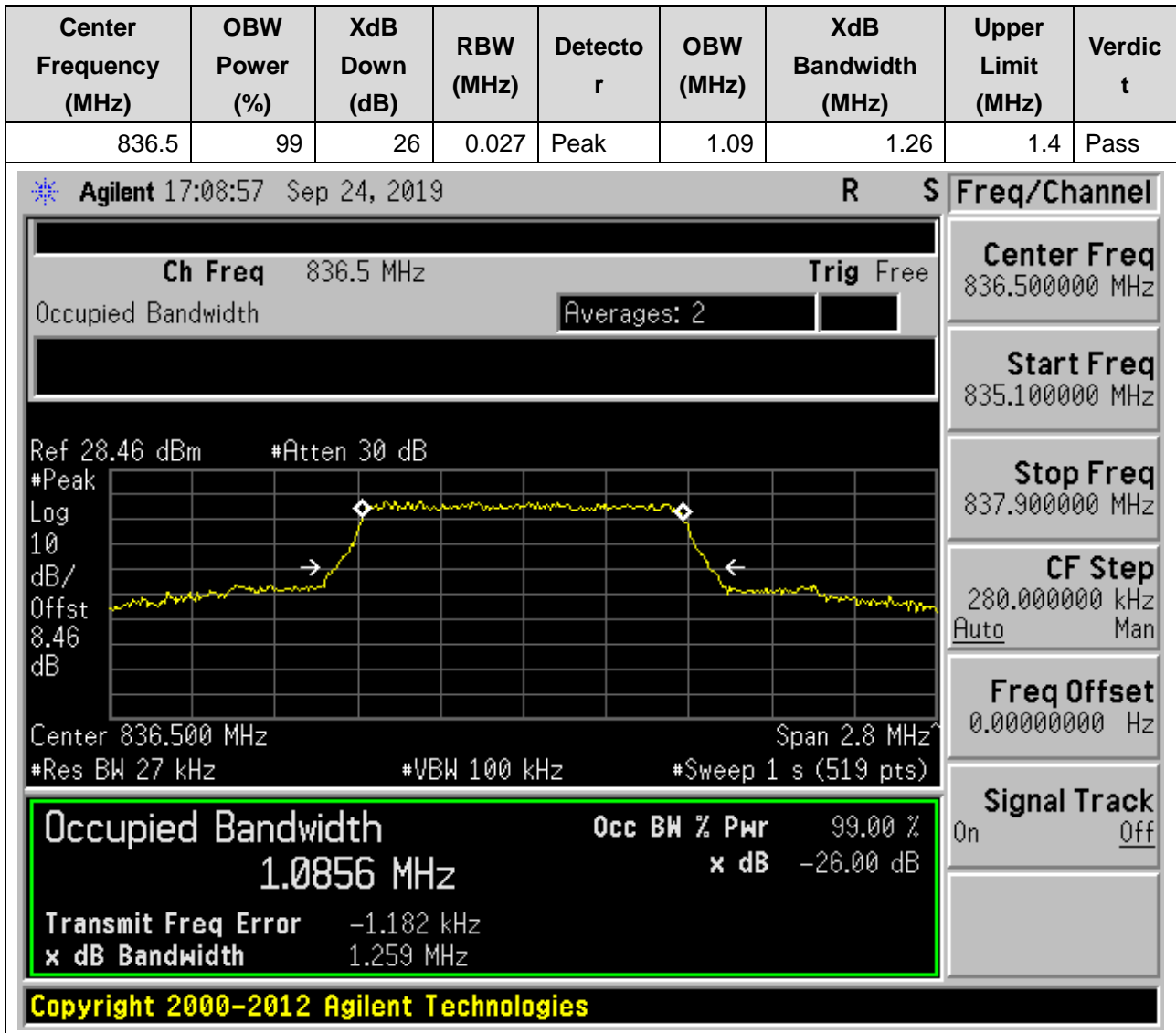




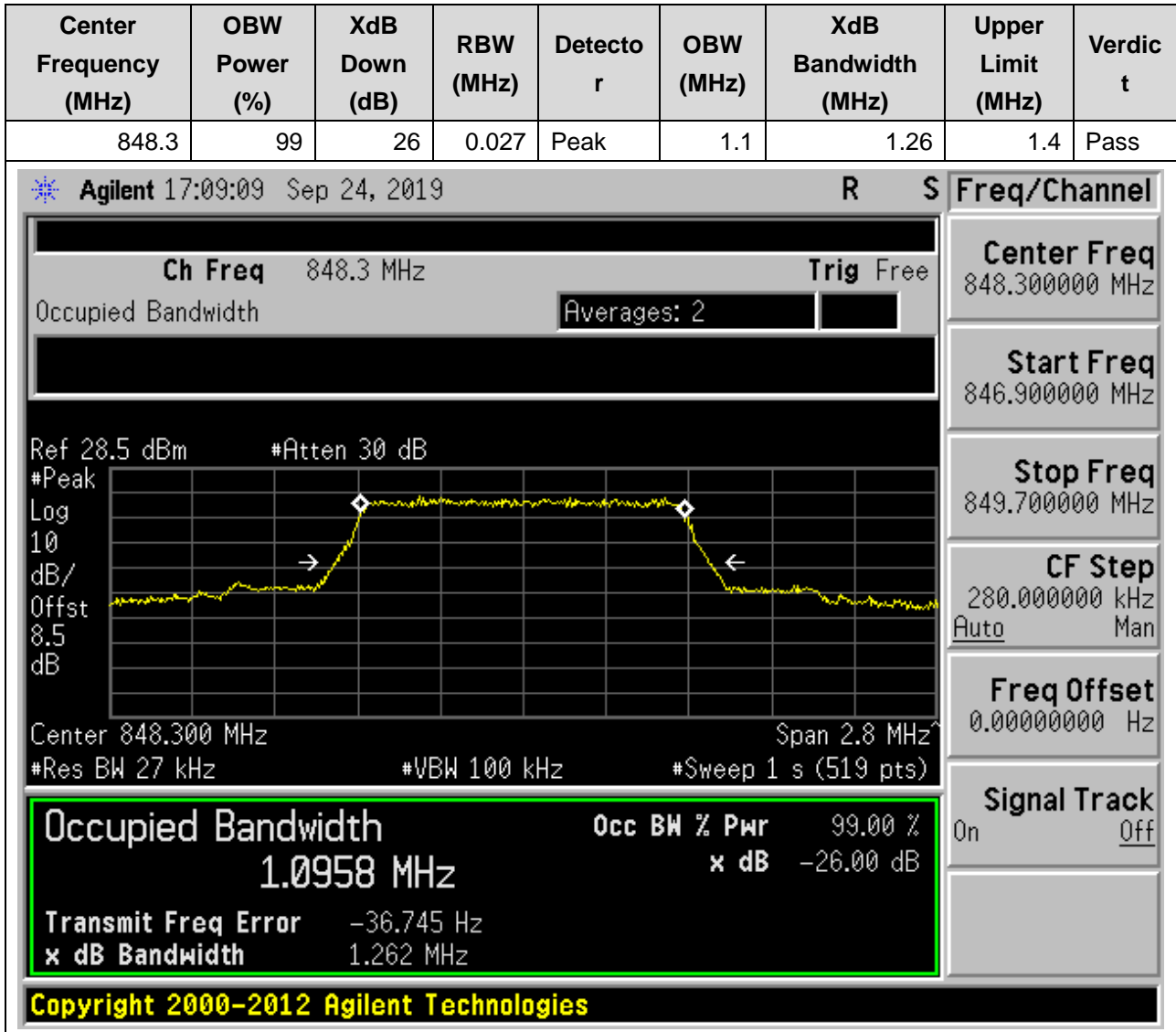
**10.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:20525, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



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



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



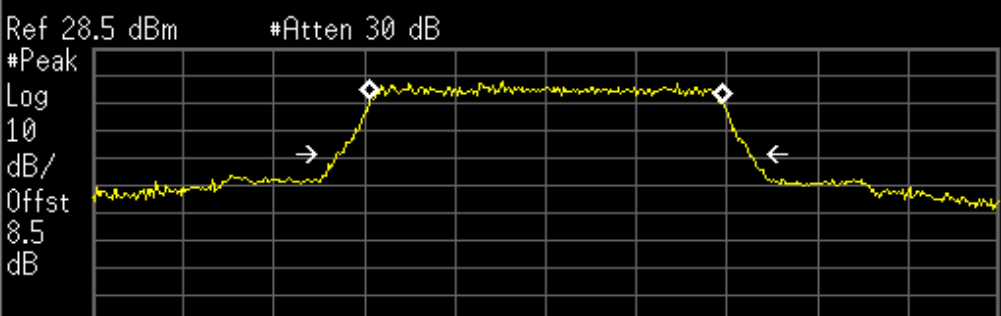
**10.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:20643, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

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	1.09	1.27	1.4	Pass

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

Occupied Bandwidth Averages: 2



Ref 28.5 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.5 dB

Center 848.300 MHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (519 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
1.0927 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	462.945 Hz	
<b>x dB Bandwidth</b>	1.272 MHz	

**Freq/Channel**

**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

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**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	2.69	2.96	3	Pass

Agilent 17:09:34 Sep 24, 2019 R S

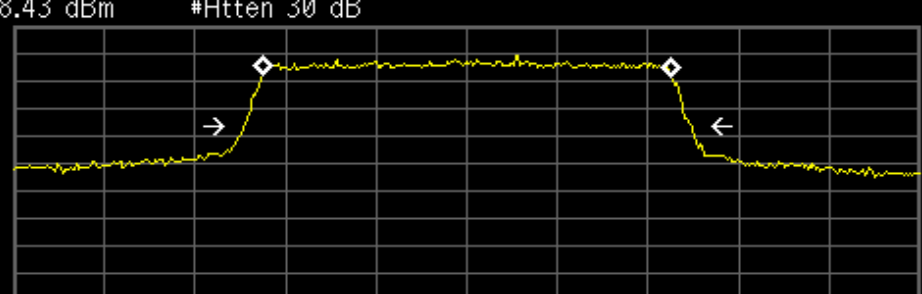
**Ch Freq** 825.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 28.43 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.43 dB



Center 825.500 MHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (484 pts)

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

**2.6907 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -704.908 Hz

**x dB Bandwidth** 2.961 MHz

**Freq/Channel**

**Center Freq** 825.500000 MHz

**Start Freq** 822.500000 MHz

**Stop Freq** 828.500000 MHz

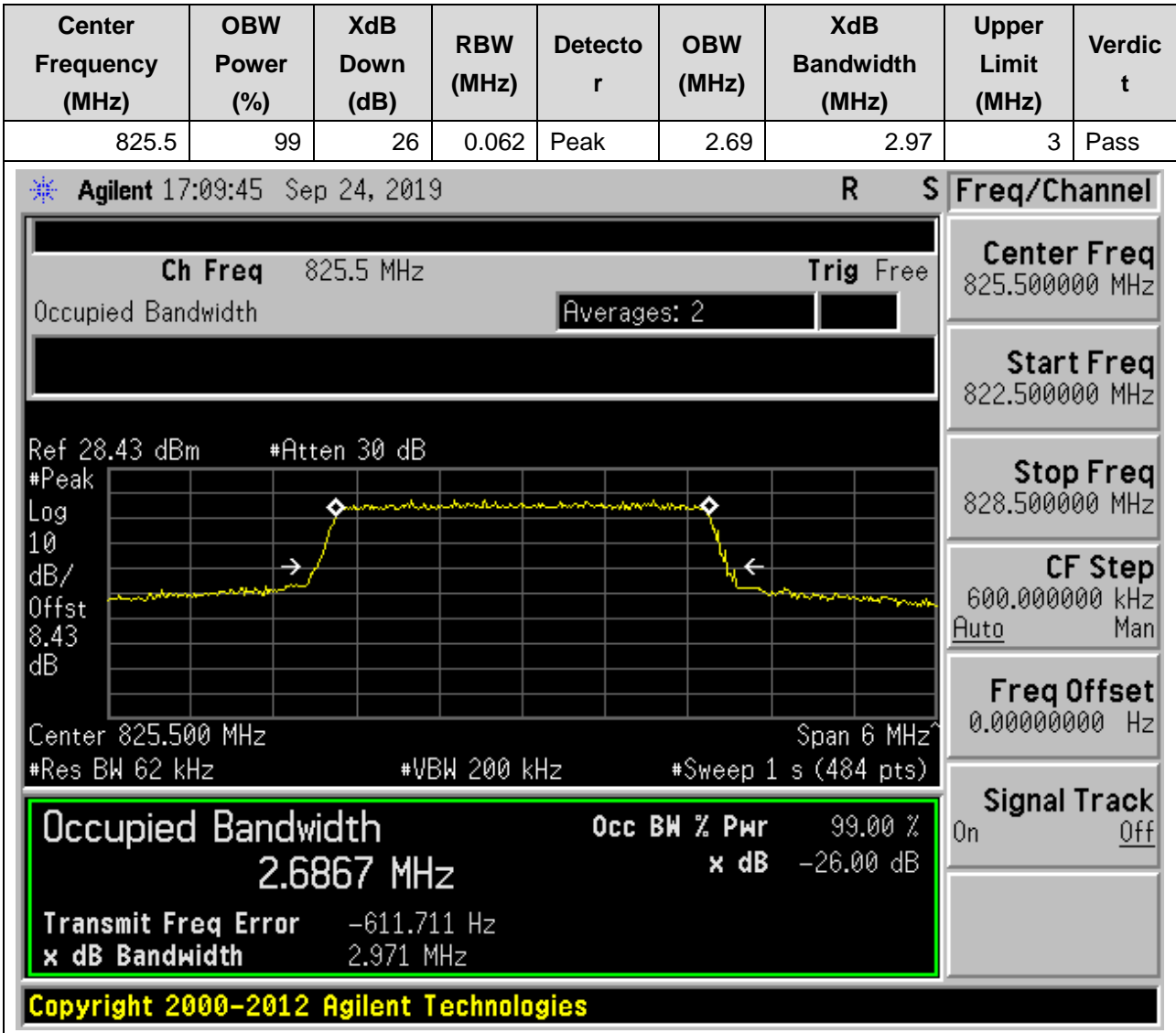
**CF Step** 600.000000 kHz Auto Man

**Freq Offset** 0.00000000 Hz

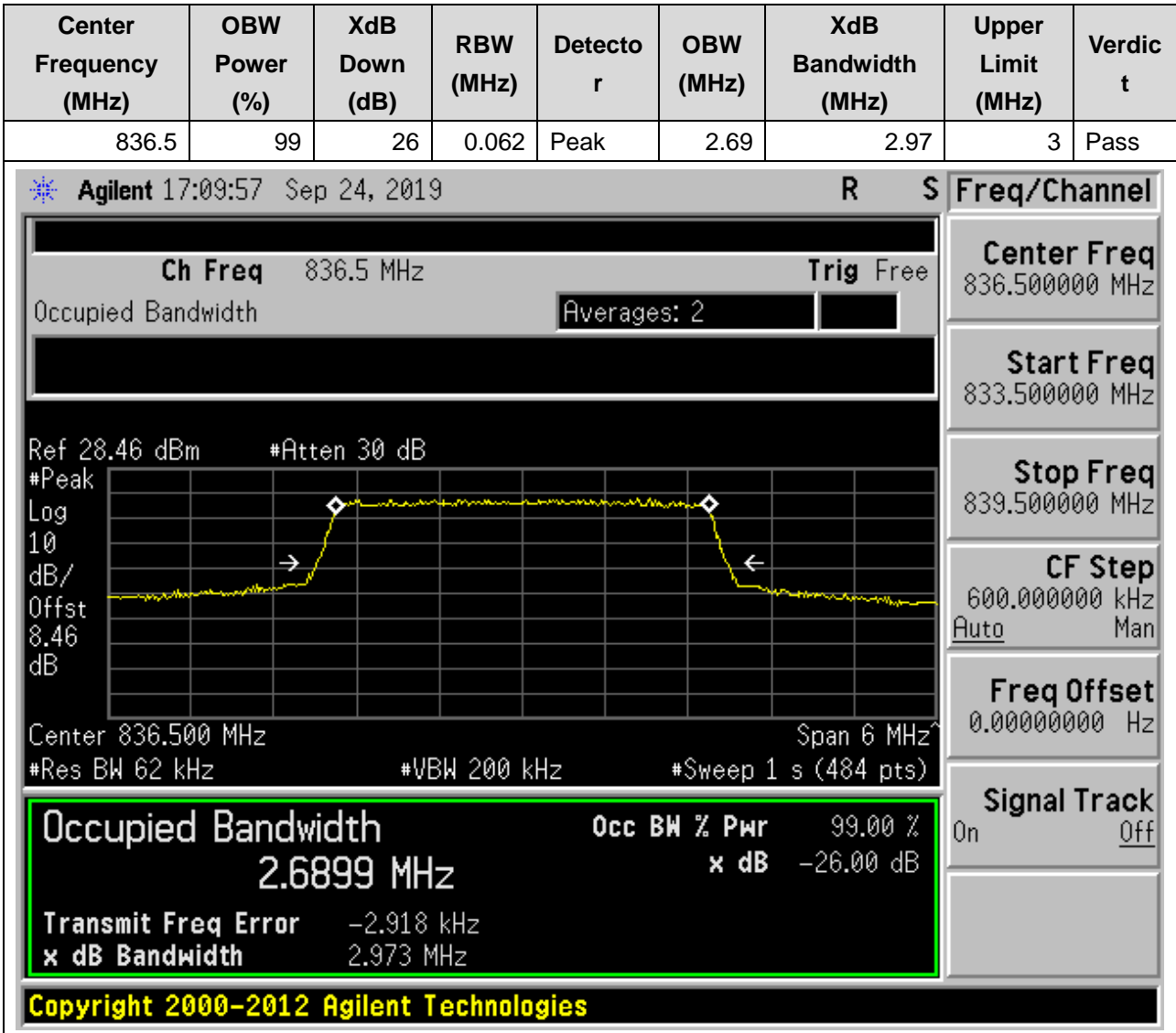
**Signal Track** On Off

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



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



**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	2.68	2.99	3	Pass

Agilent 17:10:07 Sep 24, 2019 R S

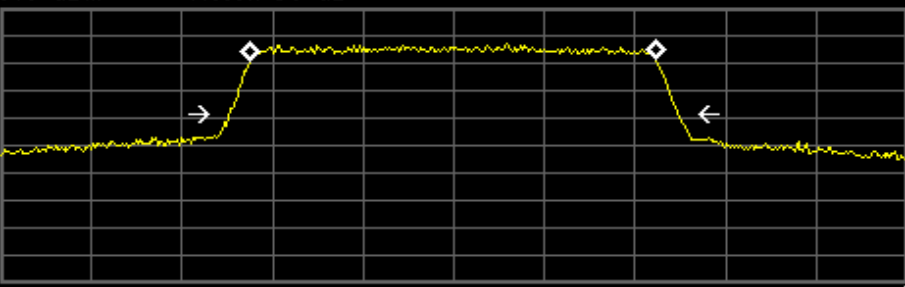
**Ch Freq** 836.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 28.46 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.46 dB



Center 836.500 MHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (484 pts)

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

**2.6834 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -3.852 kHz

**x dB Bandwidth** 2.987 MHz

**Freq/Channel**

**Center Freq** 836.500000 MHz

**Start Freq** 833.500000 MHz

**Stop Freq** 839.500000 MHz

**CF Step** 600.000000 kHz Auto Man

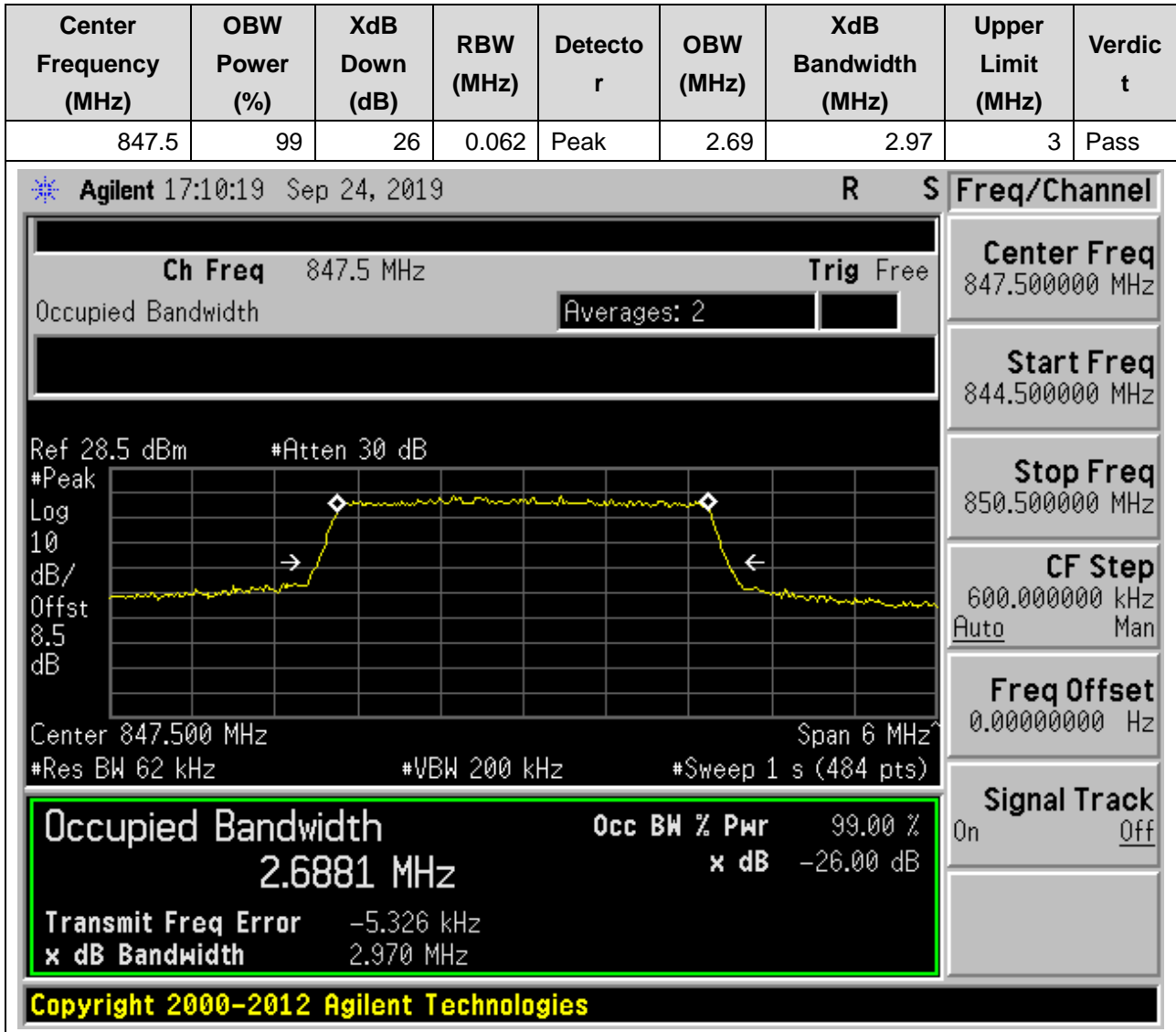
**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

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



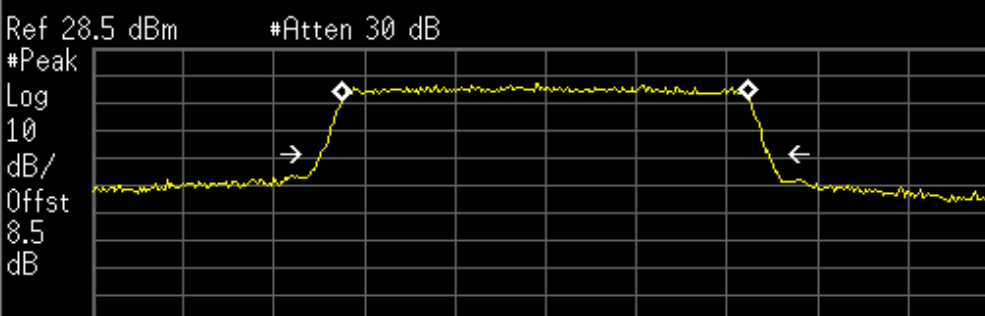
**10.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:20635, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

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	2.69	2.98	3	Pass

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**Ch Freq** 847.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 28.5 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.5 dB

Center 847.500 MHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (484 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
2.6855 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-3.627 kHz	
<b>x dB Bandwidth</b>	2.980 MHz	

**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

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**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	4.5	4.89	5	Pass

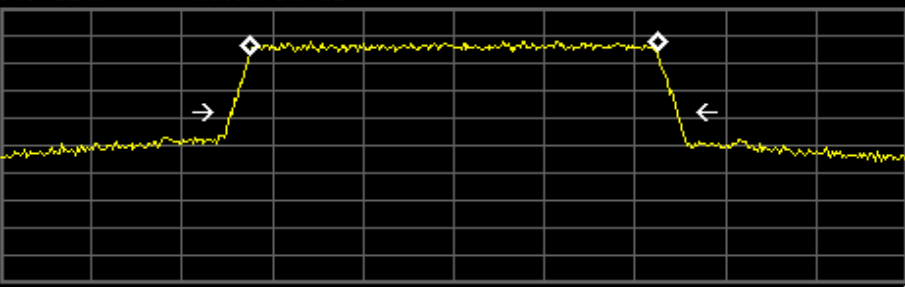
Agilent 17:10:44 Sep 24, 2019 R S

**Ch Freq** 826.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2

Ref 28.43 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.43 dB



Center 826.500 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (501 pts)

**Freq/Channel**

**Center Freq**  
826.500000 MHz

**Start Freq**  
821.500000 MHz

**Stop Freq**  
831.500000 MHz

**CF Step**  
1.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

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

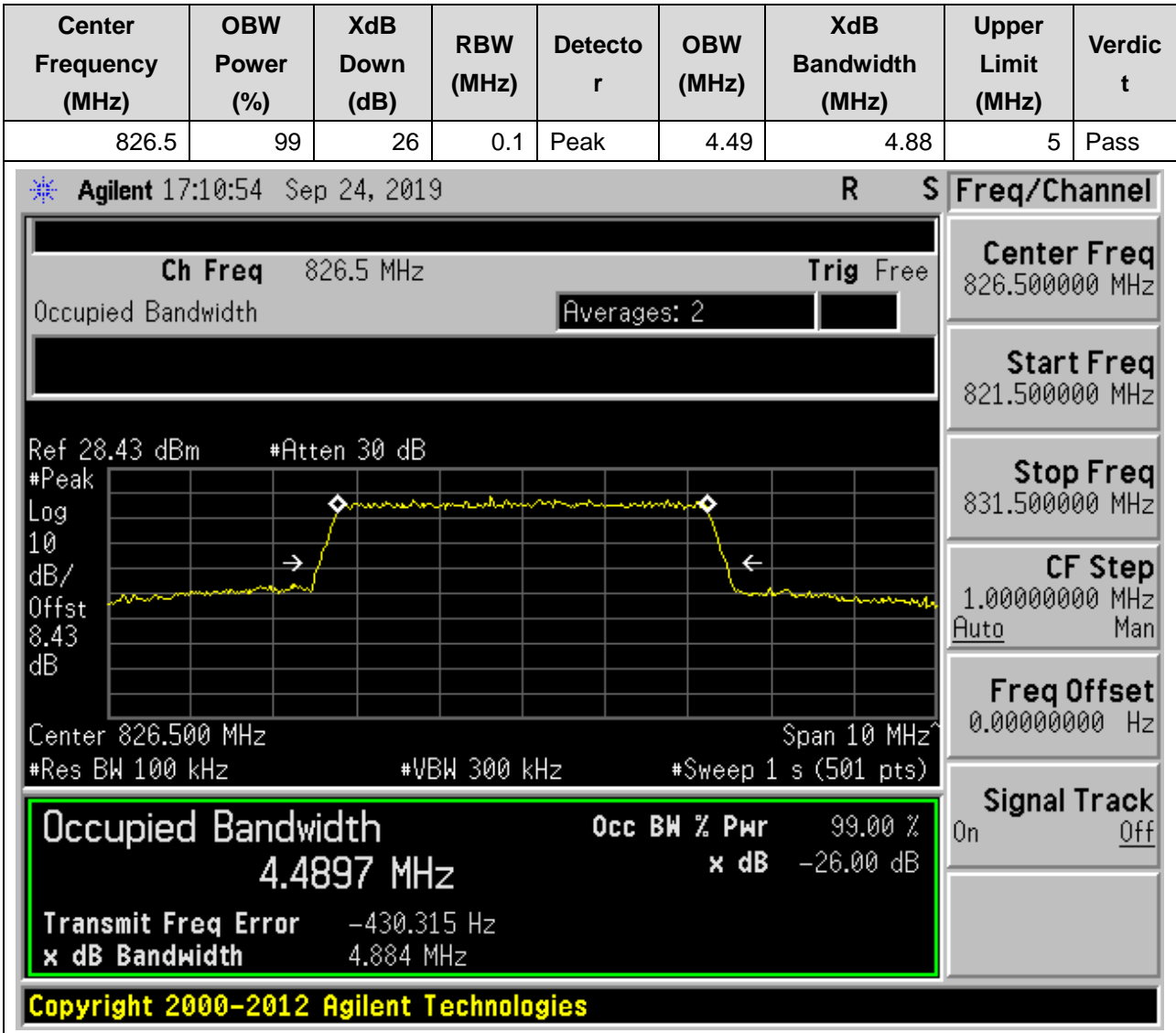
**4.5029 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -669.520 Hz

**x dB Bandwidth** 4.893 MHz

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



**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	4.5	4.91	5	Pass

Agilent 17:11:06 Sep 24, 2019 R S

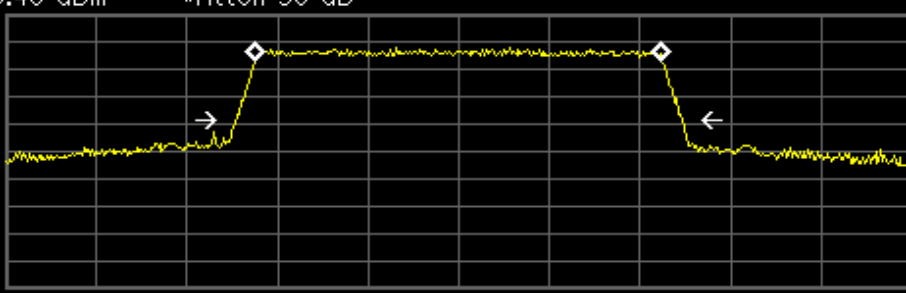
**Ch Freq** 836.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 28.46 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.46 dB



Center 836.50 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (501 pts)

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

**4.4989 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -5.206 kHz

**x dB Bandwidth** 4.913 MHz

**Freq/Channel**

**Center Freq** 836.500000 MHz

**Start Freq** 831.500000 MHz

**Stop Freq** 841.500000 MHz

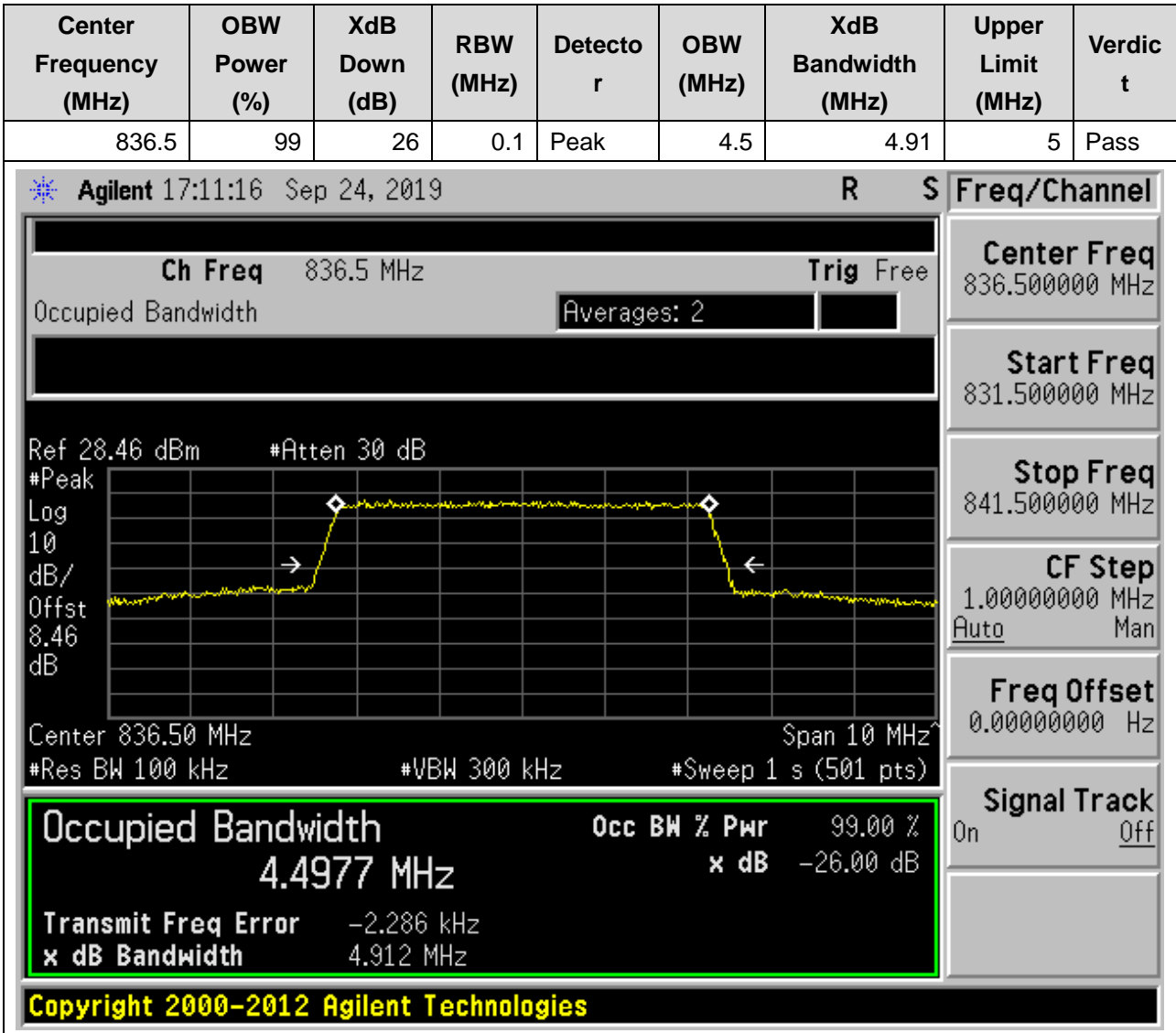
**CF Step** 1.00000000 MHz Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

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



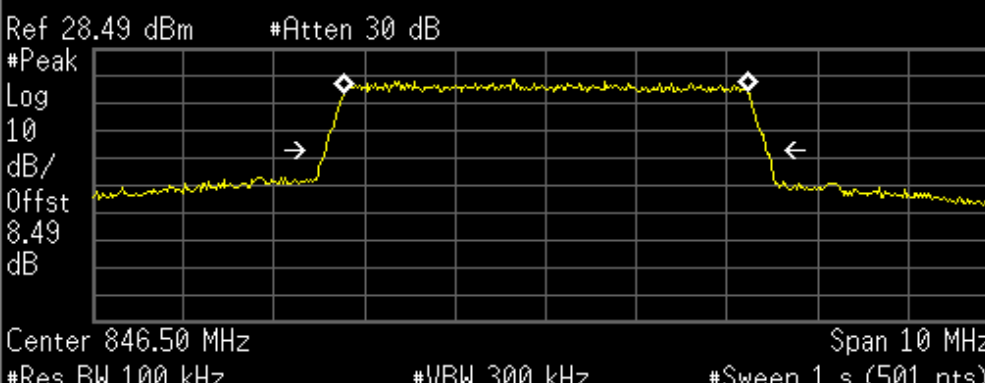
**10.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:20625, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

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	4.49	4.86	5	Pass

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**Ch Freq** 846.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 28.49 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.49 dB

Center 846.50 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
4.4877 MHz	x dB	-26.00 dB
<b>Transmit Freq Error</b>	-1.539 kHz	
<b>x dB Bandwidth</b>	4.857 MHz	

**Freq/Channel**

**Center Freq** 846.500000 MHz

**Start Freq** 841.500000 MHz

**Stop Freq** 851.500000 MHz

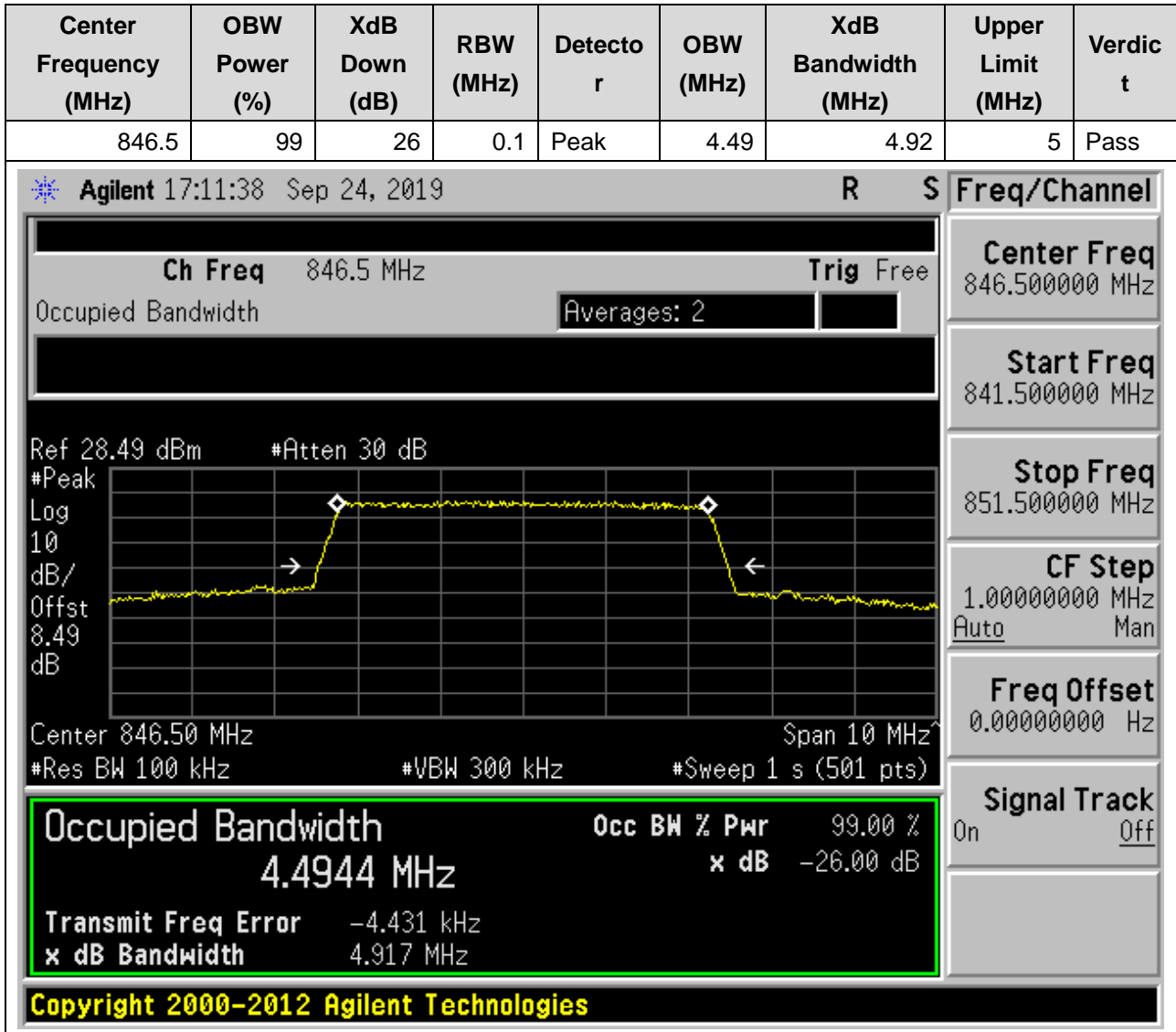
**CF Step** 1.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

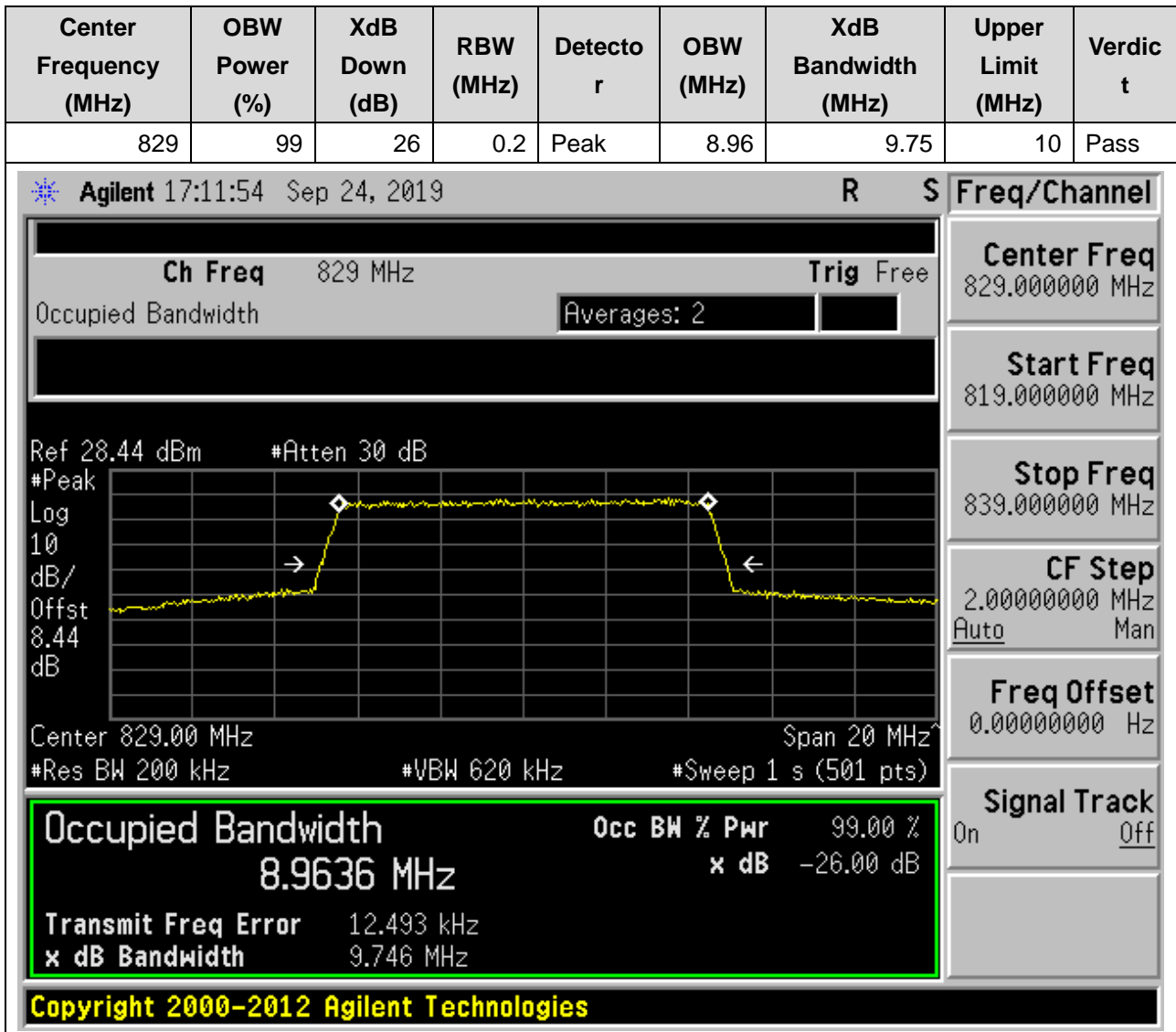
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**10.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:20625, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**





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



**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	8.97	9.74	10	Pass

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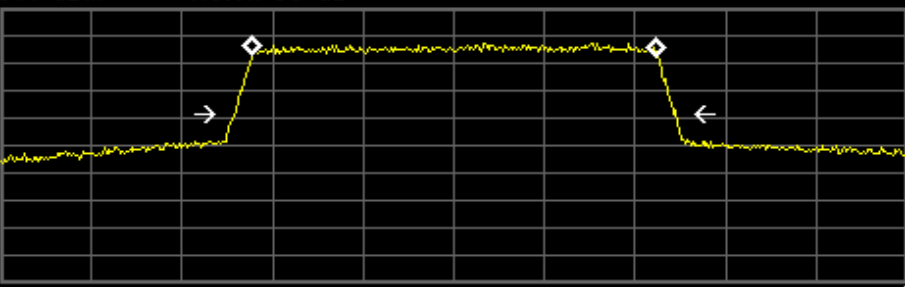
**Ch Freq** 829 MHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 28.44 dBm #Atten 30 dB

#Peak  
Log 10  
dB/Offst 8.44 dB



Center 829.00 MHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (501 pts)

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

**8.9687 MHz** **x dB** -26.00 dB

**Transmit Freq Error** 15.460 kHz

**x dB Bandwidth** 9.736 MHz

**Freq/Channel**

**Center Freq** 829.000000 MHz

**Start Freq** 819.000000 MHz

**Stop Freq** 839.000000 MHz

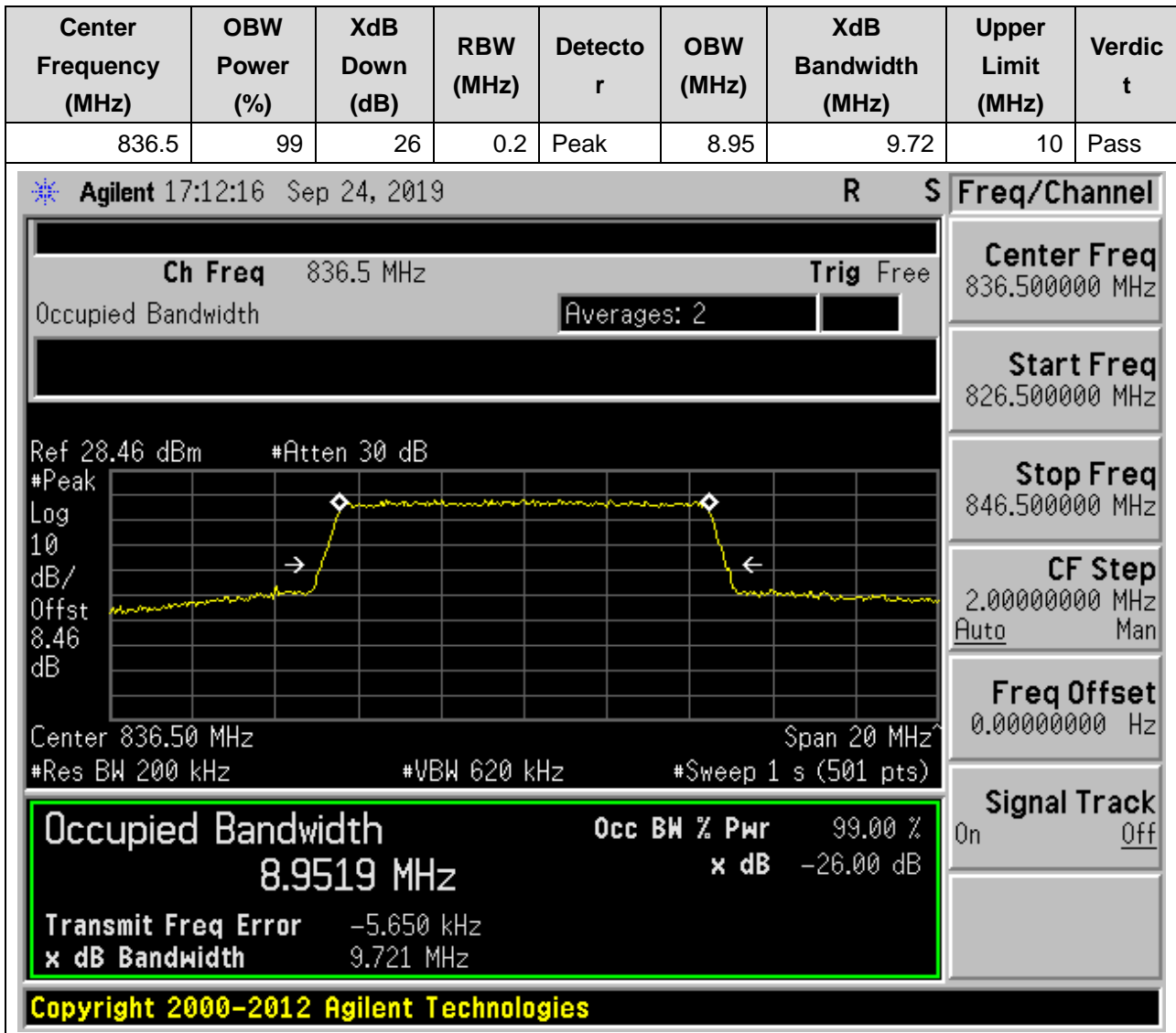
**CF Step** 2.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

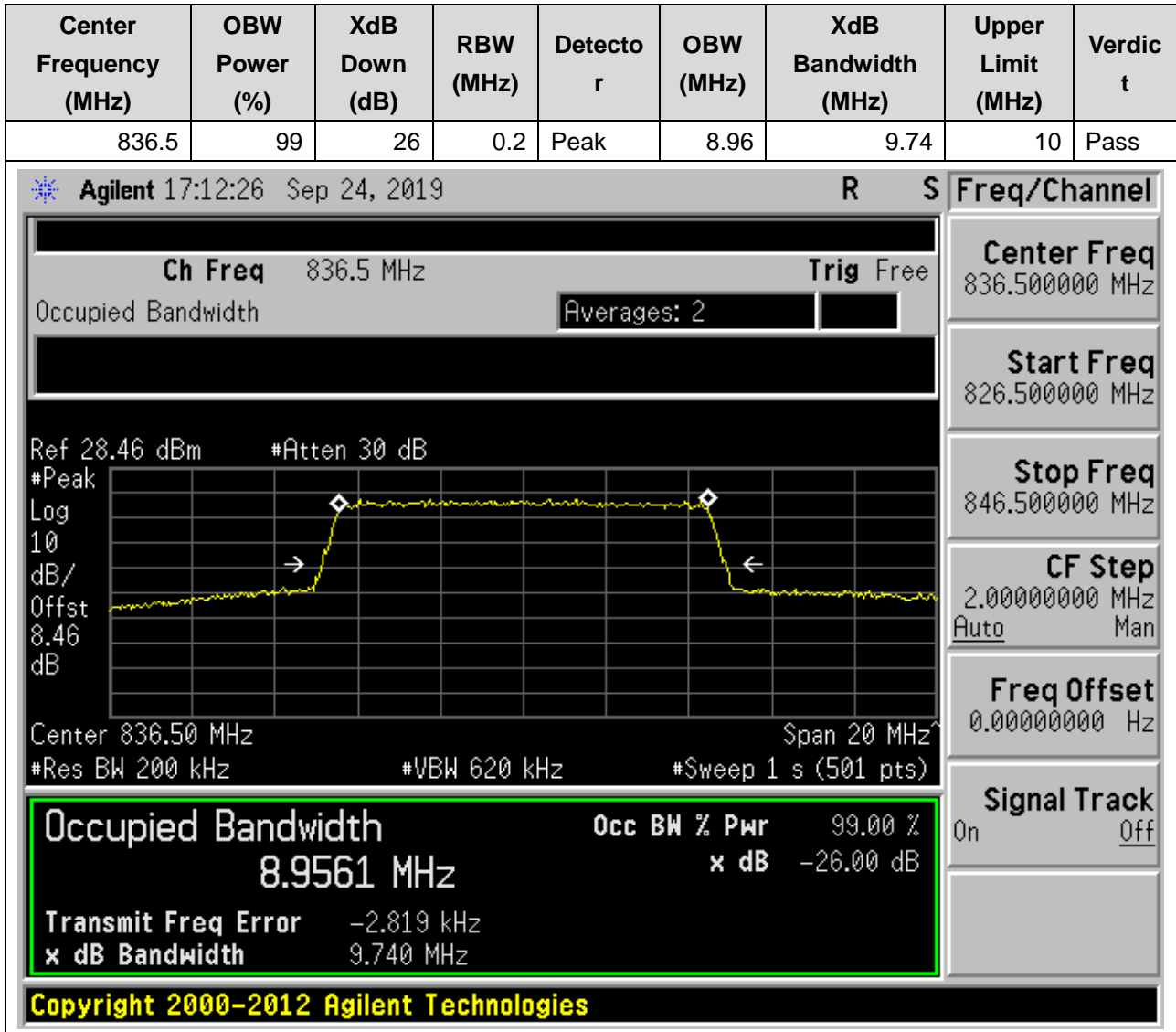
**Signal Track** On Off

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



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



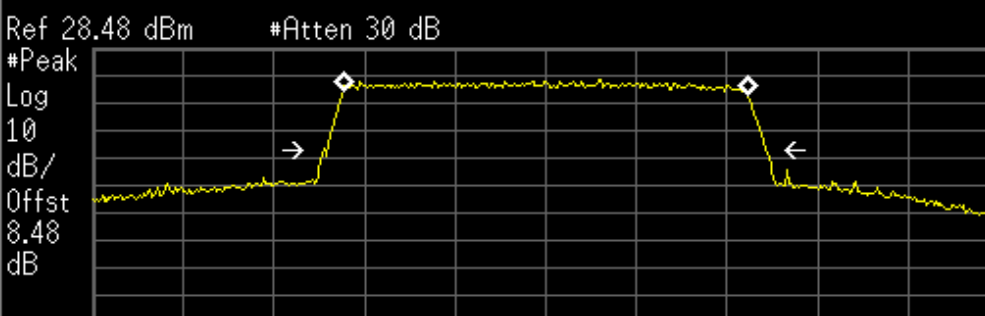
**10.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

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	8.95	9.75	10	Pass

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**Ch Freq** 844 MHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 28.48 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.48 dB

Center 844.00 MHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
8.9523 MHz	x dB	-26.00 dB
<b>Transmit Freq Error</b>	-15.614 kHz	
x dB Bandwidth	9.747 MHz	

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**Freq/Channel**

**Center Freq**  
844.000000 MHz

**Start Freq**  
834.000000 MHz

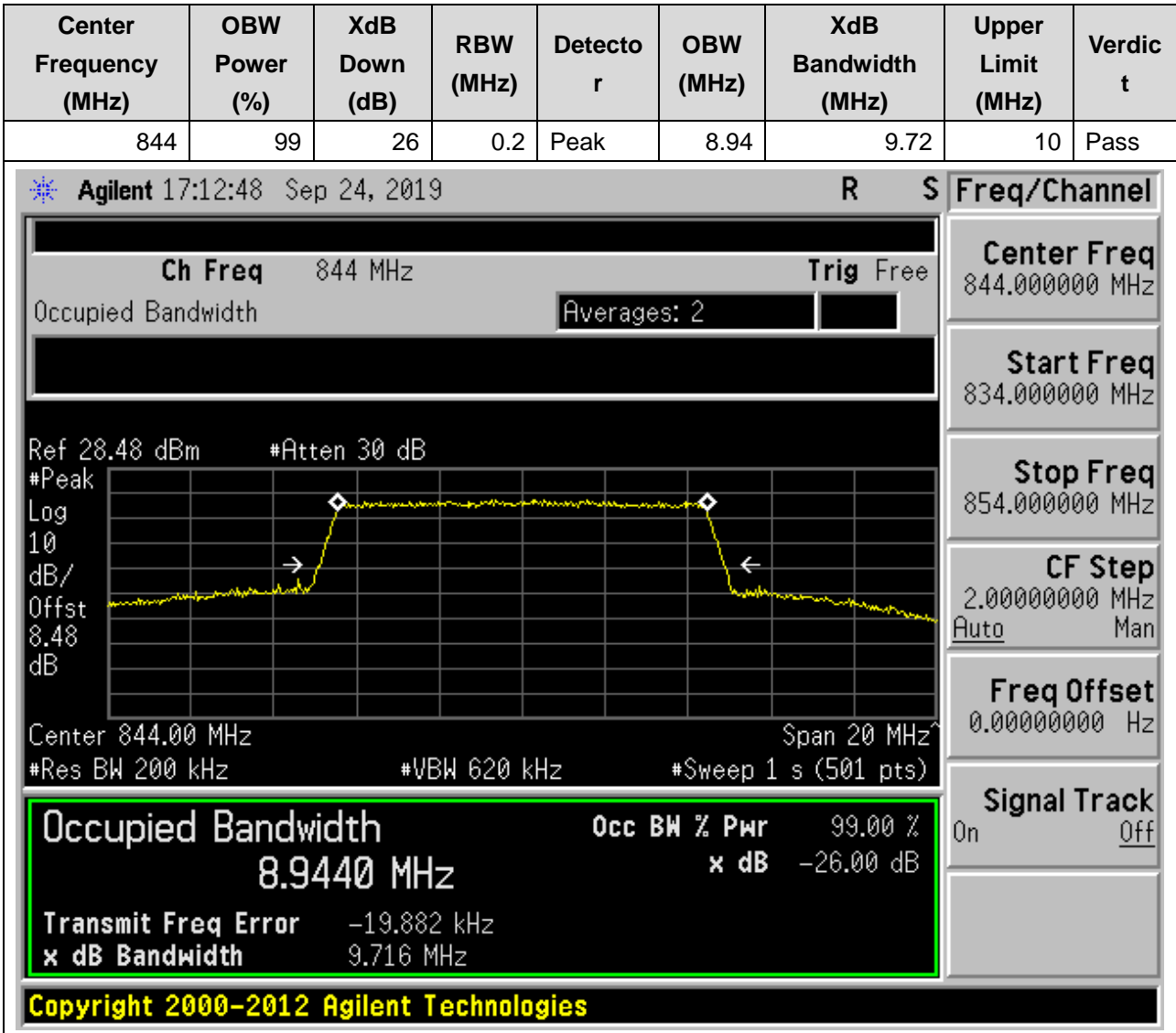
**Stop Freq**  
854.000000 MHz

**CF Step**  
2.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

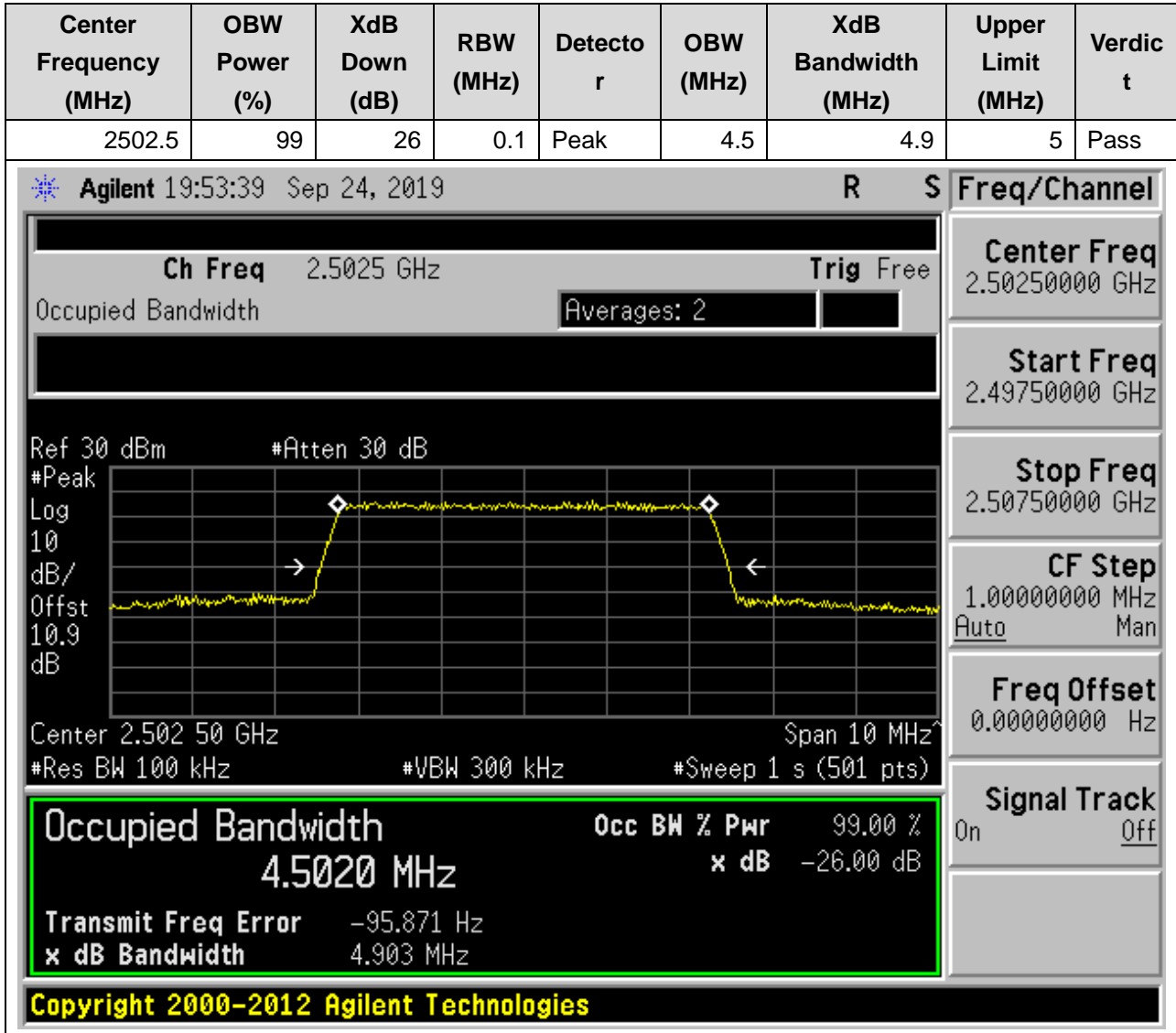
**Signal Track**  
On Off

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

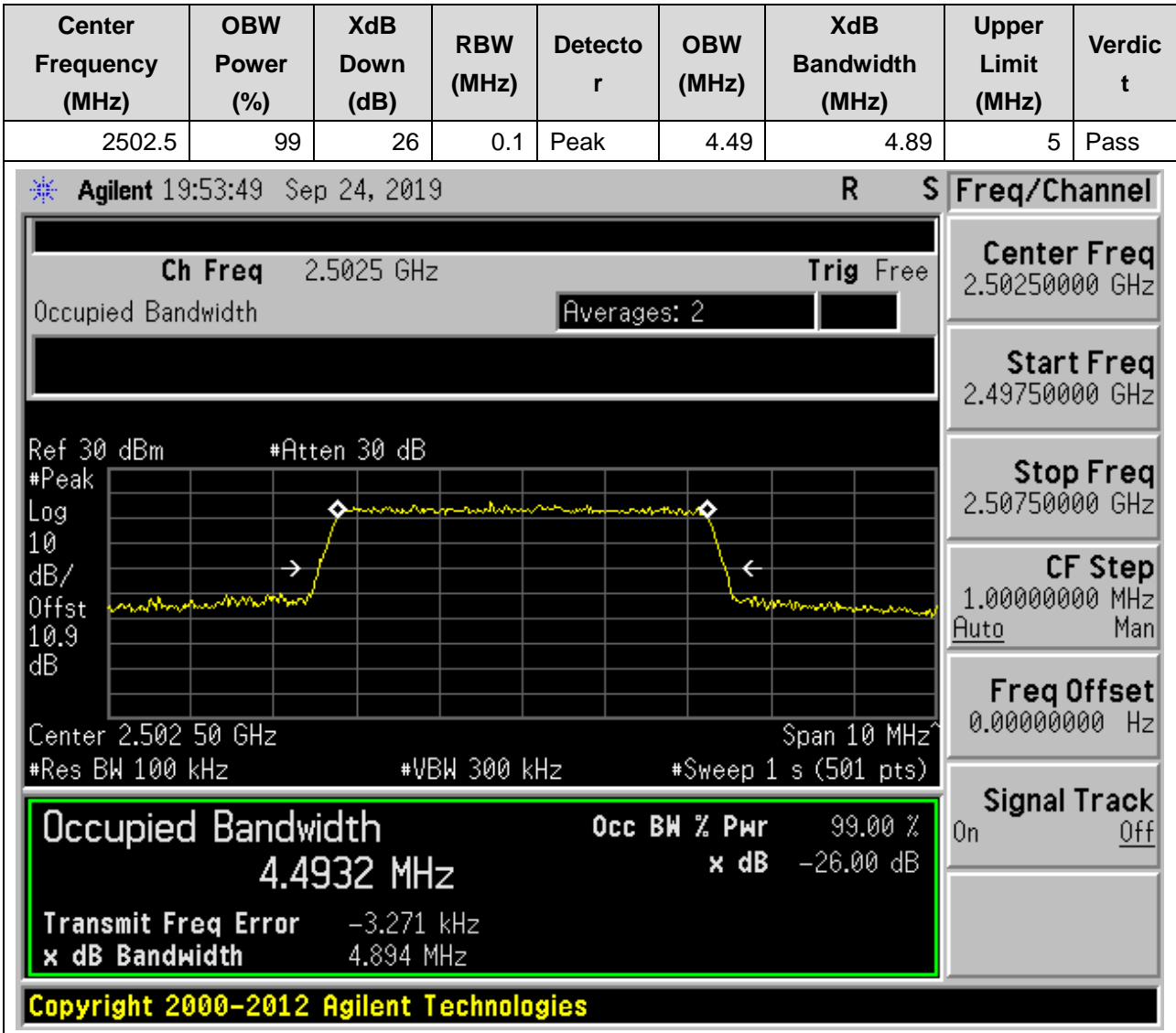


## 11. LTE\_Band7

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



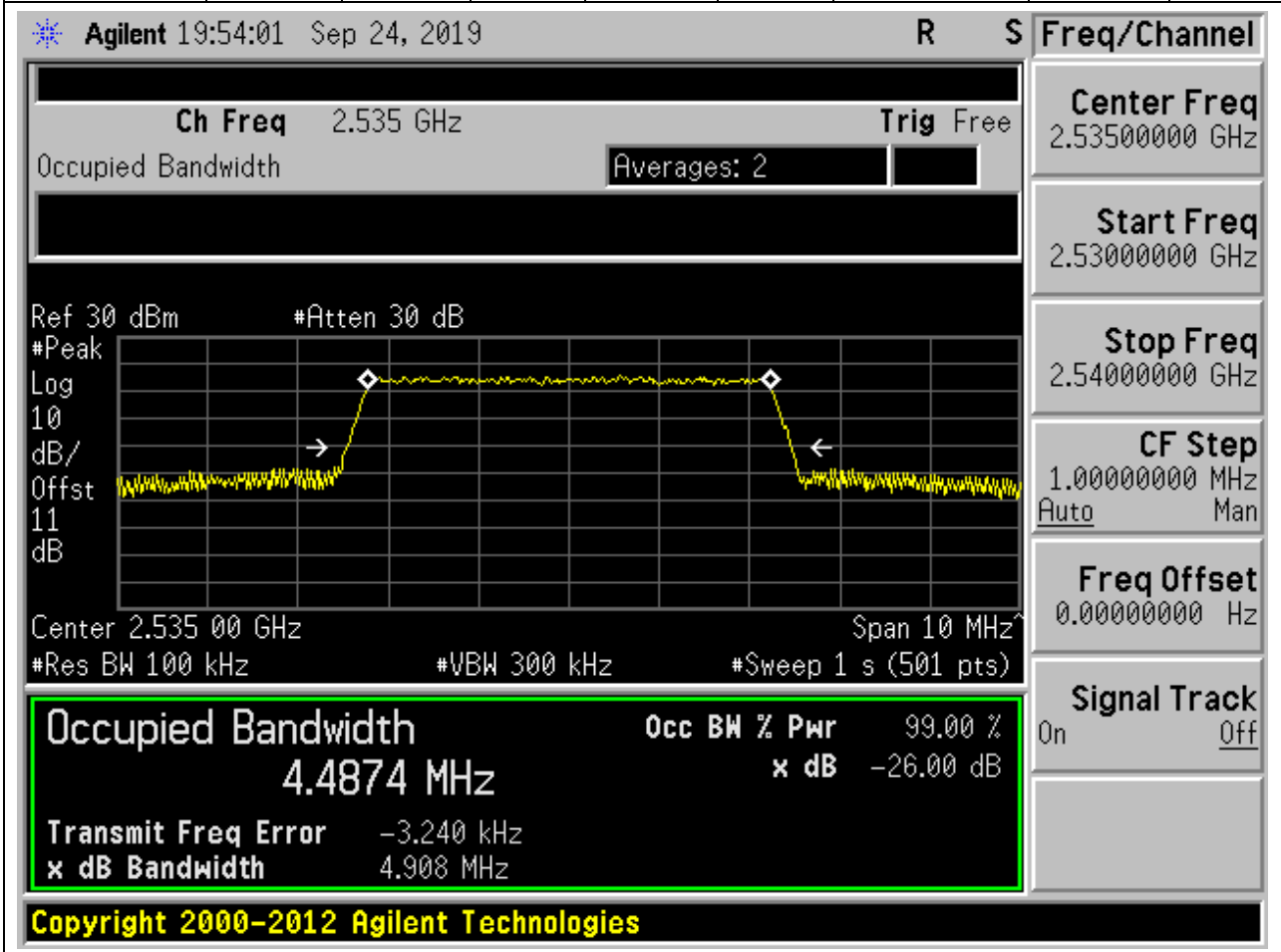
**11.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:20775, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



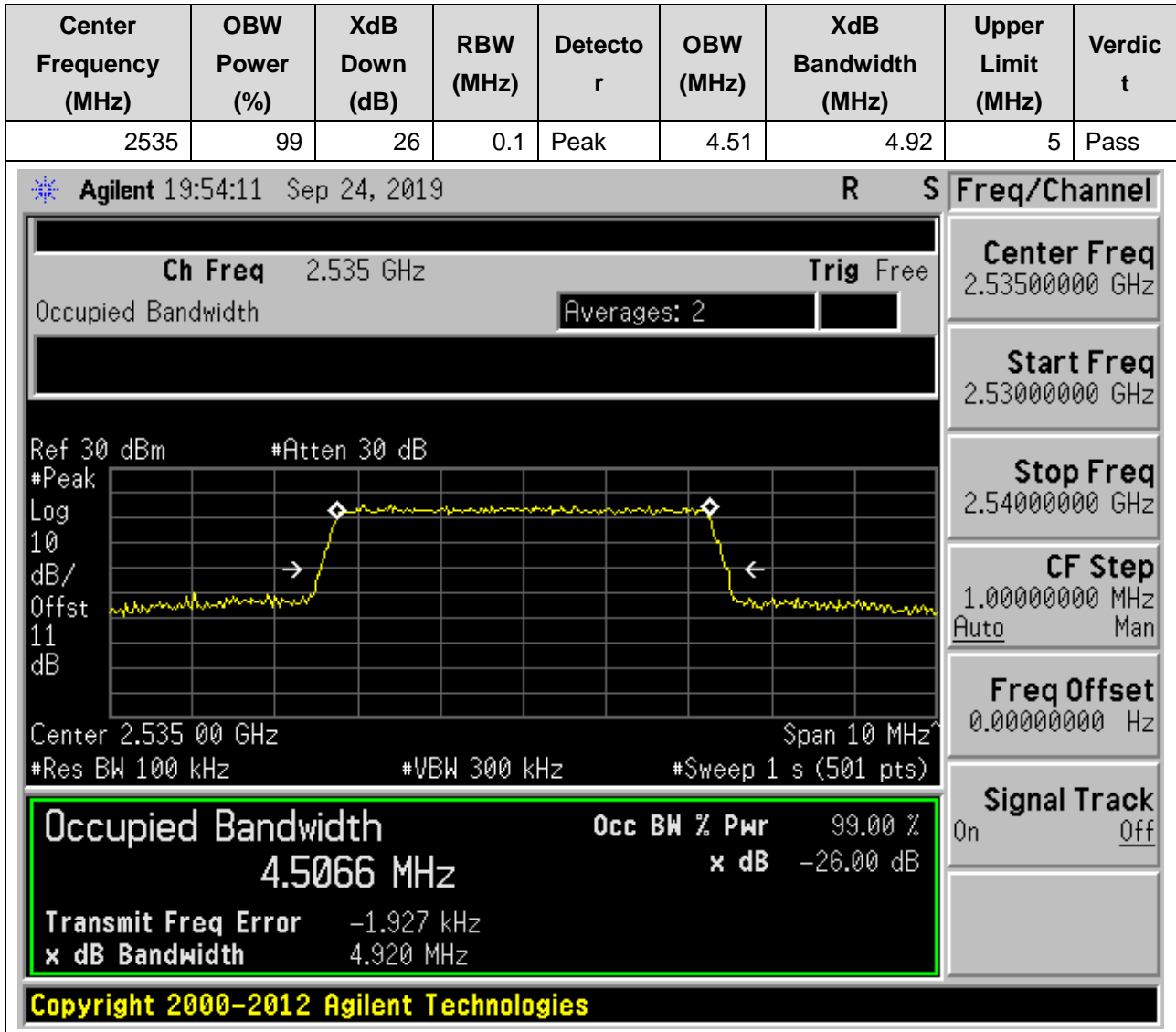


**11.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:21100, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

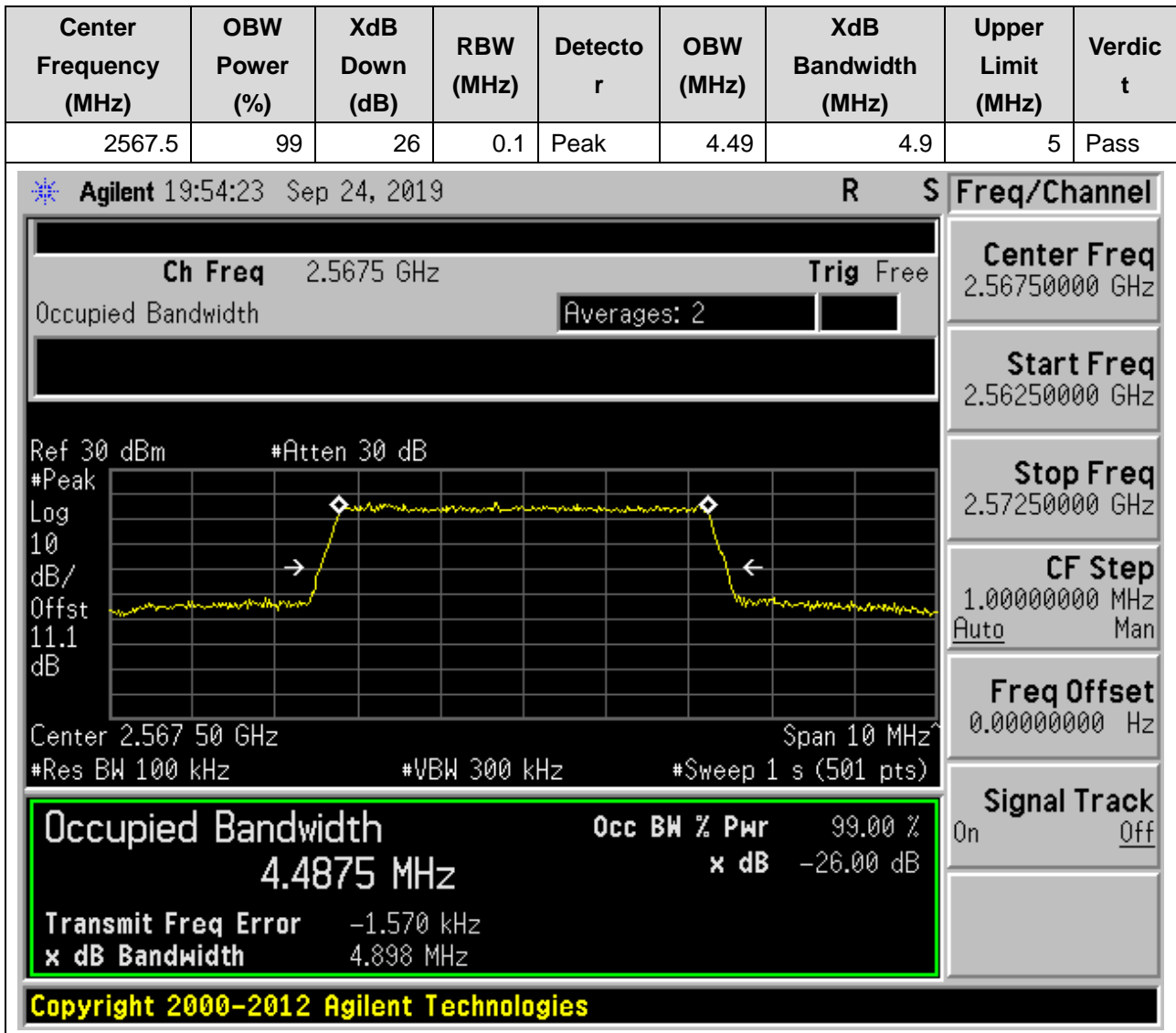
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.1	Peak	4.49	4.91	5	Pass



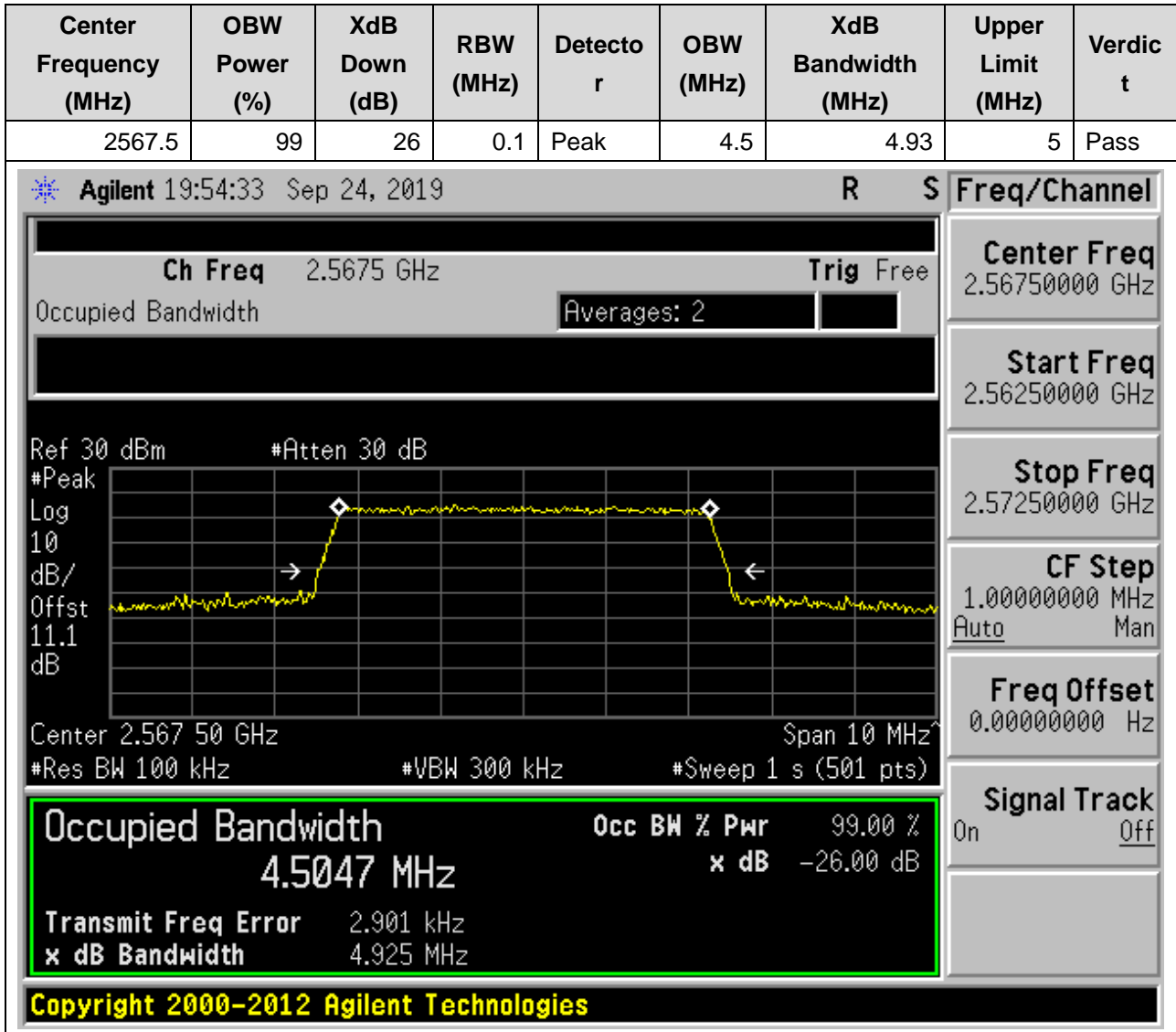
**11.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:21100, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



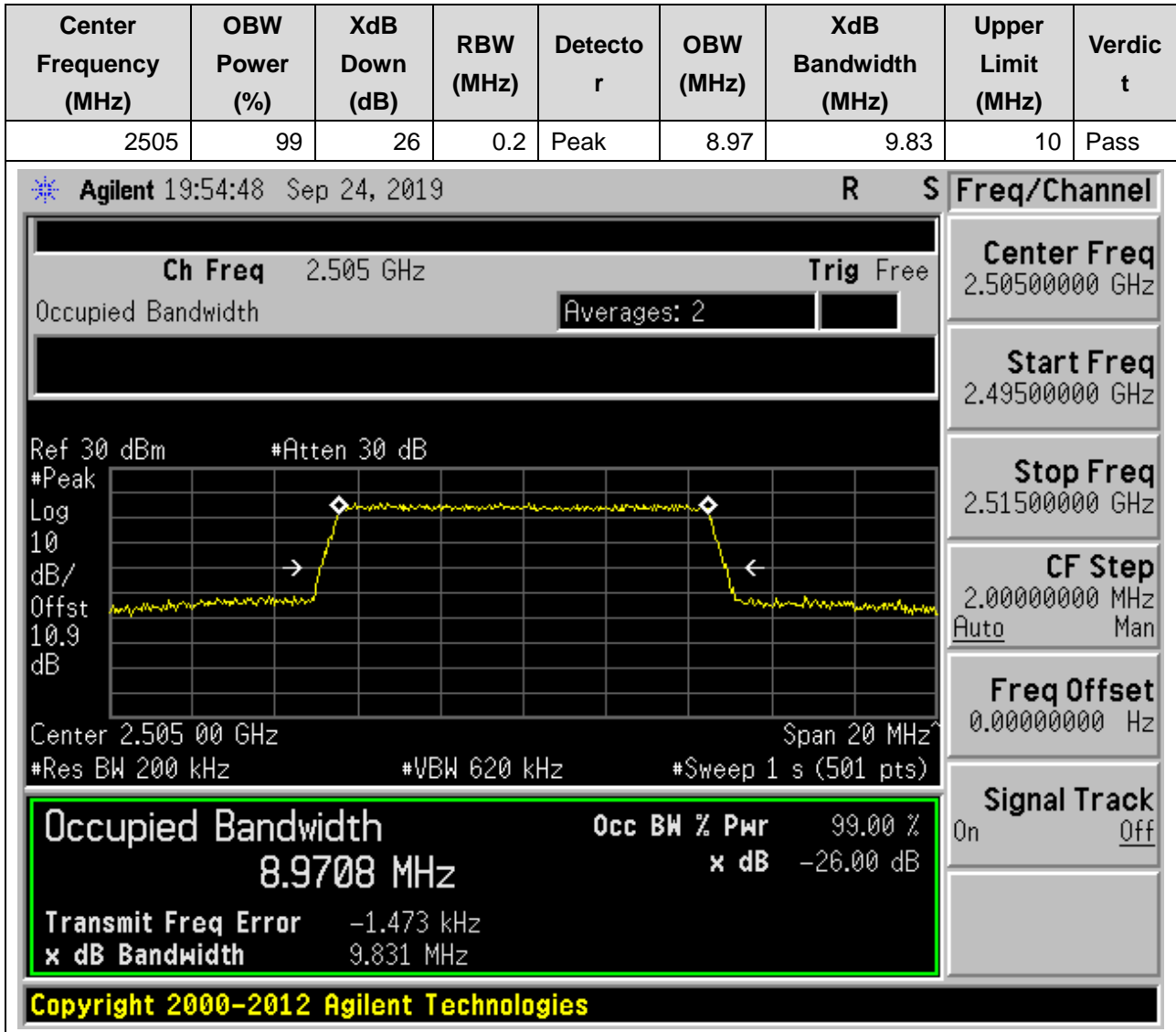
**11.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:21425, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



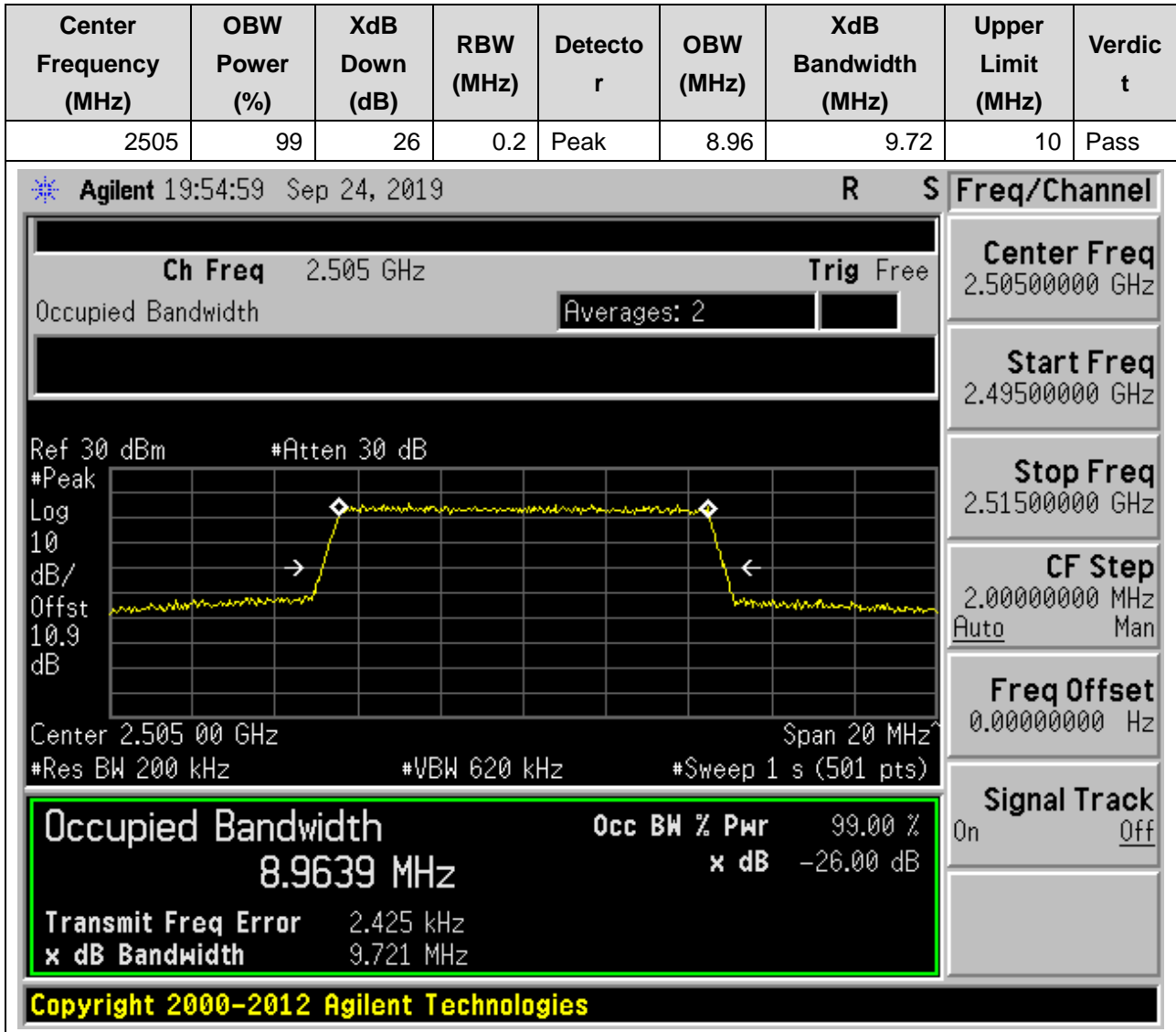
**11.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:21425, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



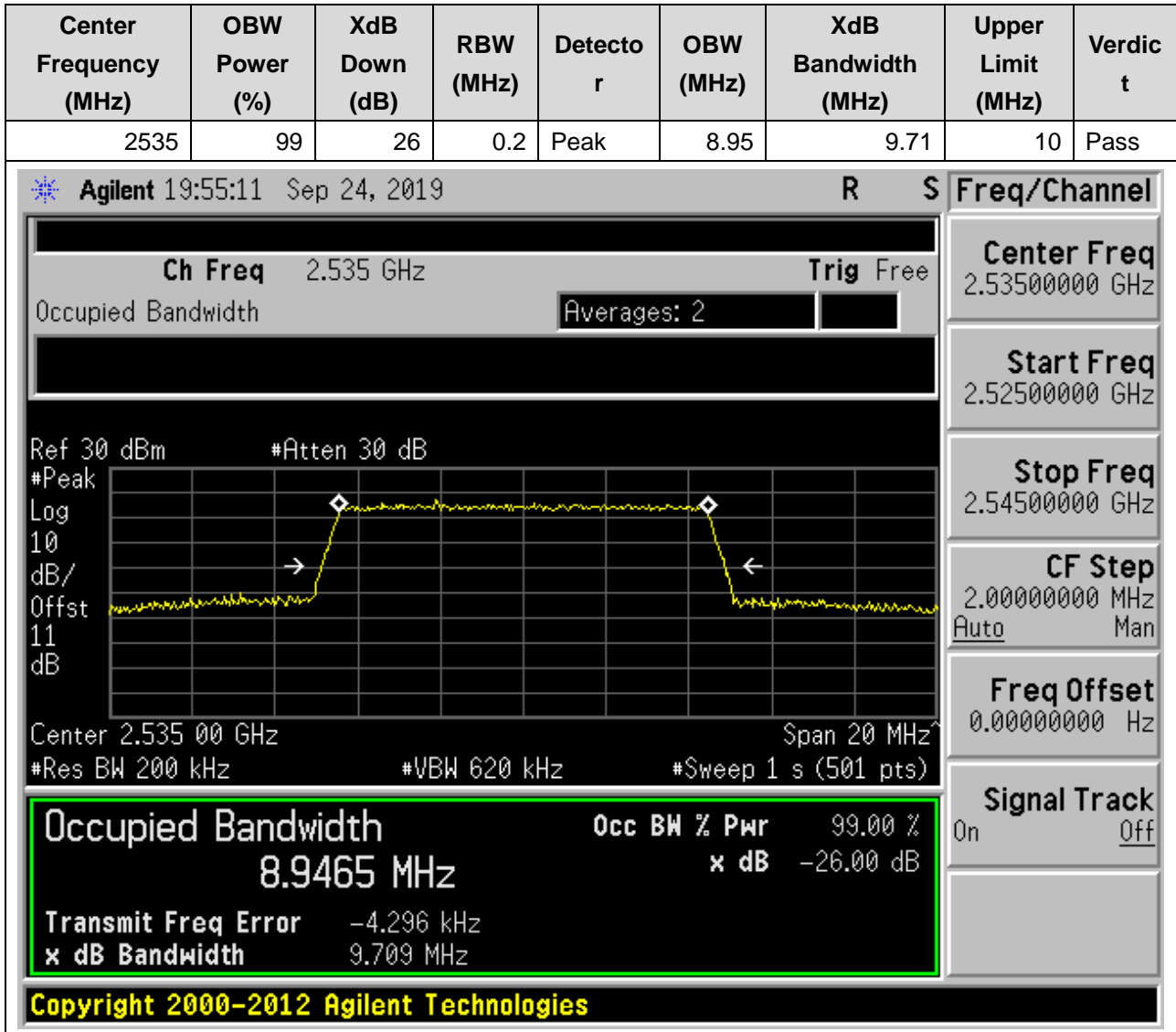
**11.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:20800, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



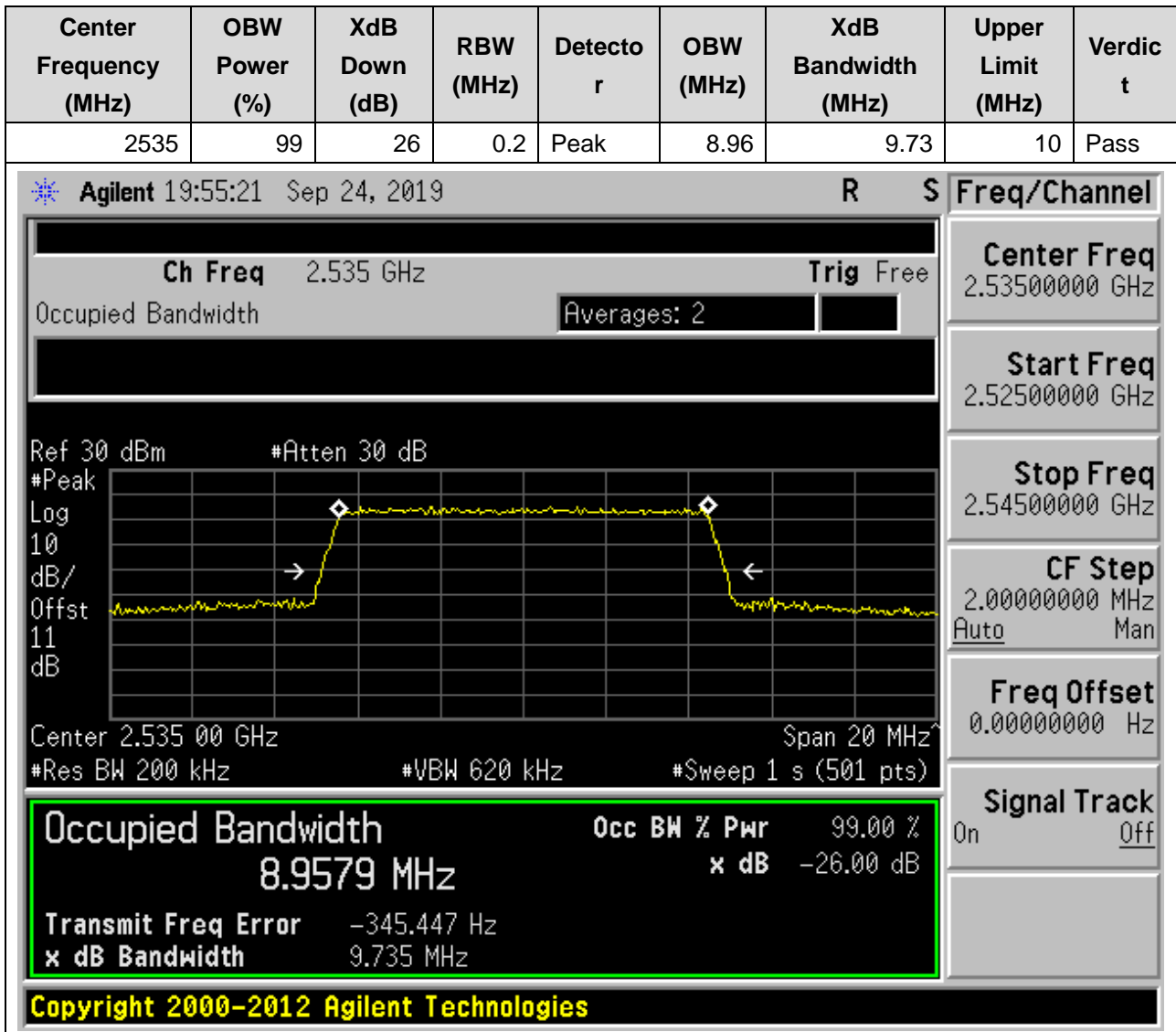
**11.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:20800, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



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

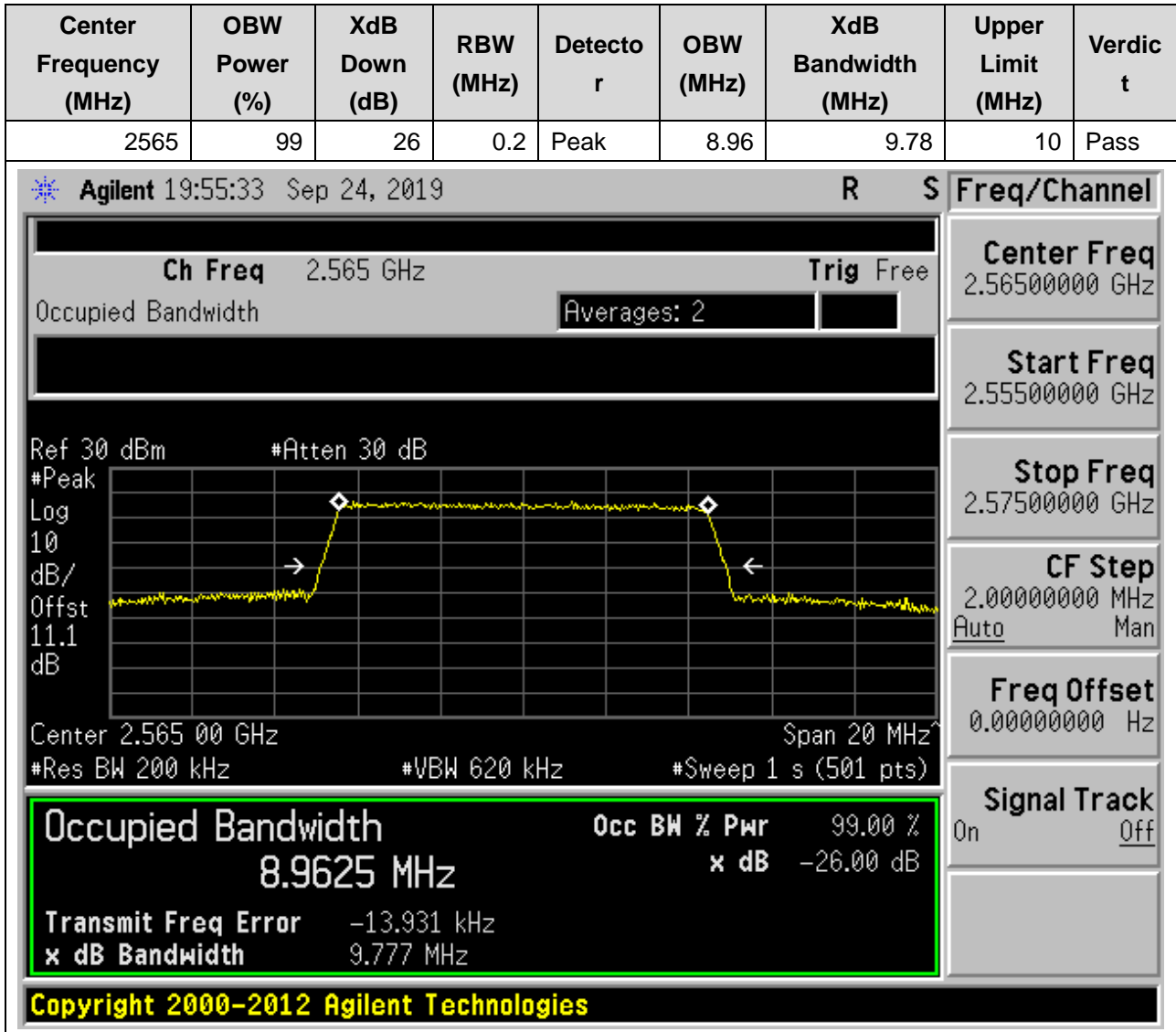


**11.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:21100, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

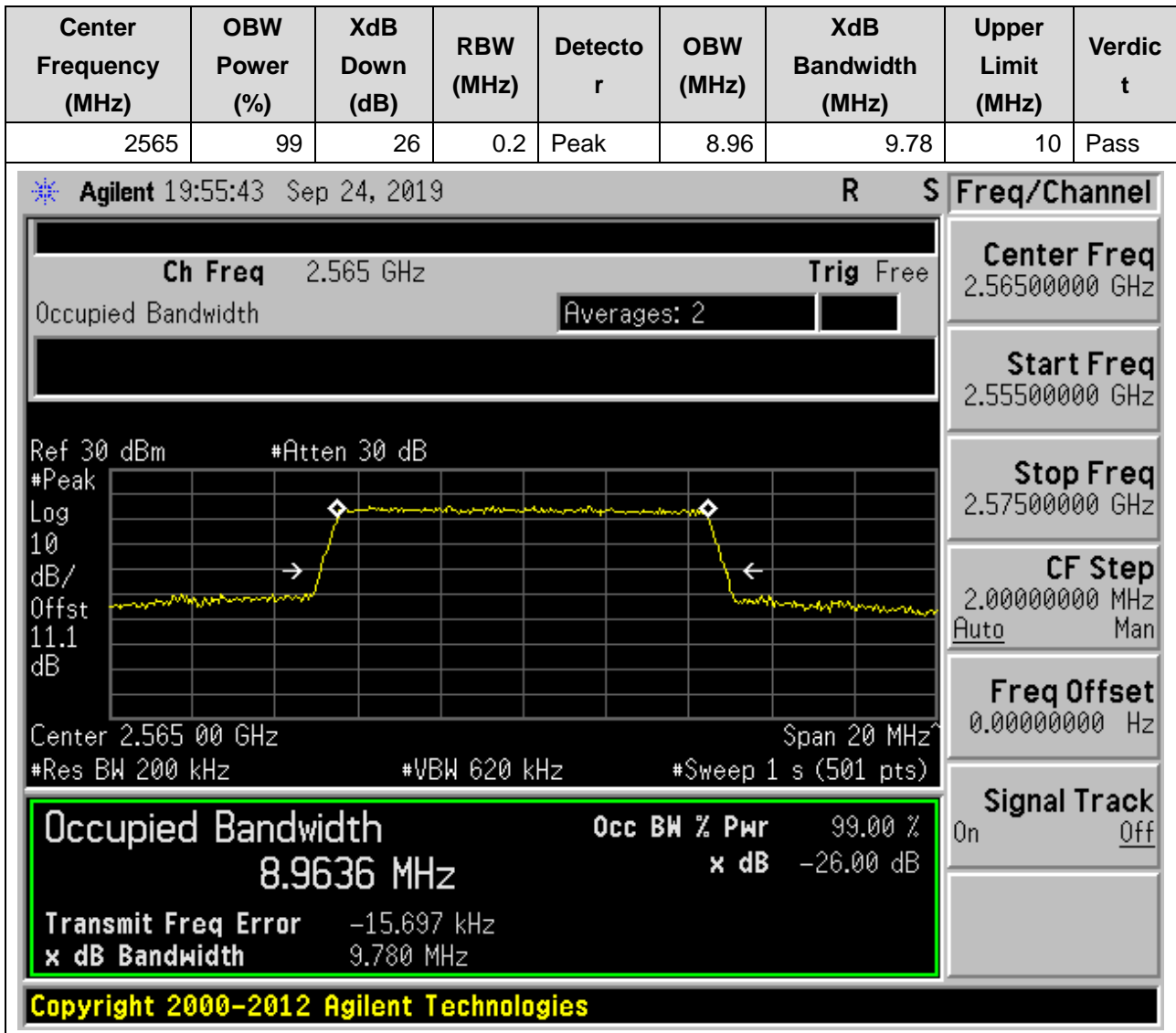




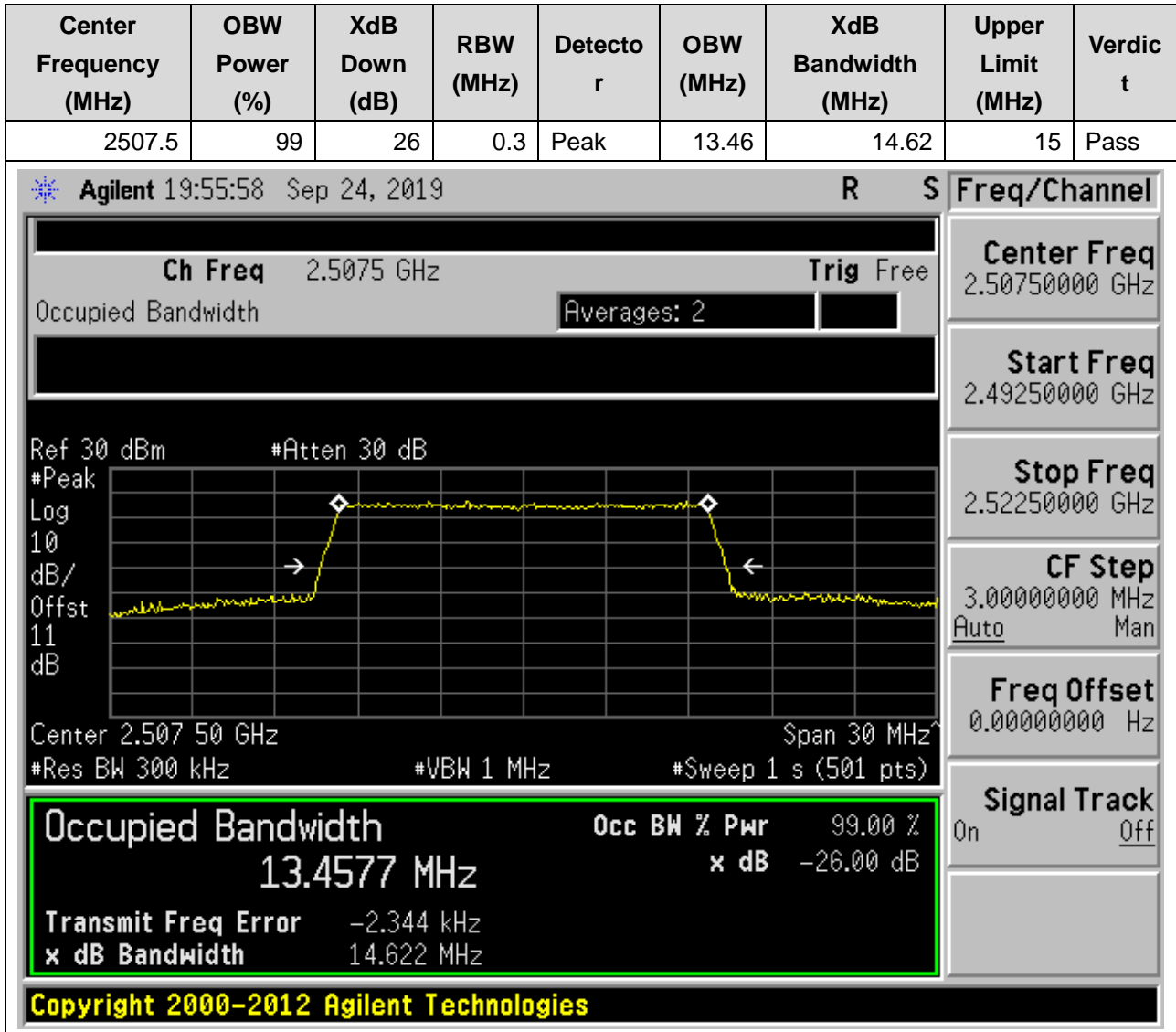
11.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:21400, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



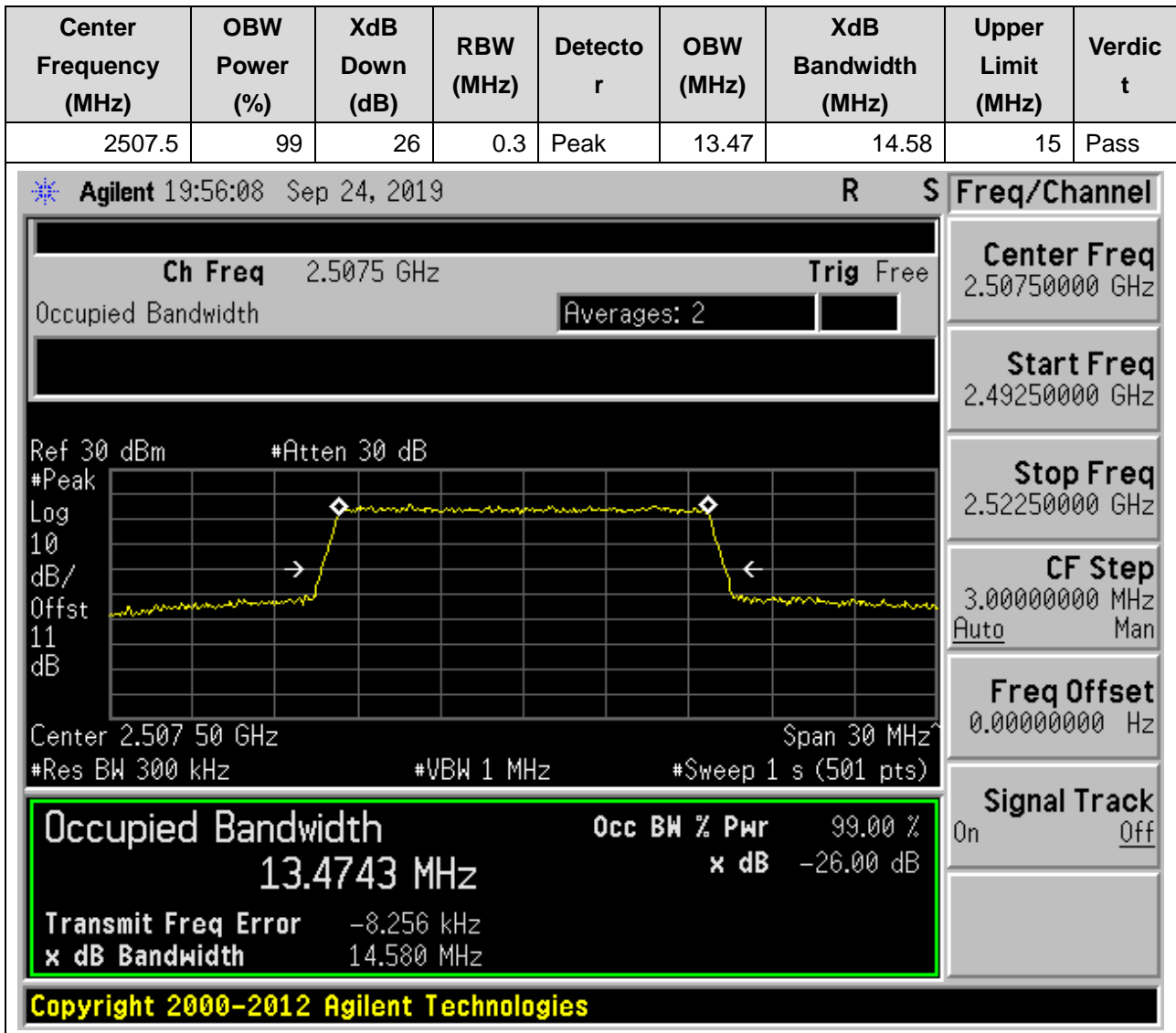
**11.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:21400, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



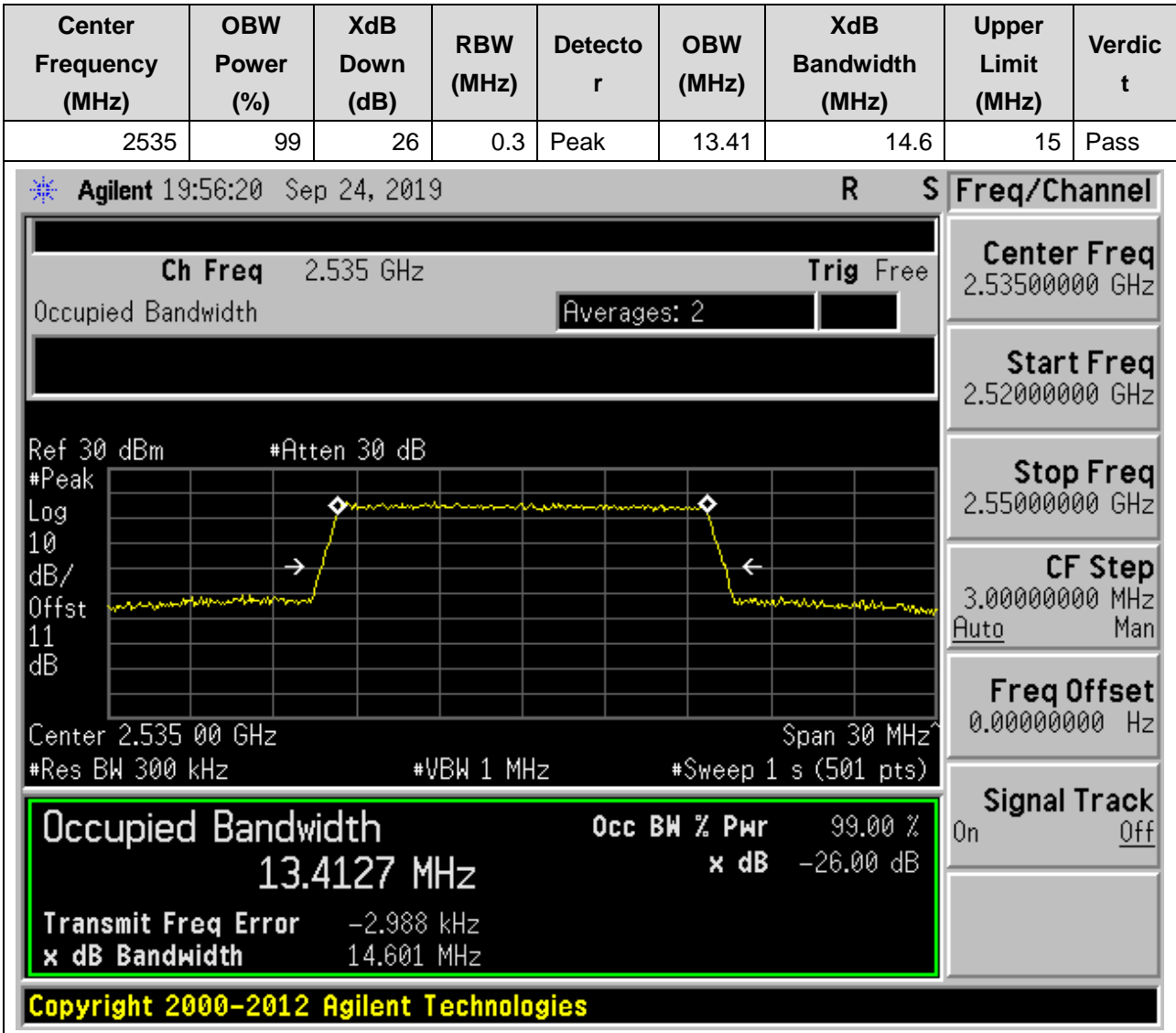
**11.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:20825, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



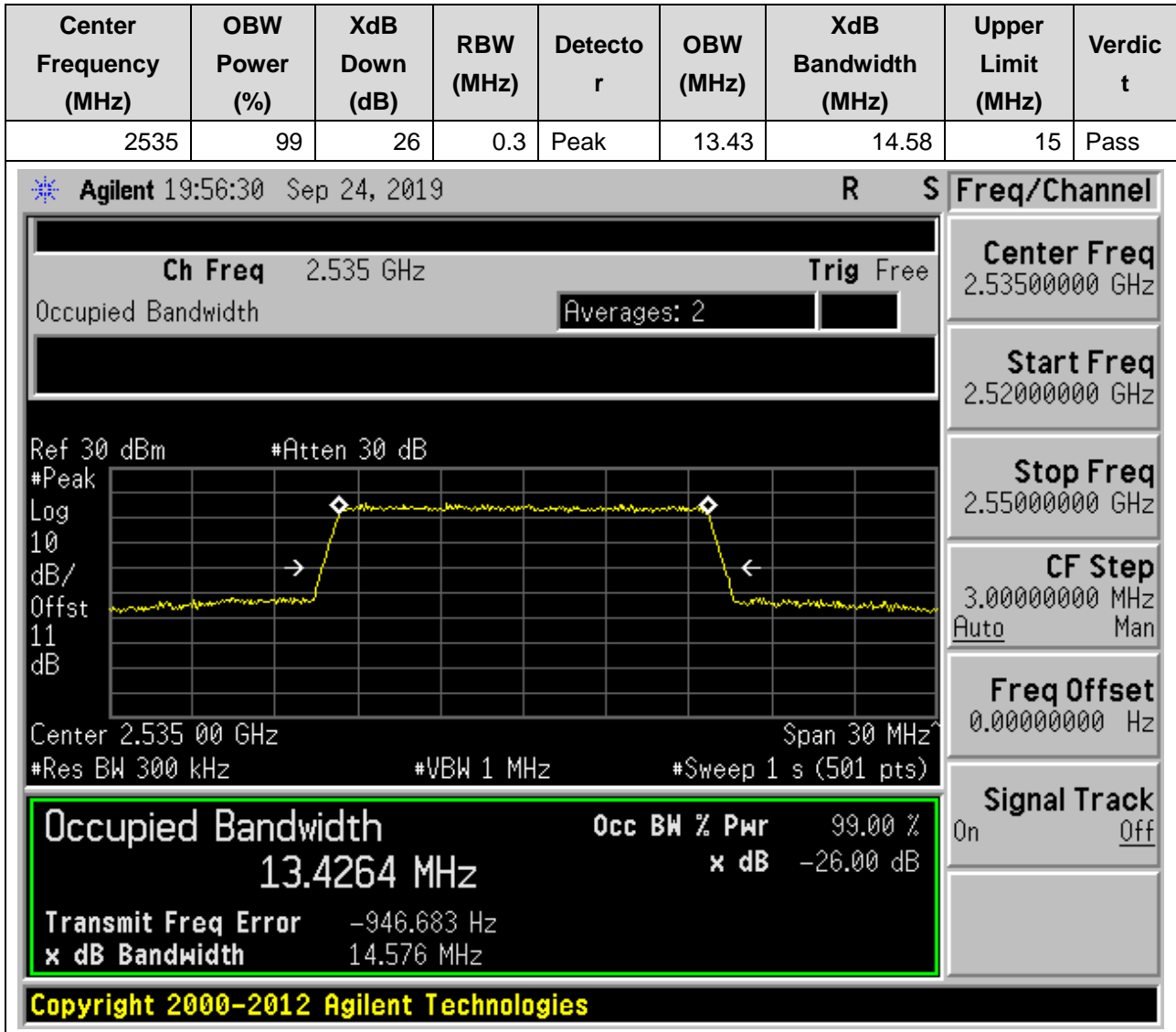
**11.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:20825, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



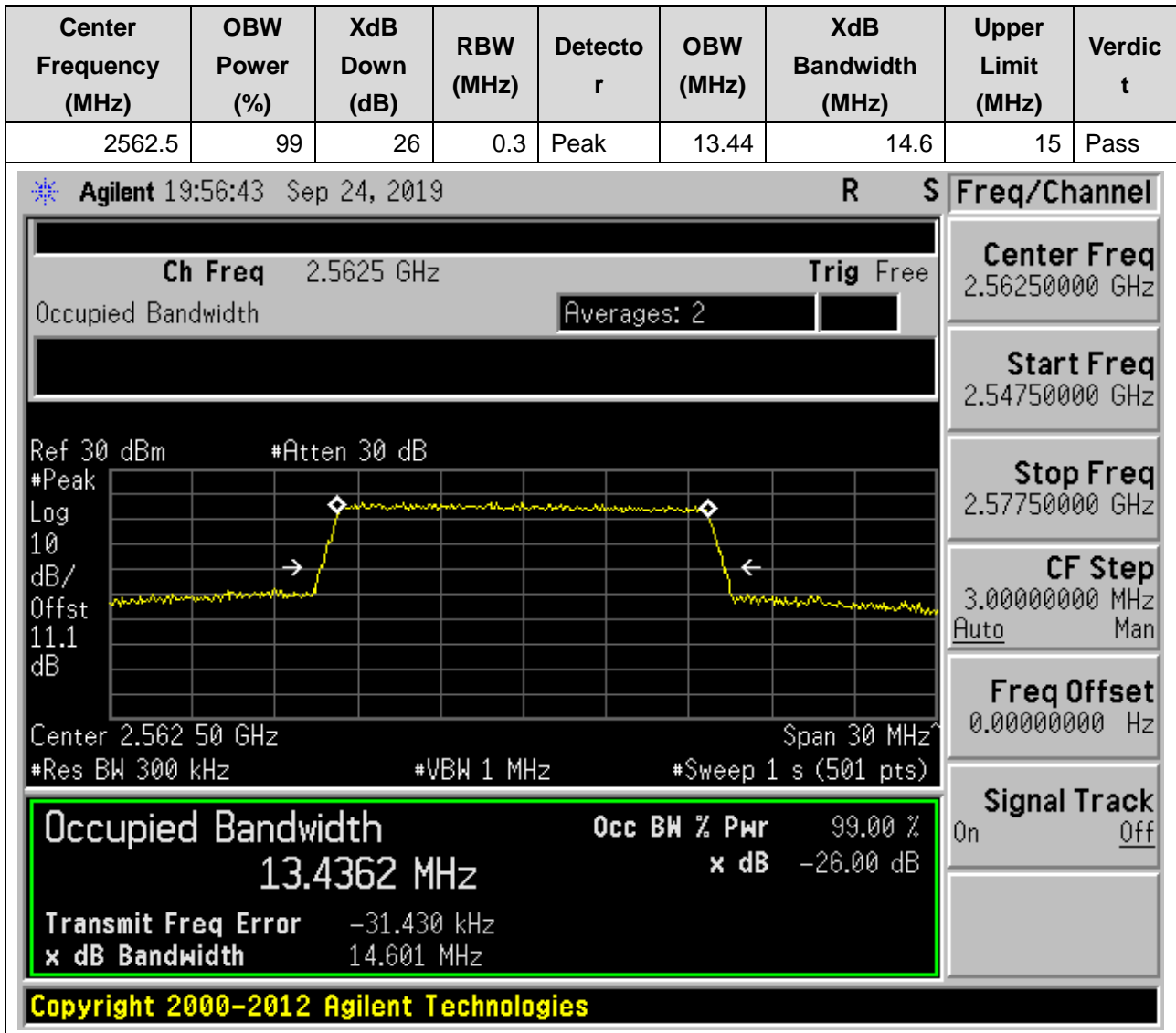
**11.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:21100, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



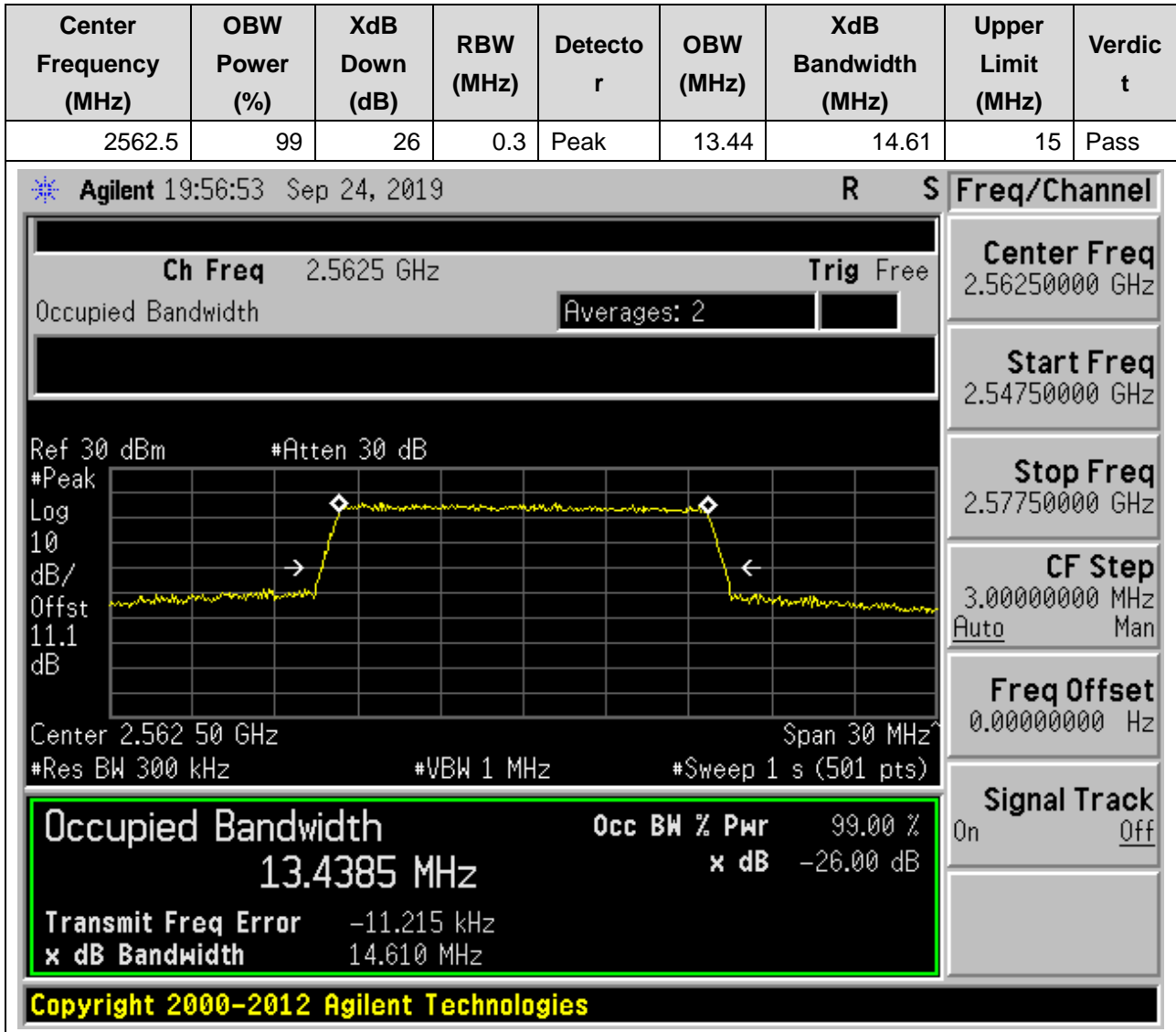
**11.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:21100, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



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

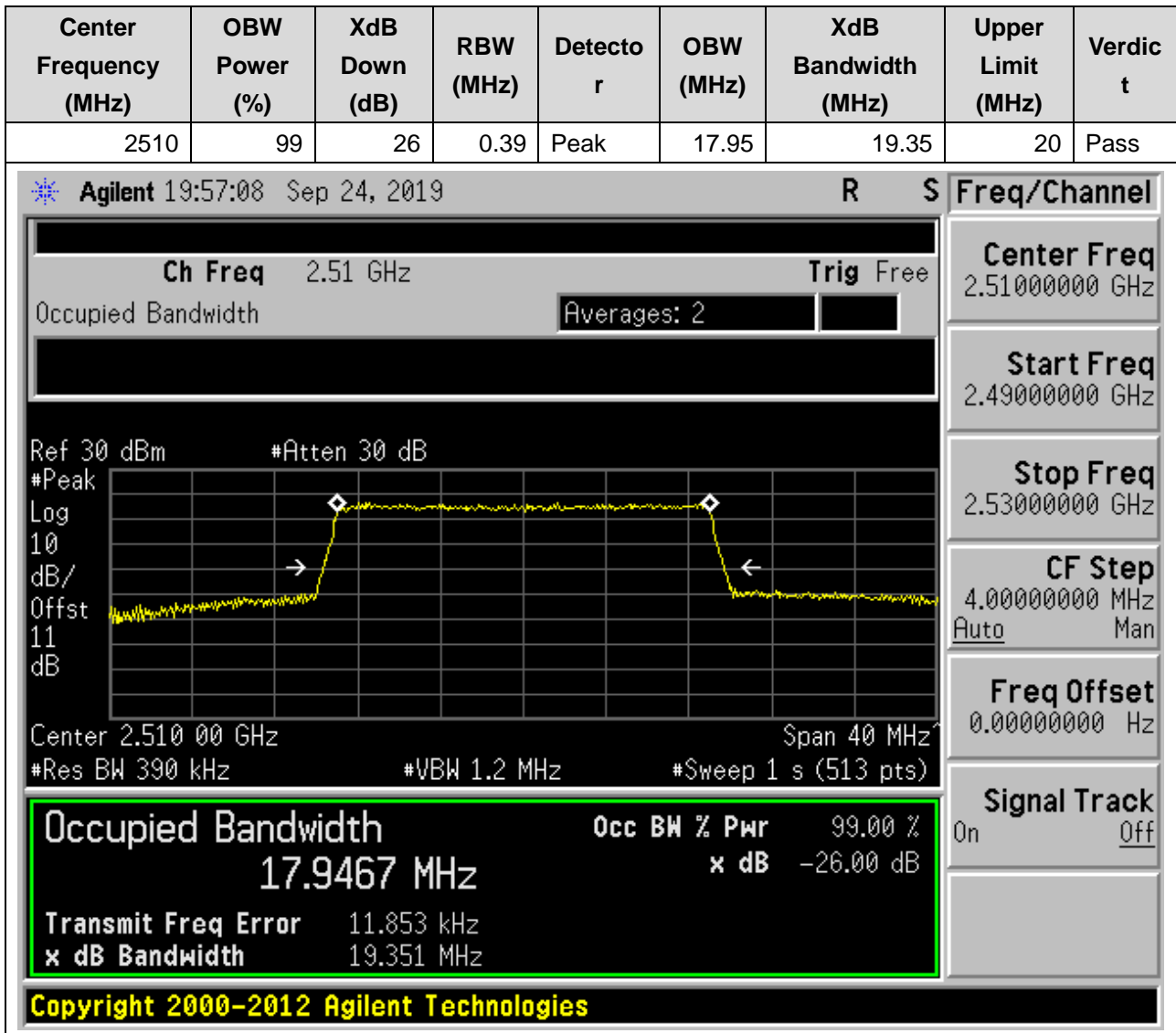


**11.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:21375, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

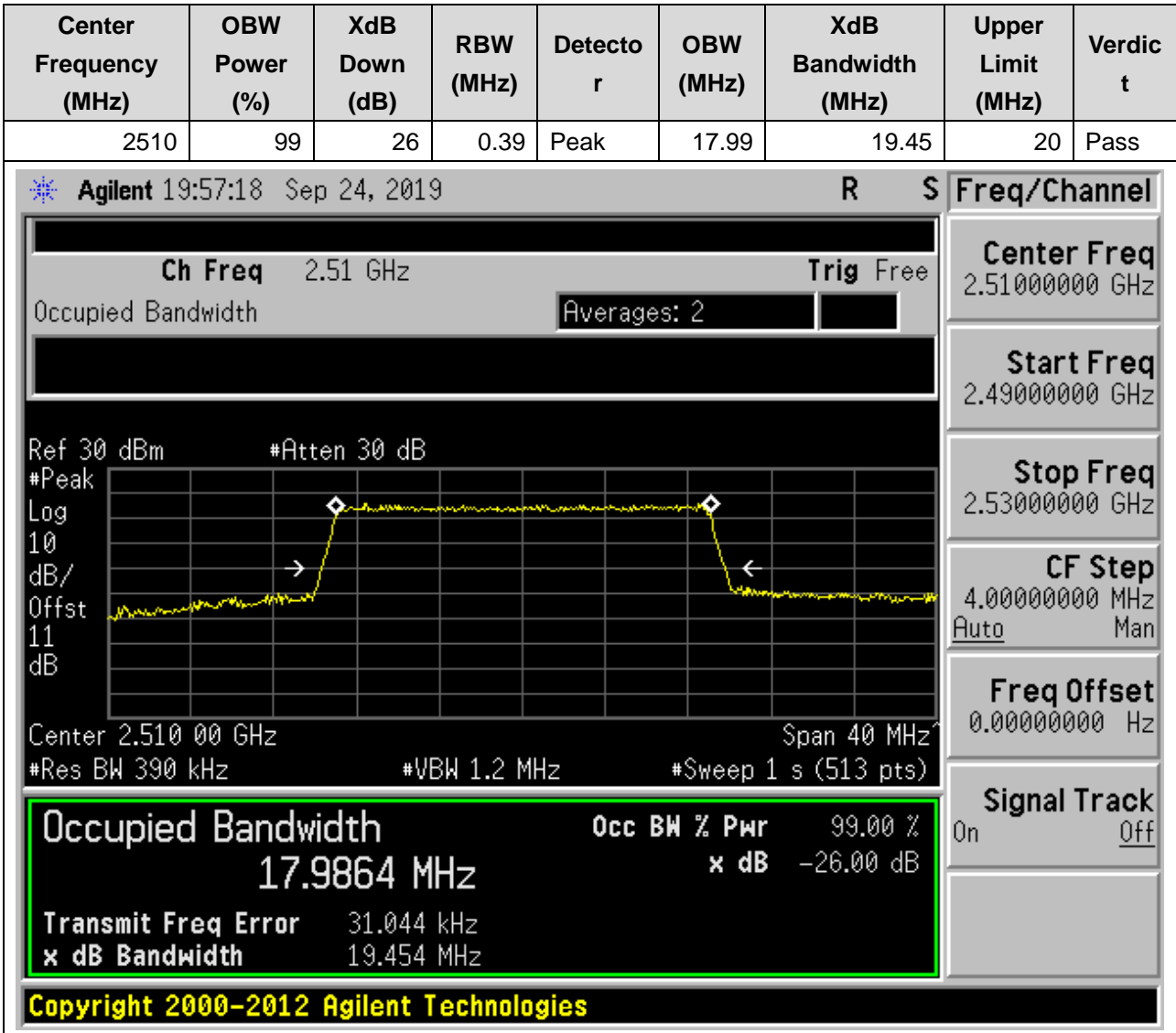




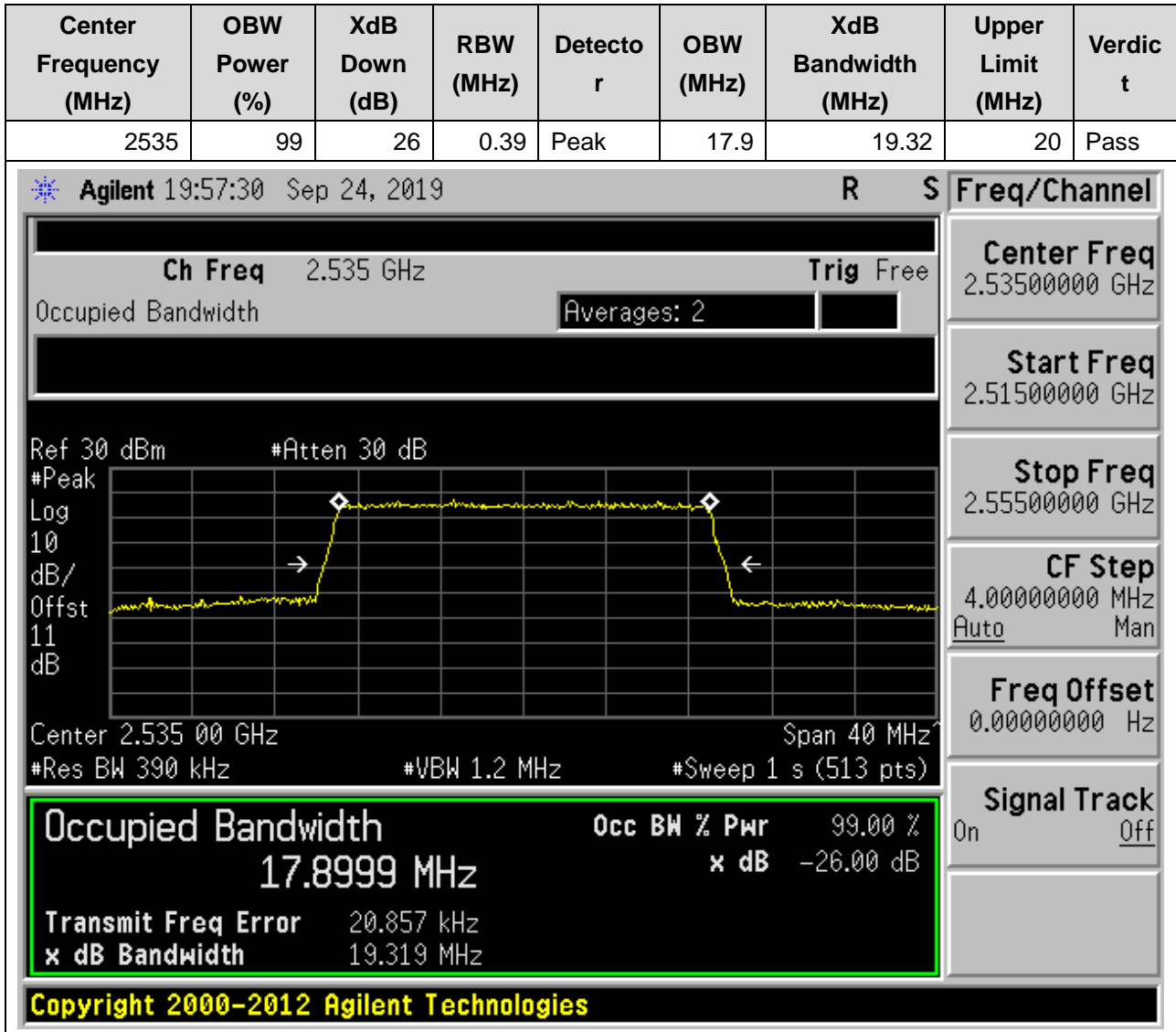
**11.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:20850, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



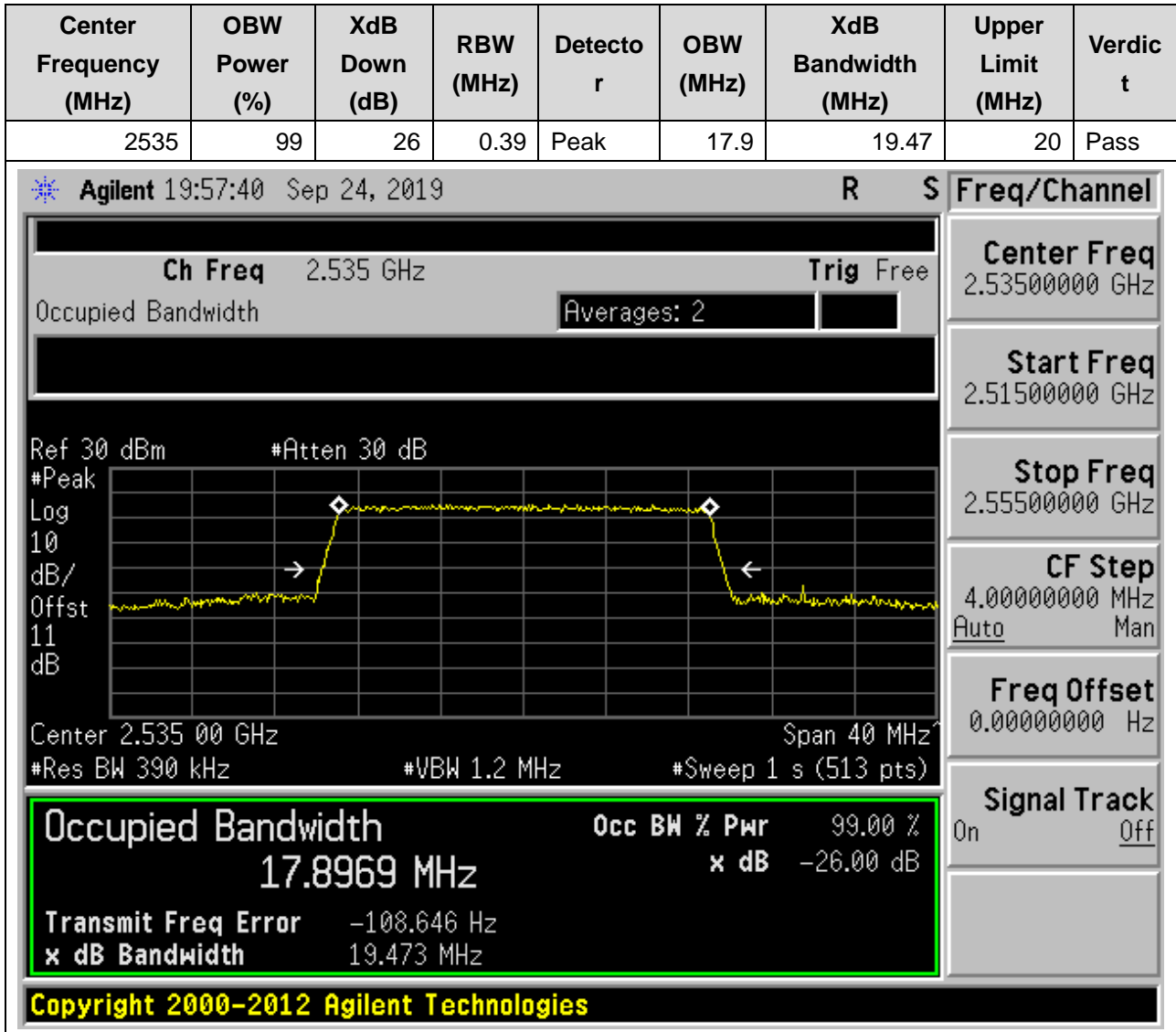
**11.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



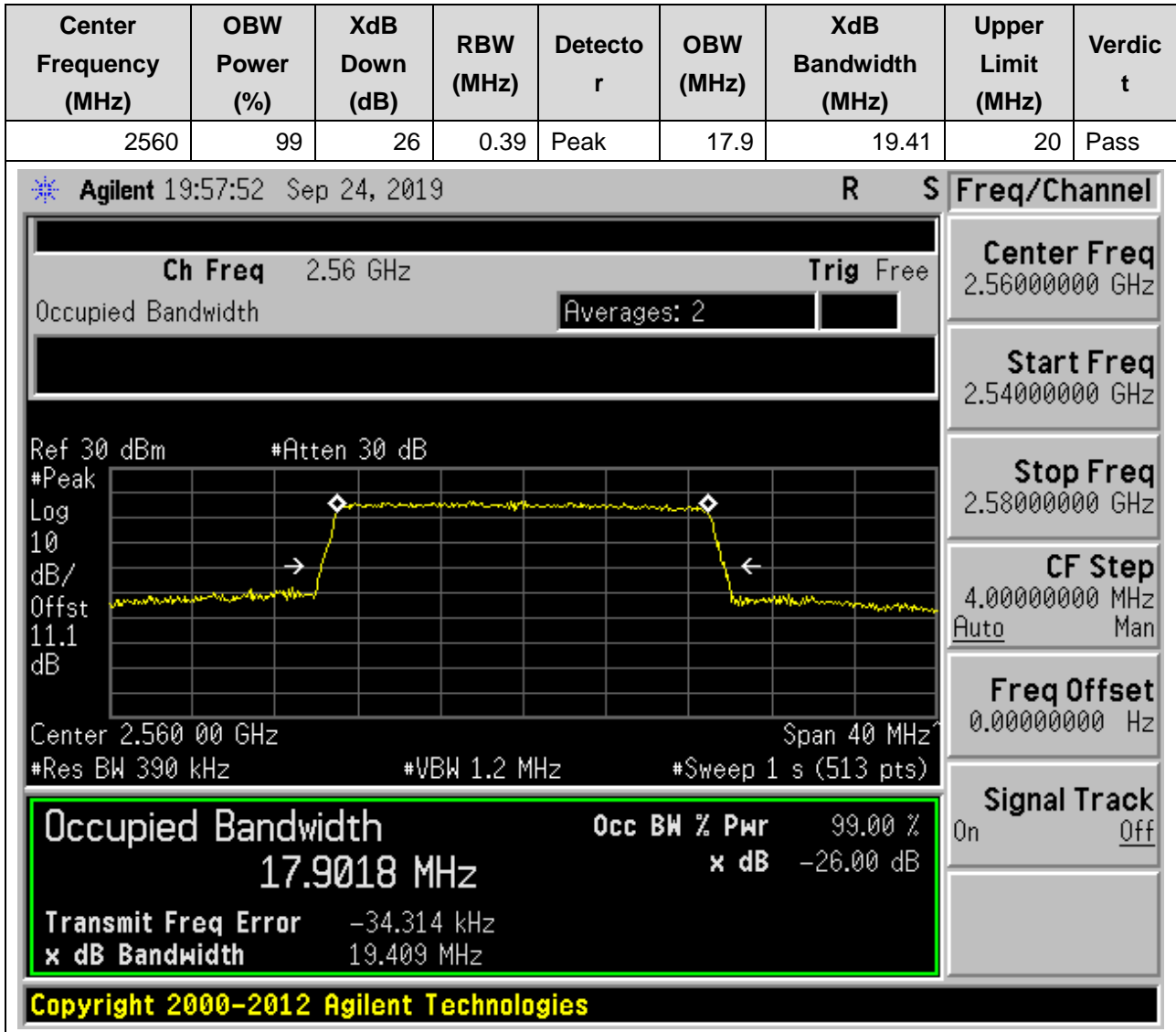
**11.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:21100, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



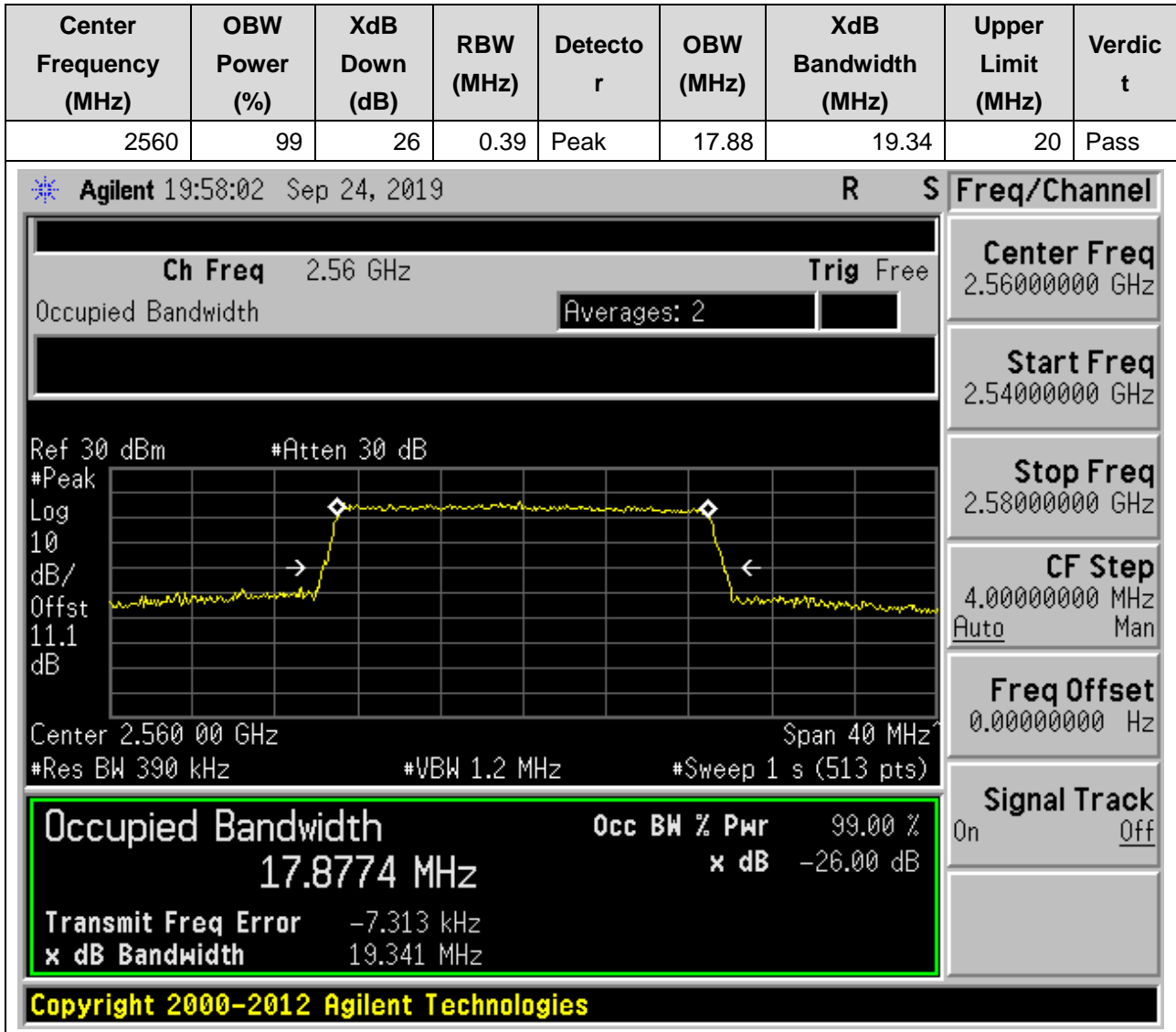
**11.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:21100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**



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

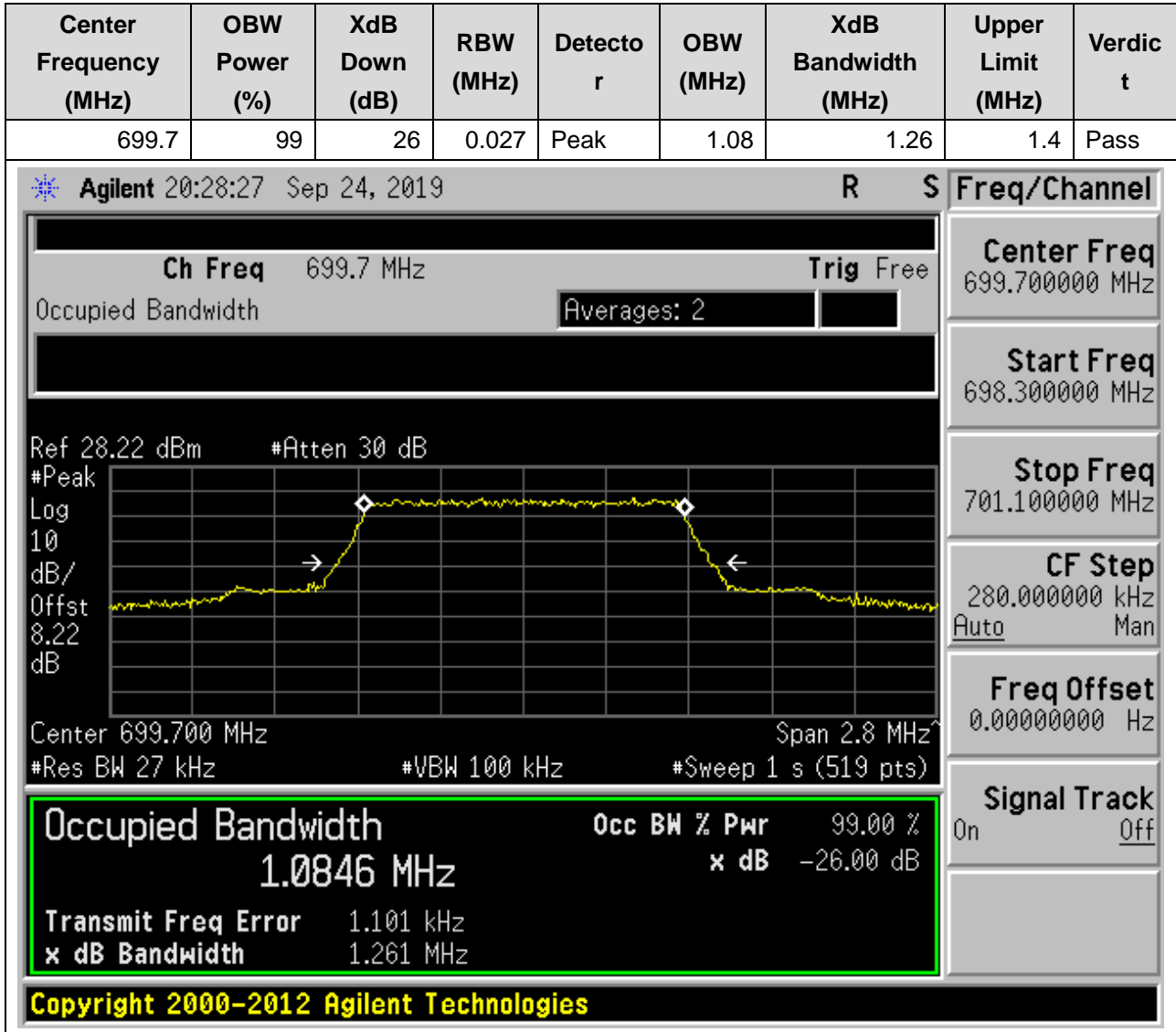


**11.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:21350, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

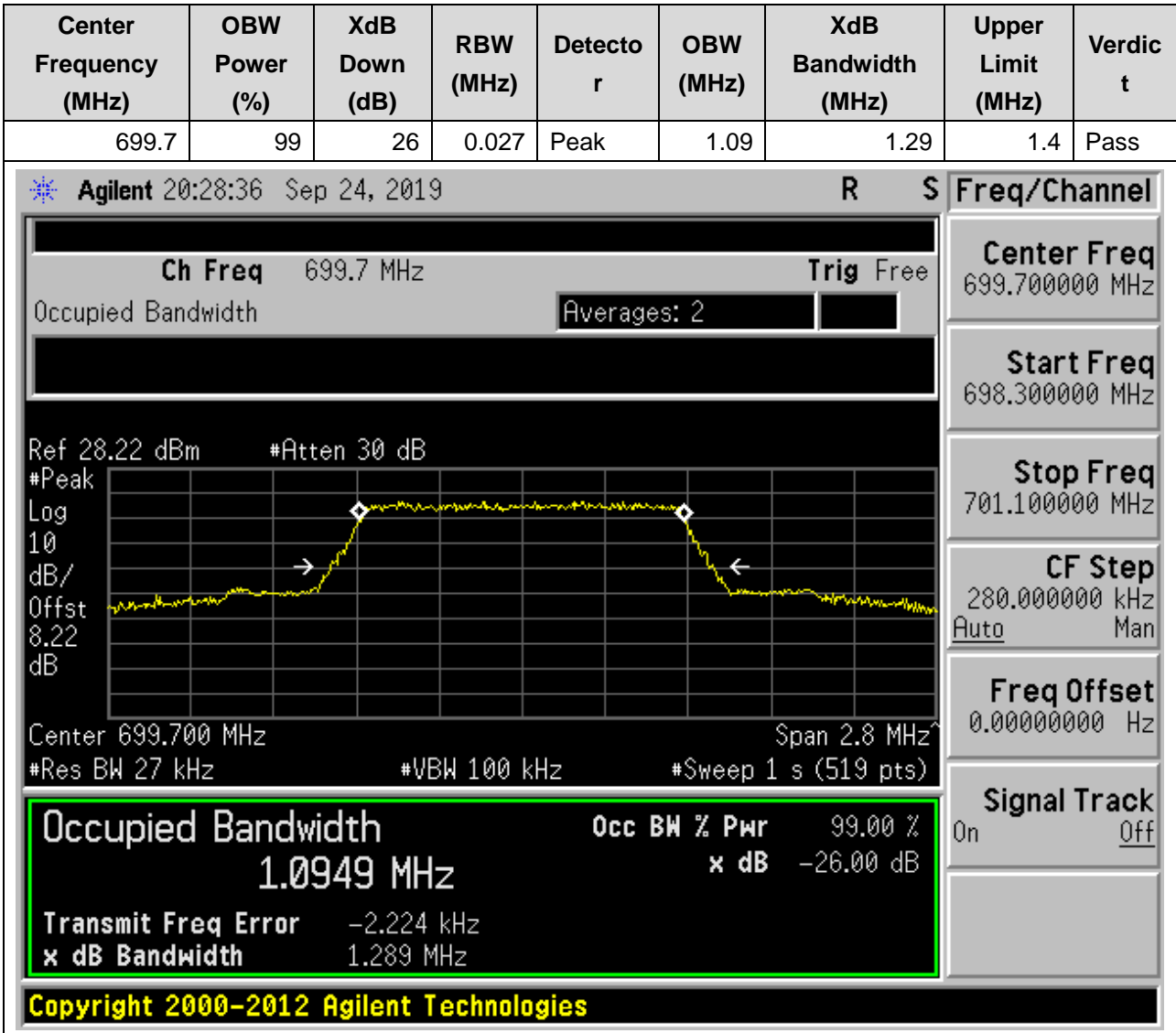


## 12. LTE\_Band12

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

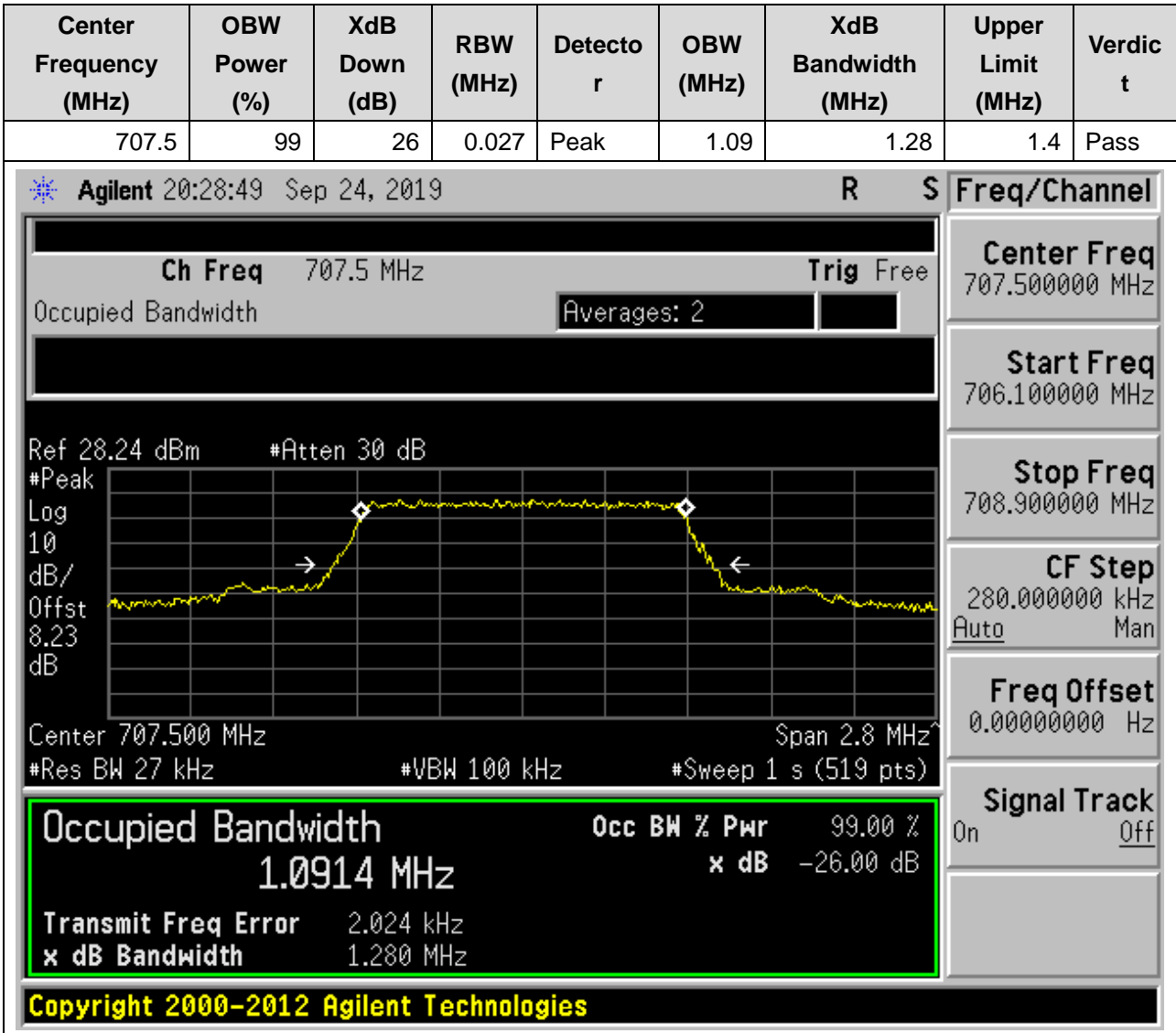


**12.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:23017, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

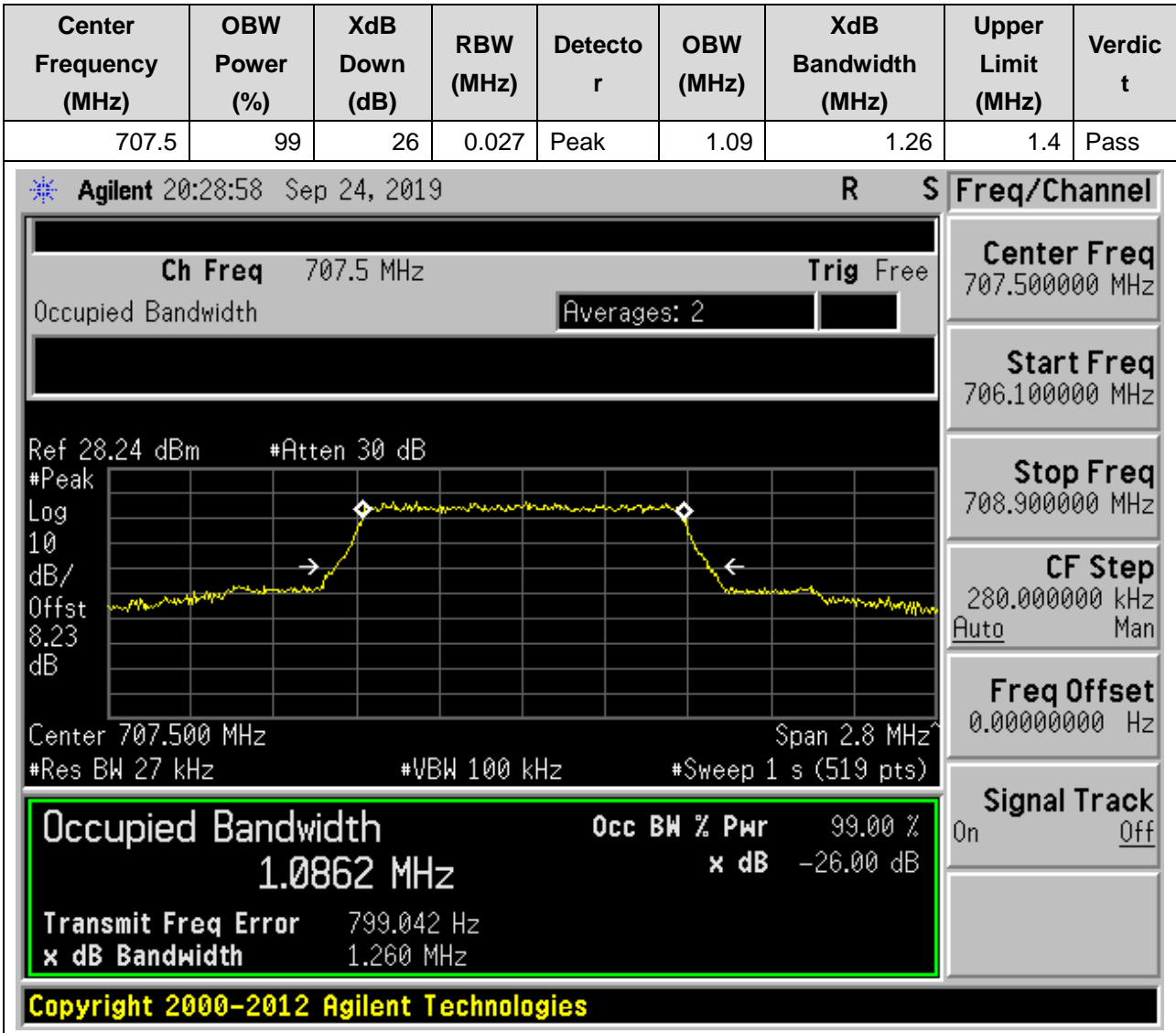




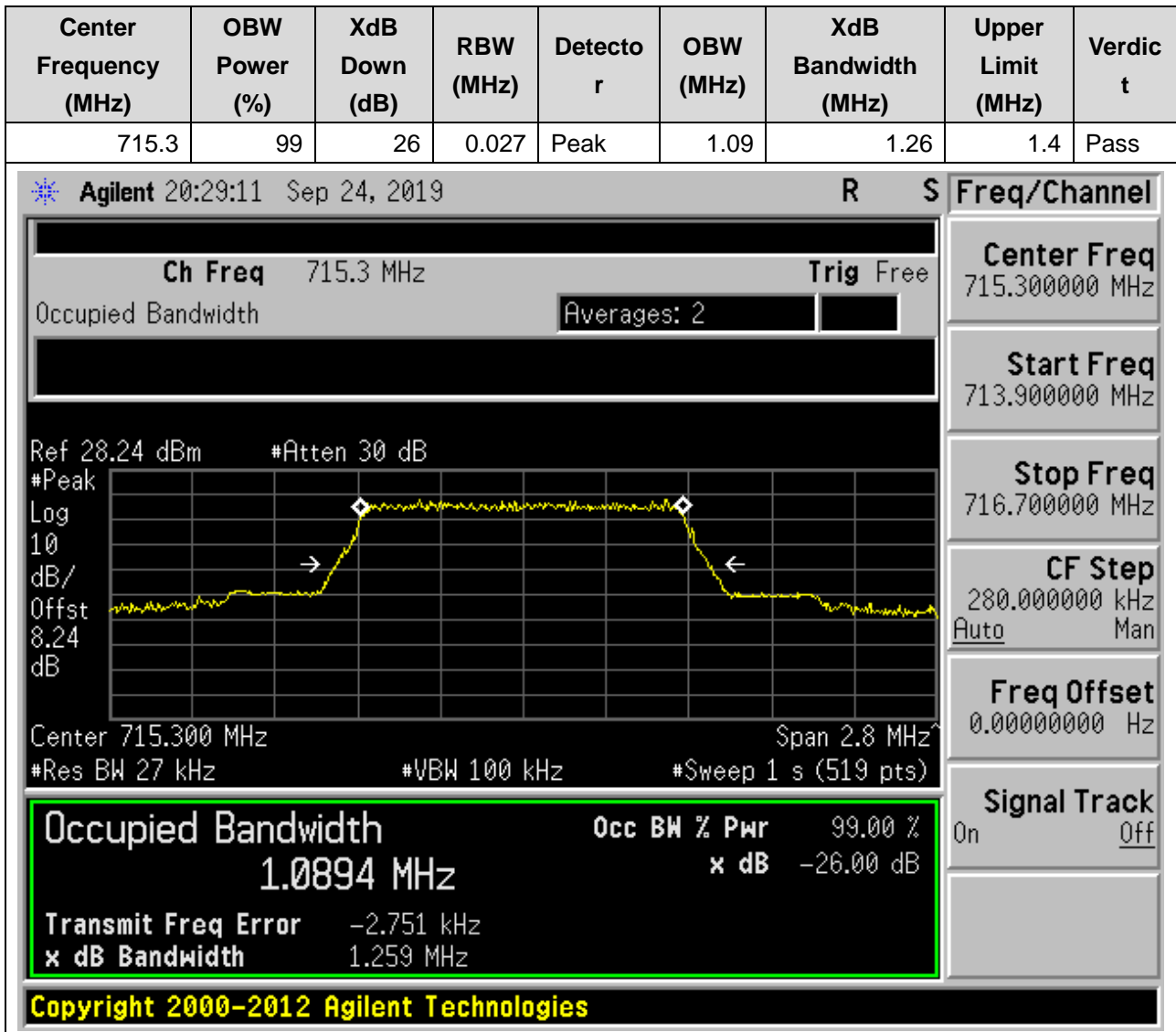
**12.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:23095, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



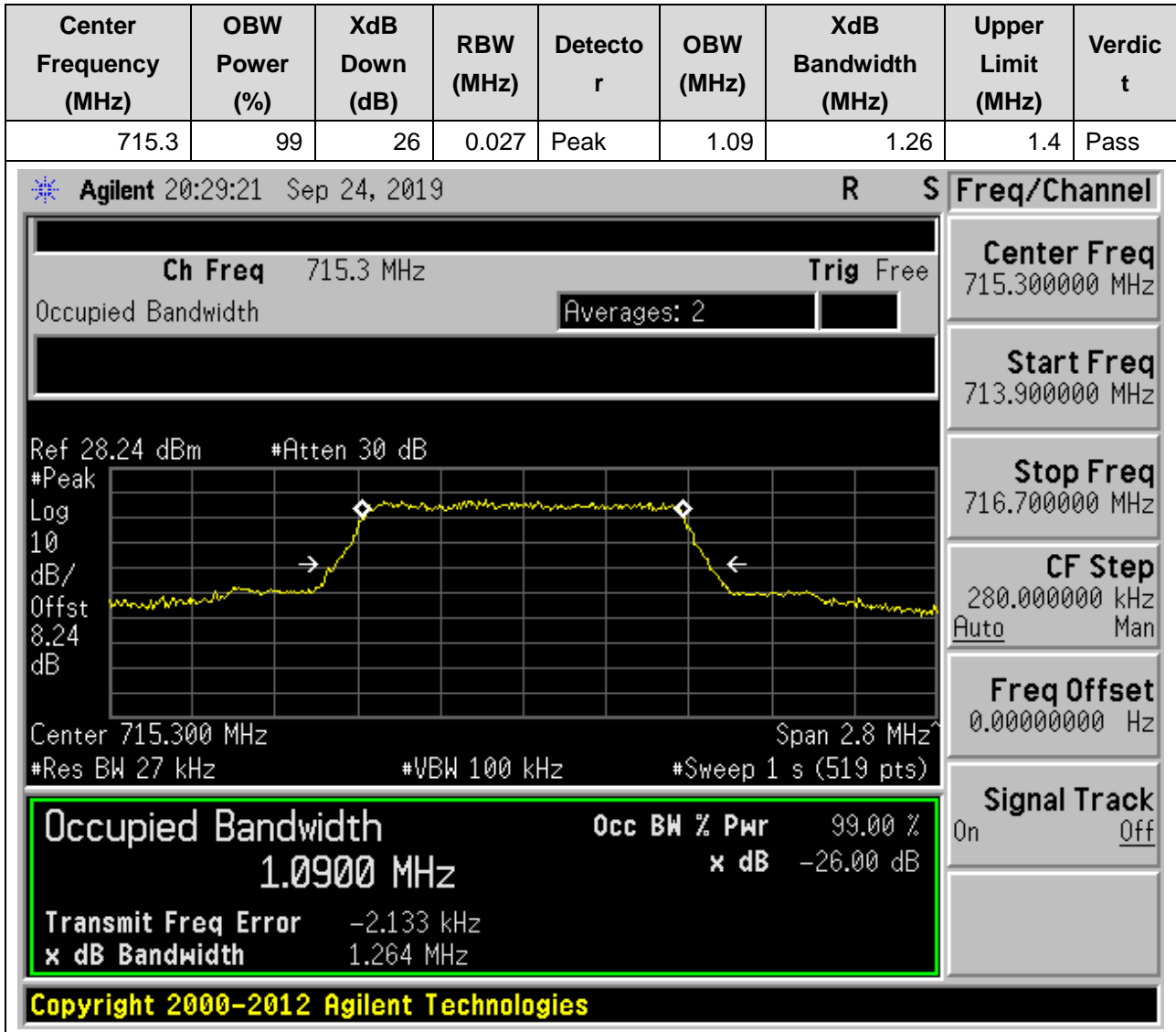
**12.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:23095, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



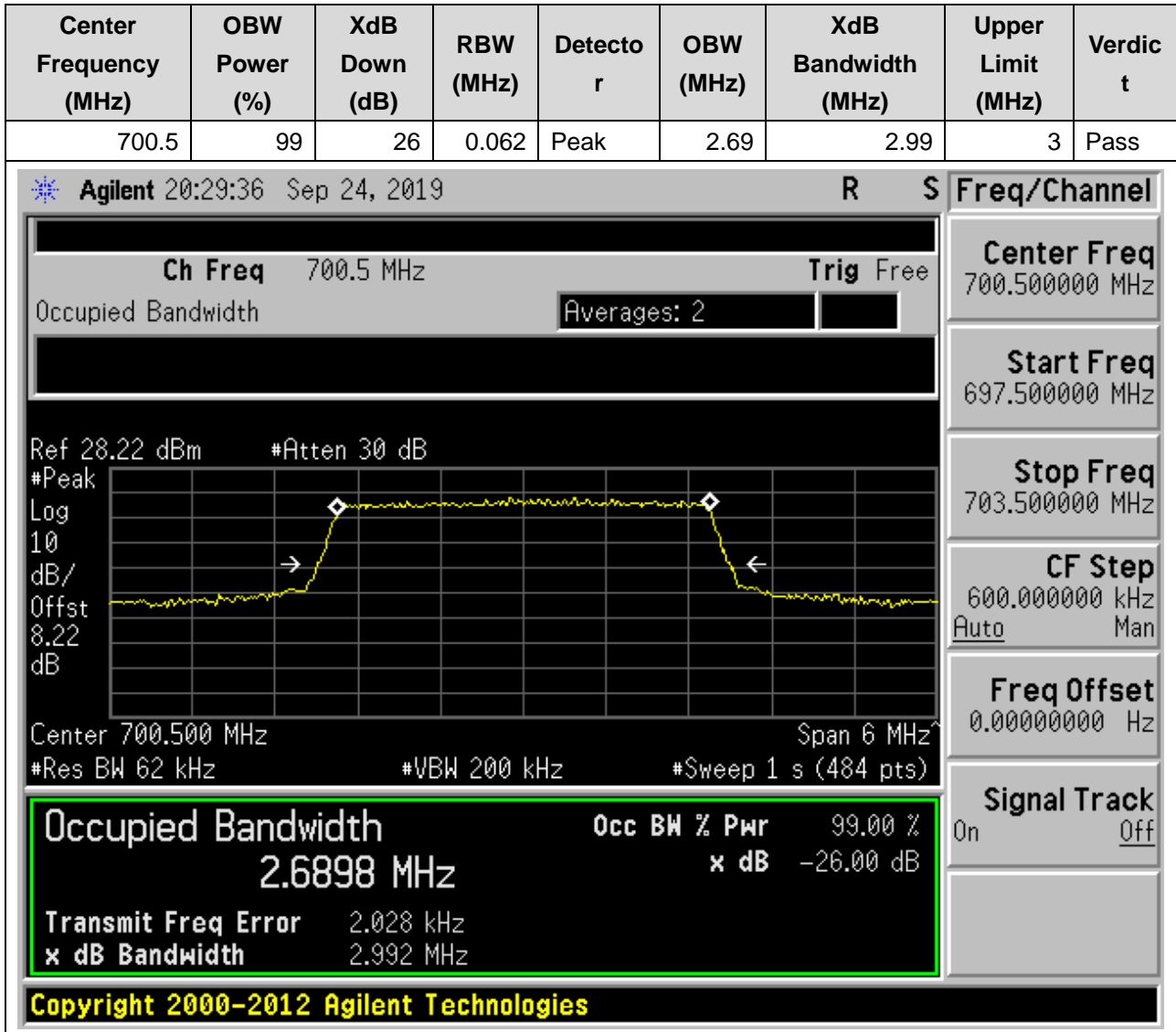
**12.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:23173, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



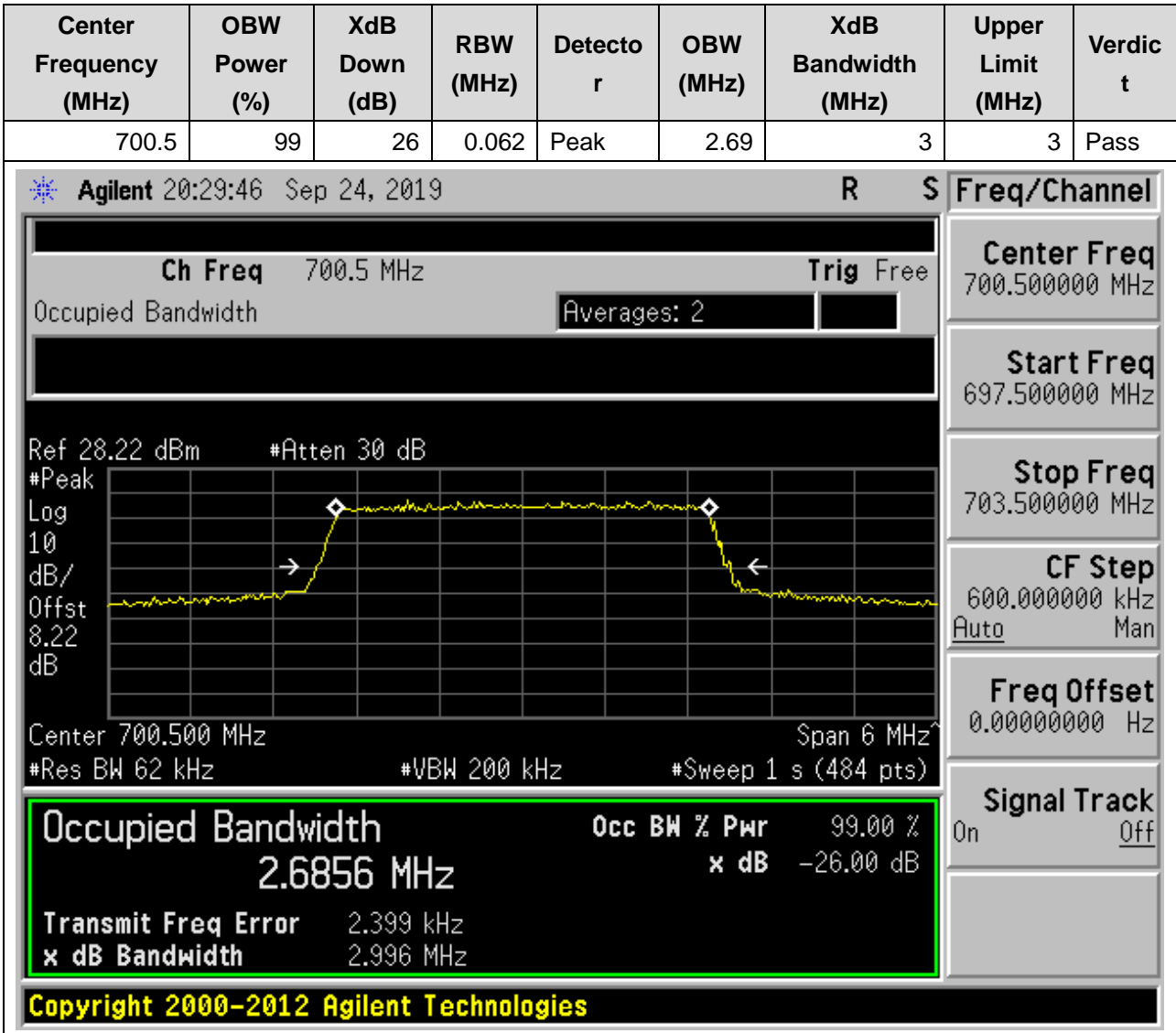
**12.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:23173, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



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

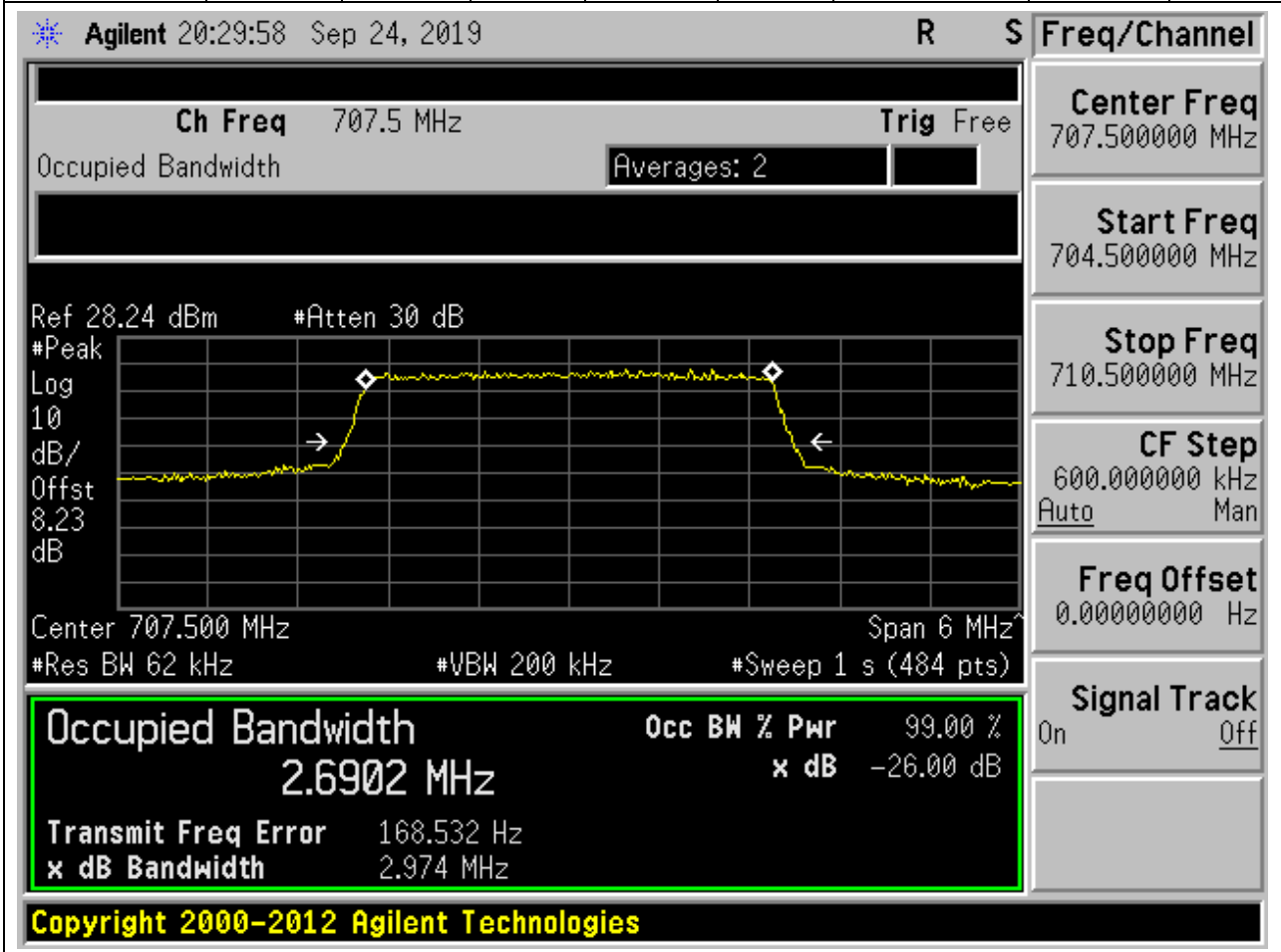


**12.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:23025, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

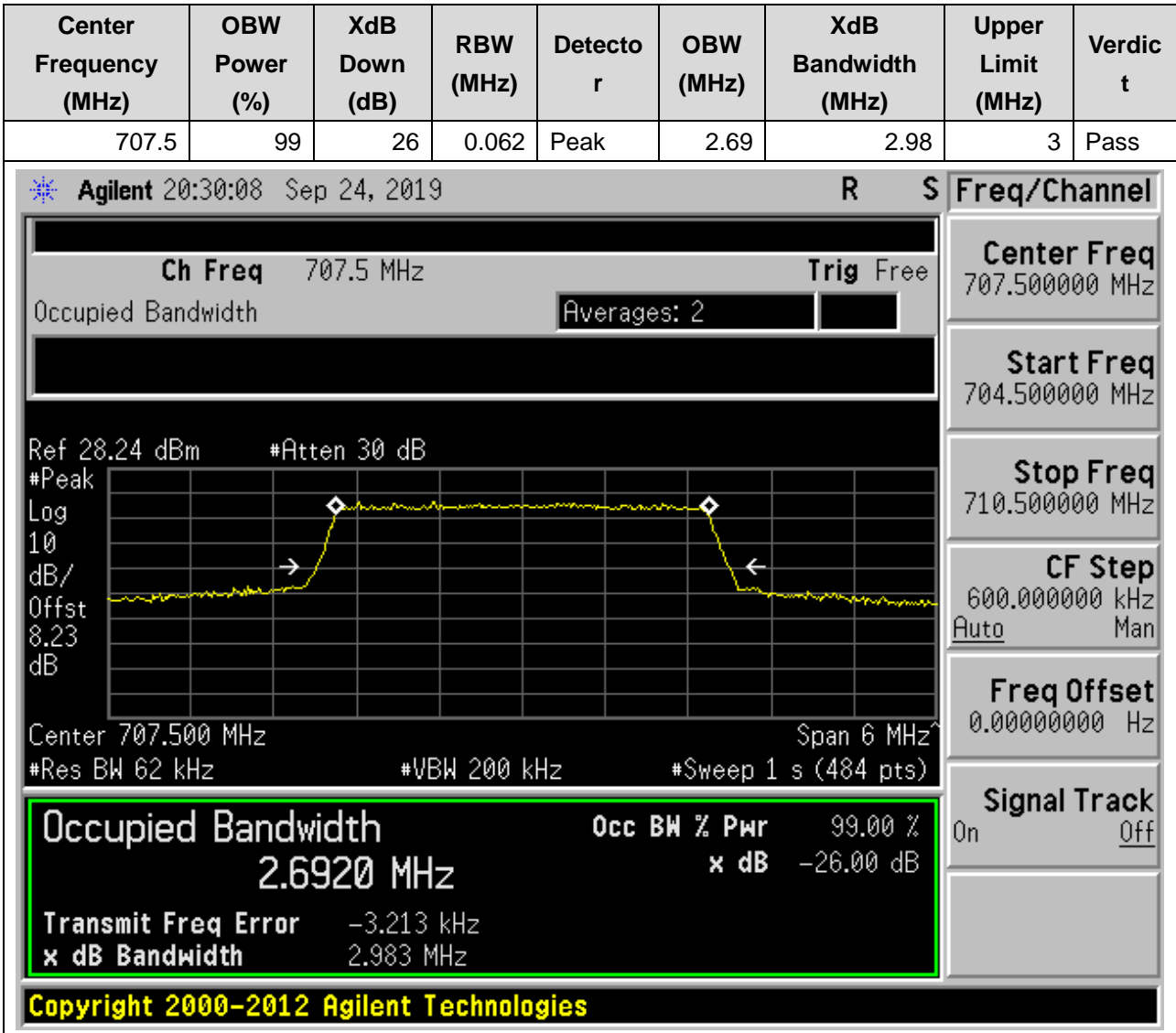


**12.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:23095, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

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	2.69	2.97	3	Pass



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





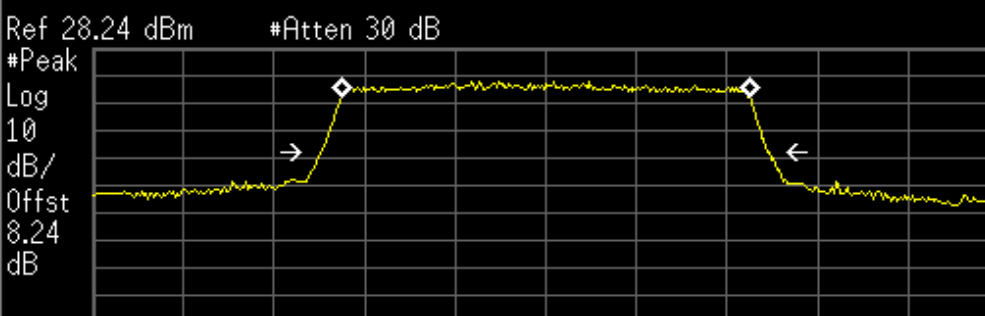
**12.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:23165, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
714.5	99	26	0.062	Peak	2.69	2.98	3	Pass

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**Ch Freq** 714.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 28.24 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.24 dB

Center 714.500 MHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (484 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
2.6891 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-4.058 kHz	
<b>x dB Bandwidth</b>	2.979 MHz	

**Signal Track**  
On Off

**Freq/Channel**

**Center Freq**  
714.500000 MHz

**Start Freq**  
711.500000 MHz

**Stop Freq**  
717.500000 MHz

**CF Step**  
600.000000 kHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

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**12.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:23165, 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
714.5	99	26	0.062	Peak	2.68	2.97	3	Pass

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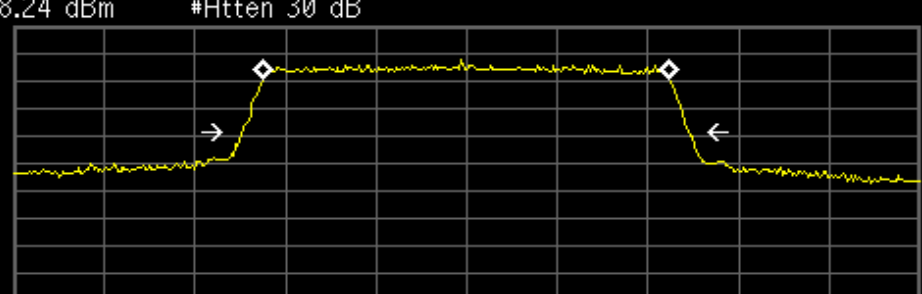
**Ch Freq** 714.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 28.24 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.24 dB



Center 714.500 MHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (484 pts)

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

**2.6841 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -5.108 kHz

**x dB Bandwidth** 2.966 MHz

**Freq/Channel**

**Center Freq** 714.500000 MHz

**Start Freq** 711.500000 MHz

**Stop Freq** 717.500000 MHz

**CF Step** 600.000000 kHz Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

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**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	4.5	4.89	5	Pass

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**Ch Freq** 701.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 28.22 dBm #Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
8.22  
dB

Center 701.50 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (501 pts)

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

**4.4977 MHz** **x dB** -26.00 dB

**Transmit Freq Error** 137.451 Hz

**x dB Bandwidth** 4.892 MHz

**Freq/Channel**

**Center Freq** 701.500000 MHz

**Start Freq** 696.500000 MHz

**Stop Freq** 706.500000 MHz

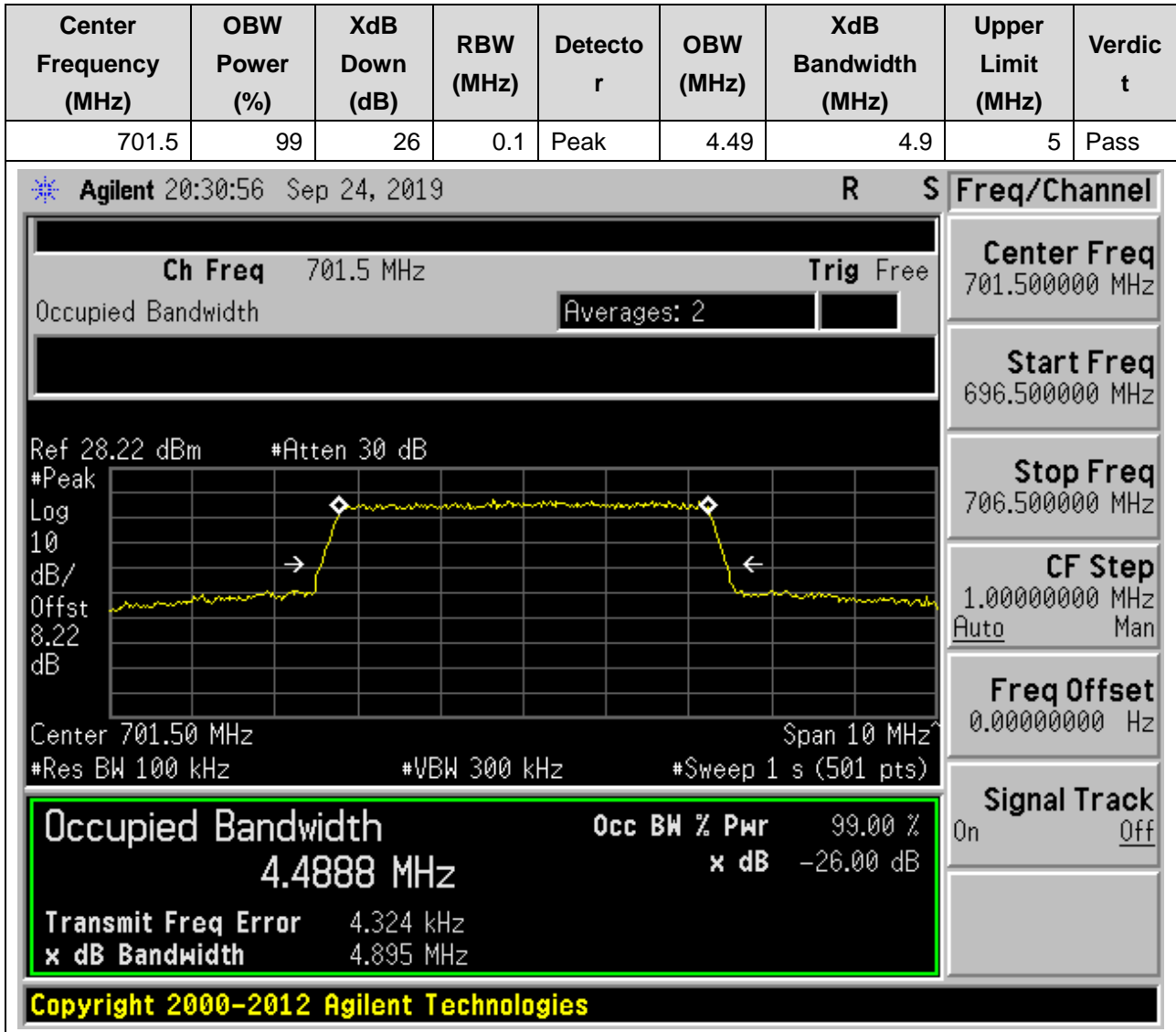
**CF Step** 1.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

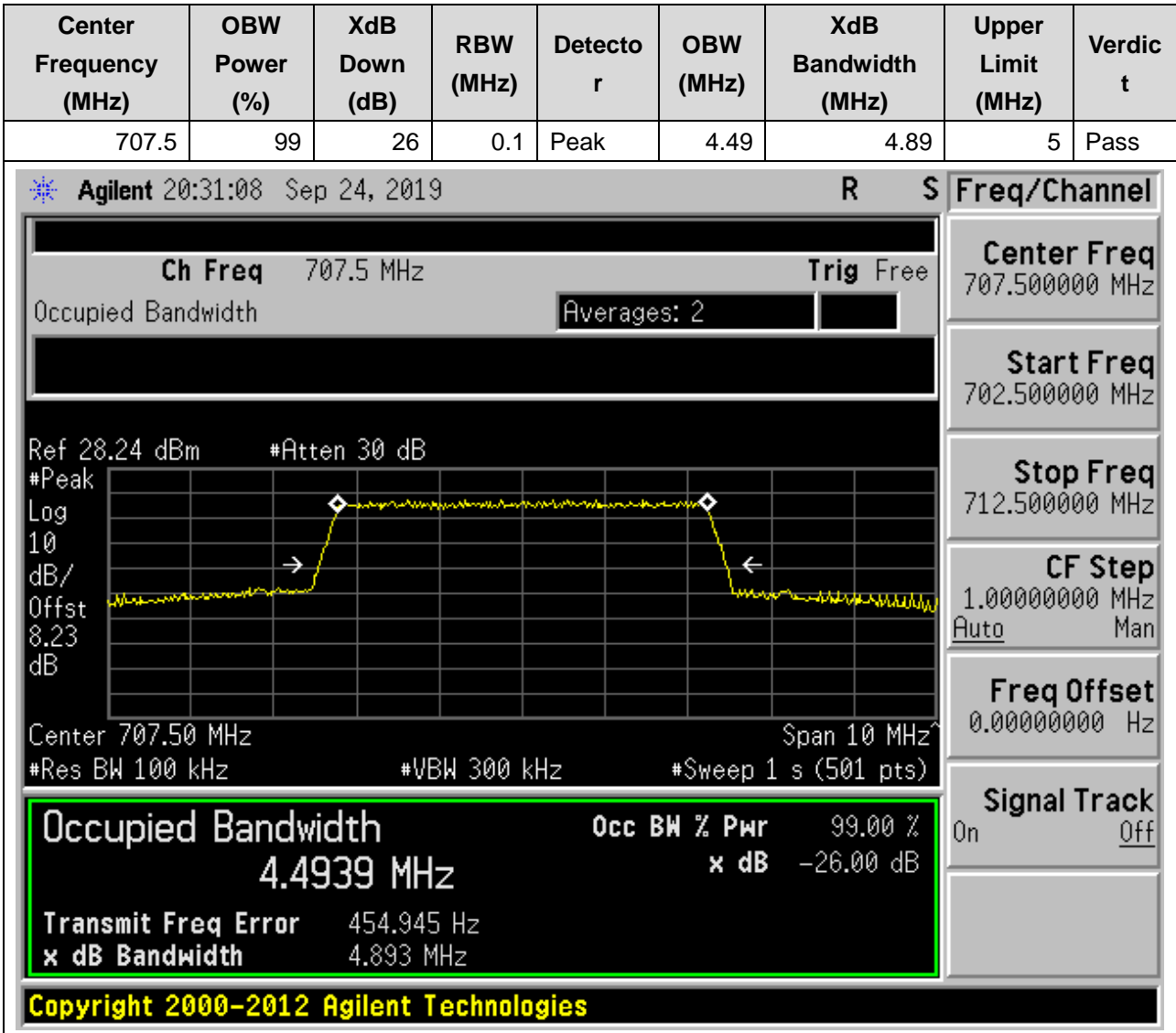
**Signal Track** On Off

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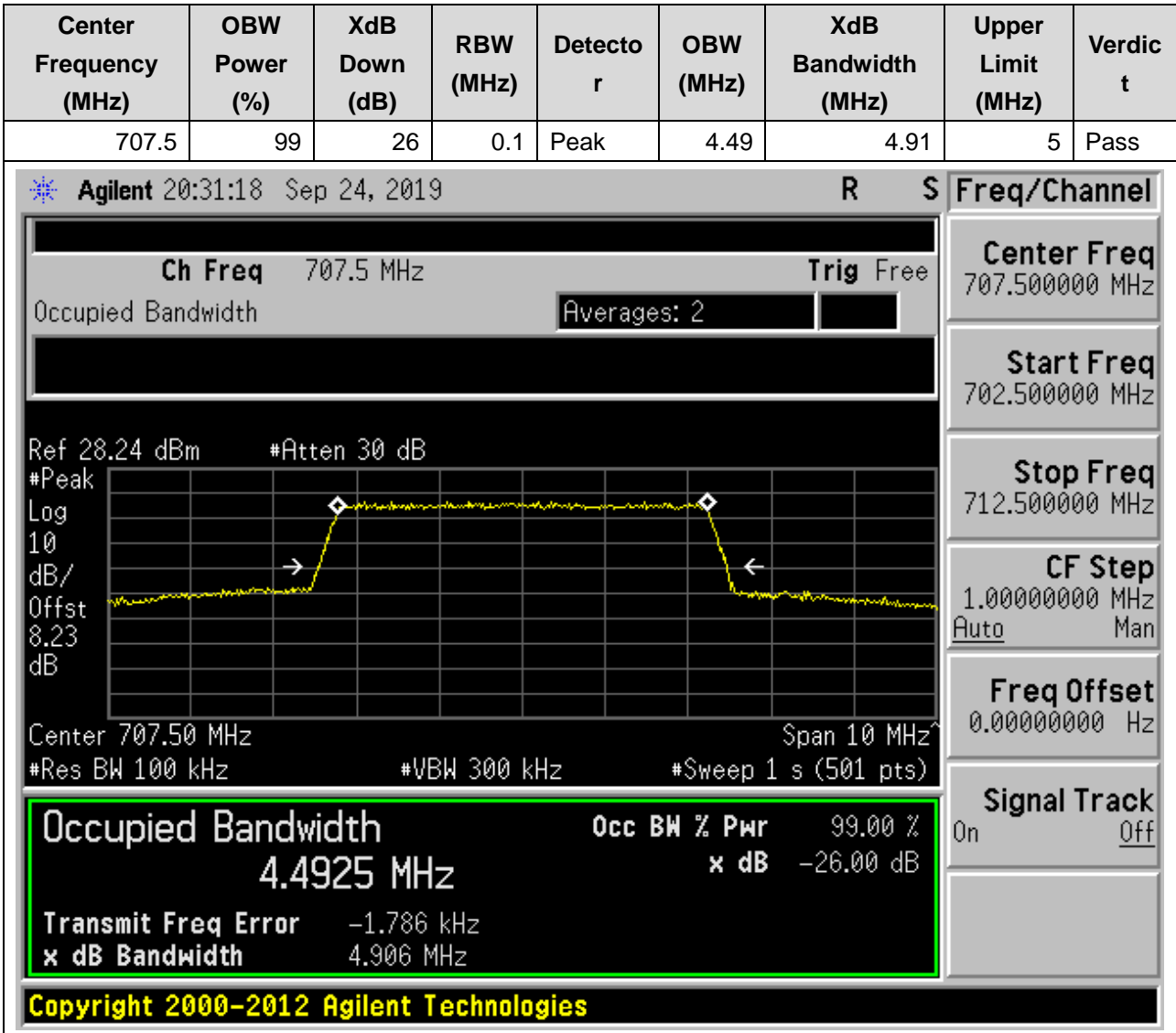
**12.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:23035, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



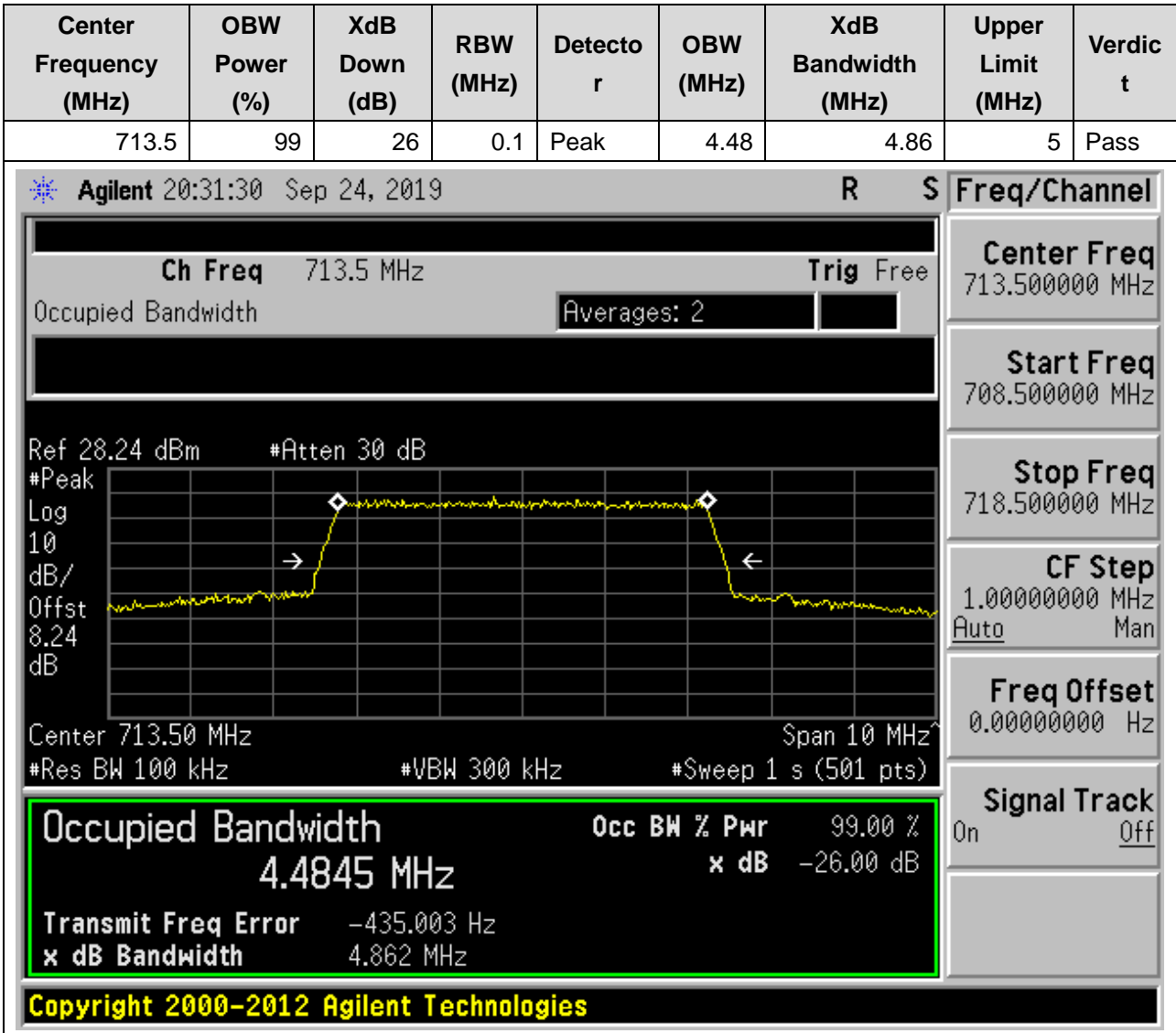
**12.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:23095, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



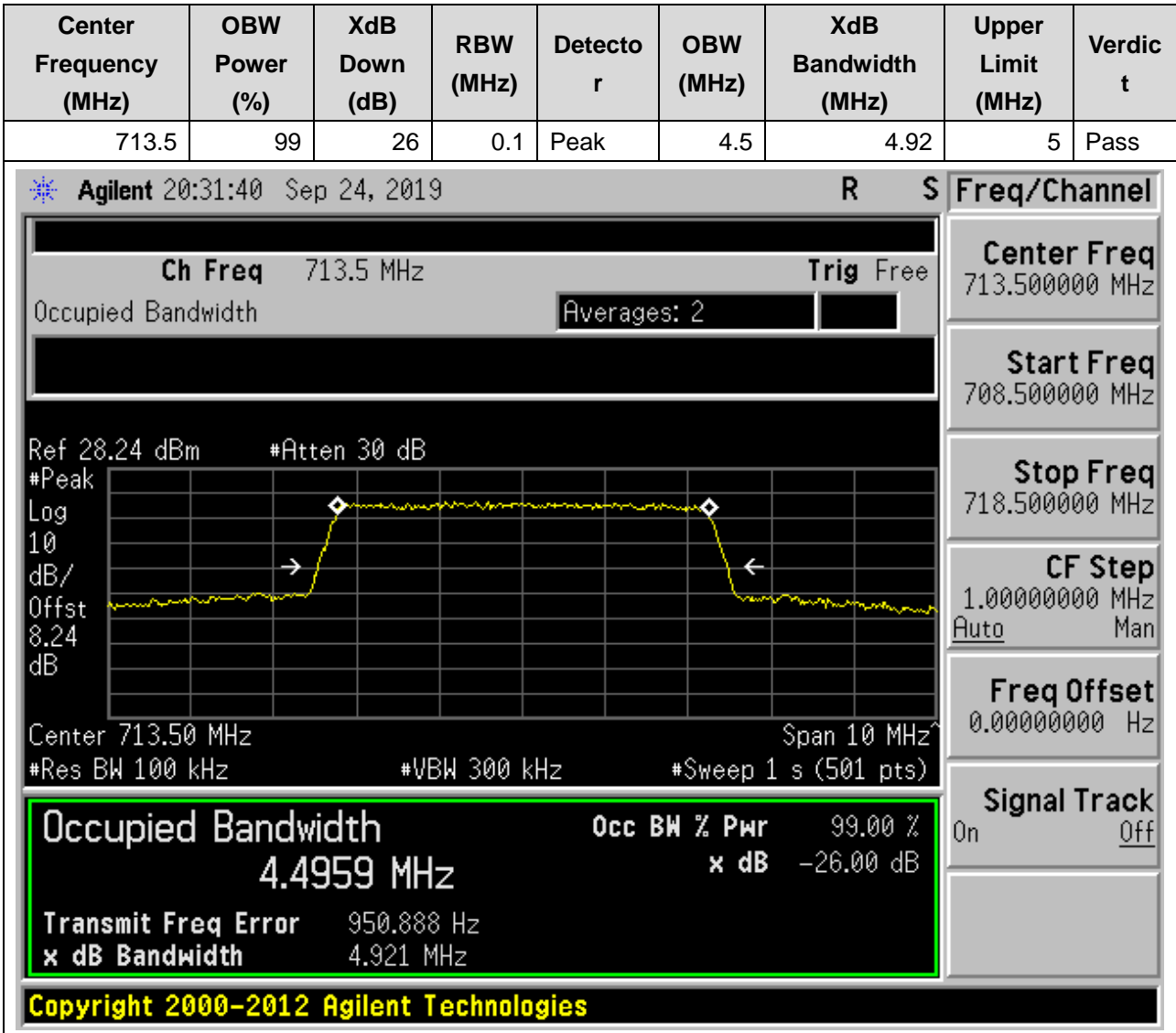
**12.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:23095, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



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

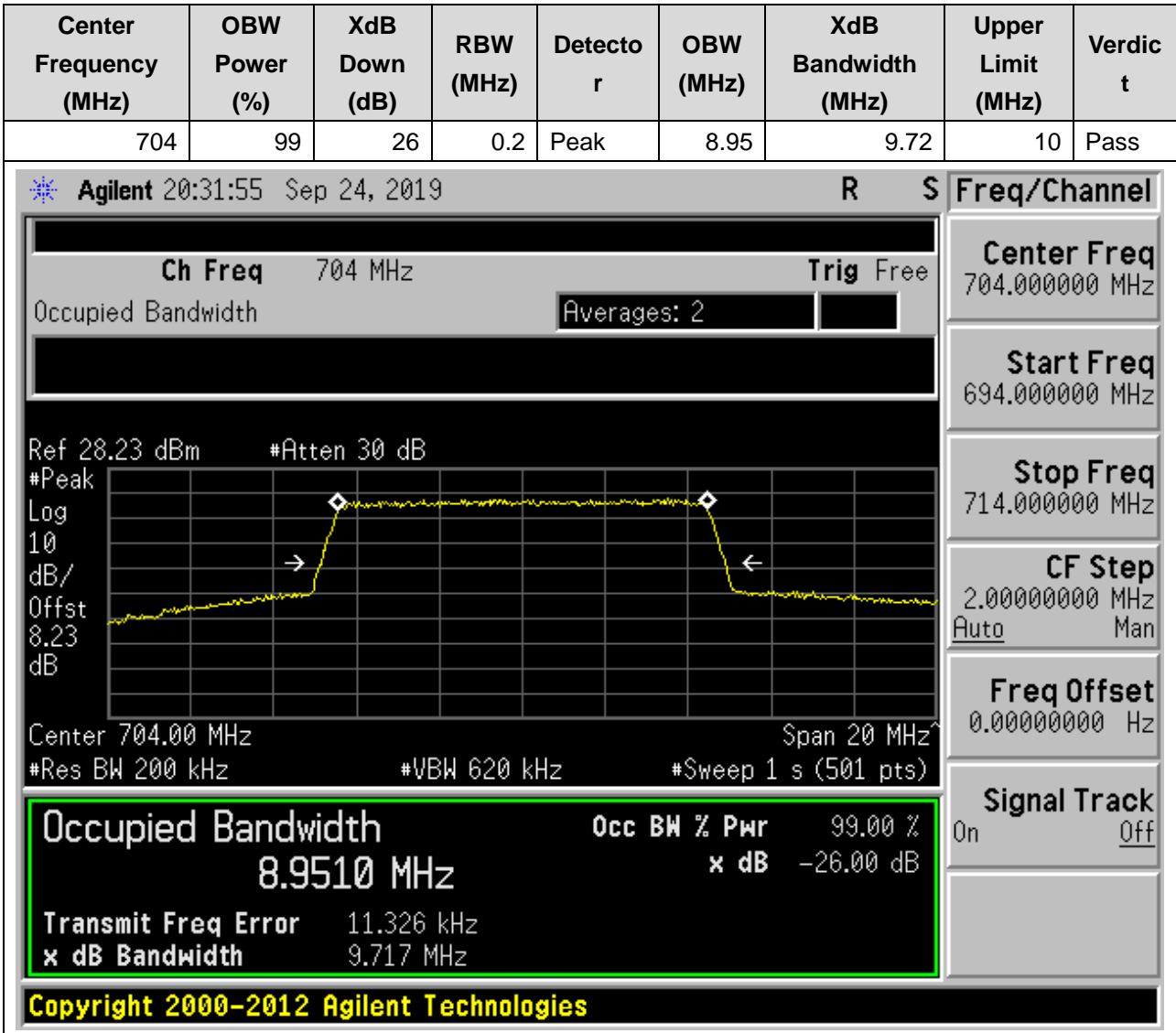


**12.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:23155, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

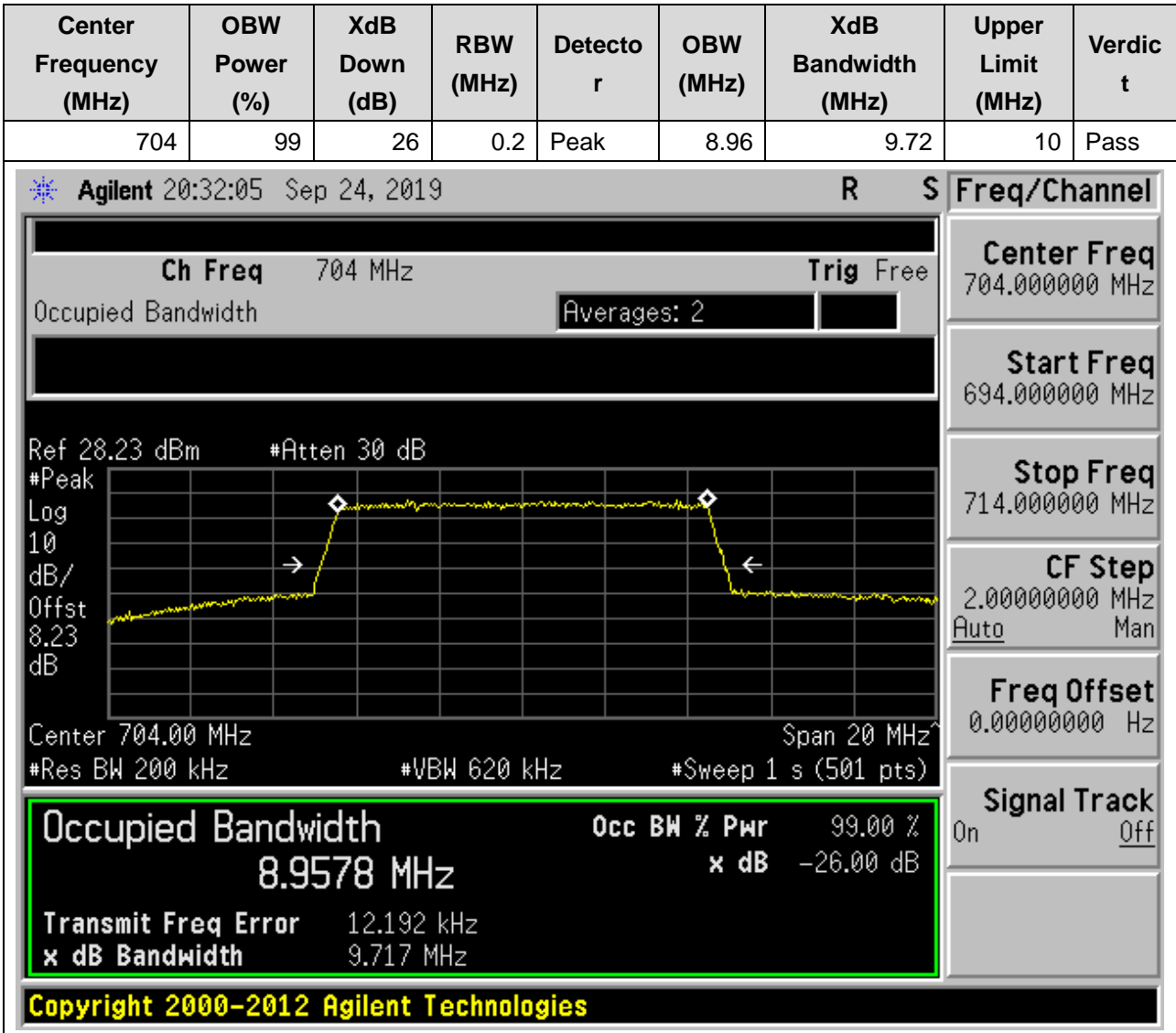




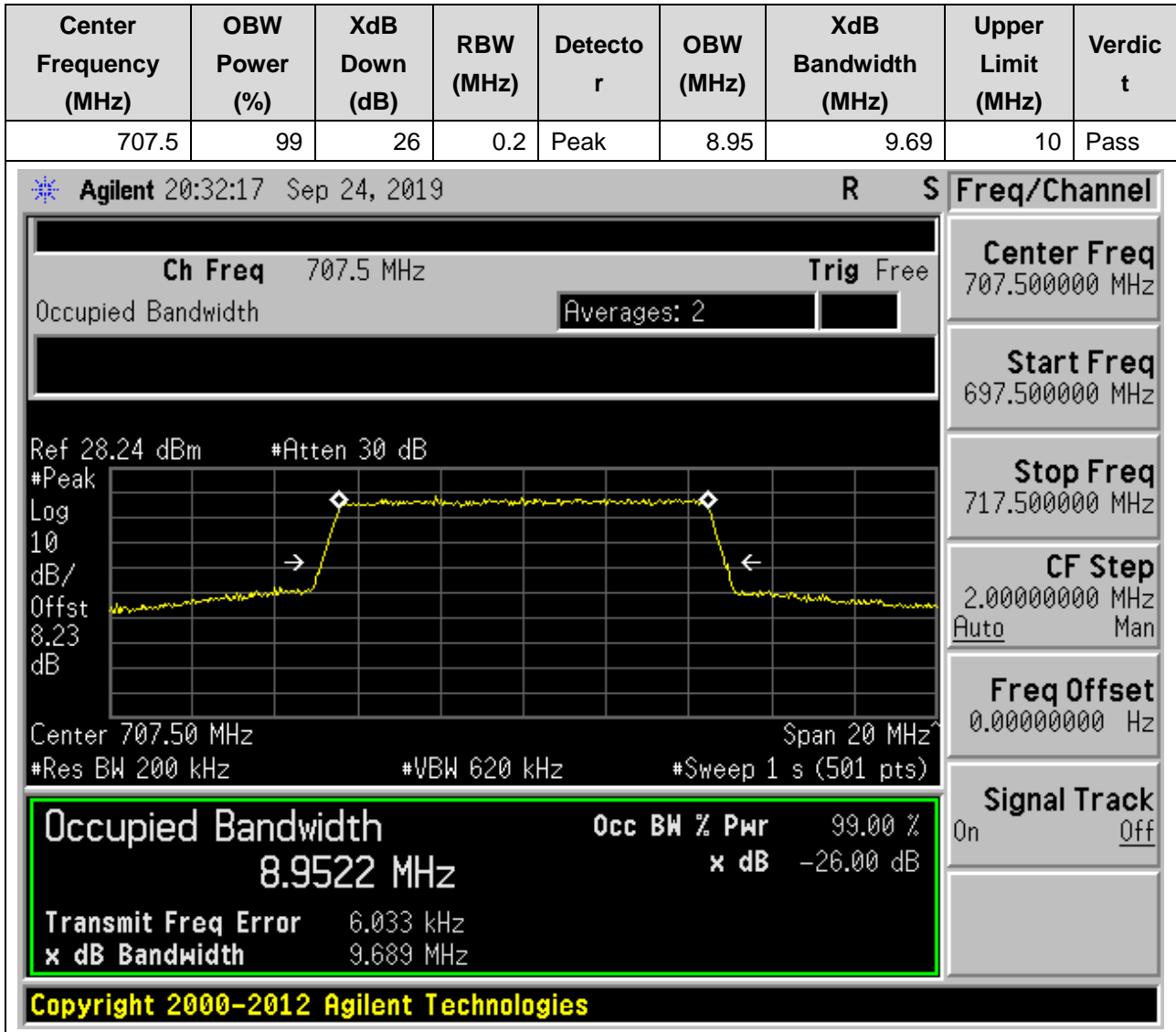
**12.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:23060, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



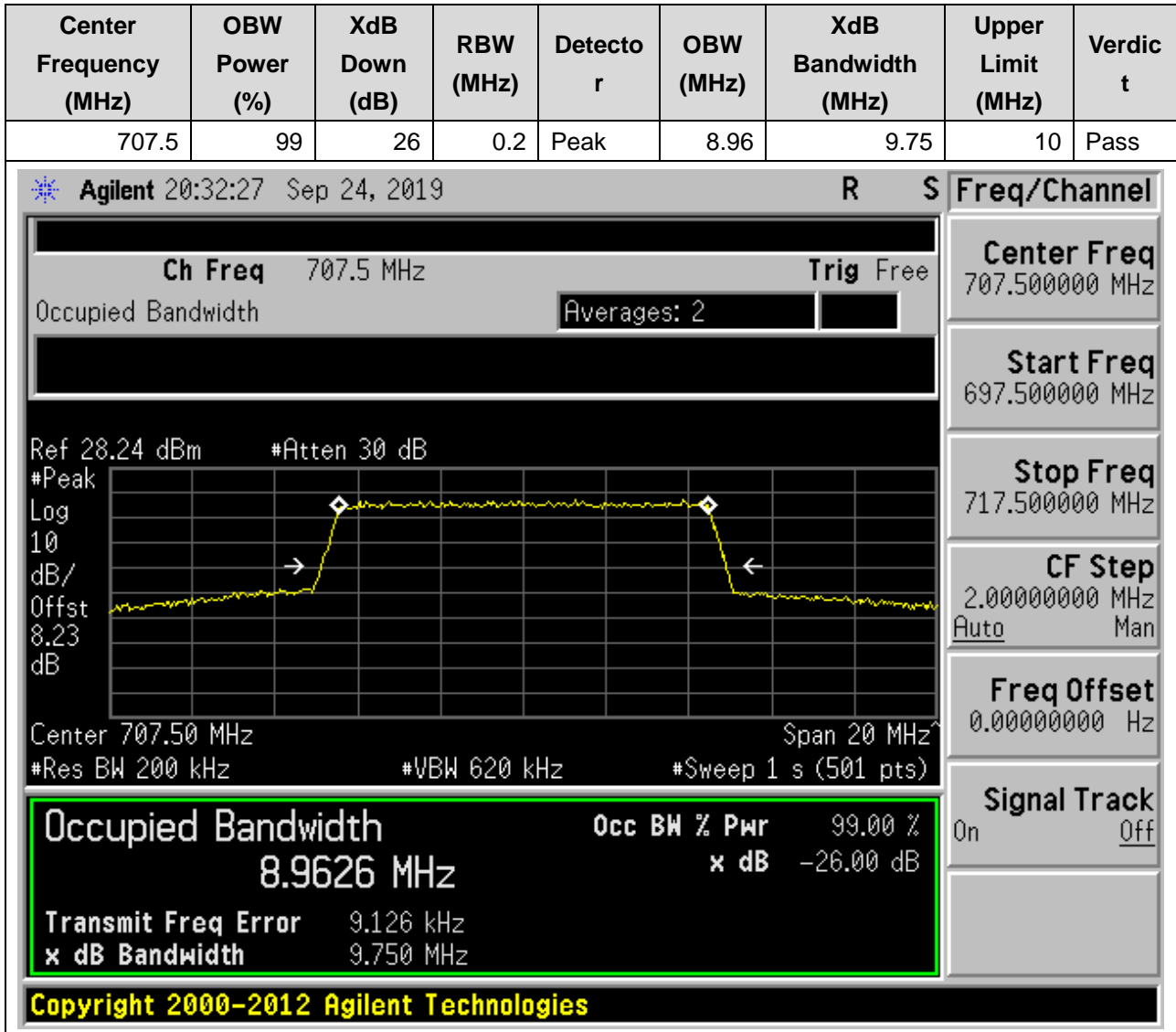
**12.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:23060, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



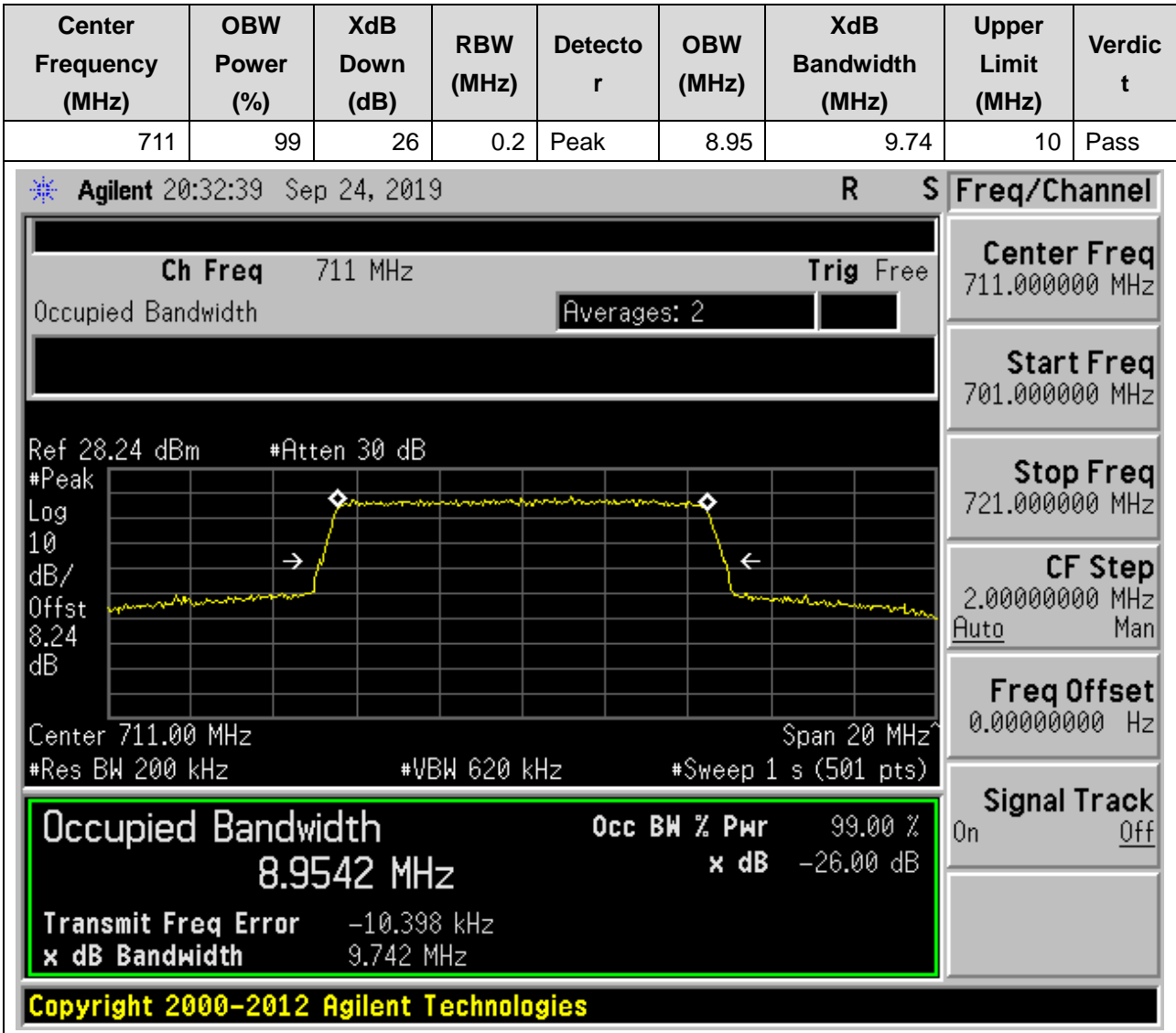
**12.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:23095, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



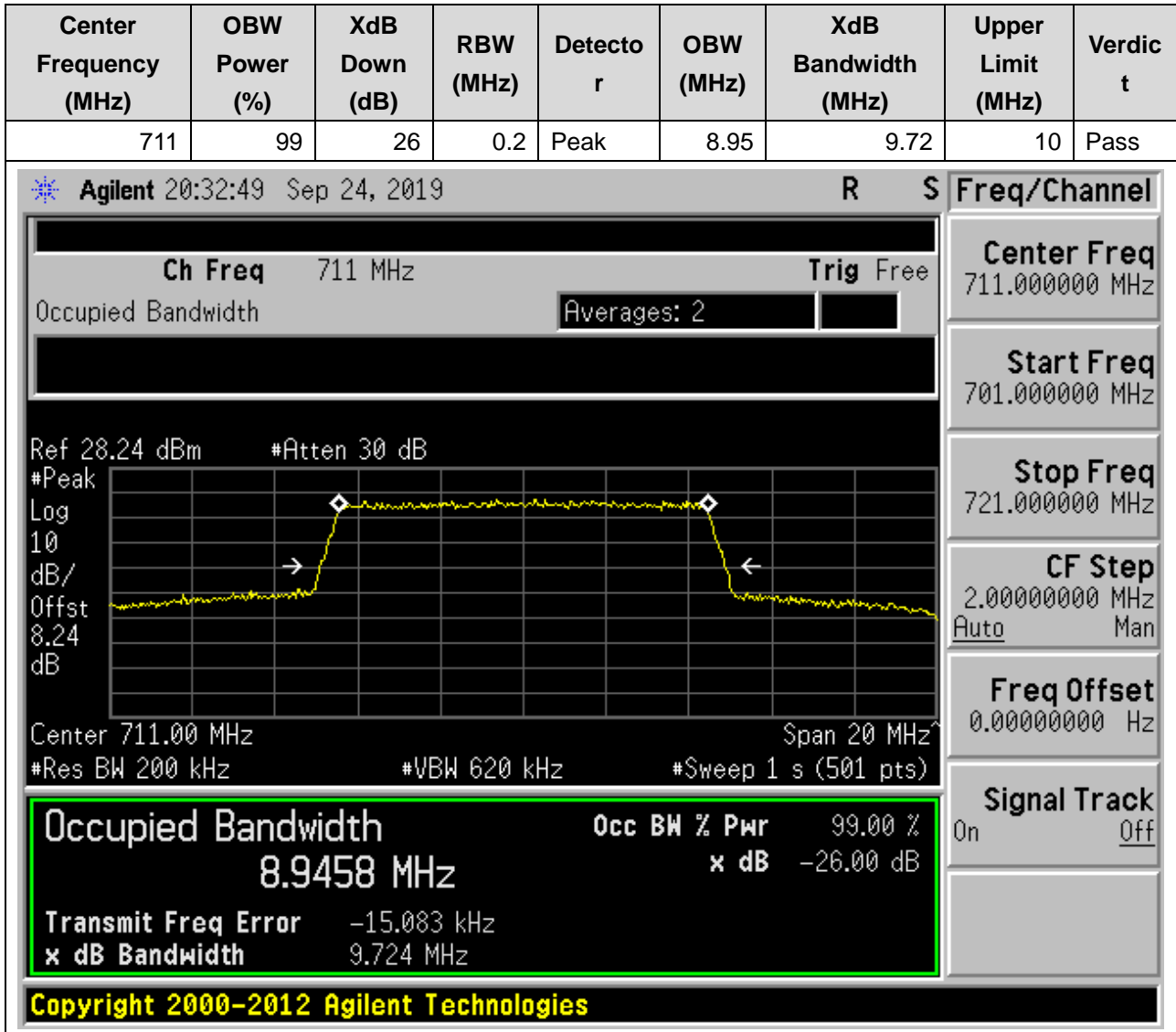
**12.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:23095, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



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

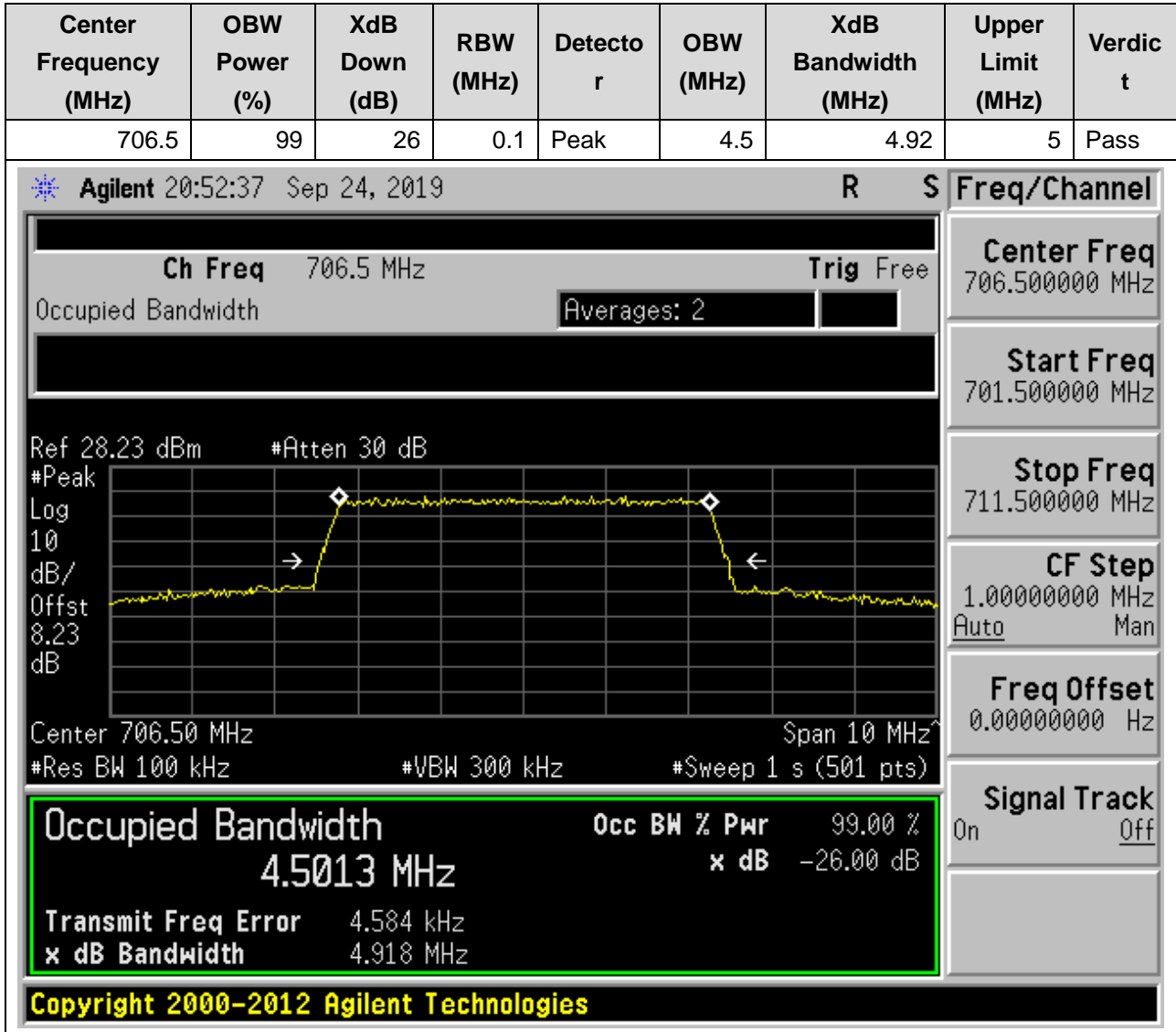


**12.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:23130, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

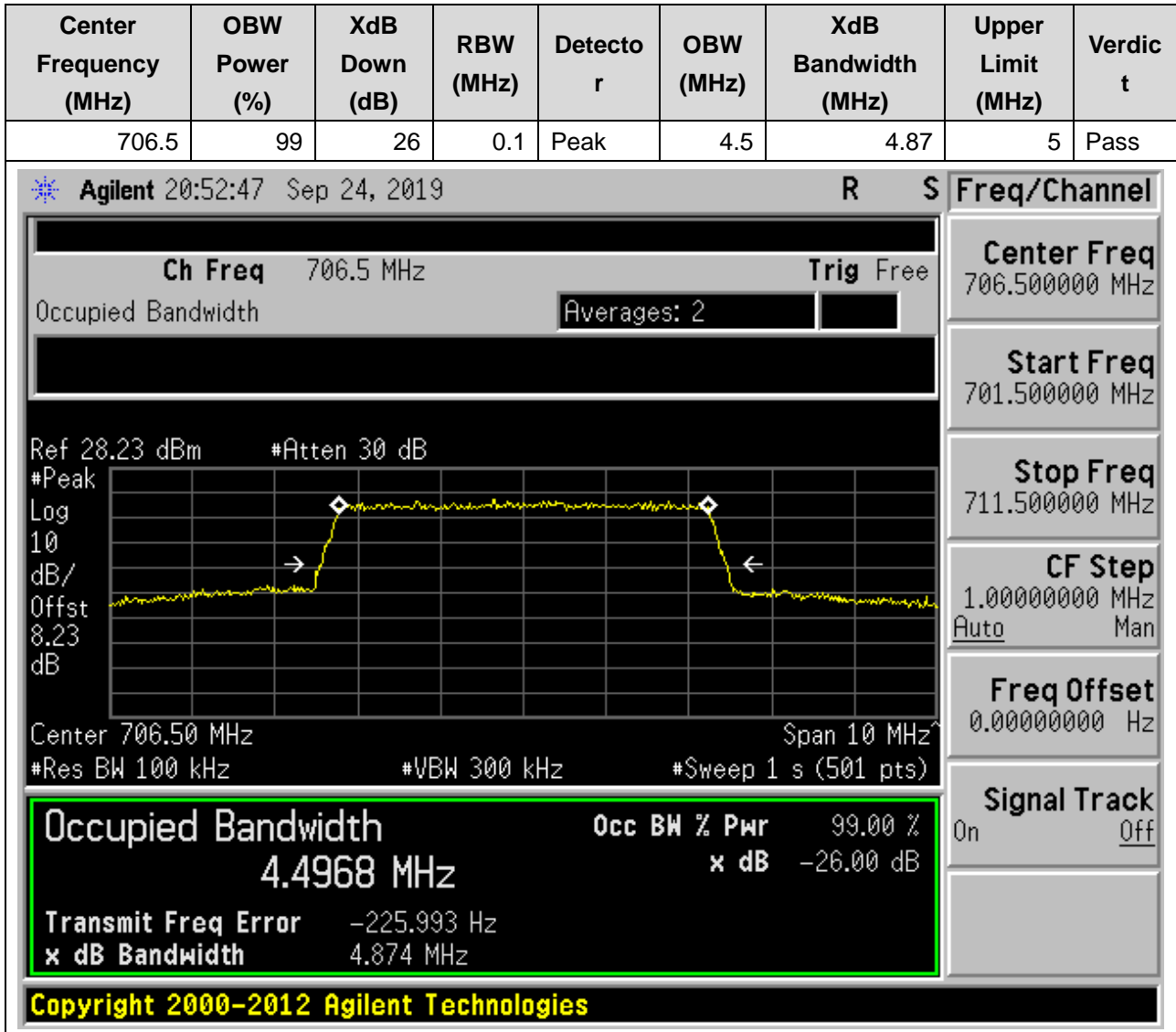


### 13. LTE\_Band17

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

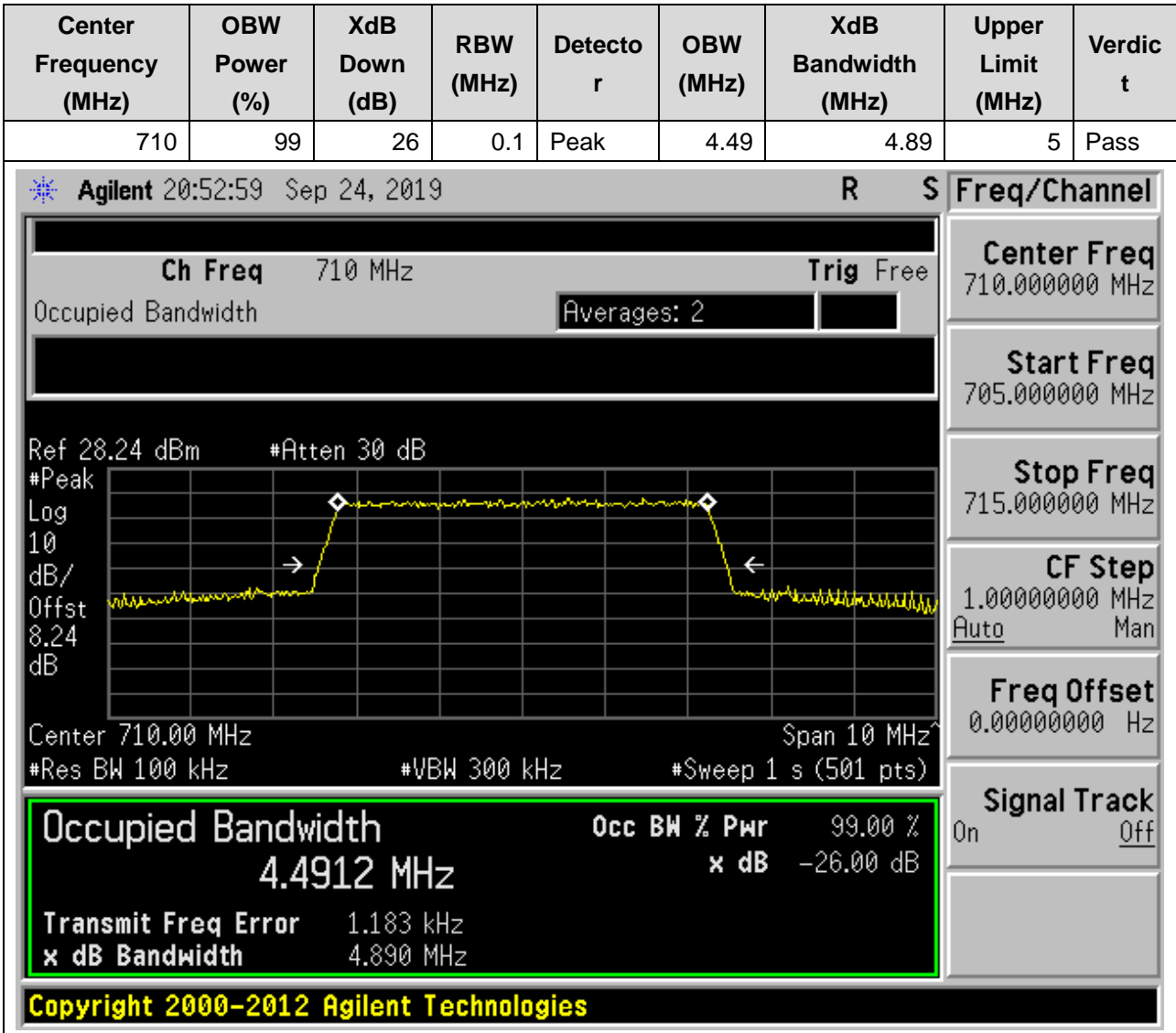


**13.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:23755, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

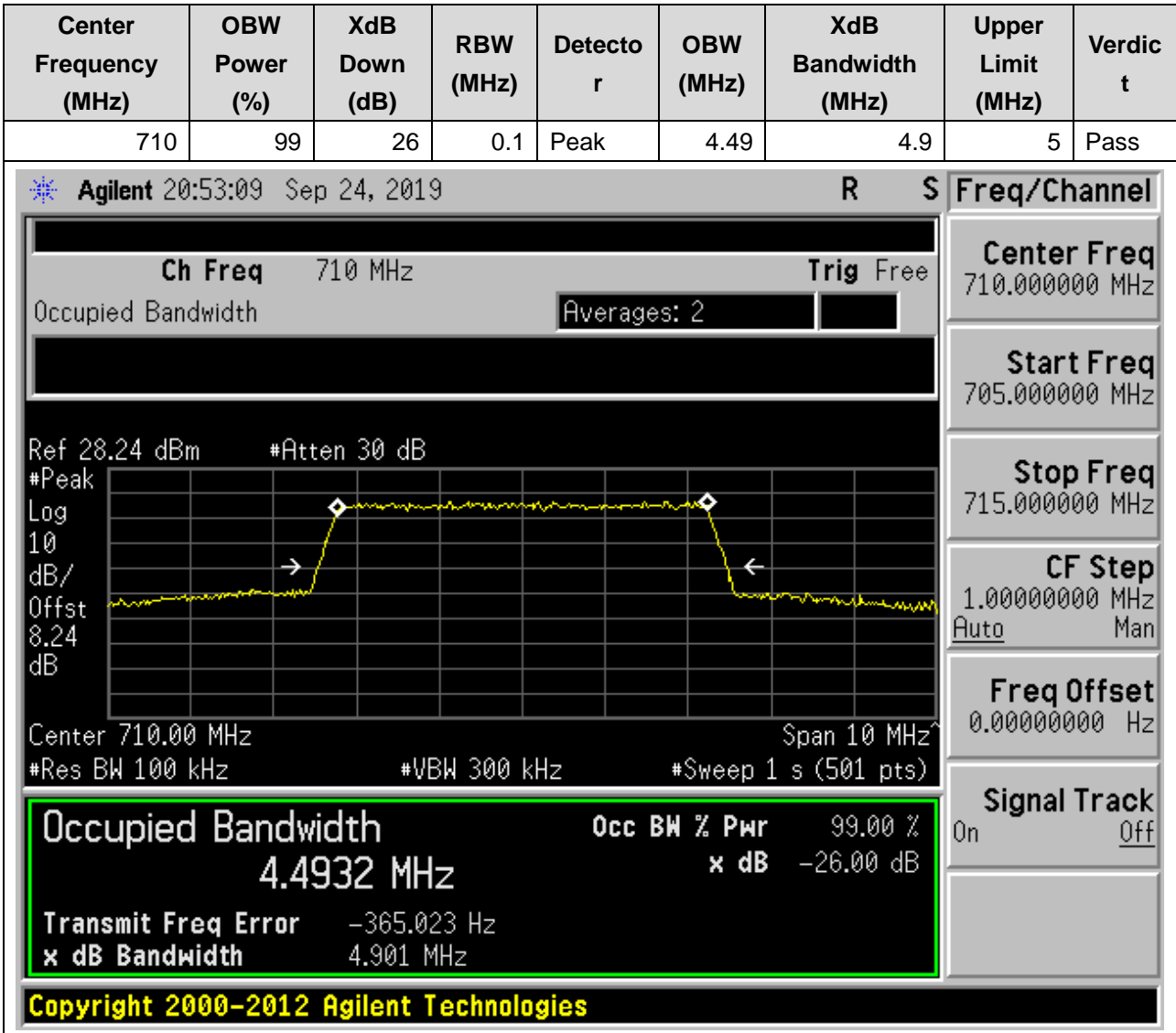




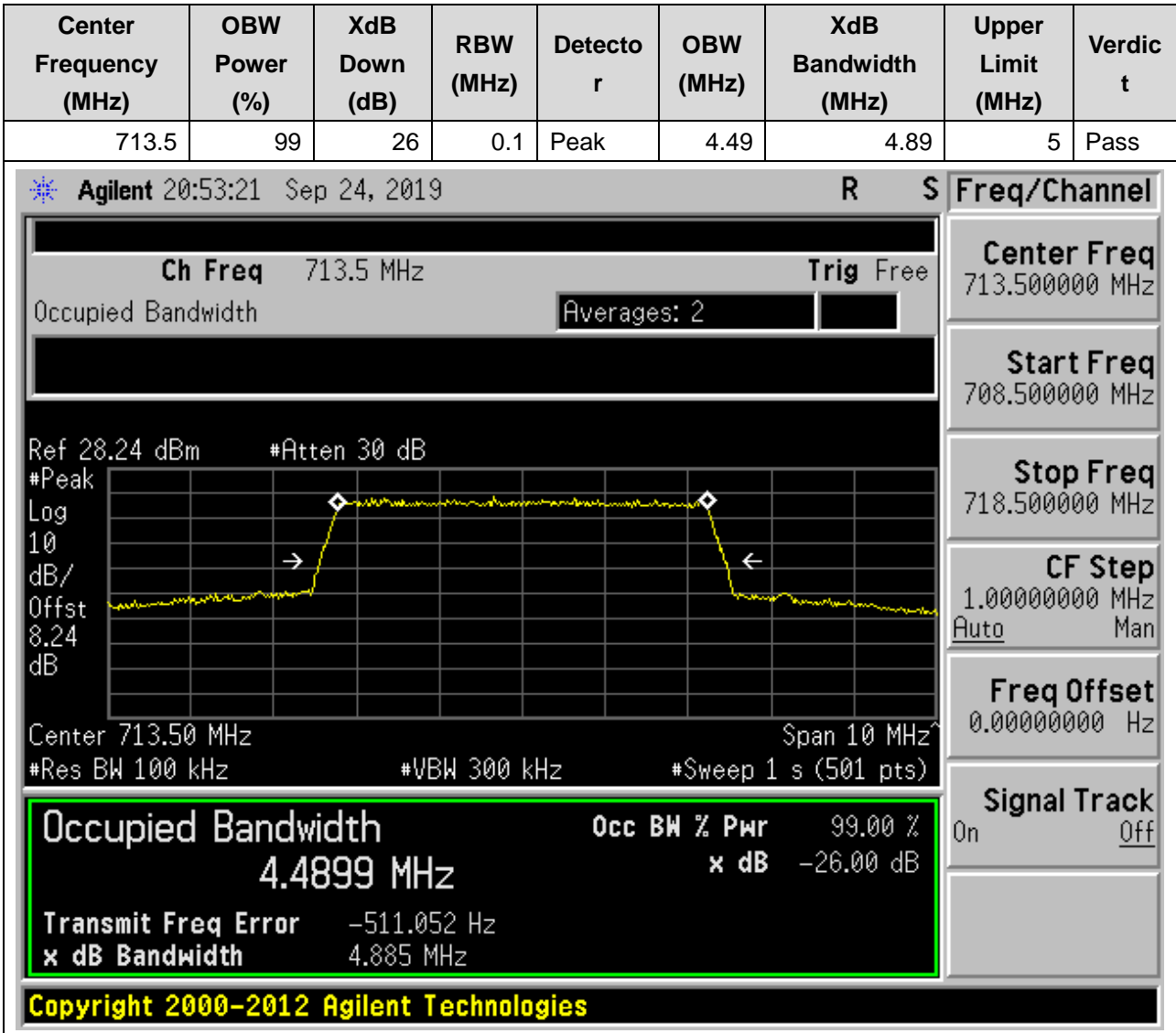
**13.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:23790, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



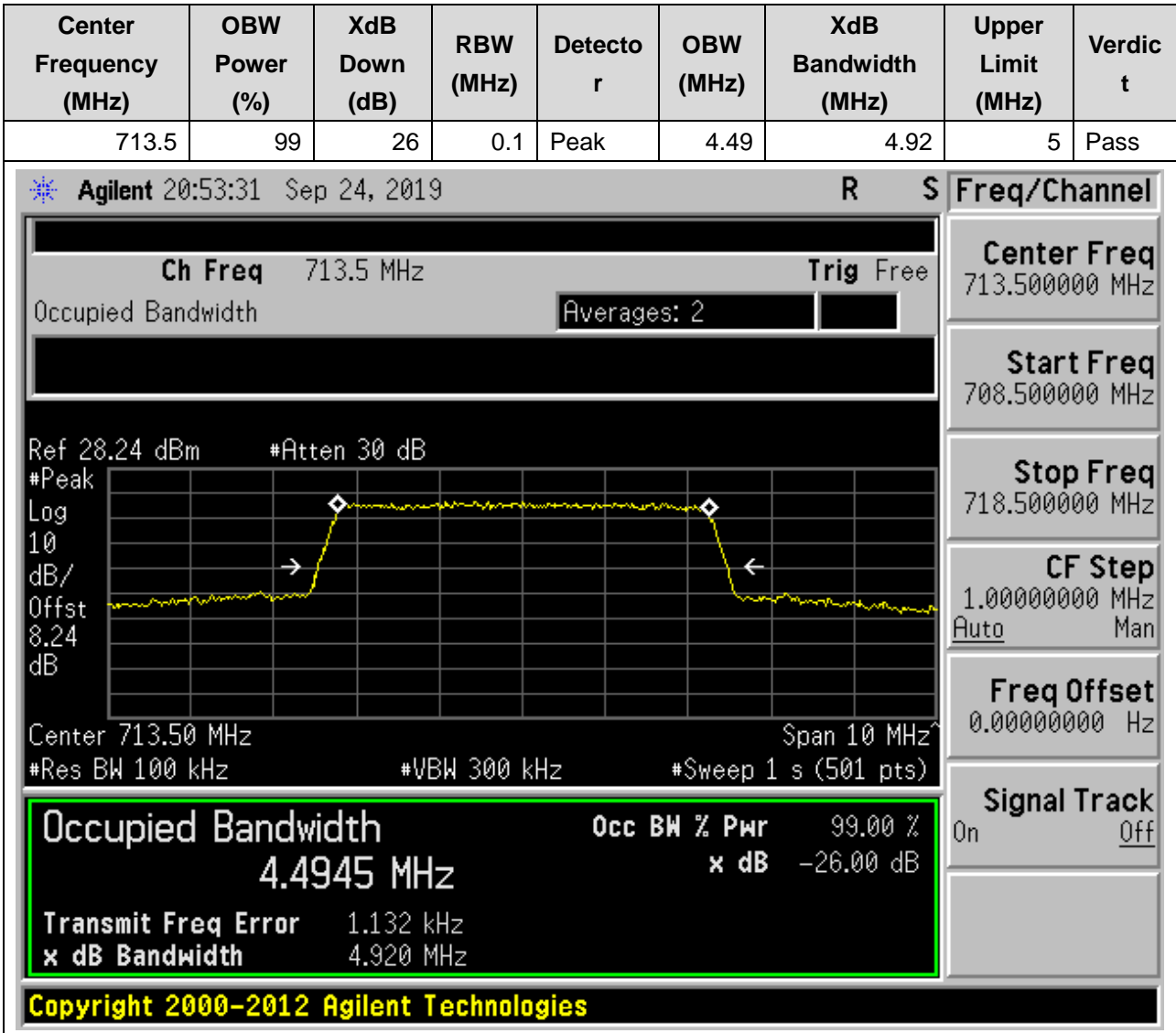
**13.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:23790, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



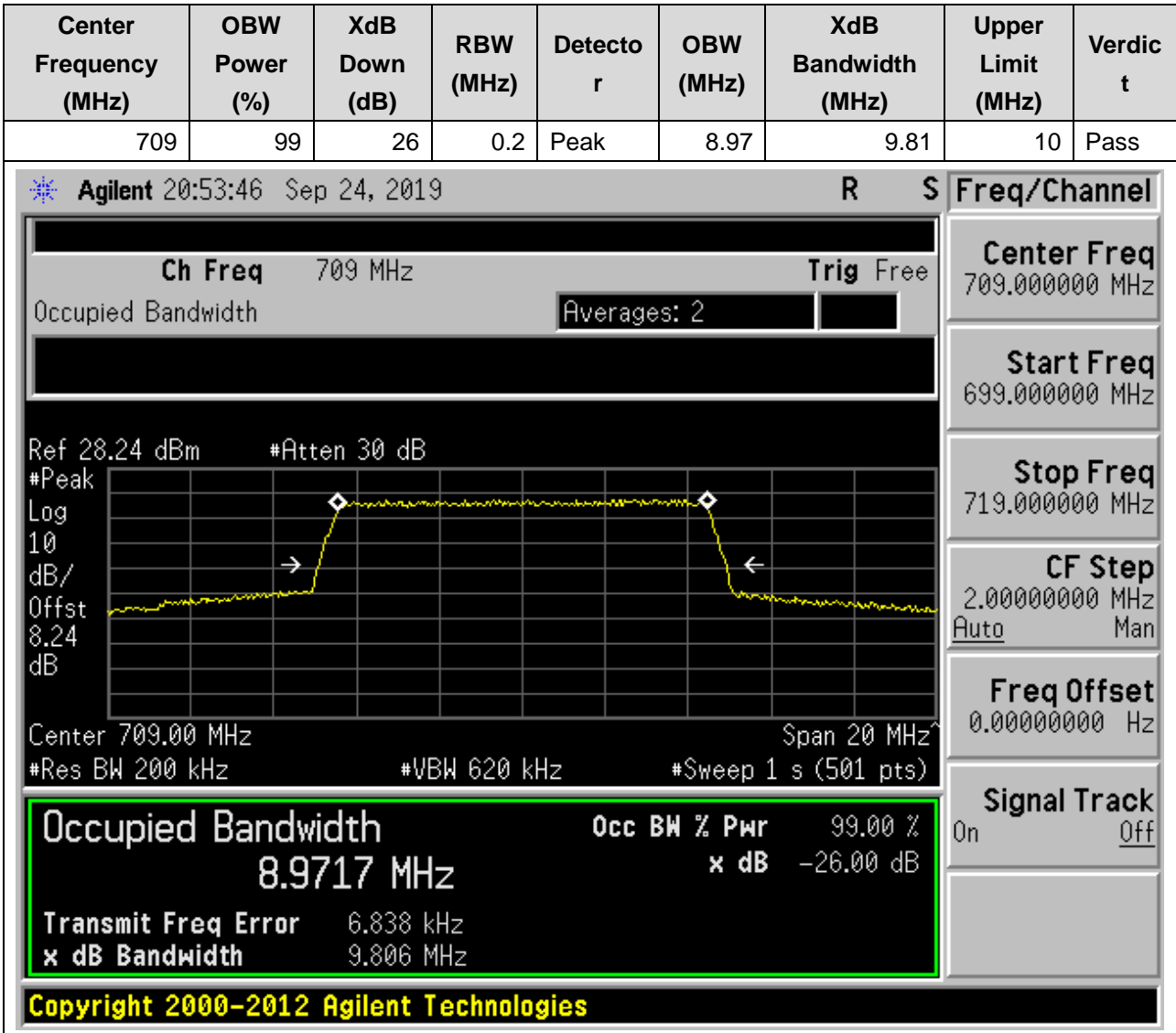
**13.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:23825, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



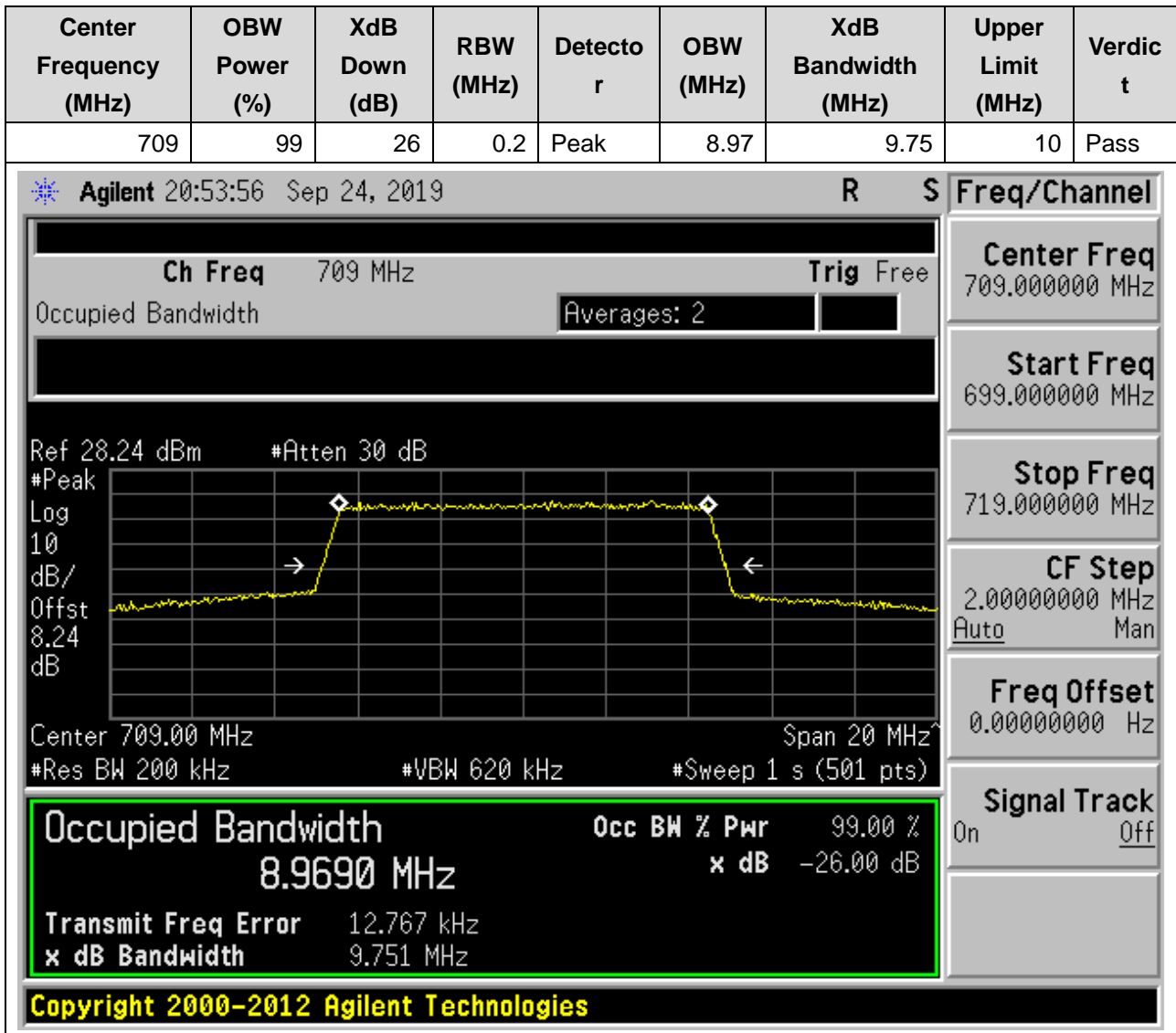
**13.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:23825, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



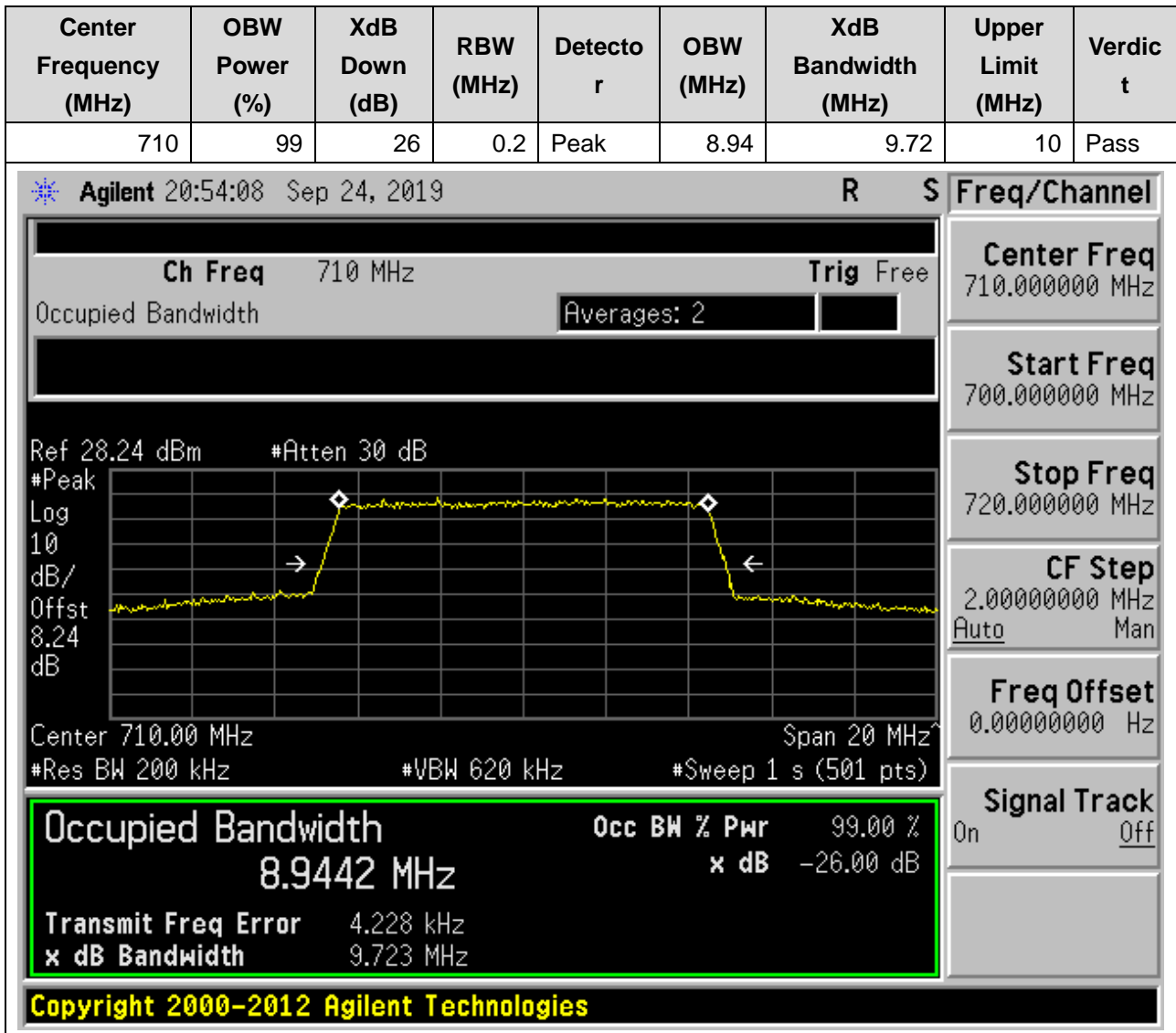
**13.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:23780, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



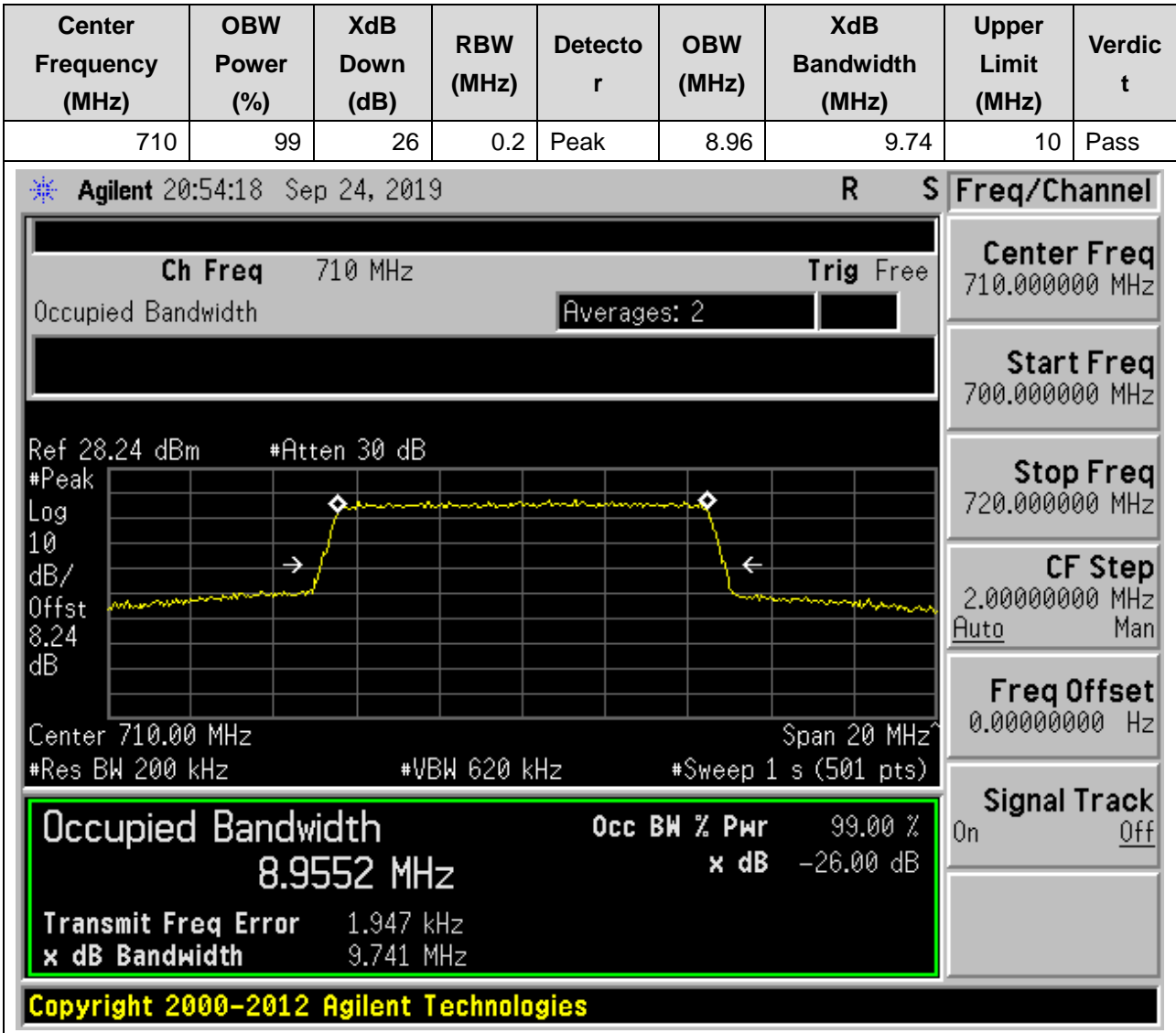
**13.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:23780, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



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

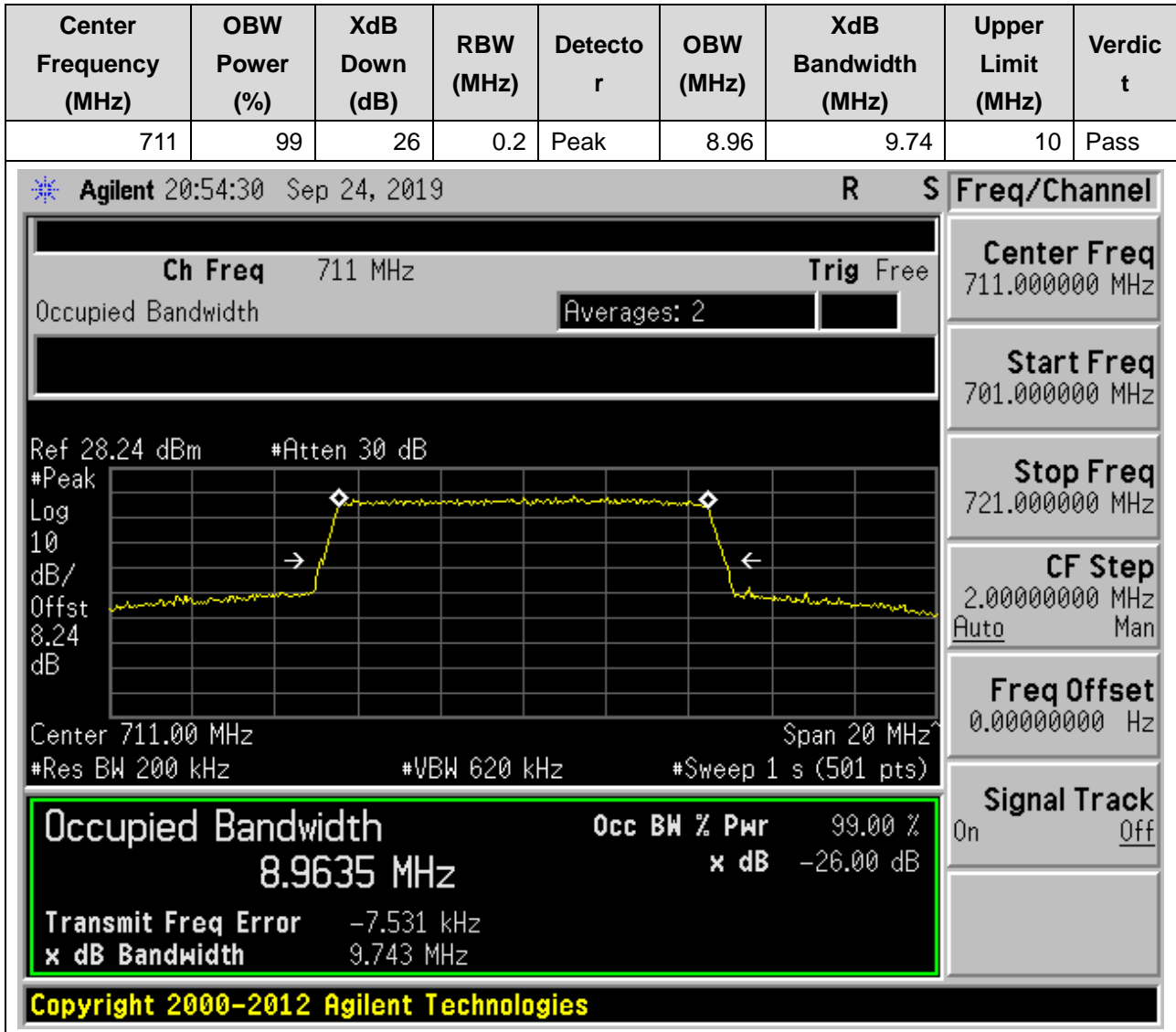


**13.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:23790, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

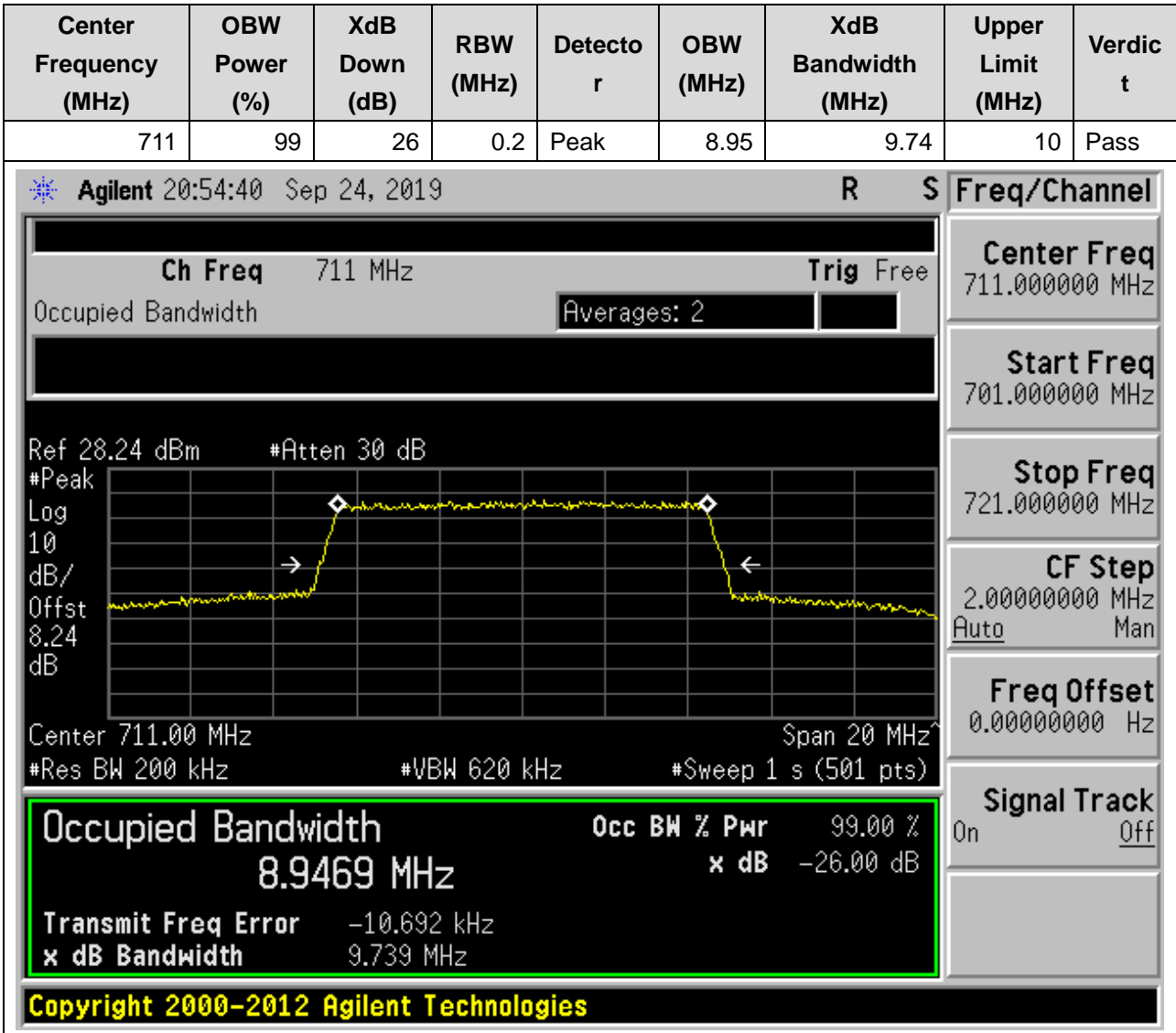




**13.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:23800, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

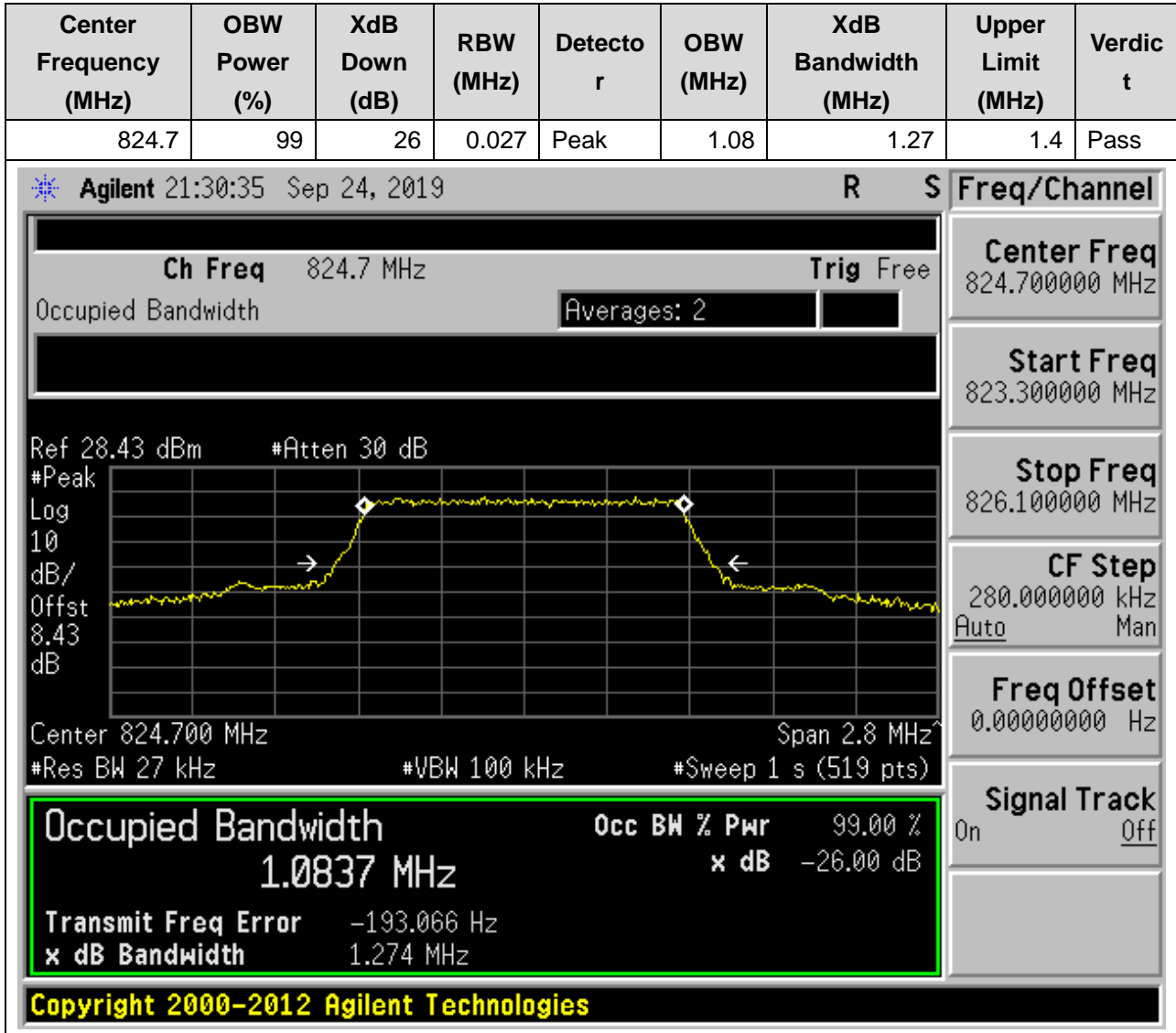


**13.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:23800, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



## 14. LTE\_Band26(part22)

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



**14.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:26797, 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	1.1	1.29	1.4	Pass

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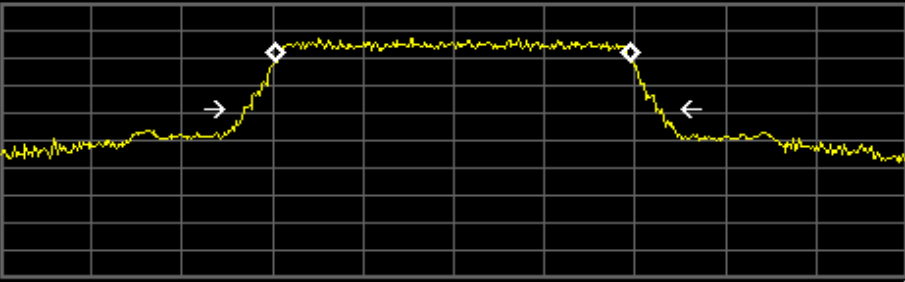
**Ch Freq** 824.7 MHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 28.43 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.43 dB



Center 824.700 MHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (519 pts)

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

**1.0972 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -2.552 kHz

**x dB Bandwidth** 1.294 MHz

**Freq/Channel**

**Center Freq** 824.700000 MHz

**Start Freq** 823.300000 MHz

**Stop Freq** 826.100000 MHz

**CF Step** 280.000000 kHz Auto Man

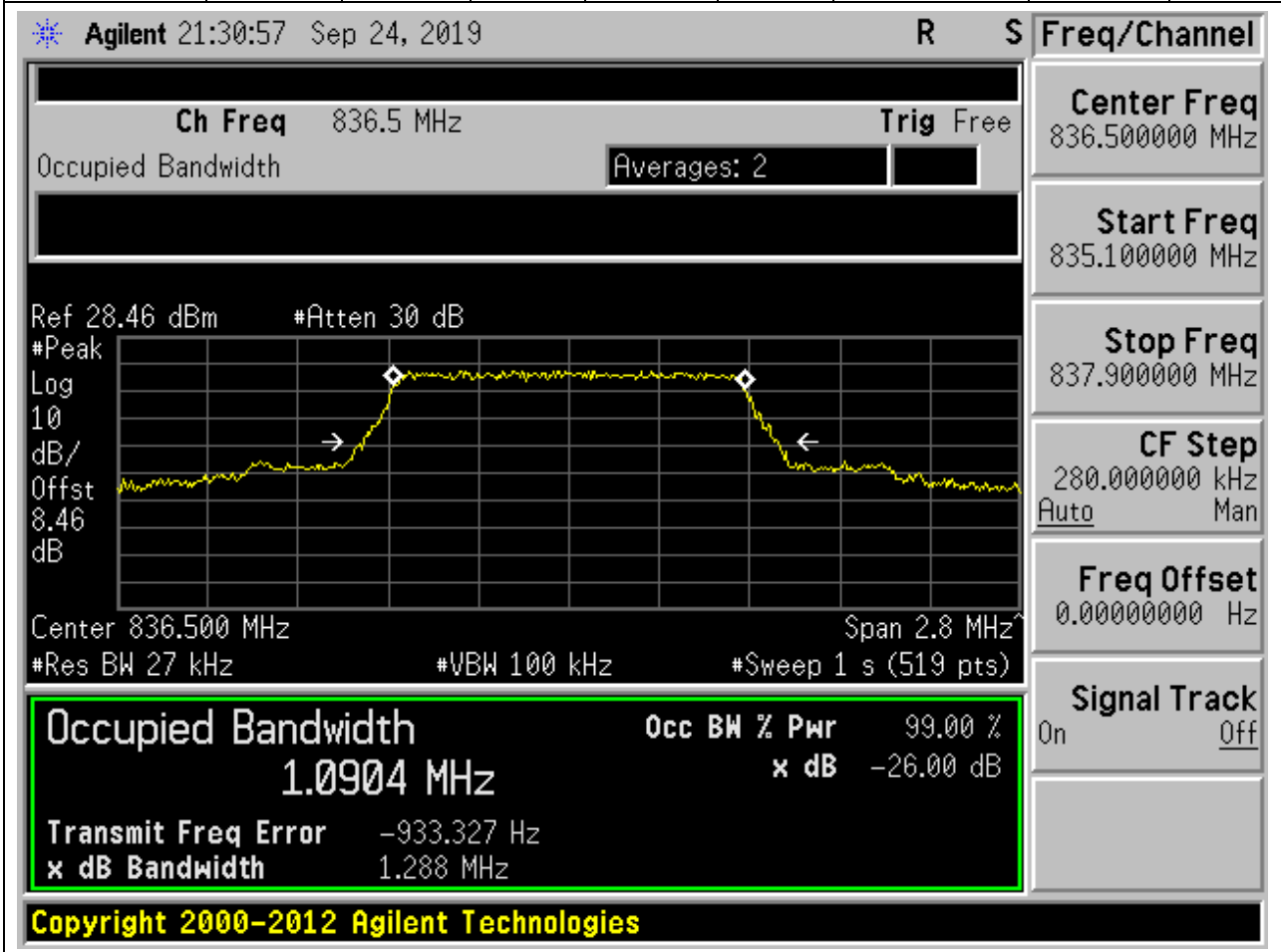
**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

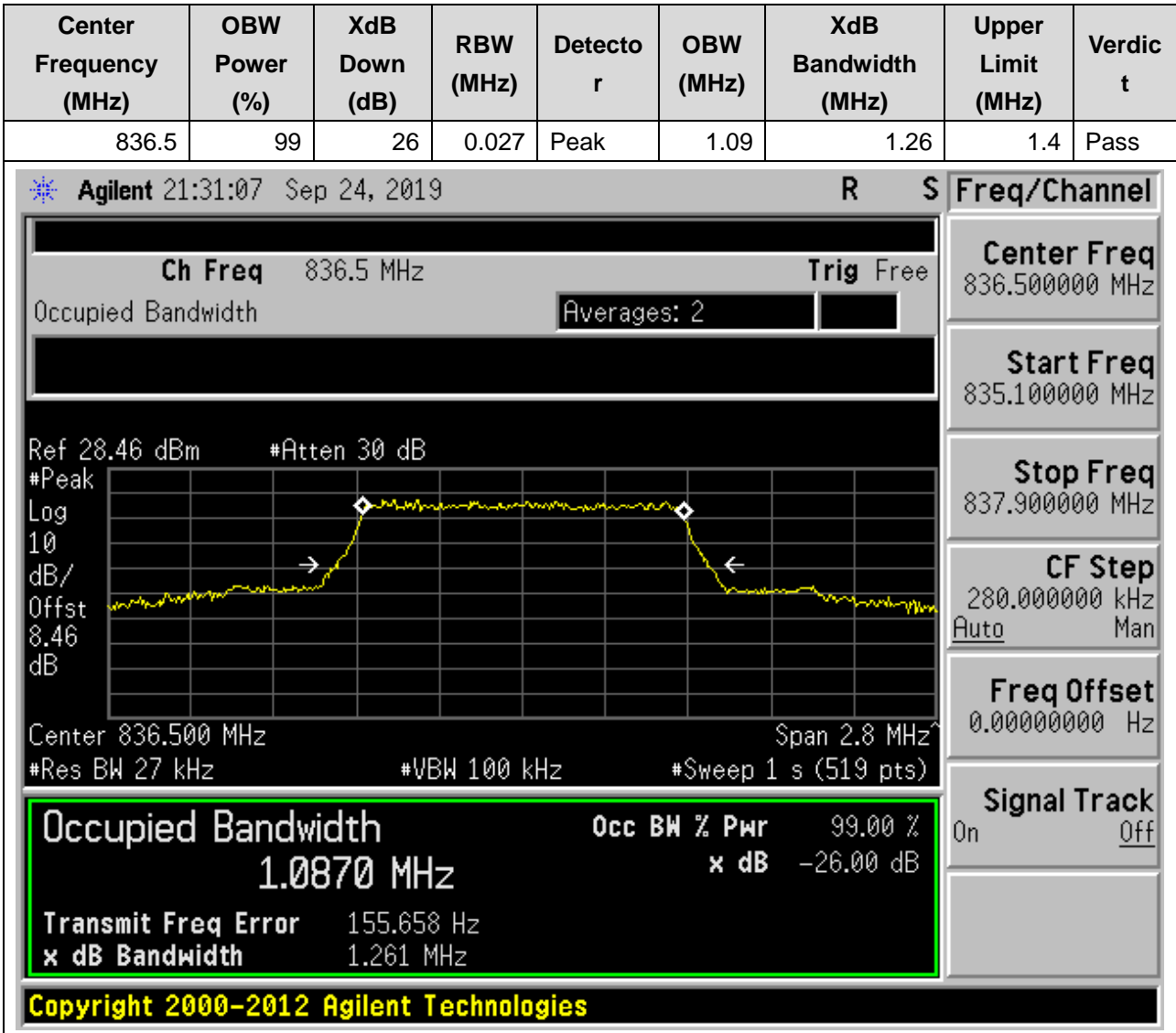
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**14.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:26915, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

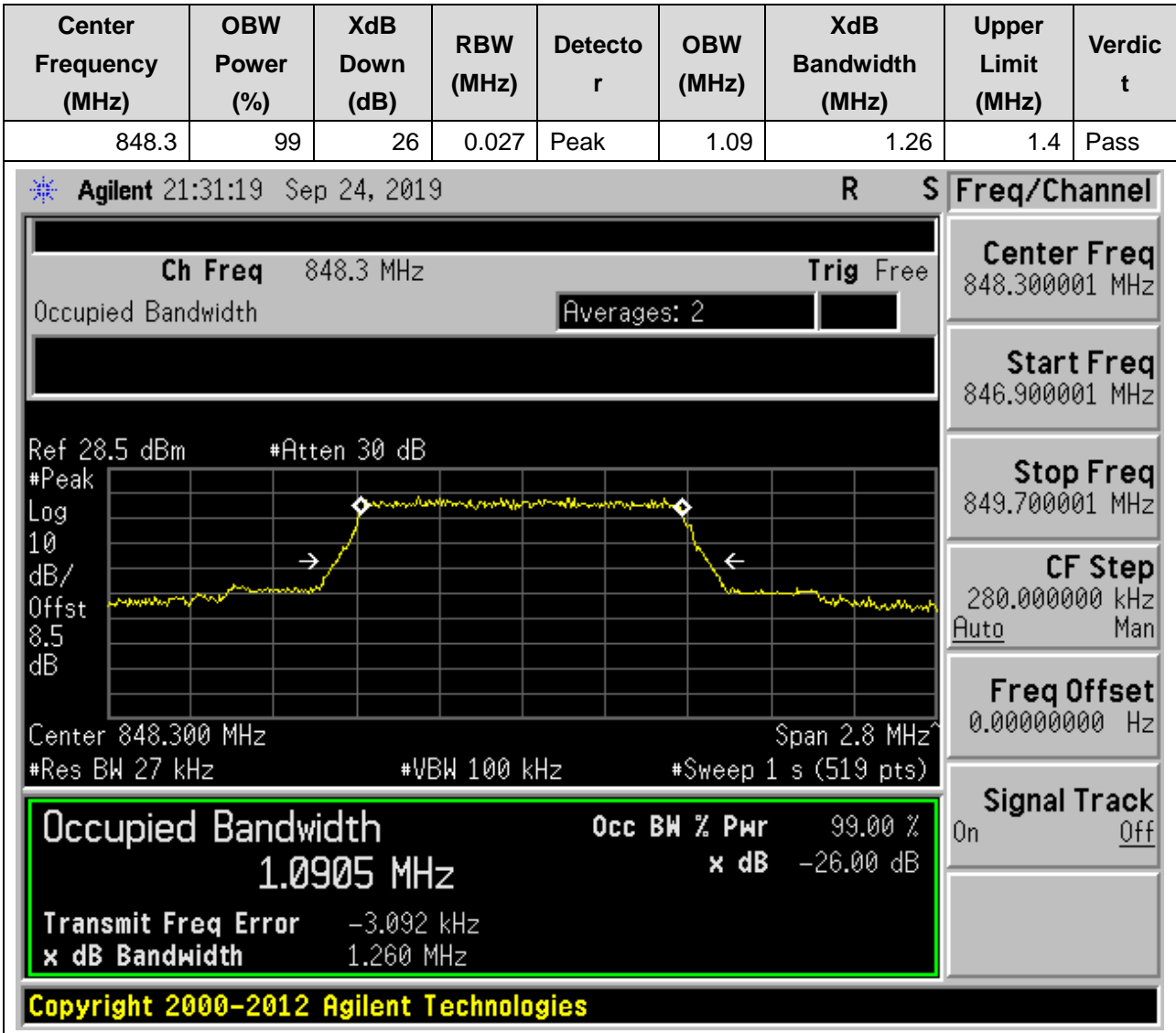
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.027	Peak	1.09	1.29	1.4	Pass



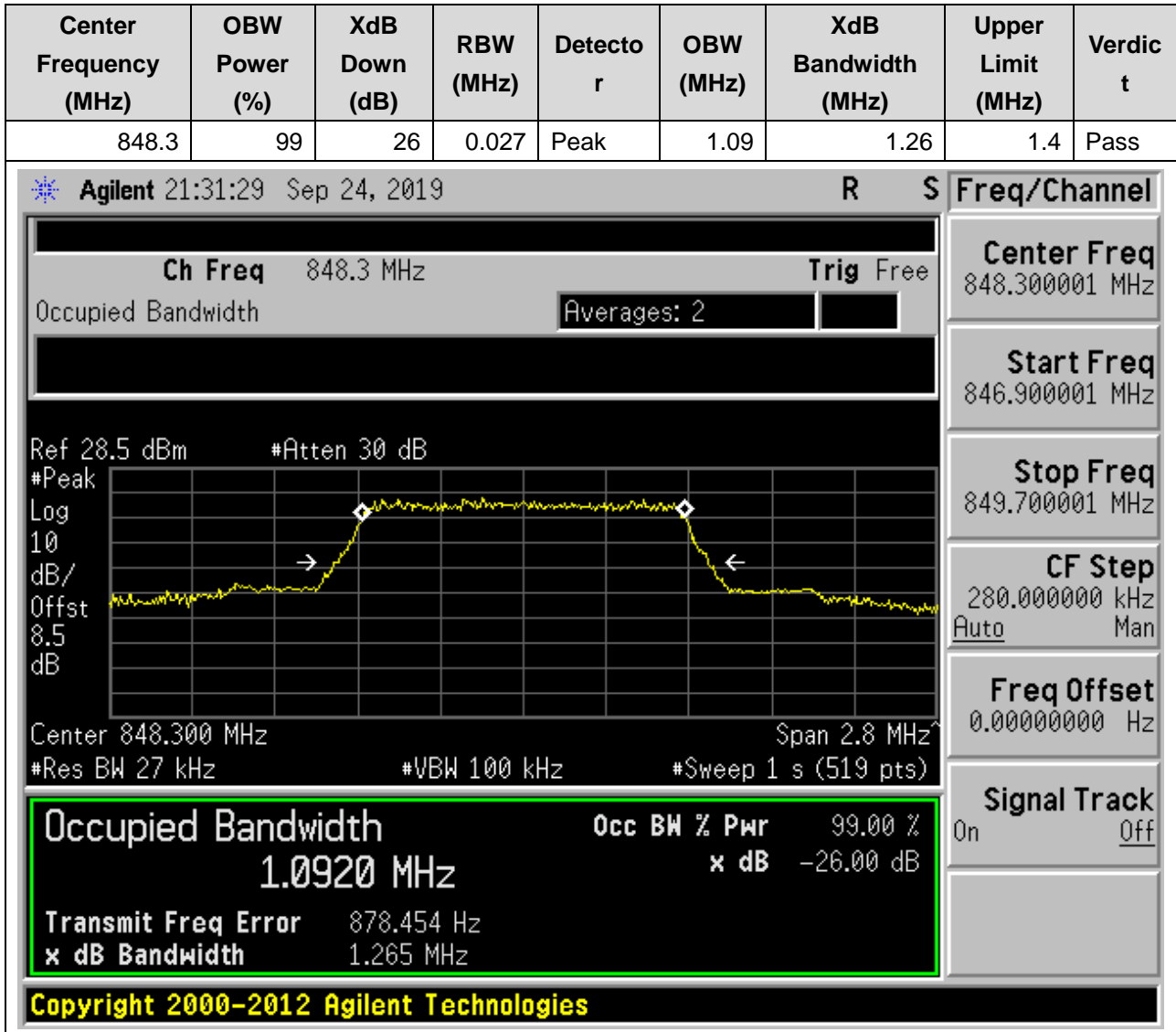
**14.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:26915, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



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

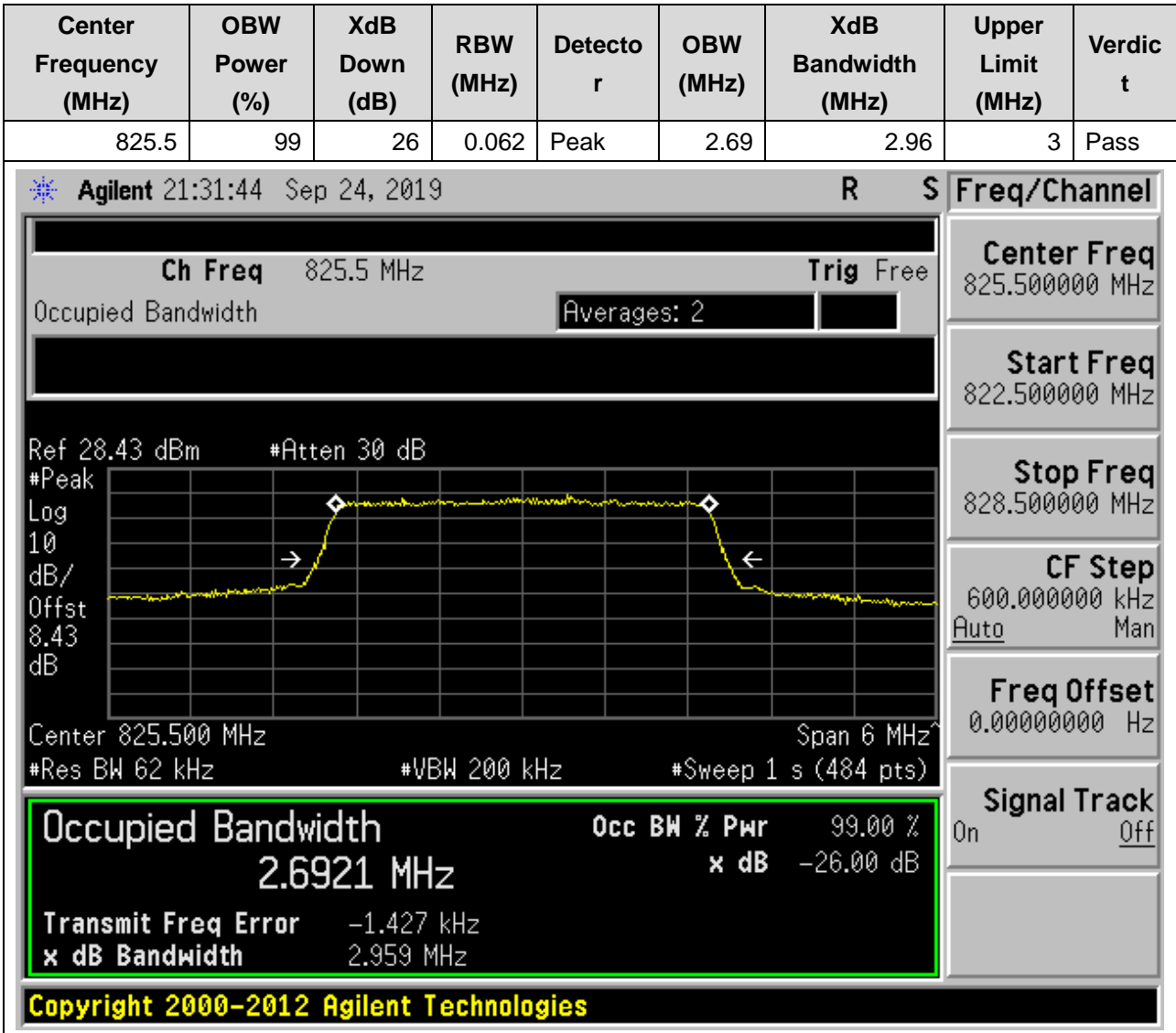


**14.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:27033, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

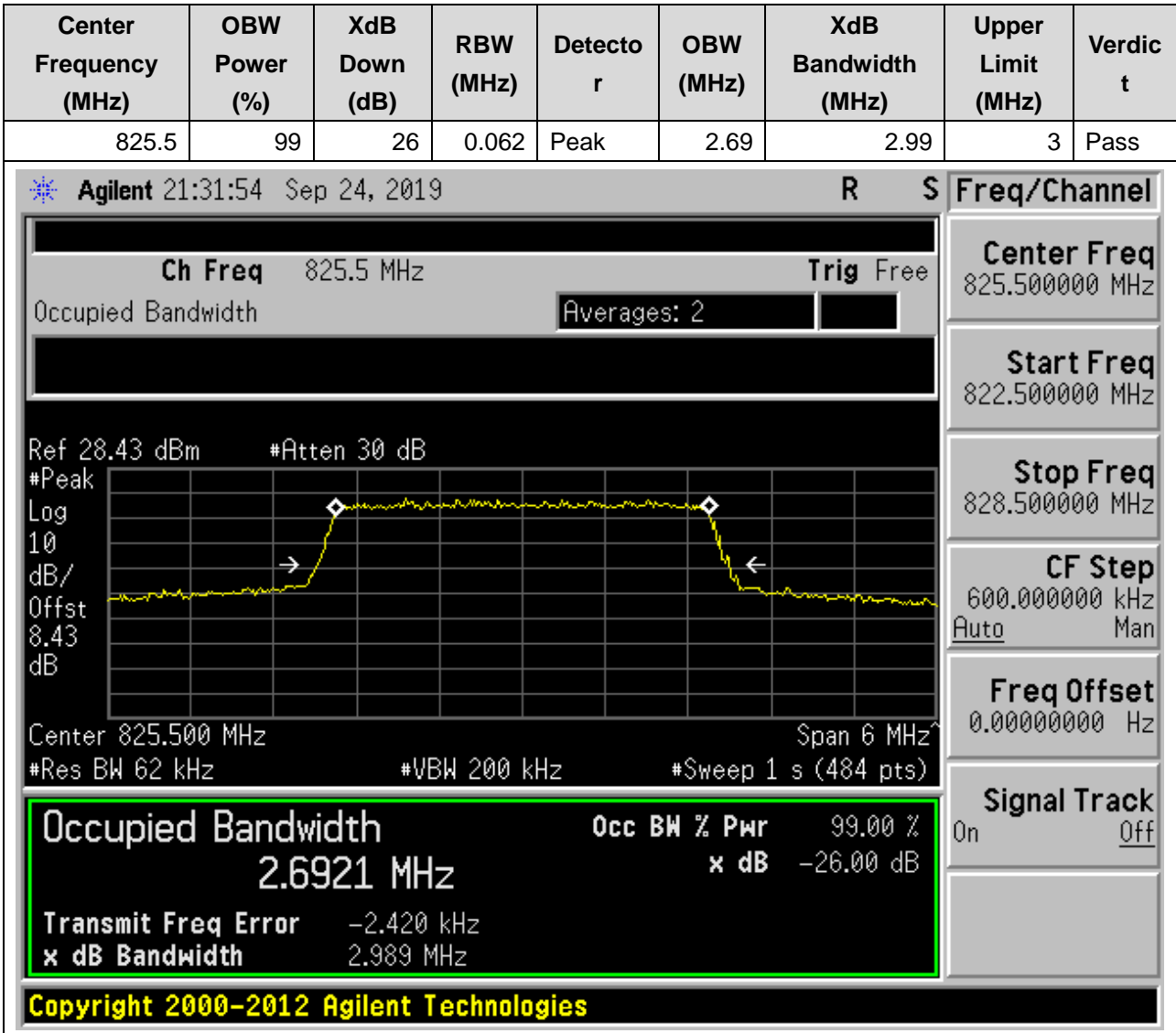




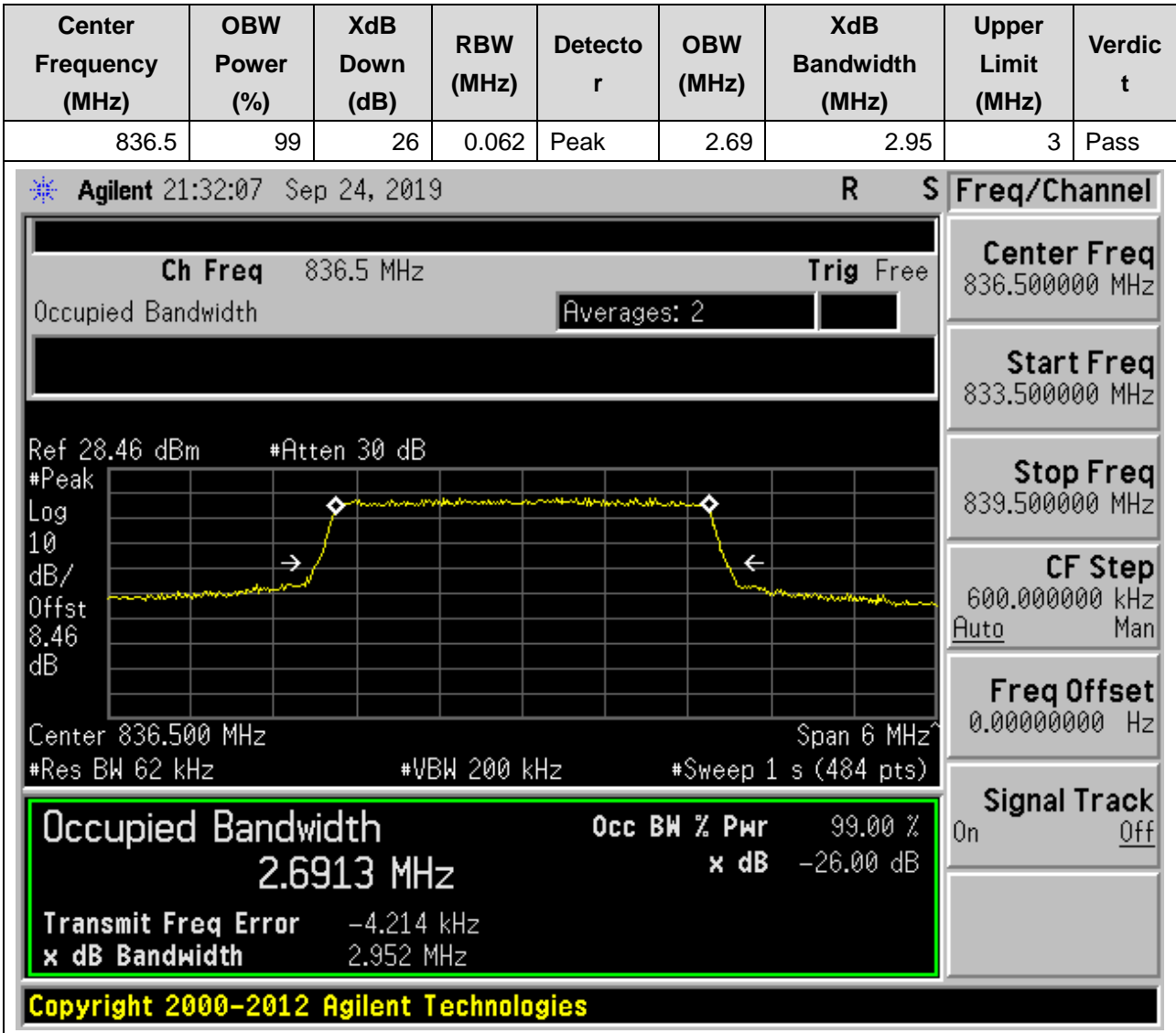
**14.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:26805, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



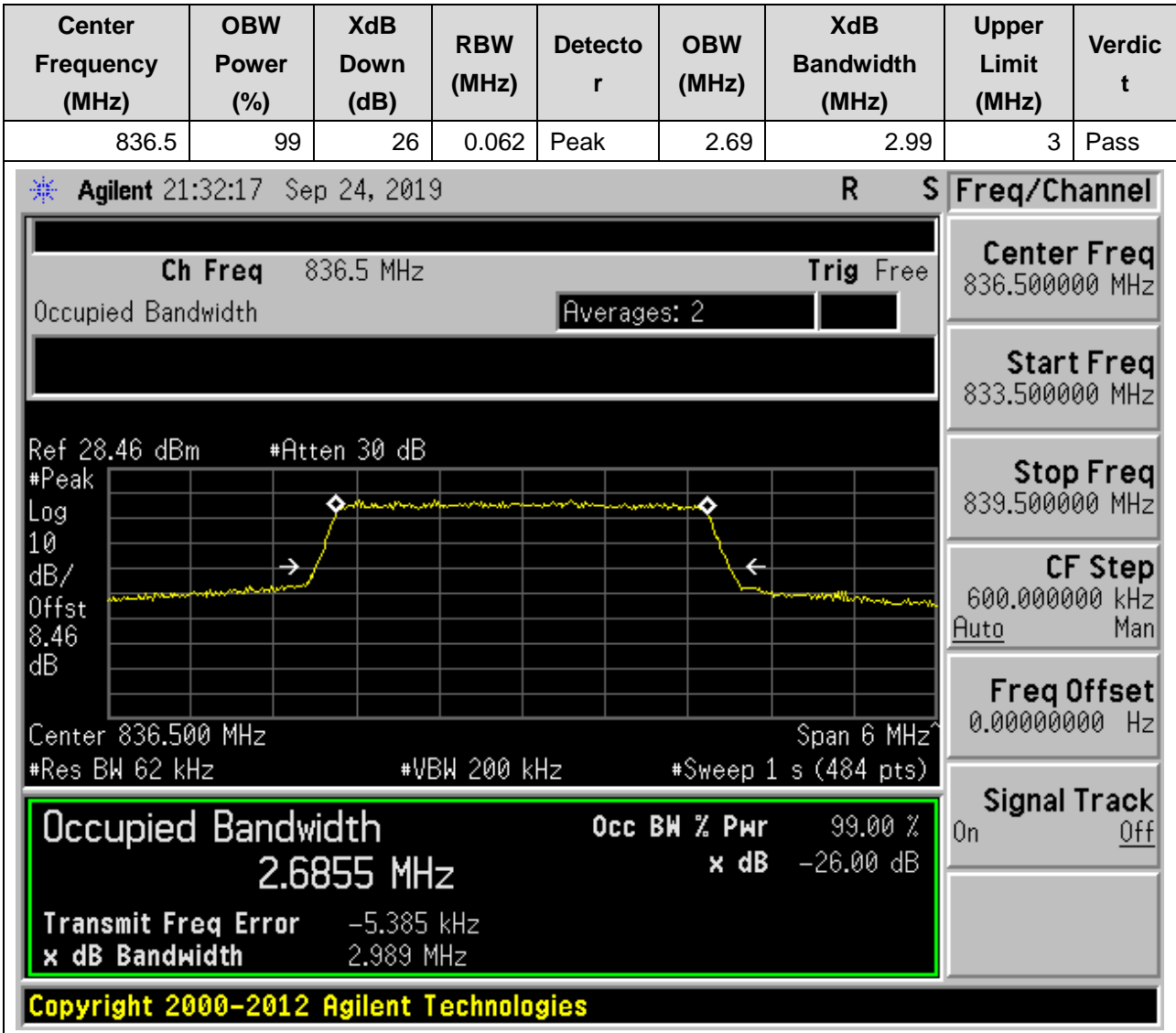
**14.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:26805, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



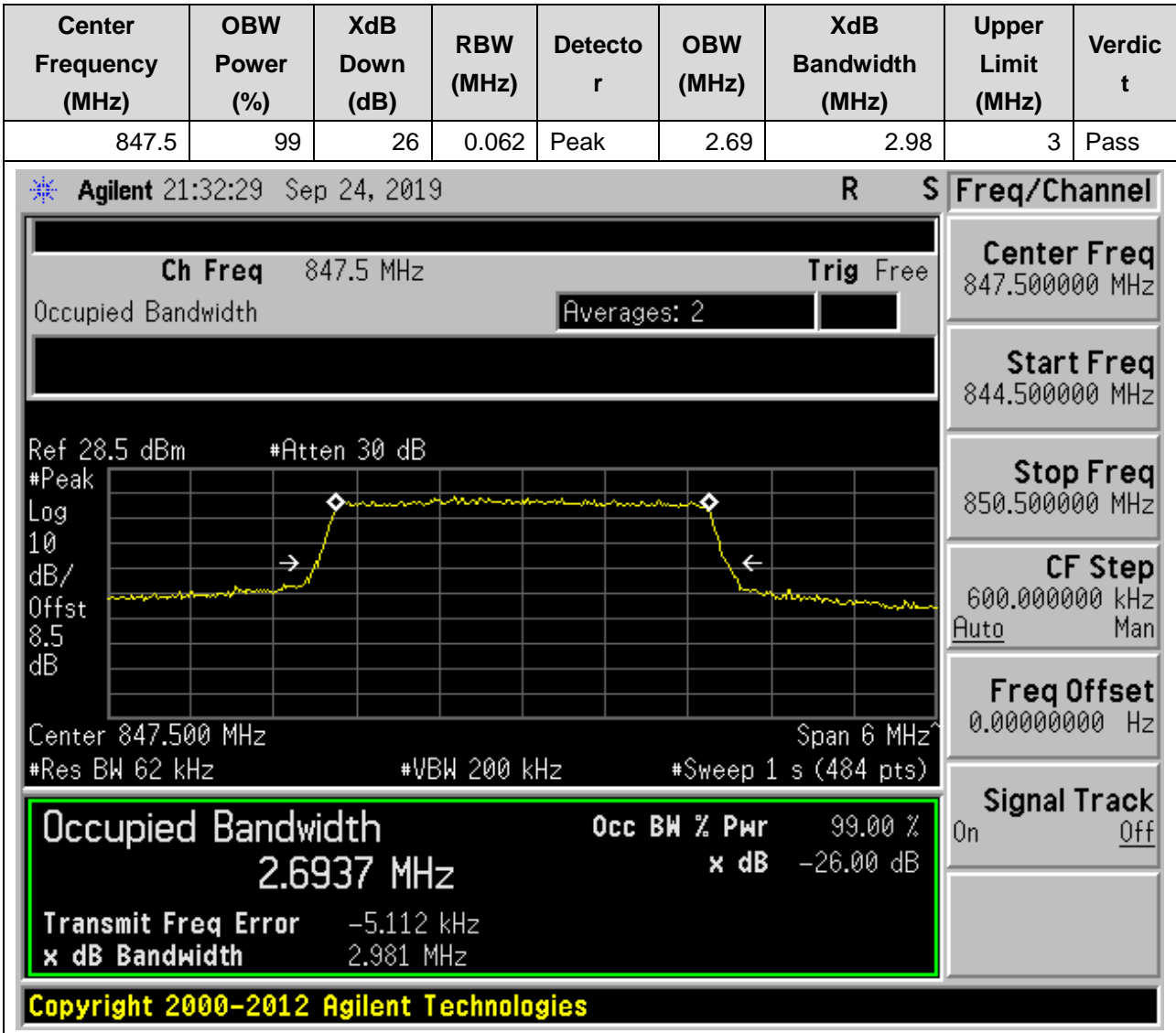
**14.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:26915, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



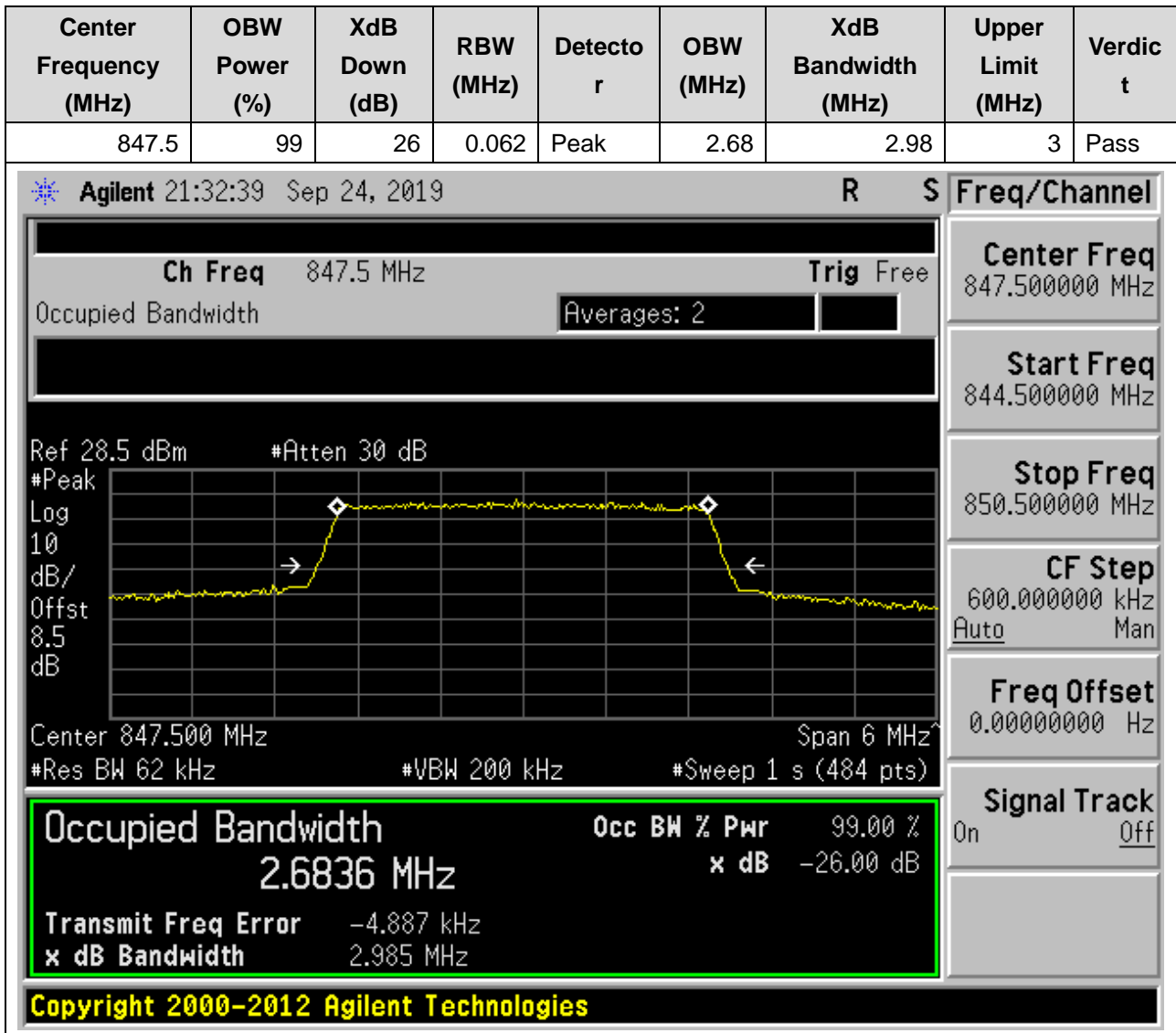
**14.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:26915, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



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



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



**14.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:26815, 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	4.5	4.92	5	Pass

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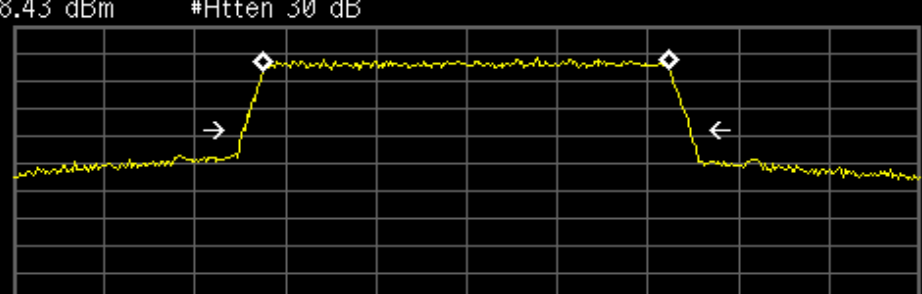
**Ch Freq** 826.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 28.43 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.43 dB



Center 826.500 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (501 pts)

---

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
4.5025 MHz	x dB	-26.00 dB
<b>Transmit Freq Error</b>	-2.826 kHz	
<b>x dB Bandwidth</b>	4.919 MHz	

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**Freq/Channel**

**Center Freq** 826.500000 MHz

**Start Freq** 821.500000 MHz

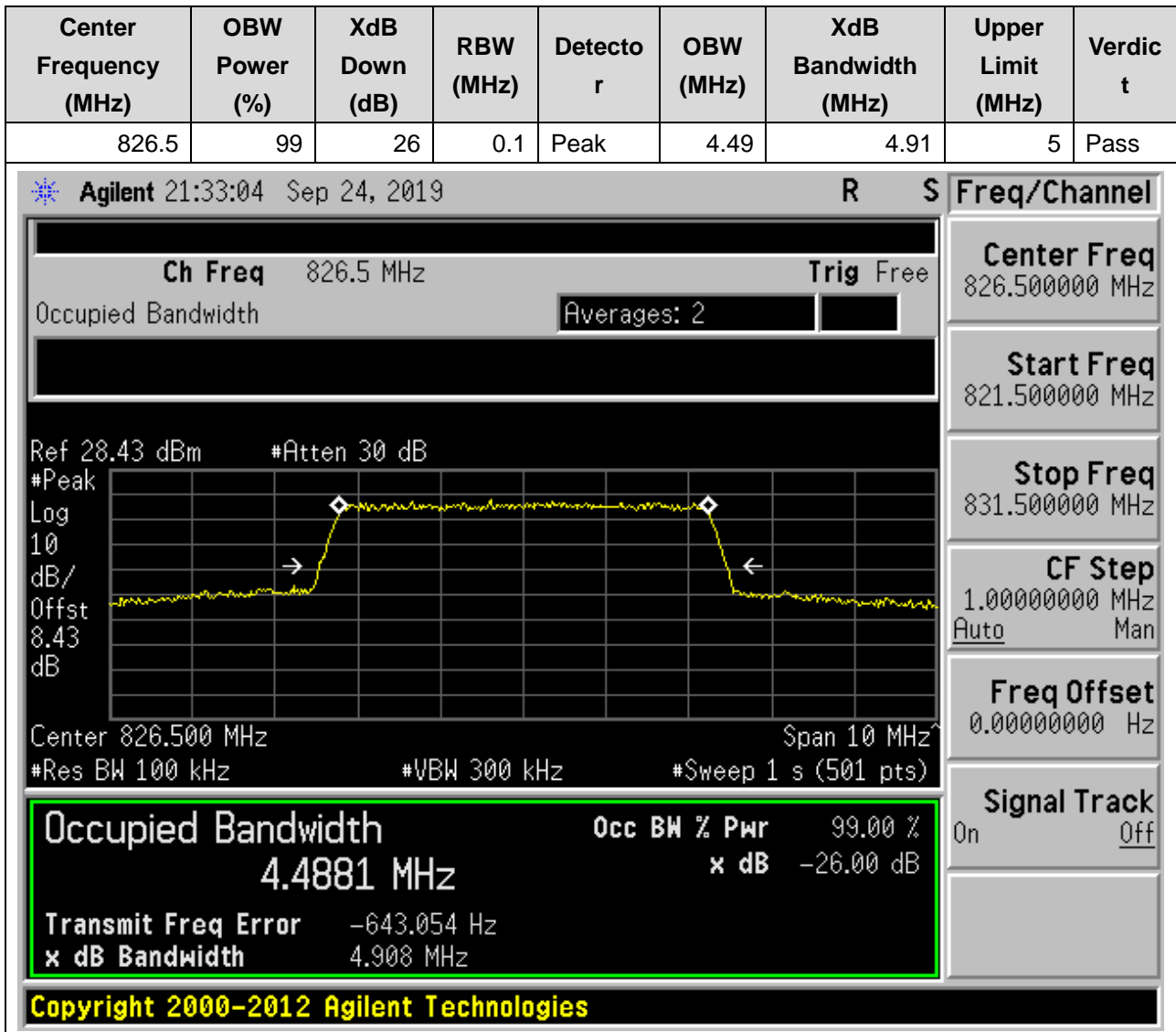
**Stop Freq** 831.500000 MHz

**CF Step** 1.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

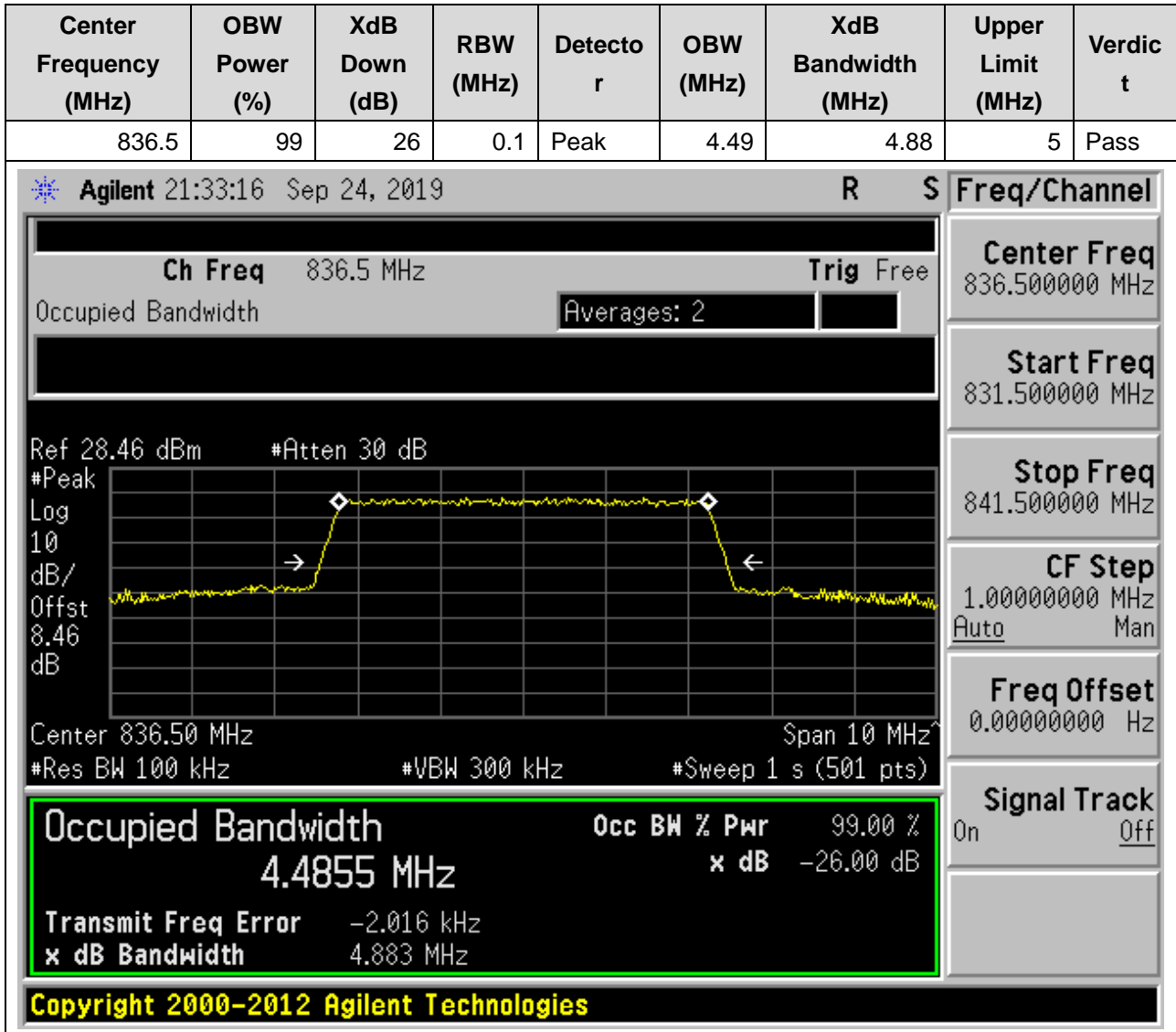
**Signal Track** On Off

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

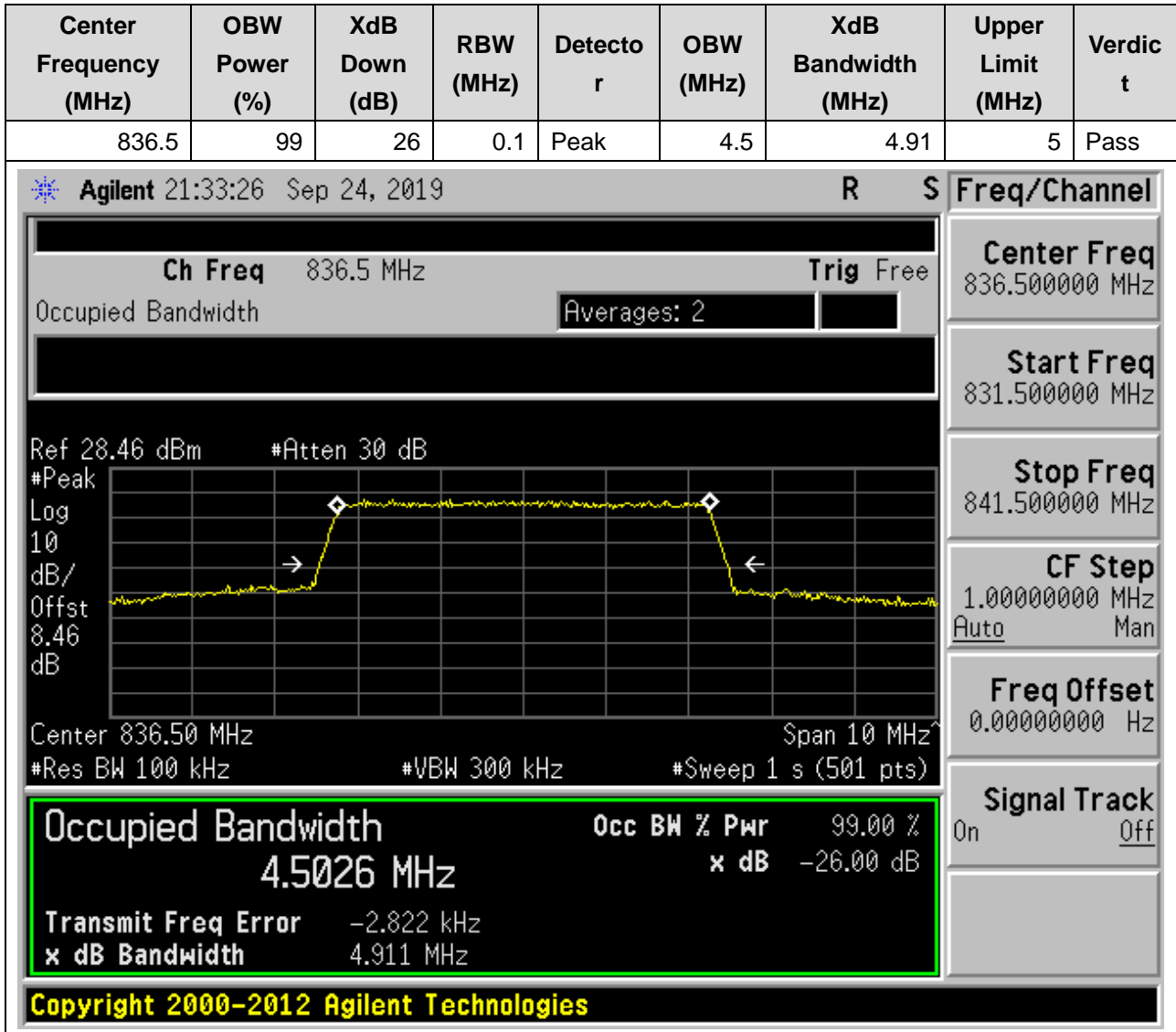




**14.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:26915, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



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



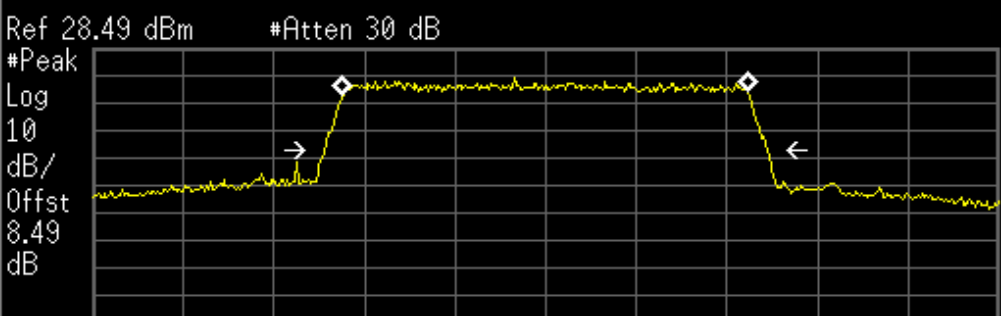
**14.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:27015, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

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	4.49	4.87	5	Pass

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**Ch Freq** 846.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 28.49 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.49 dB

Center 846.50 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
4.4896 MHz	x dB	-26.00 dB
<b>Transmit Freq Error</b>	-4.009 kHz	
<b>x dB Bandwidth</b>	4.870 MHz	

**Freq/Channel**

**Center Freq** 846.500000 MHz

**Start Freq** 841.500000 MHz

**Stop Freq** 851.500000 MHz

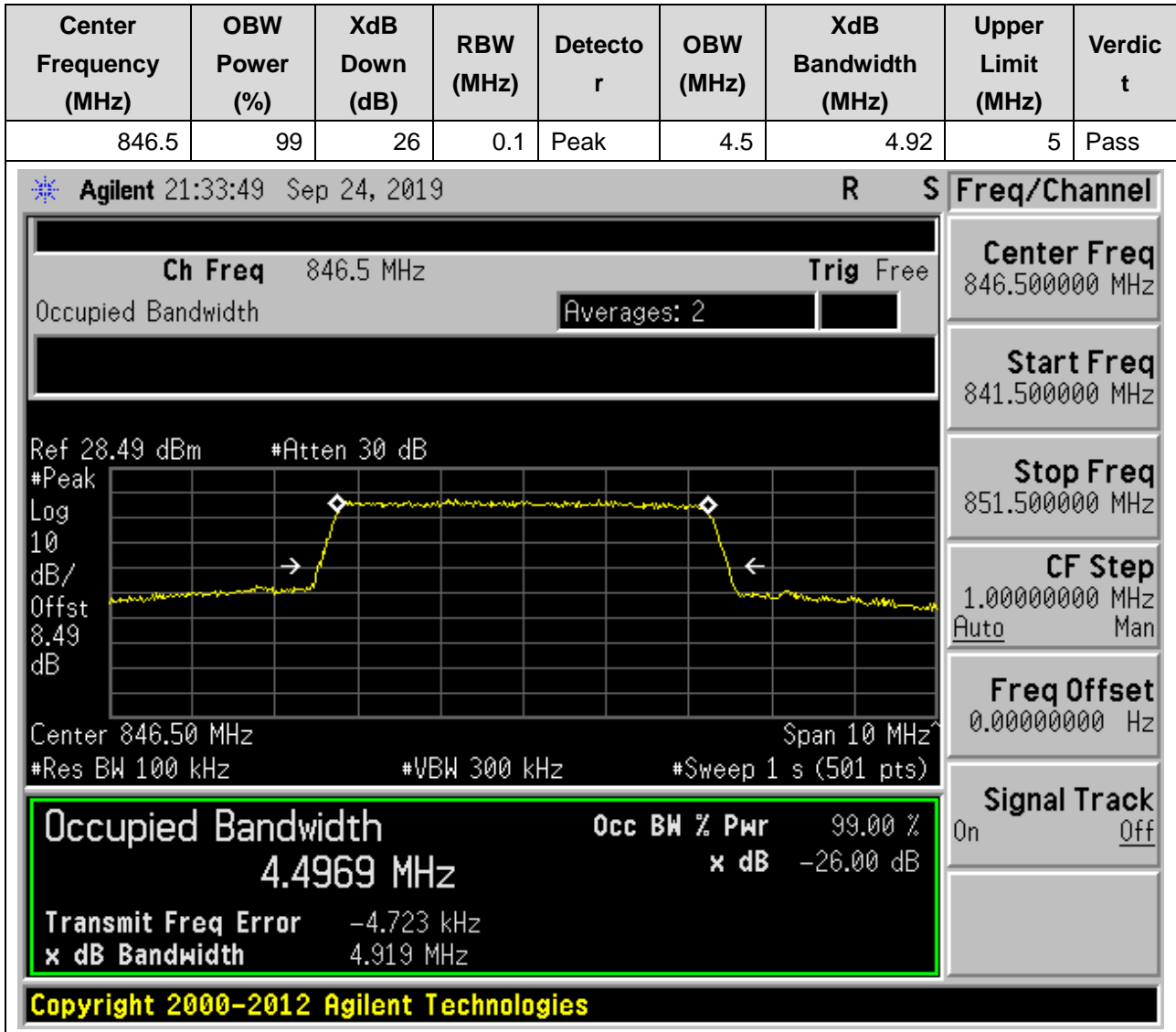
**CF Step** 1.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

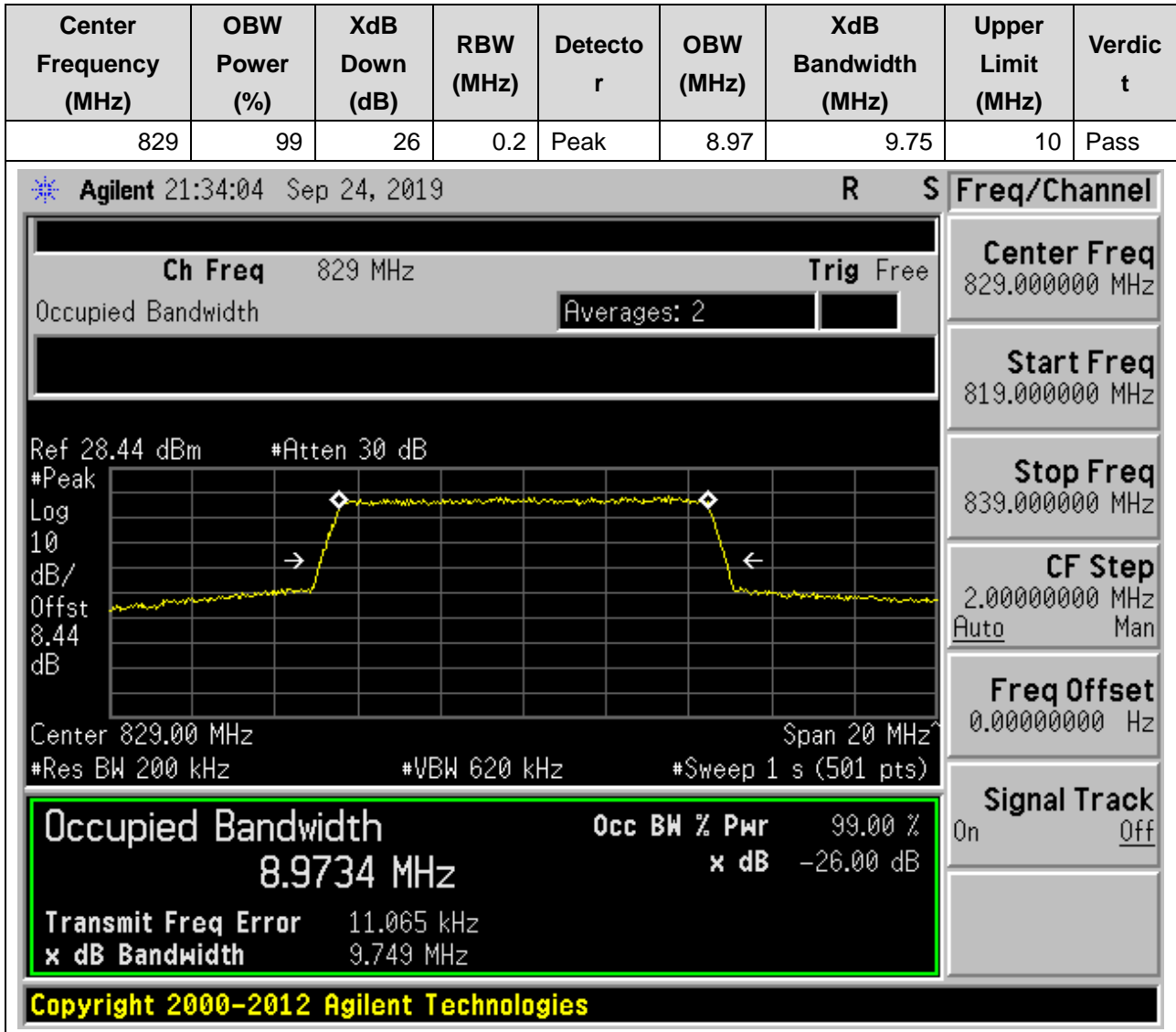
**Signal Track** On Off

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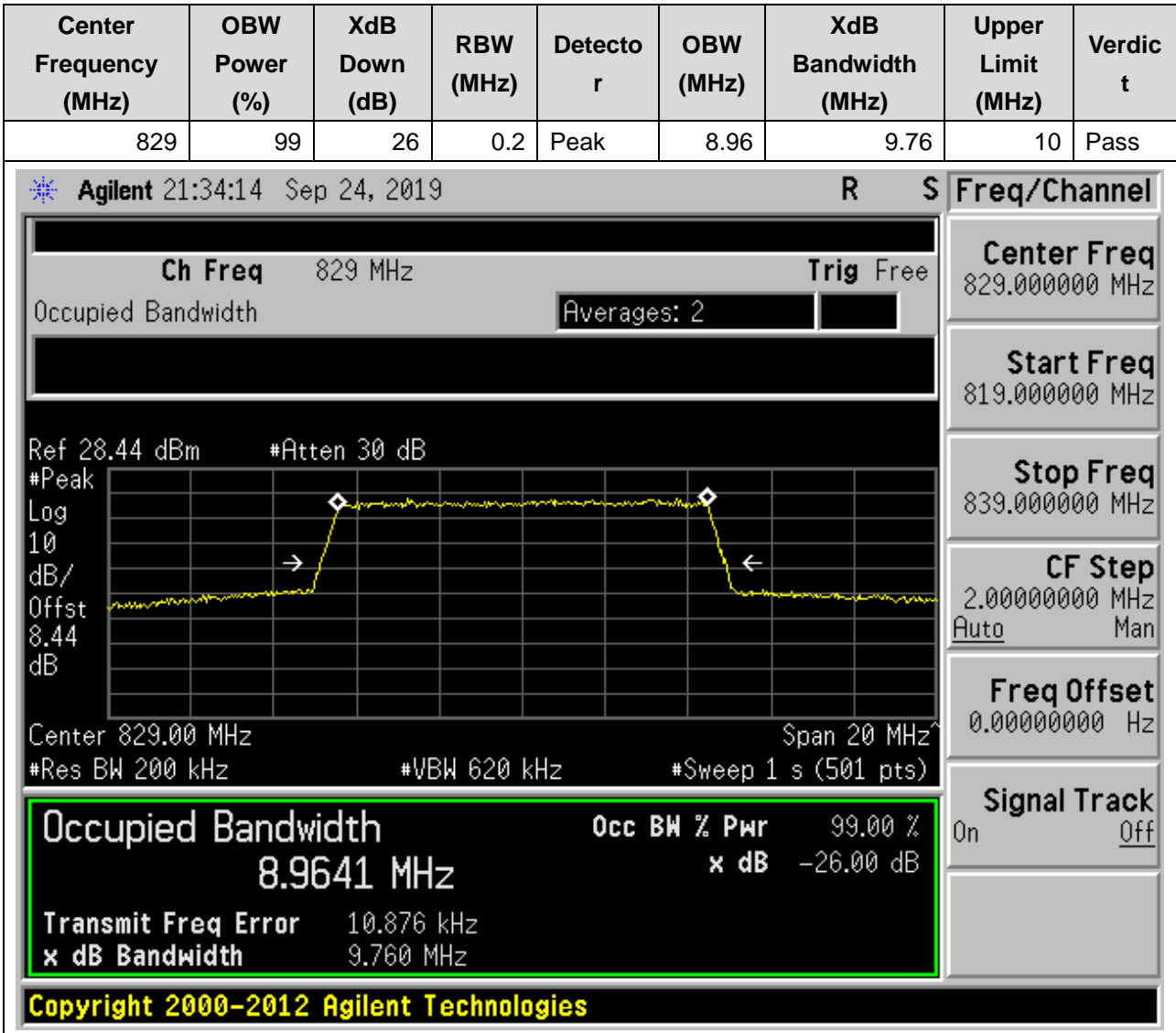
**14.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:27015, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



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



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



**14.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:26915, 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	8.94	9.71	10	Pass

**Agilent** 21:34:26 Sep 24, 2019 R S

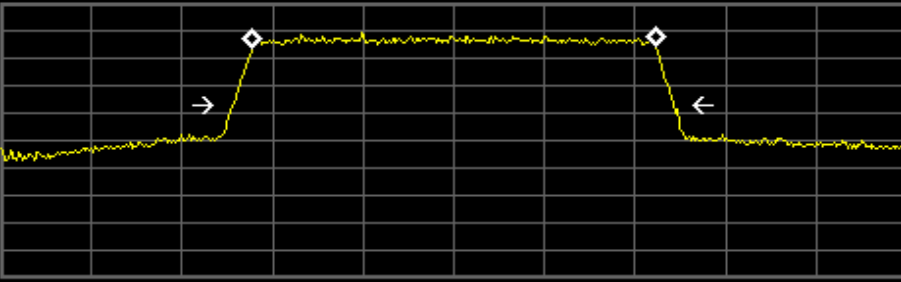
**Freq/Channel**

Ch Freq 836.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.46 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.46 dB



Center 836.50 MHz Span 20 MHz

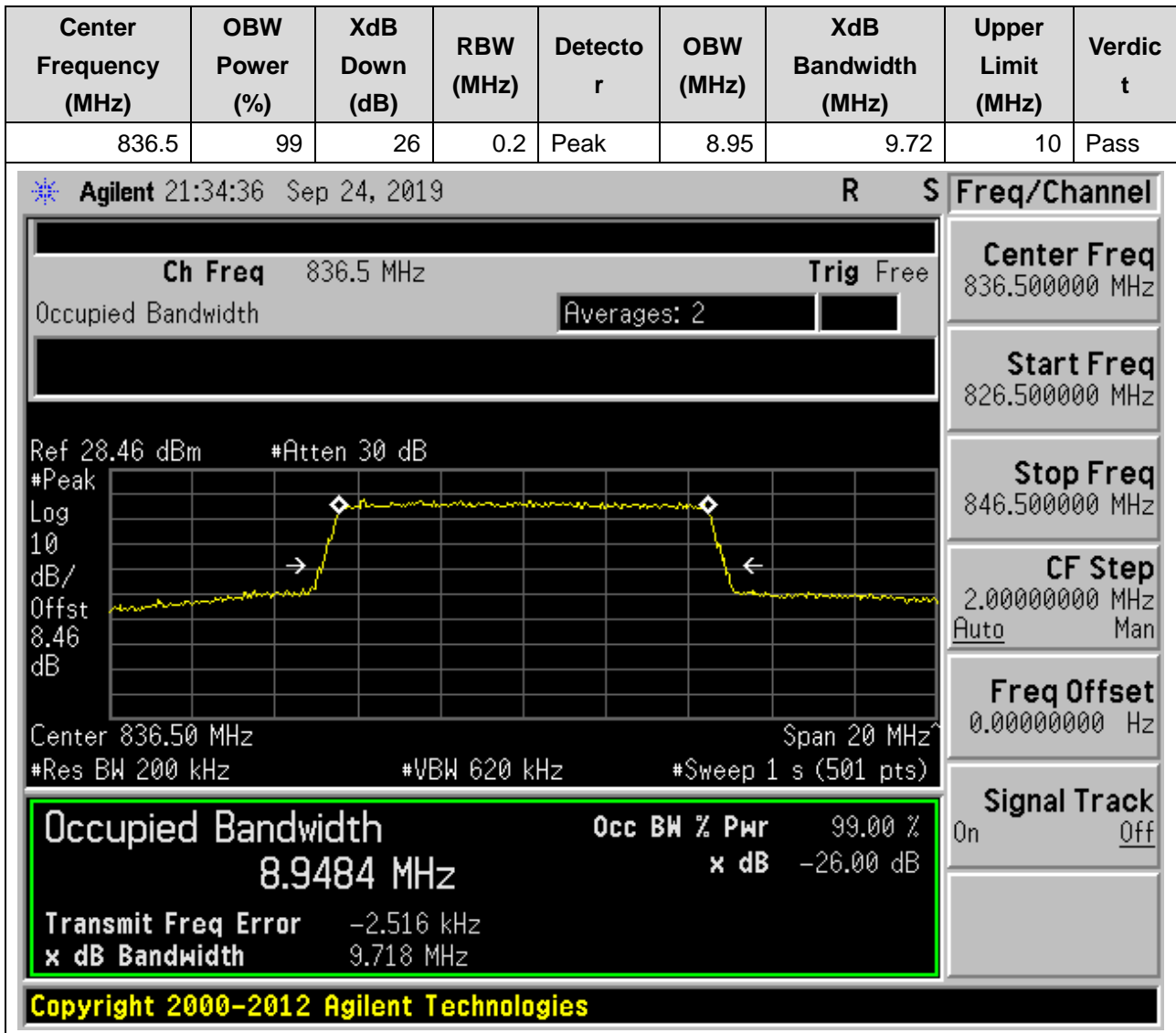
#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>8.9374 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-1.280 kHz	
<b>x dB Bandwidth</b>	9.713 MHz	

**Signal Track**  
On Off

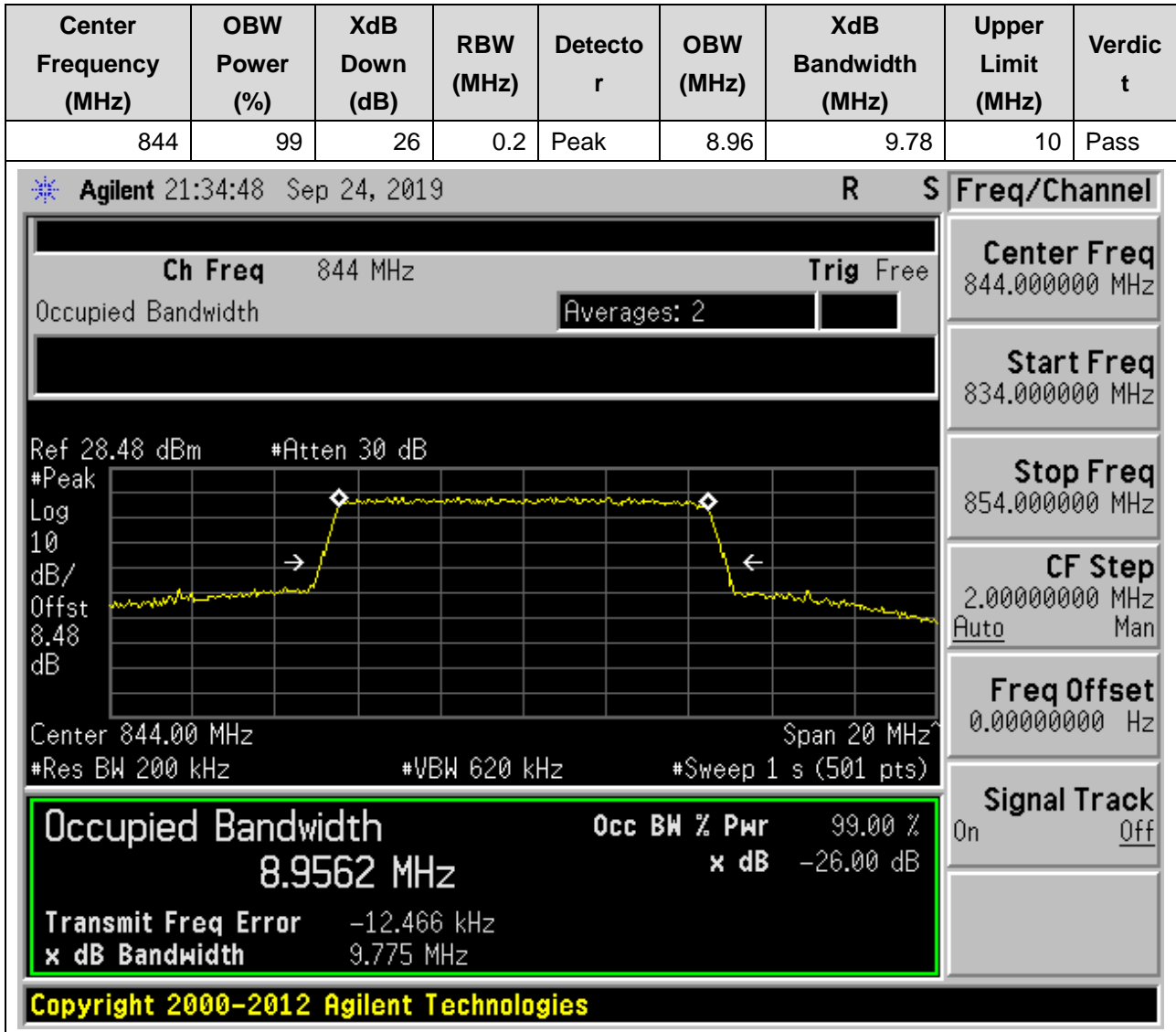
**Copyright 2000-2012 Agilent Technologies**

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



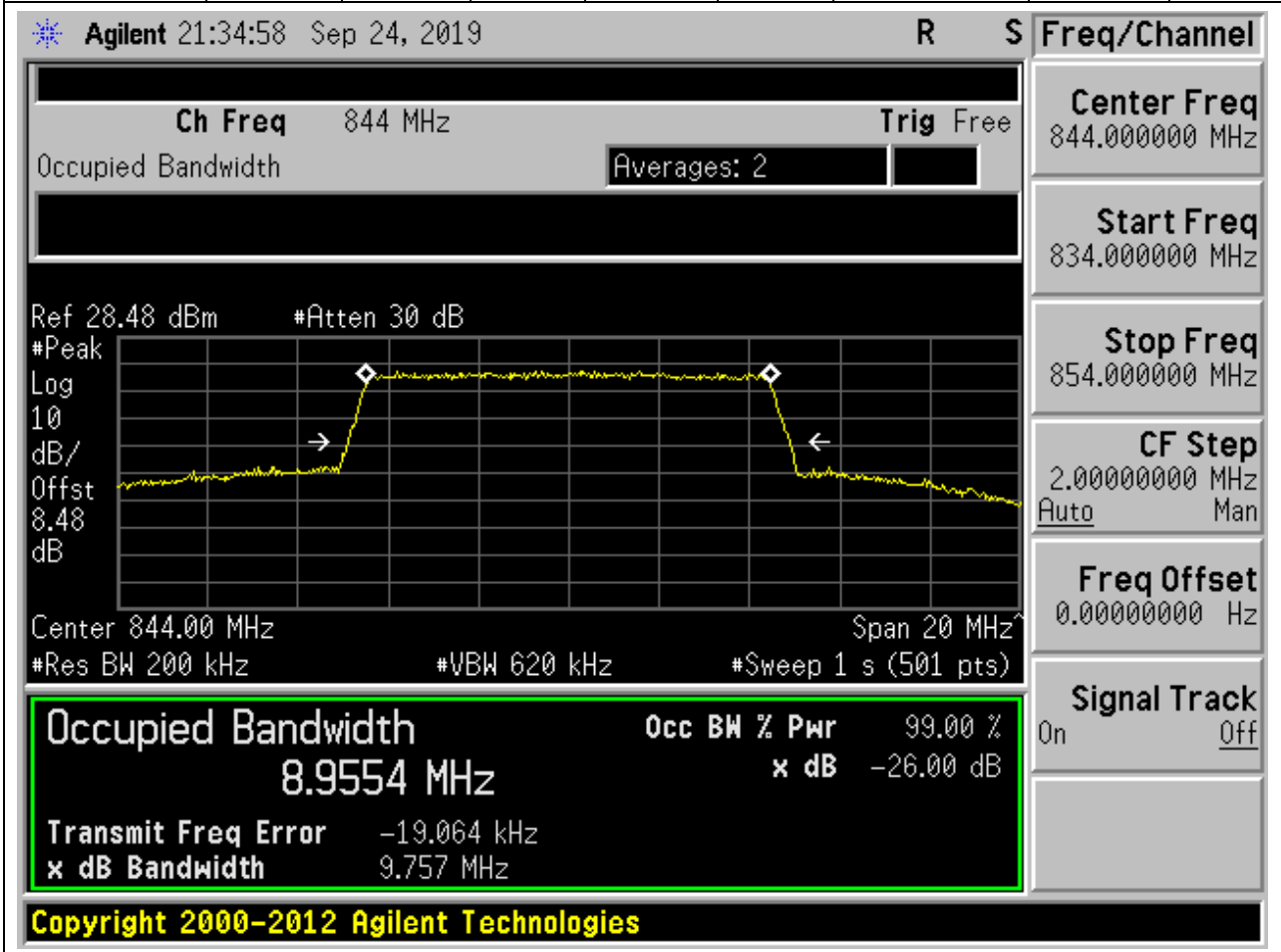


**14.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:26990, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

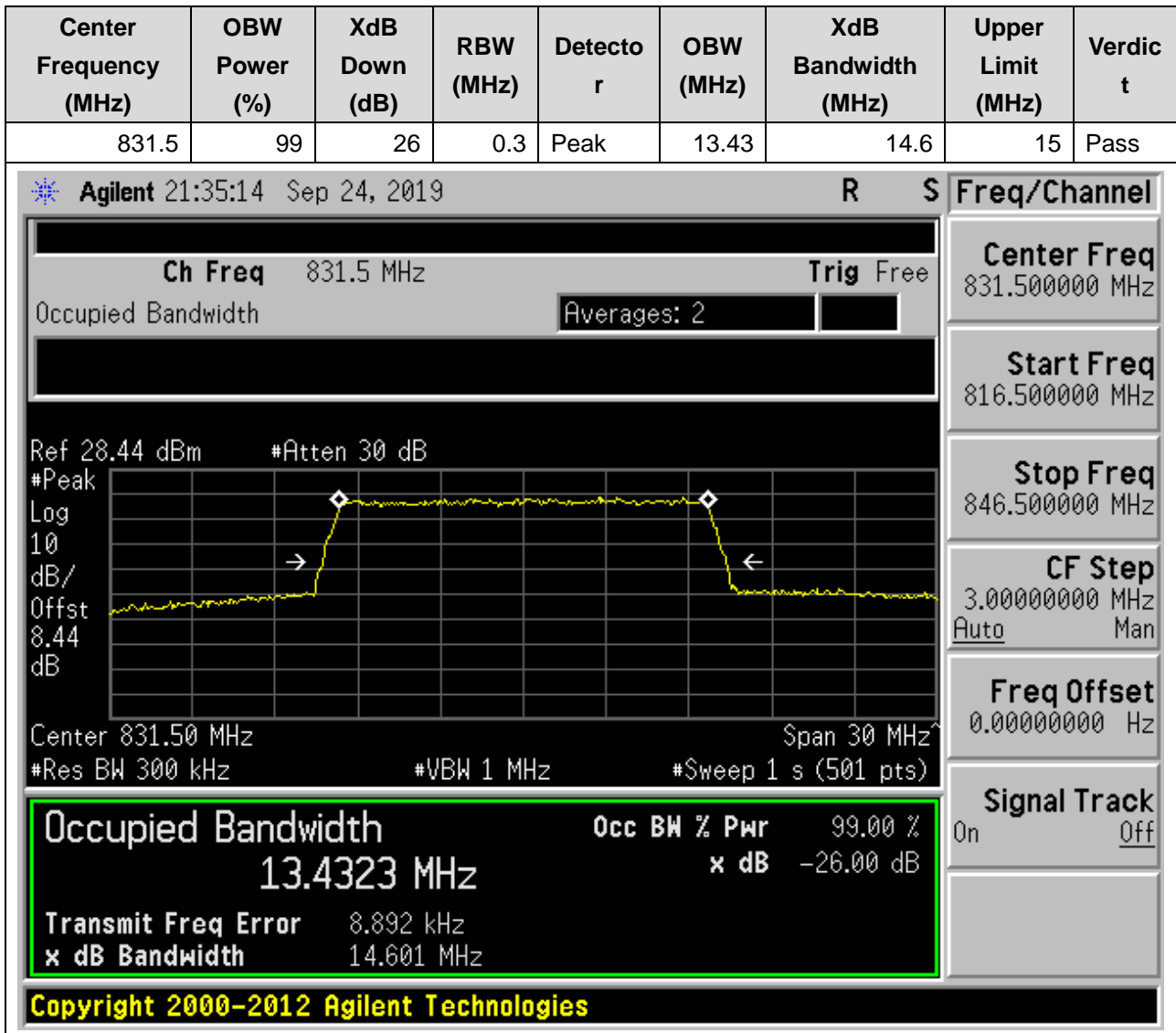


**14.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:26990, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

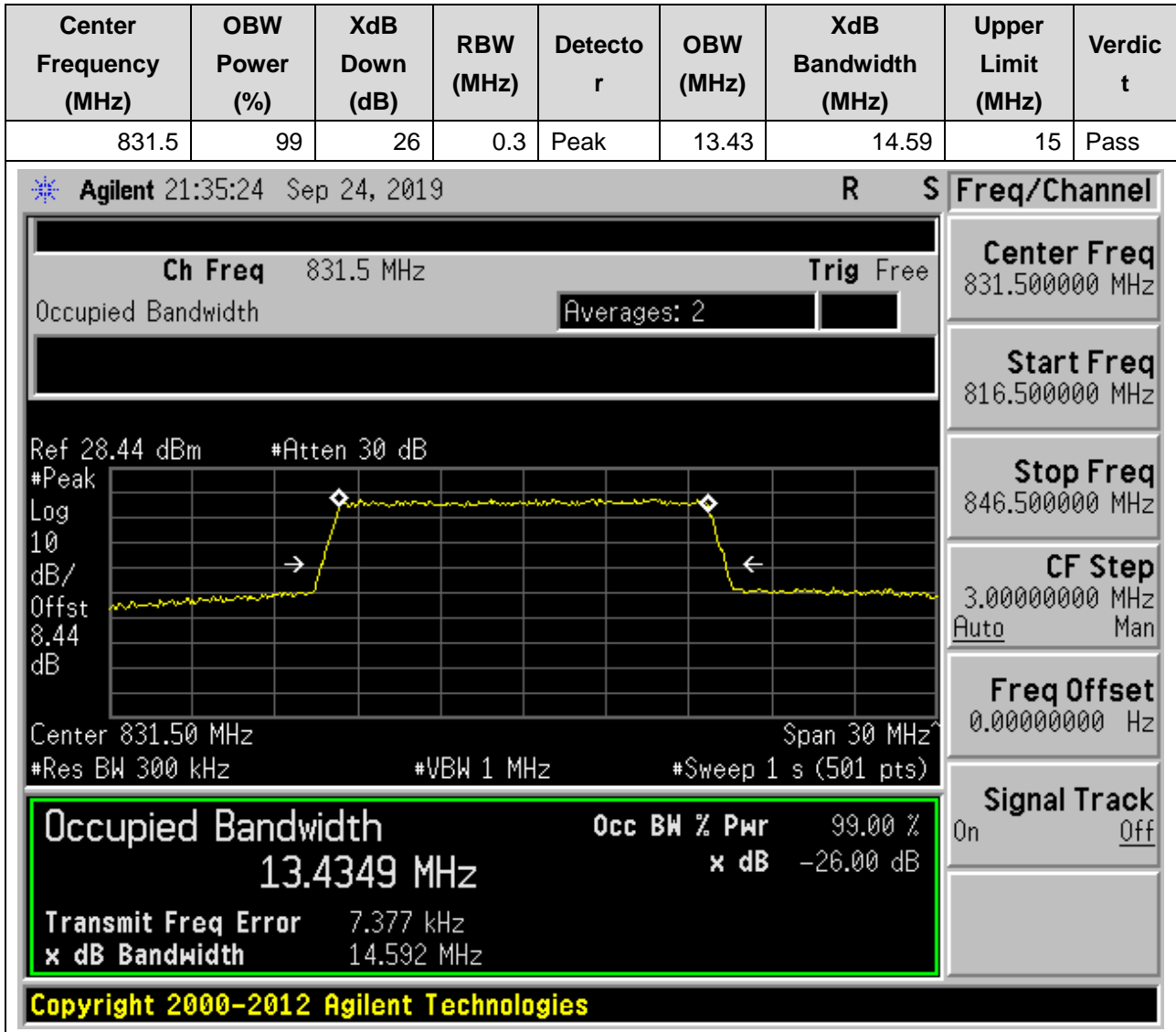
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
844	99	26	0.2	Peak	8.96	9.76	10	Pass



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



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



**14.27. LTE Occupied Bandwidth(NTNV)(Subtest:27, Channel:26915, 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
836.5	99	26	0.3	Peak	13.41	14.63	15	Pass

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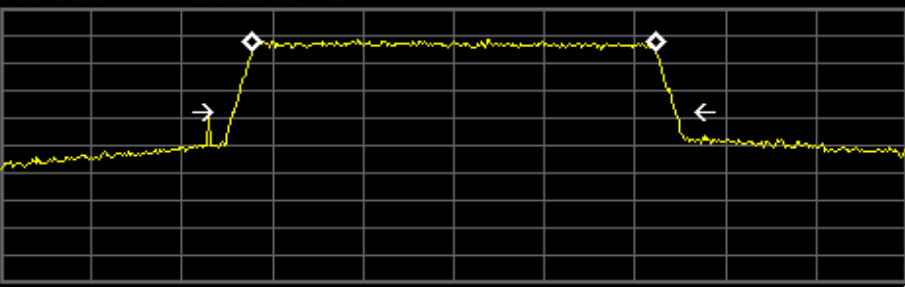
**Ch Freq** 836.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 28.46 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.46 dB



Center 836.50 MHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (501 pts)

---

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>13.4089 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	2.102 kHz	
<b>x dB Bandwidth</b>	14.629 MHz	

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**Freq/Channel**

**Center Freq** 836.500000 MHz

**Start Freq** 821.500000 MHz

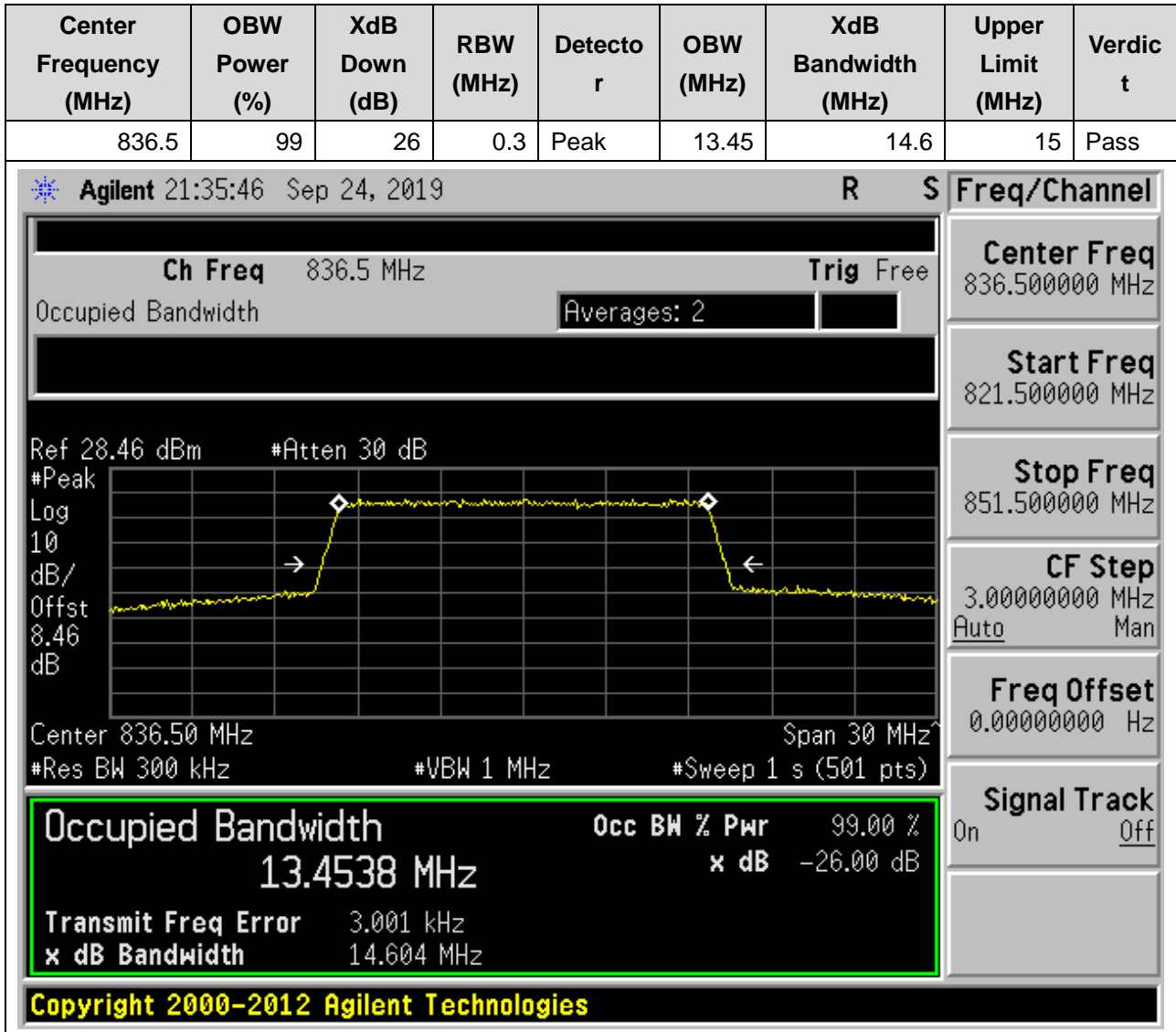
**Stop Freq** 851.500000 MHz

**CF Step** 3.00000000 MHz  
Auto Man

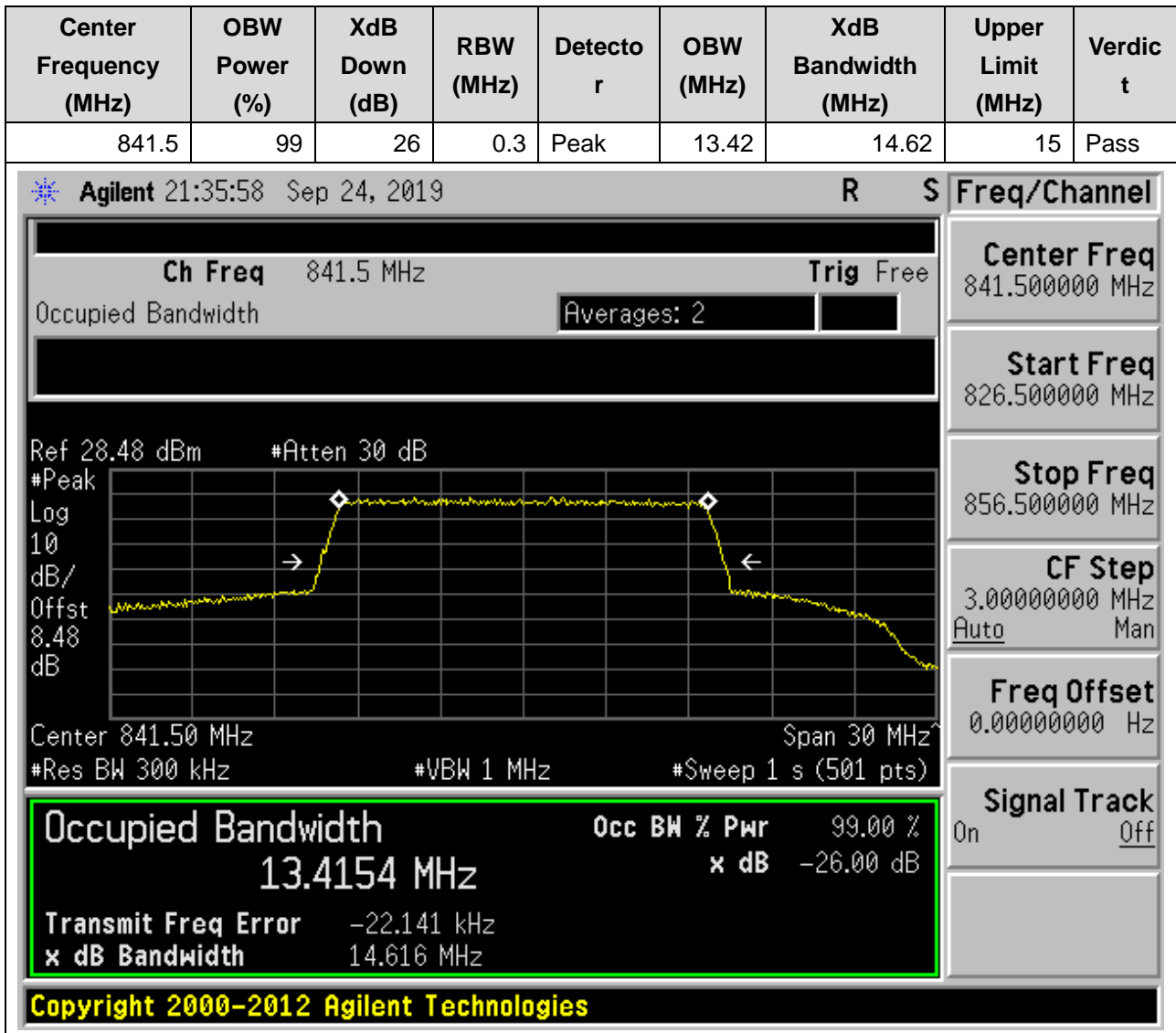
**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

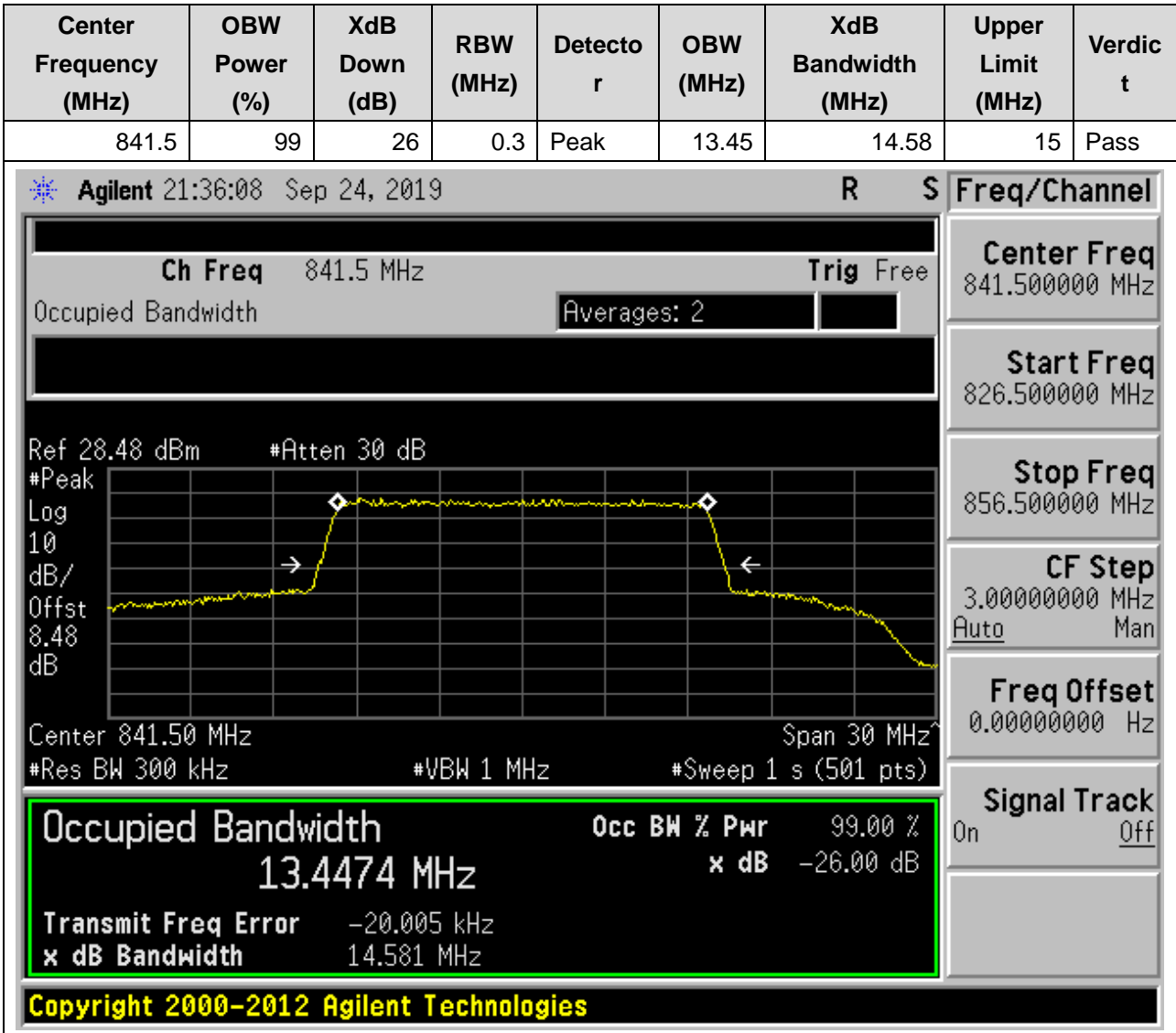
**14.28. LTE Occupied Bandwidth(NTNV)(Subtest:28, Channel:26915, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



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



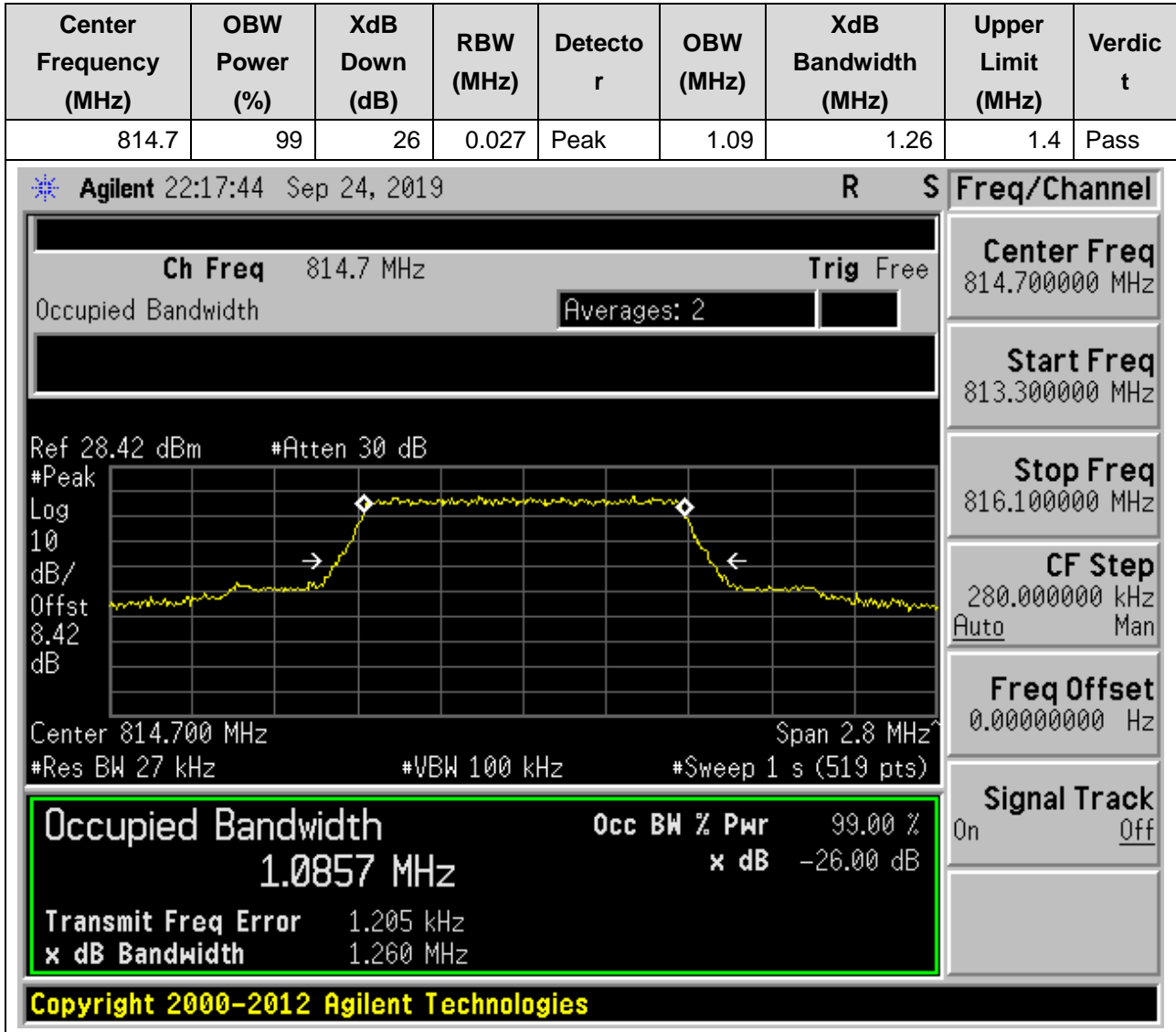
**14.30. LTE Occupied Bandwidth(NTNV)(Subtest:30, Channel:26965, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



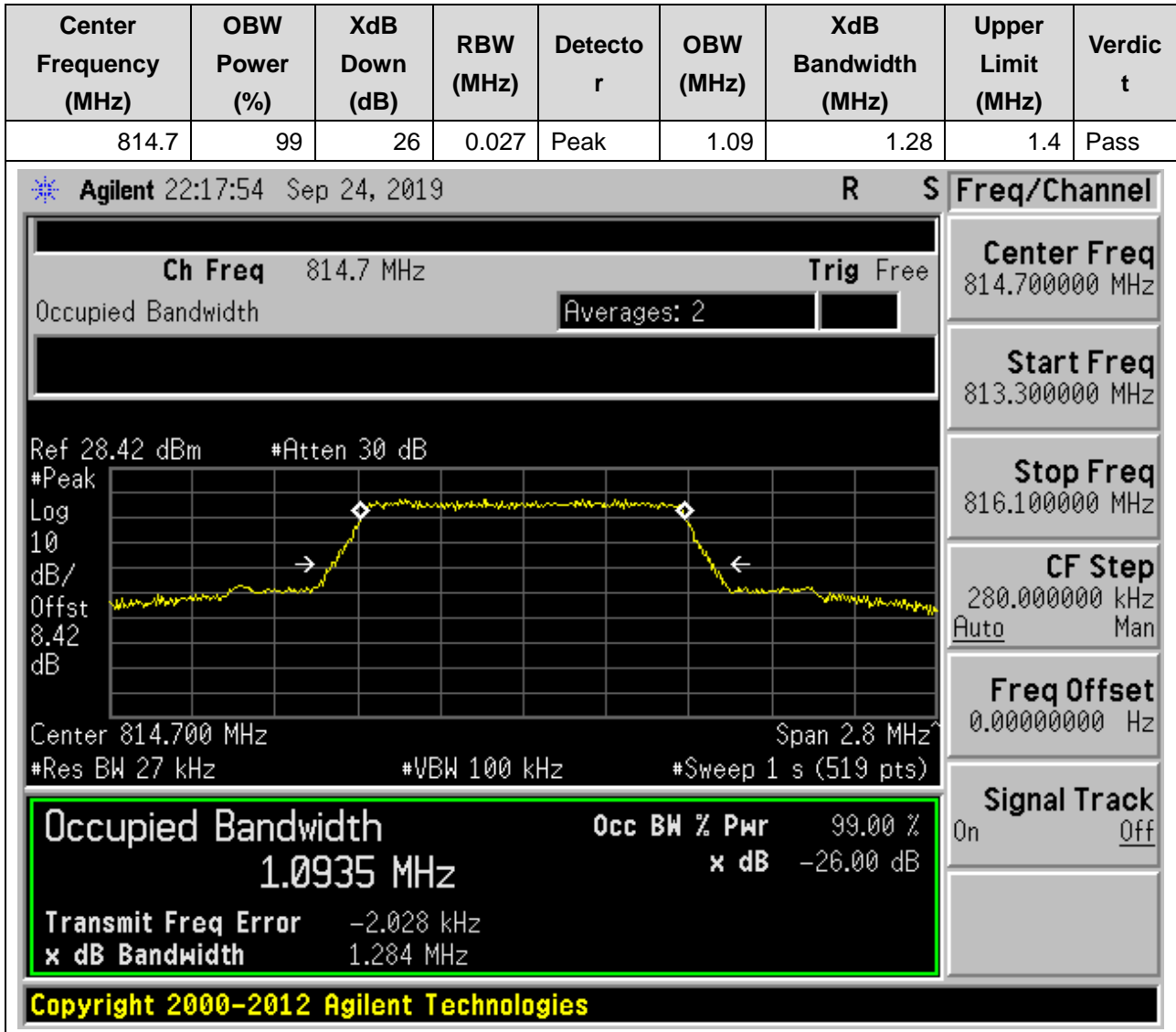


## 15. LTE\_Band26(part90)

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

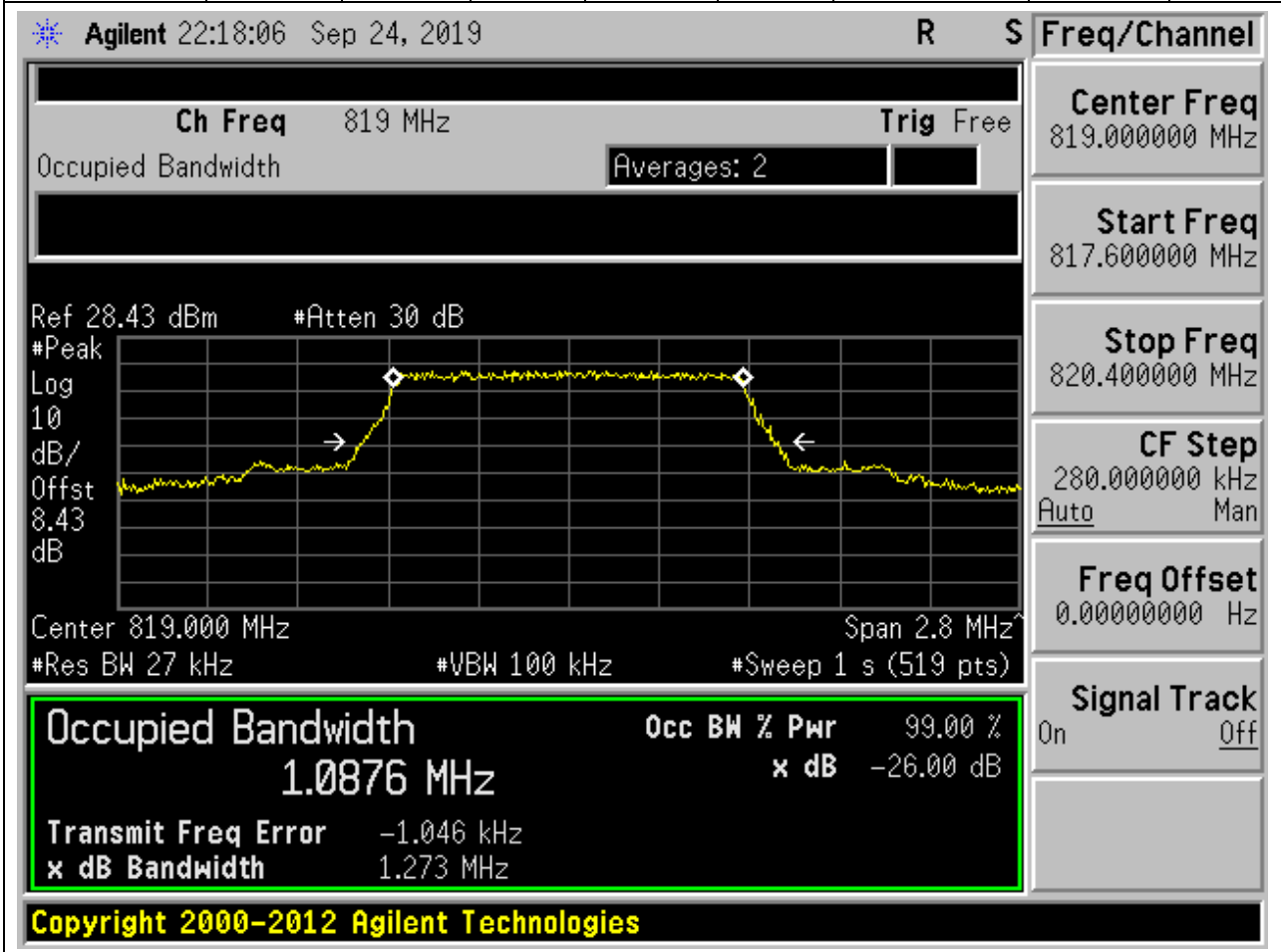


**15.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:26697, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

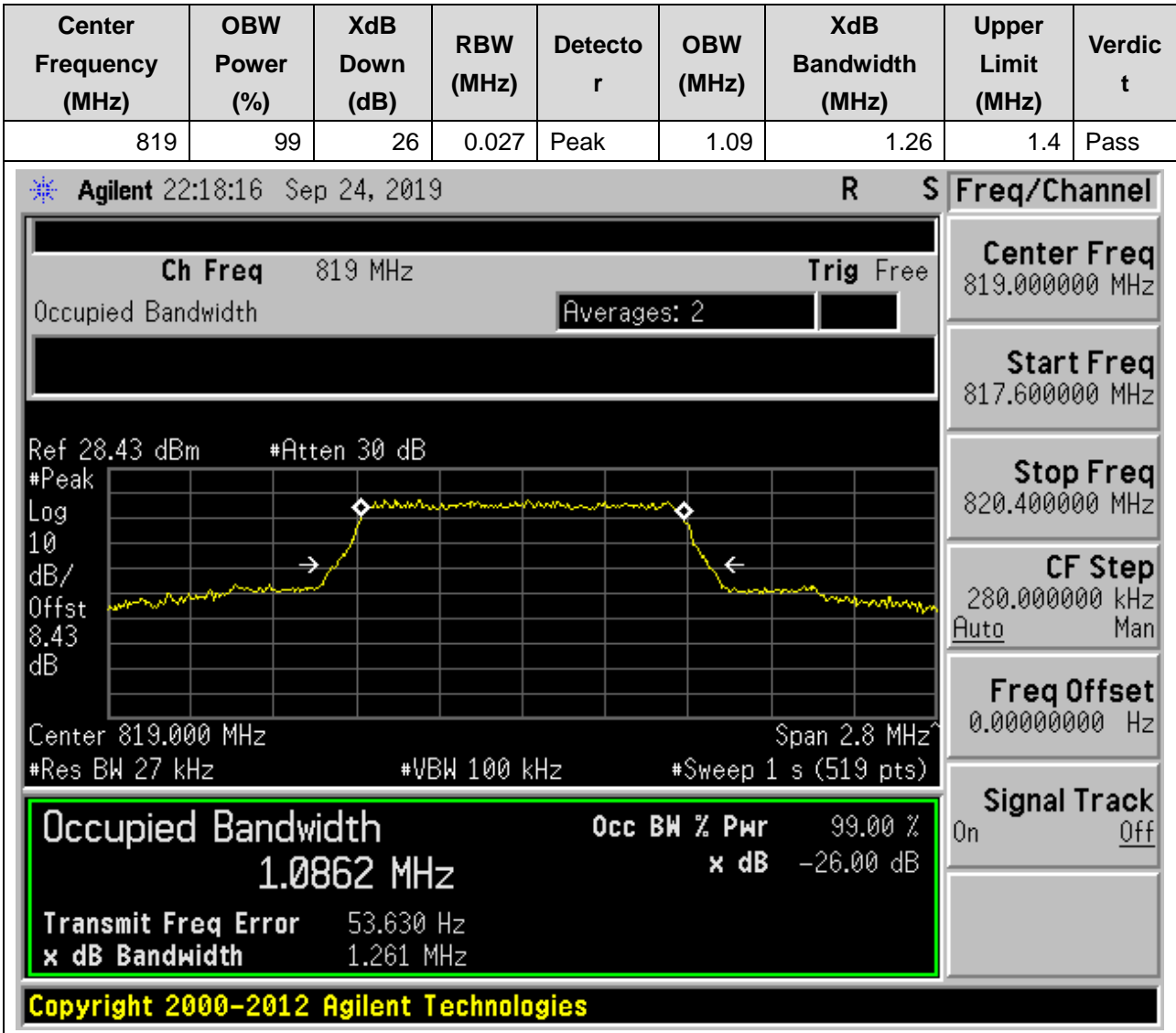


**15.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:26740, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
819	99	26	0.027	Peak	1.09	1.27	1.4	Pass



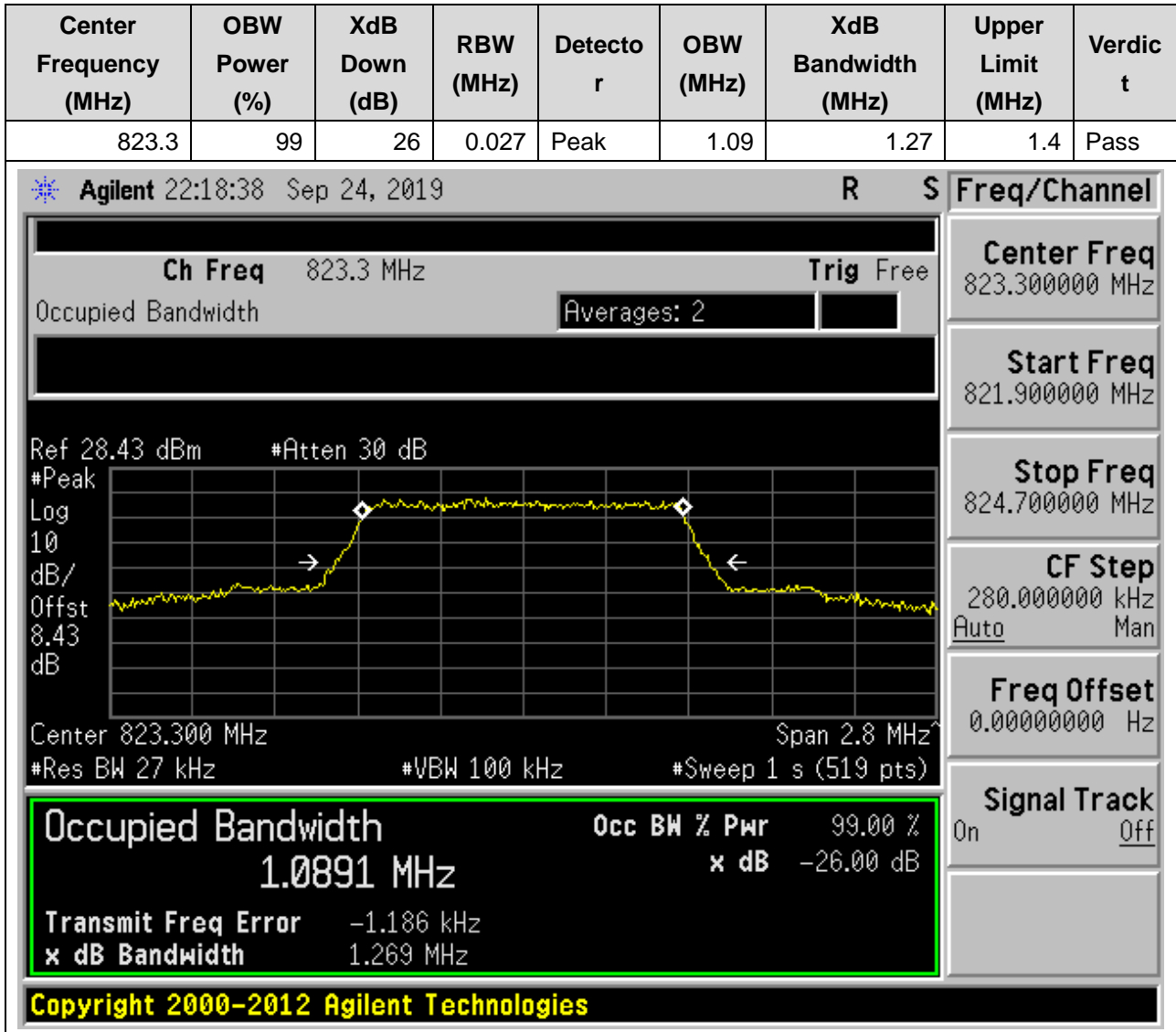
**15.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:26740, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



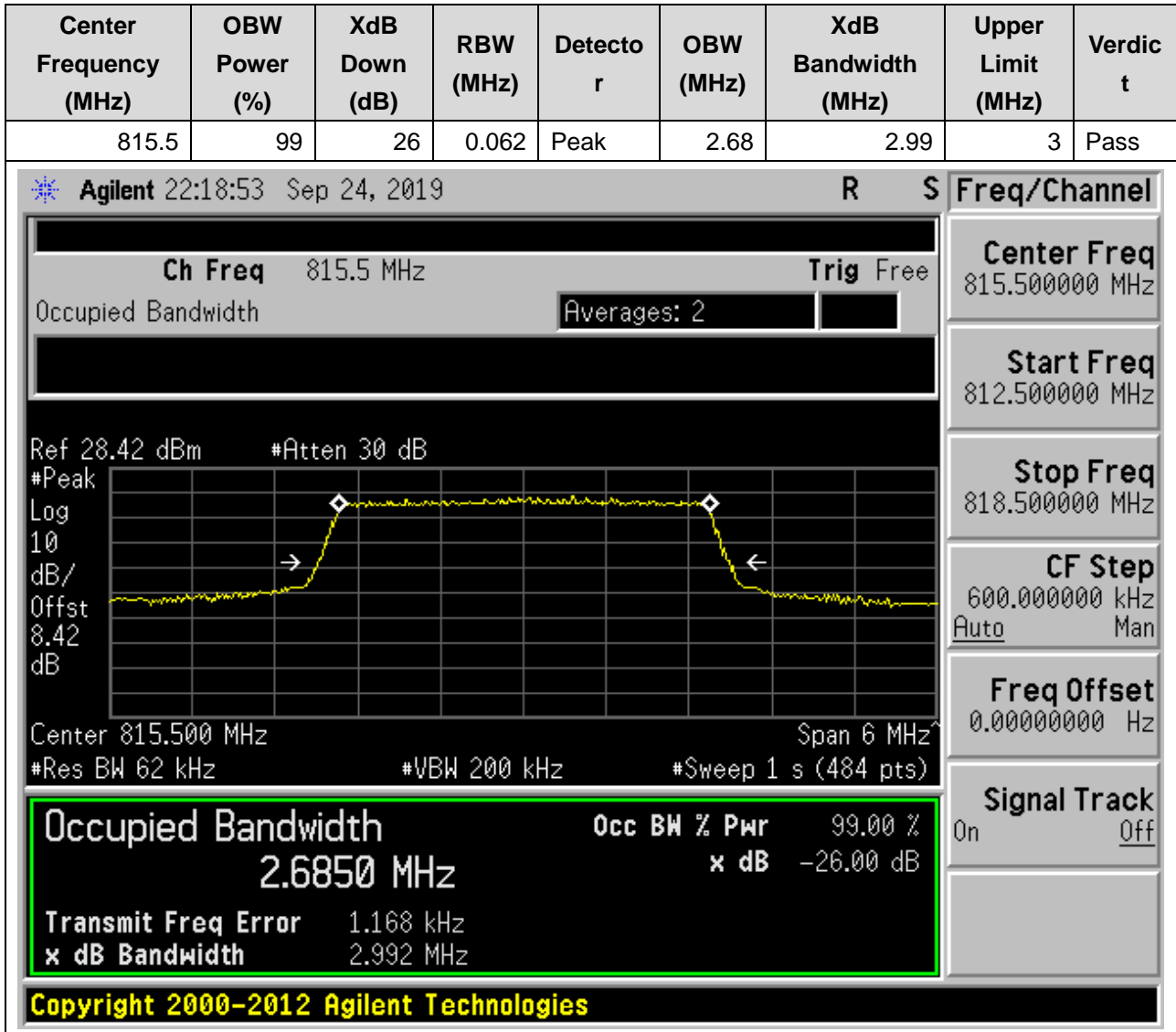
**15.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:26783, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



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



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



**15.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:26705, 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
815.5	99	26	0.062	Peak	2.69	2.97	3	Pass

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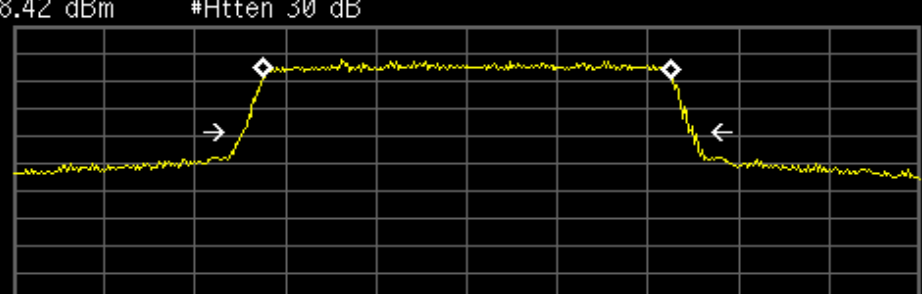
**Ch Freq** 815.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 28.42 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.42 dB



Center 815.500 MHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (484 pts)

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

**2.6902 MHz** **x dB** -26.00 dB

**Transmit Freq Error** 1.931 kHz

**x dB Bandwidth** 2.971 MHz

**Freq/Channel**

**Center Freq** 815.500000 MHz

**Start Freq** 812.500000 MHz

**Stop Freq** 818.500000 MHz

**CF Step** 600.000000 kHz Auto Man

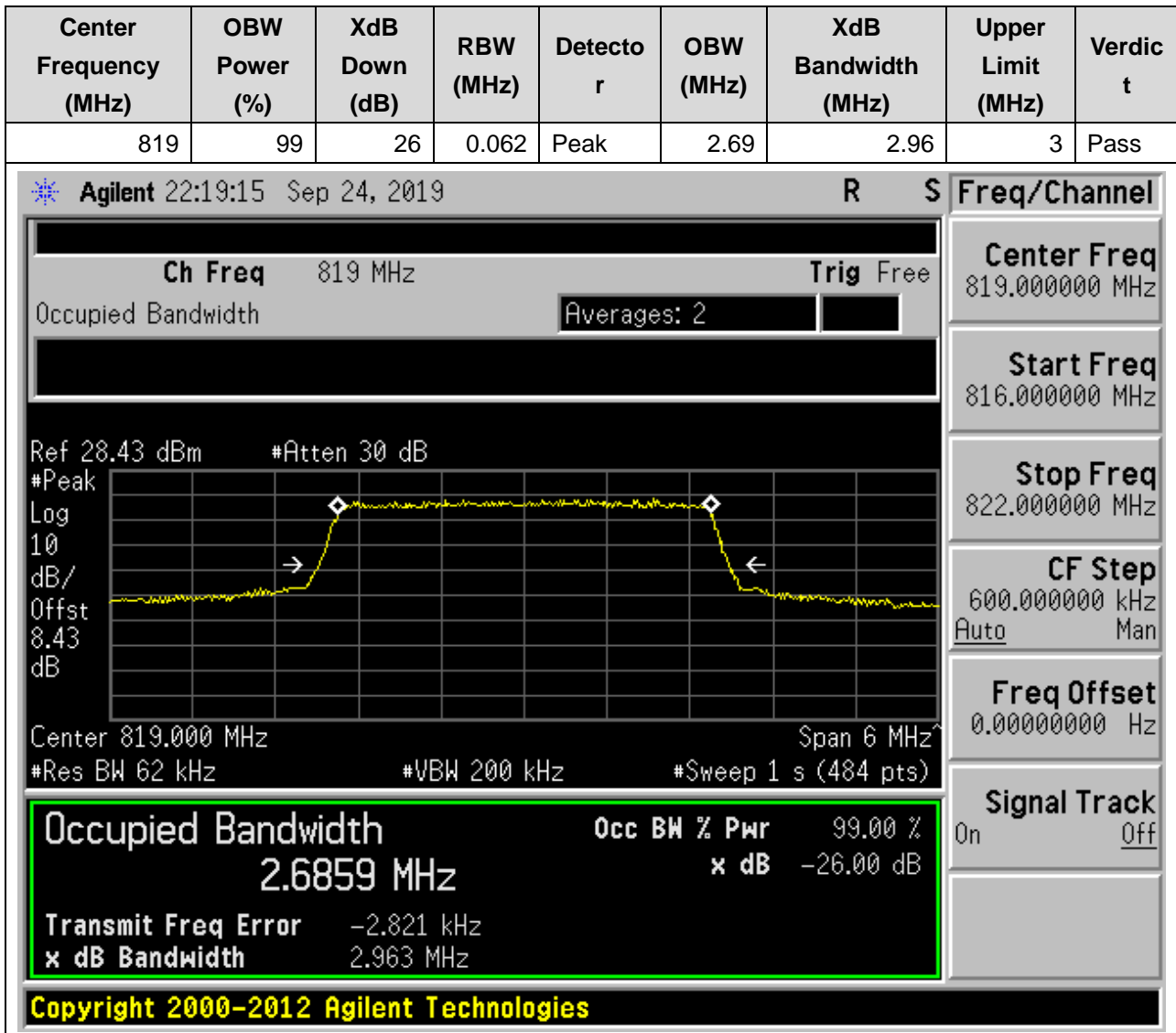
**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

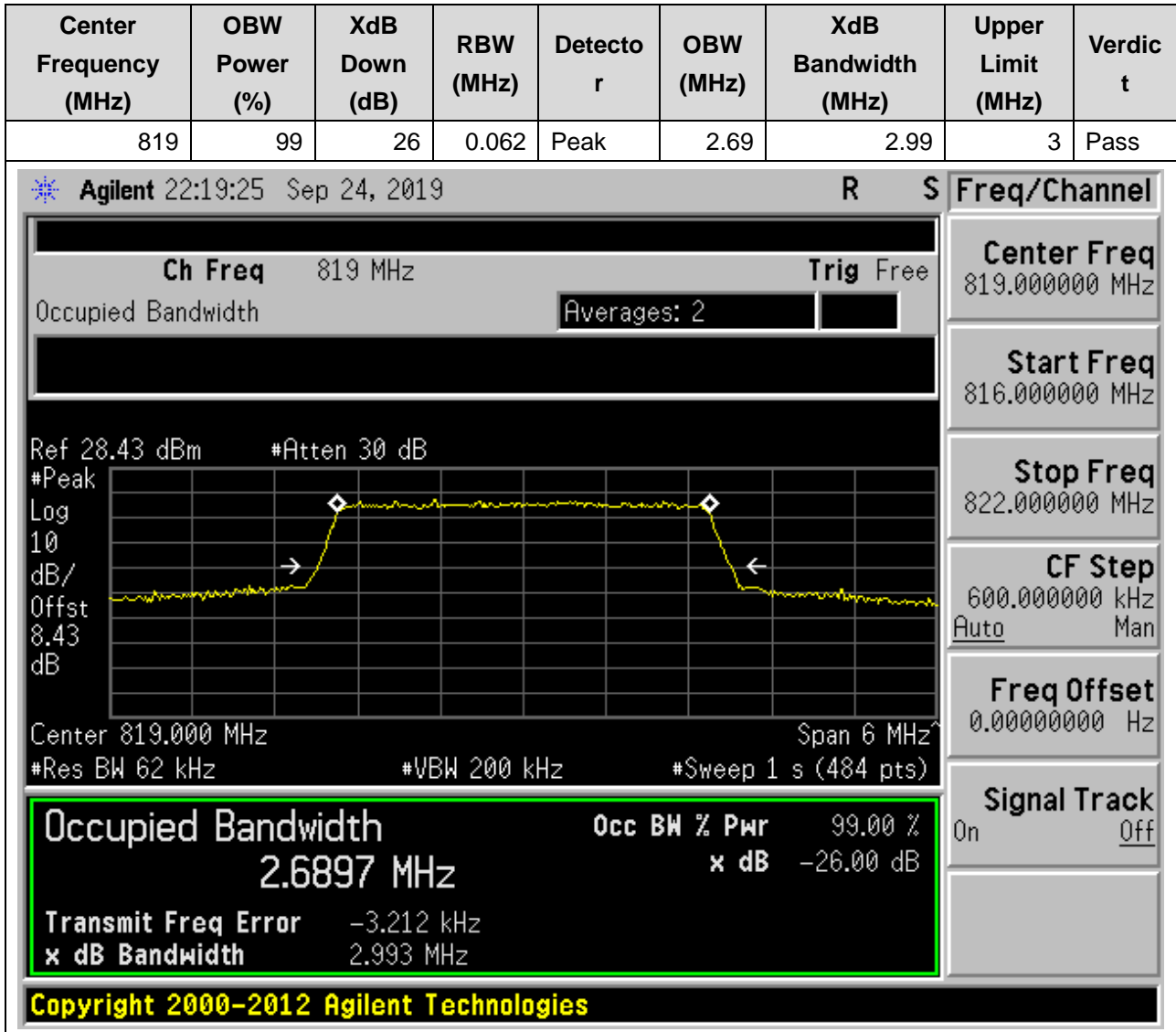
Copyright 2000-2012 Agilent Technologies



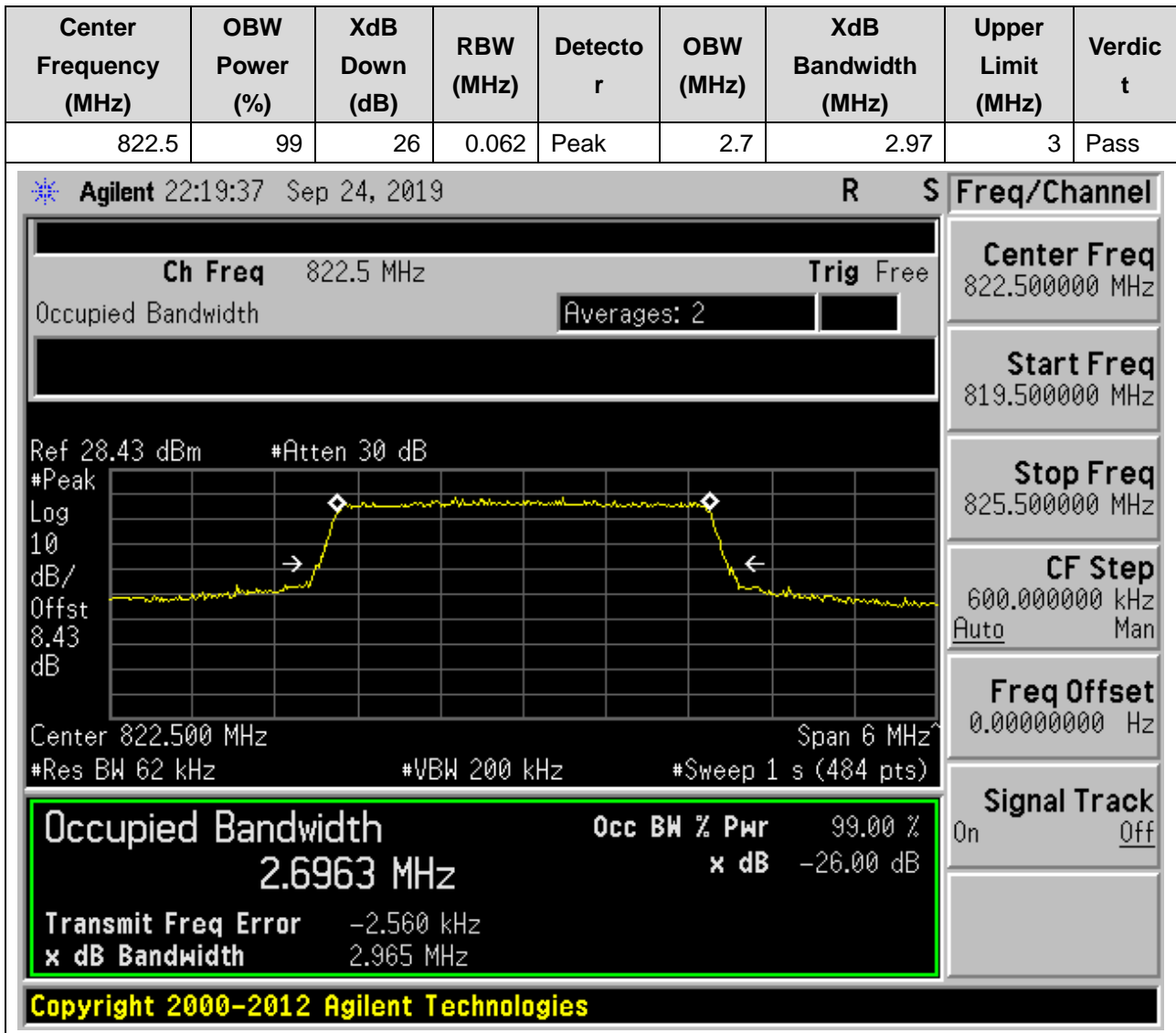
**15.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:26740, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



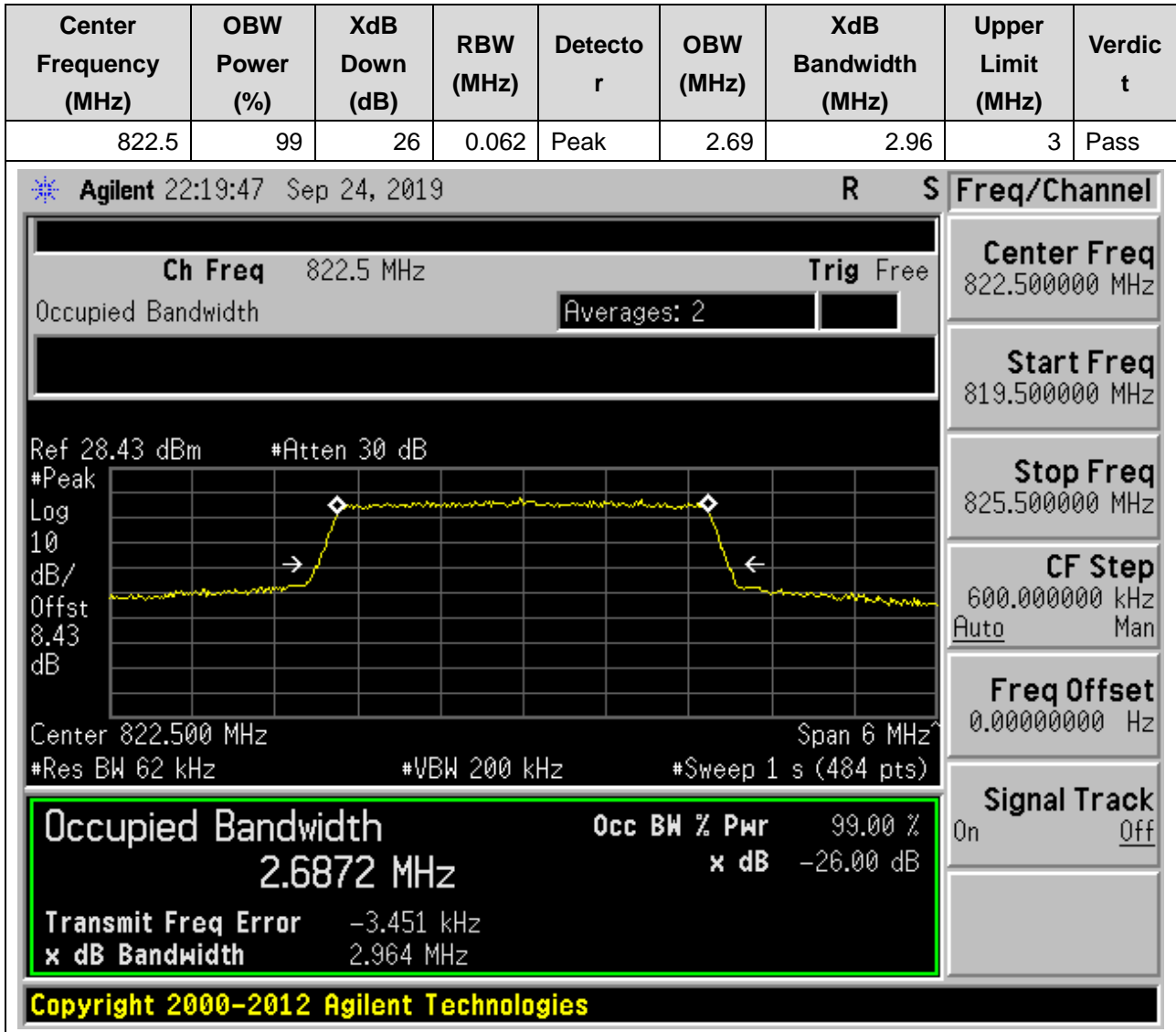
**15.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:26740, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



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



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



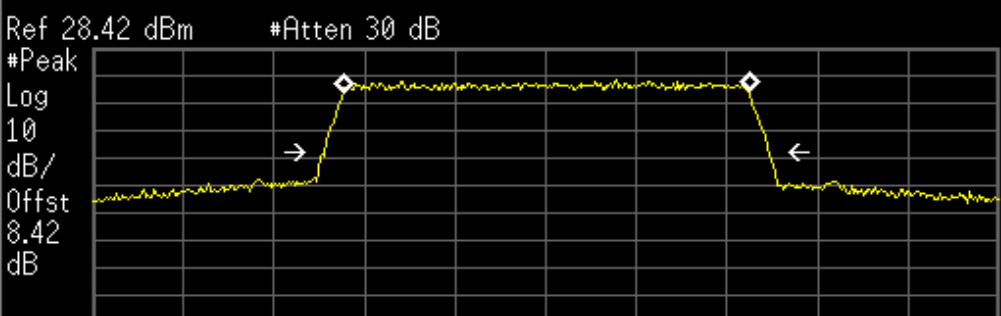
**15.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:26715, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
816.5	99	26	0.1	Peak	4.5	4.89	5	Pass

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**Ch Freq** 816.5 MHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 28.42 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.42 dB

Center 816.500 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
4.4984 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	2.367 kHz	
<b>x dB Bandwidth</b>	4.892 MHz	

**Freq/Channel**

**Center Freq**  
816.500000 MHz

**Start Freq**  
811.500000 MHz

**Stop Freq**  
821.500000 MHz

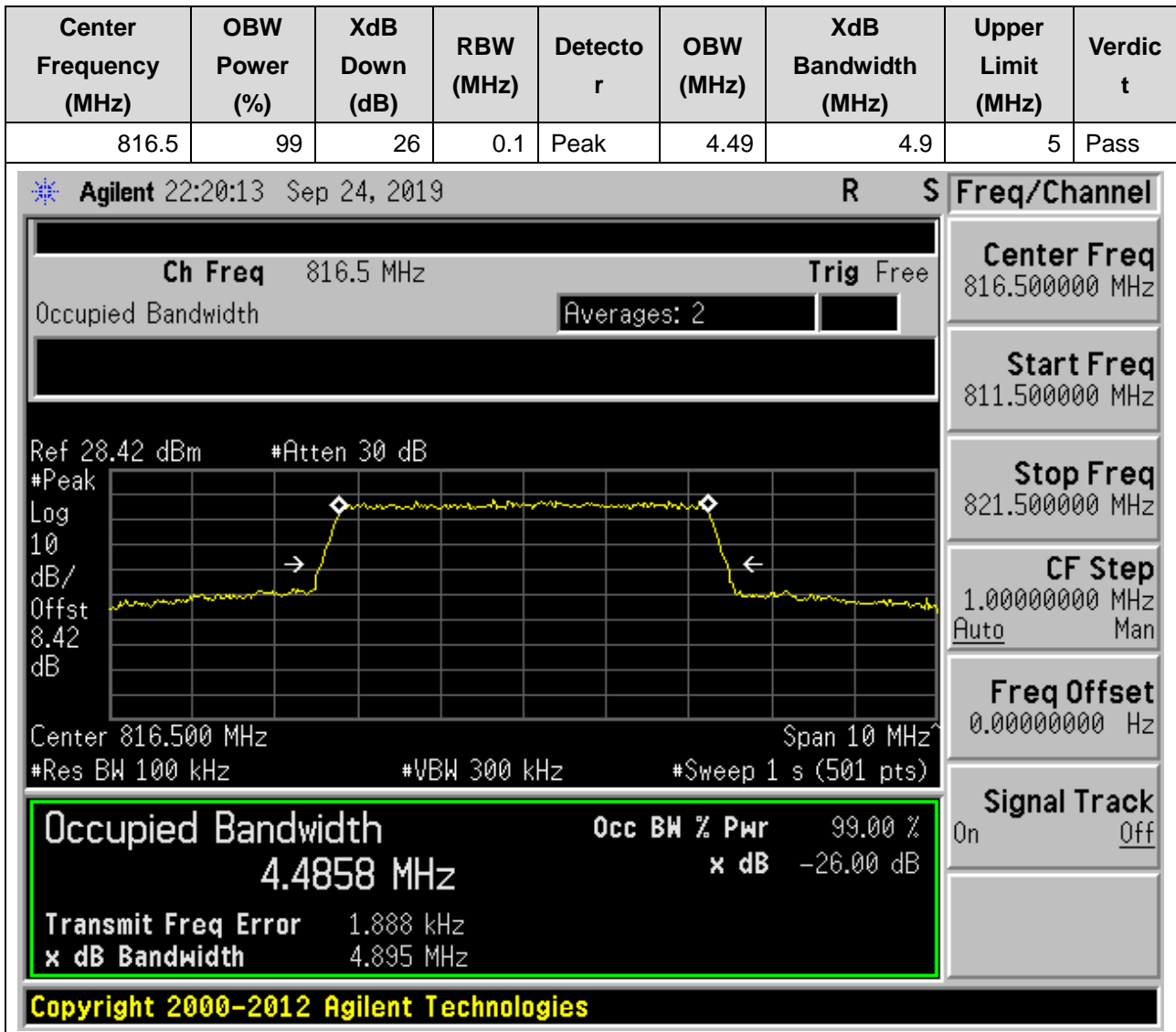
**CF Step**  
1.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

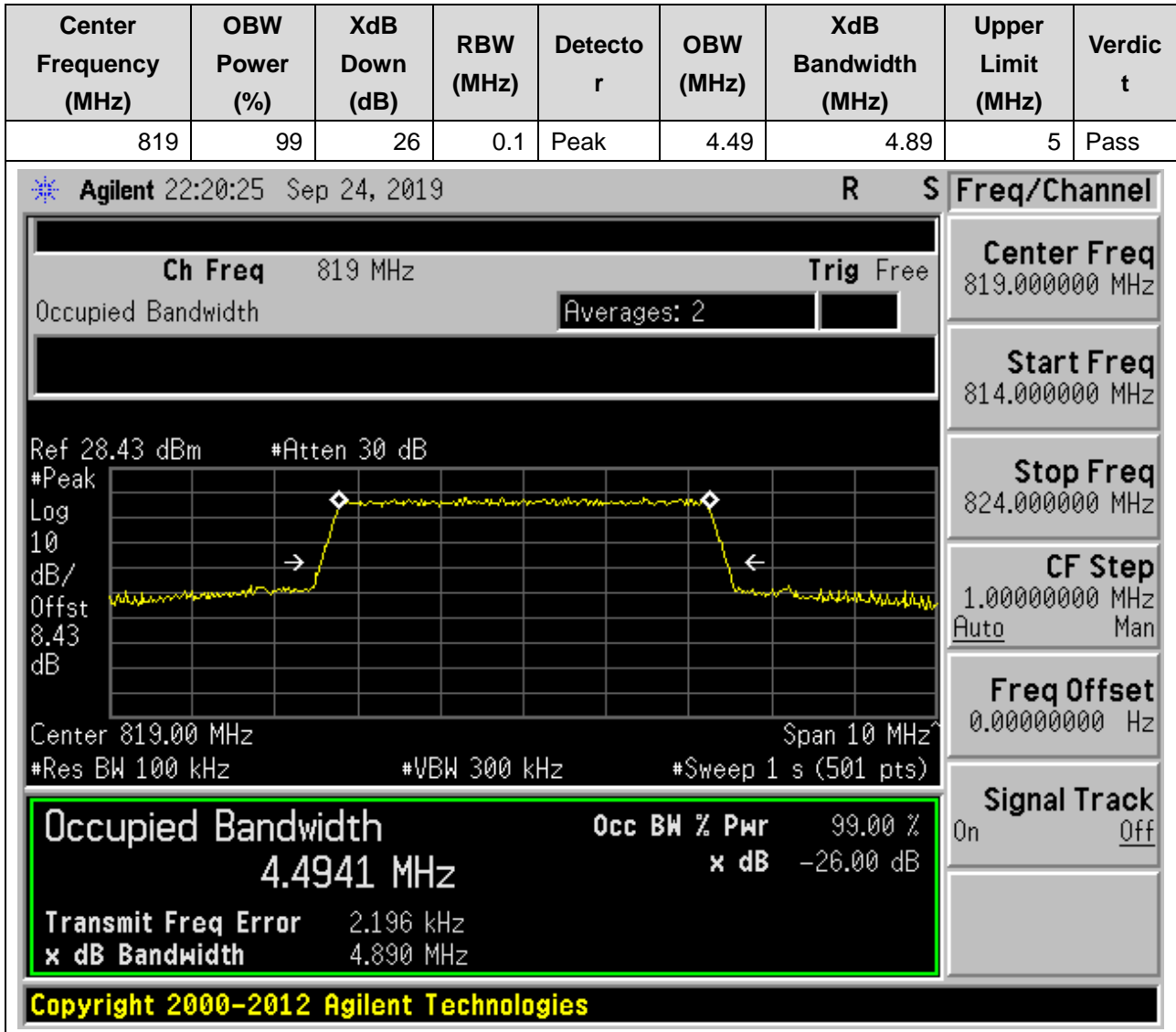
**Signal Track**  
On Off

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

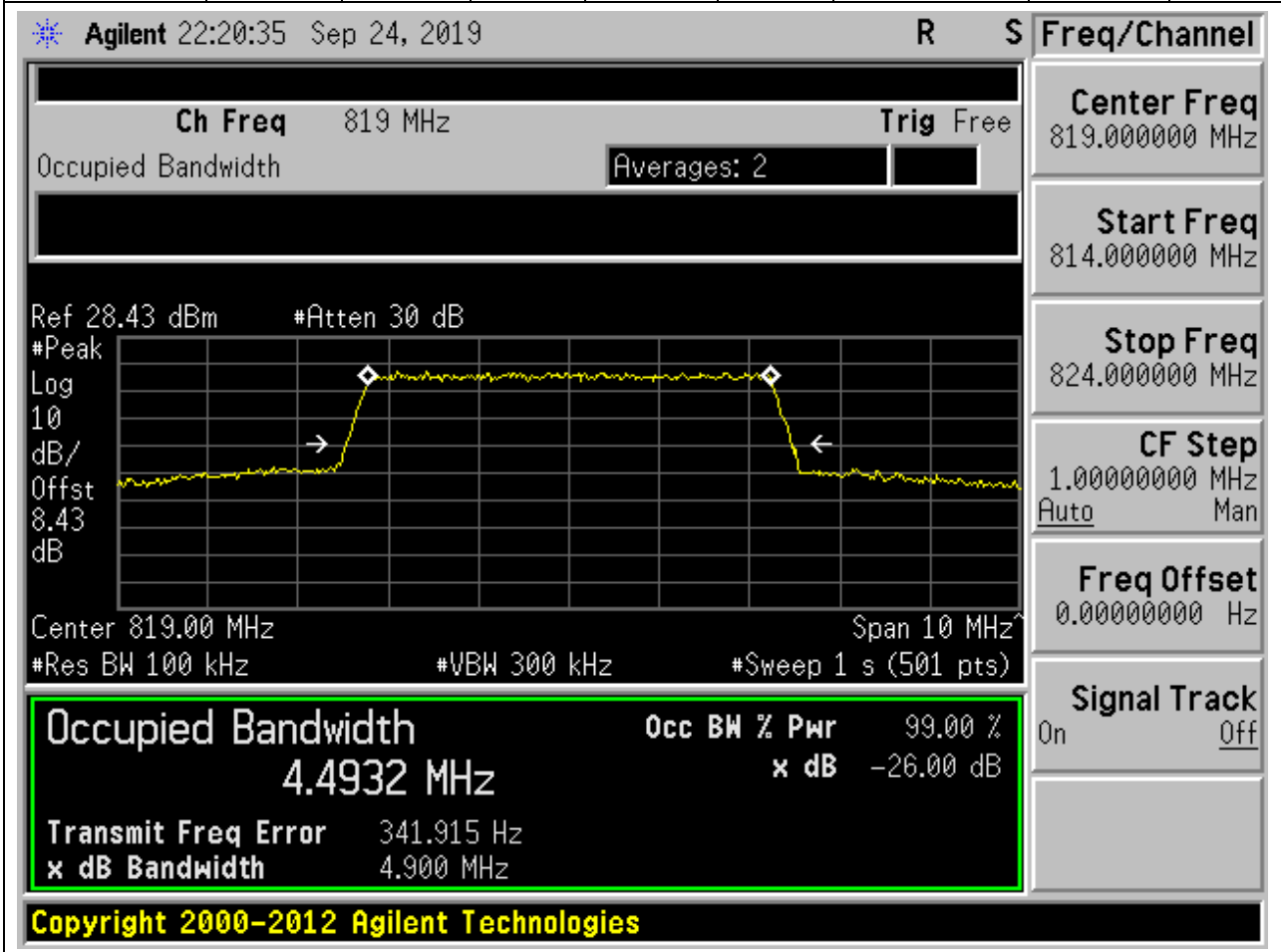


**15.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:26740, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



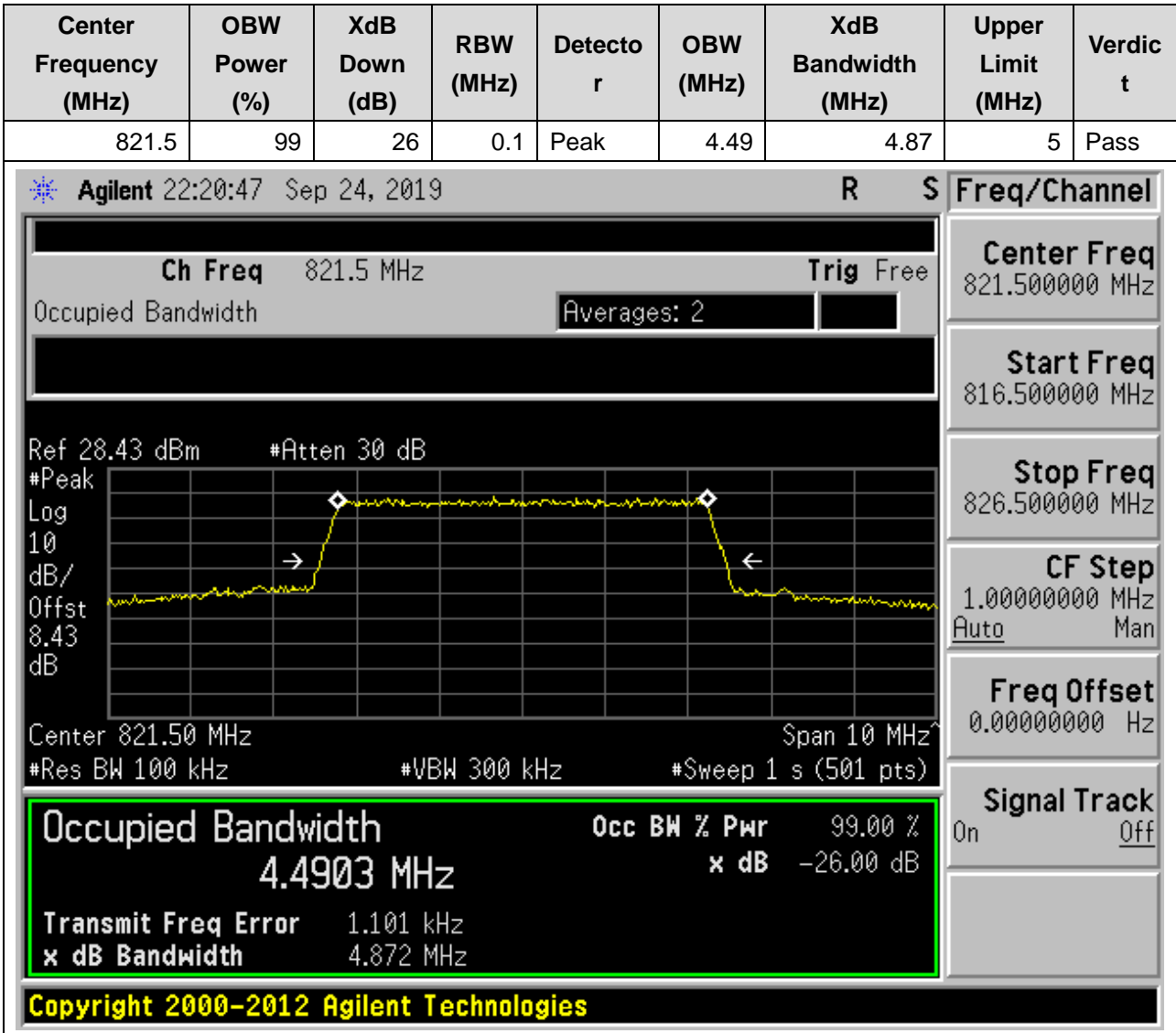
**15.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:26740, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
819	99	26	0.1	Peak	4.49	4.9	5	Pass



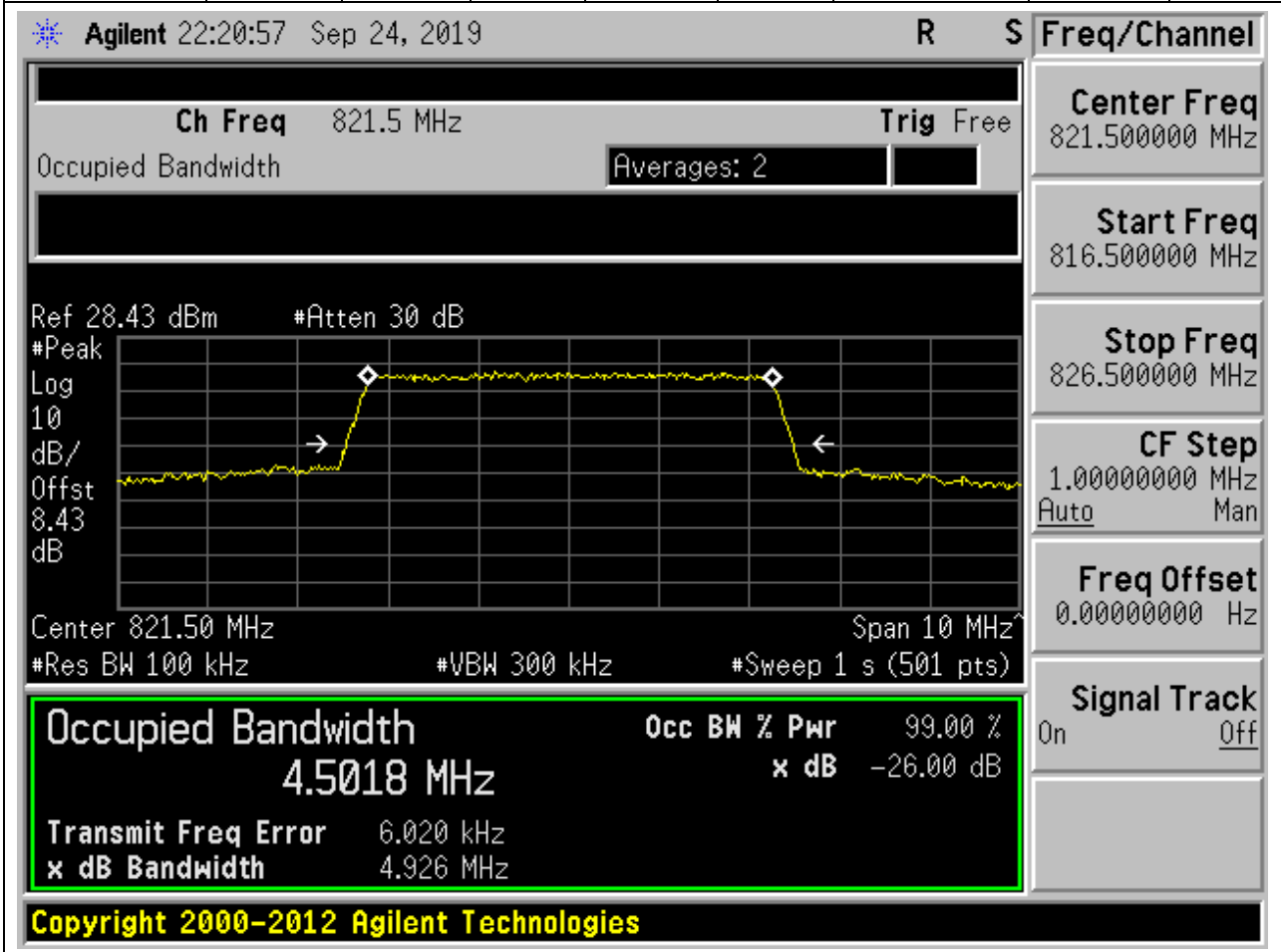


**15.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:26765, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

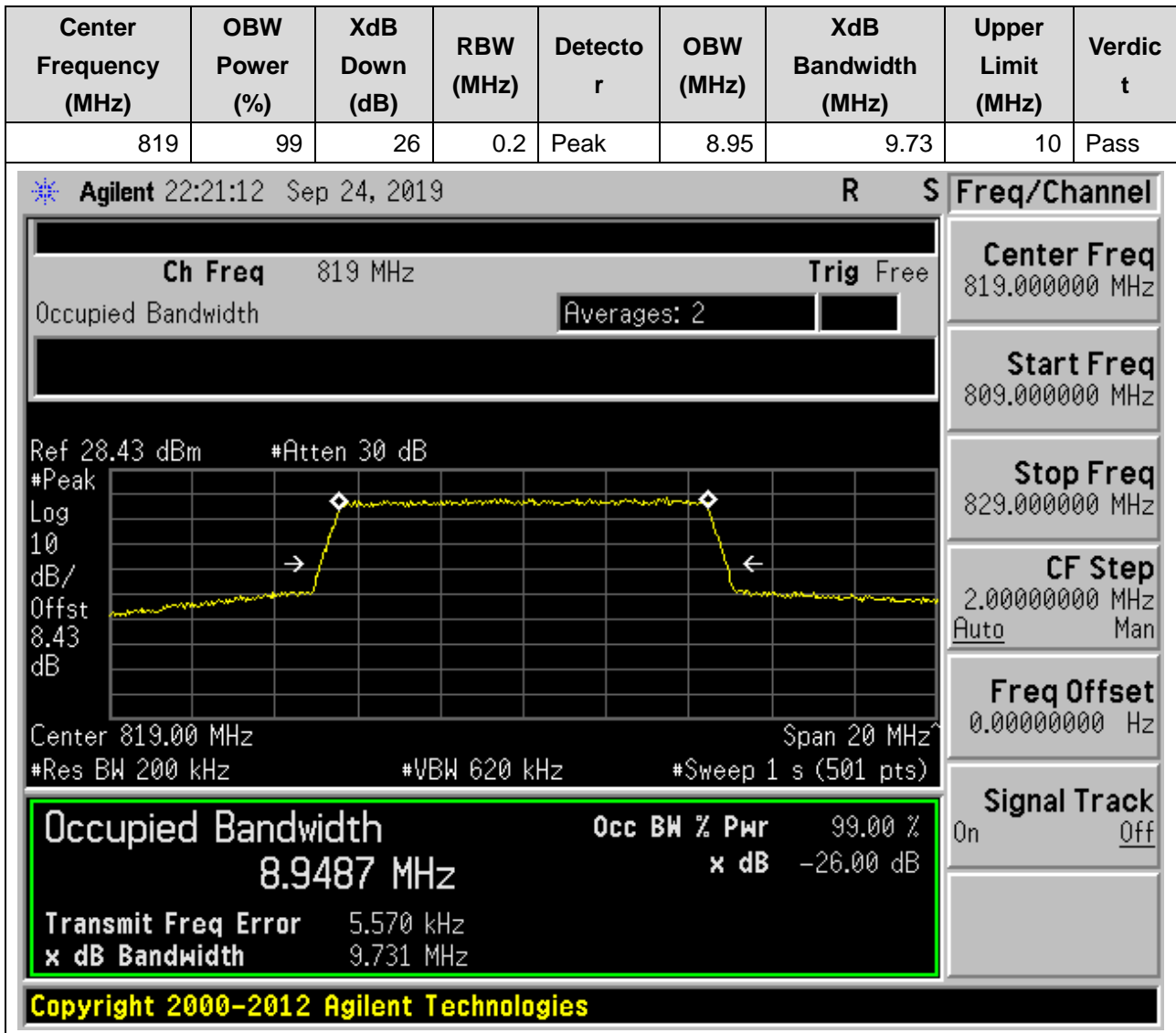


**15.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:26765, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

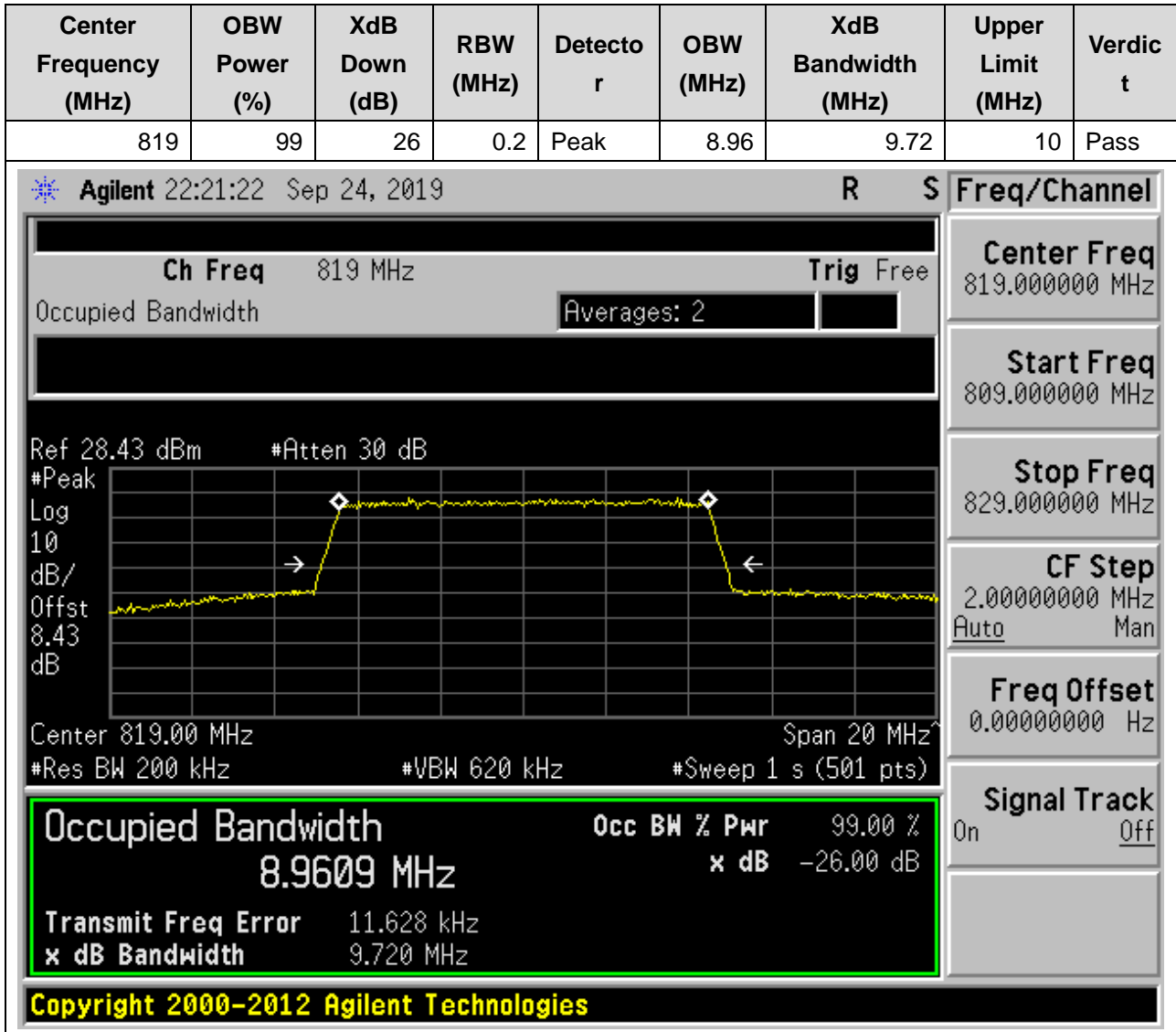
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
821.5	99	26	0.1	Peak	4.5	4.93	5	Pass



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

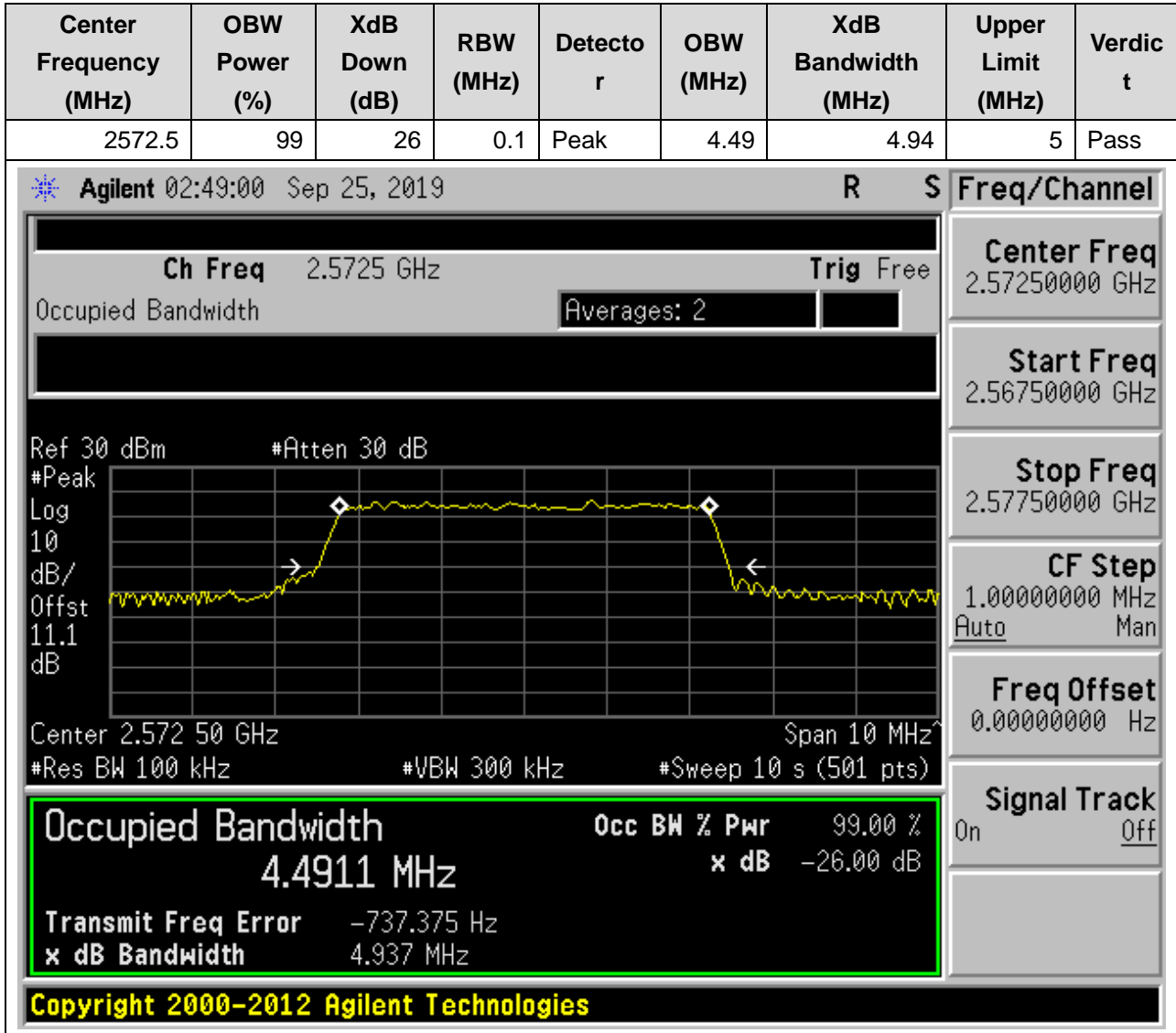


**15.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:26740, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



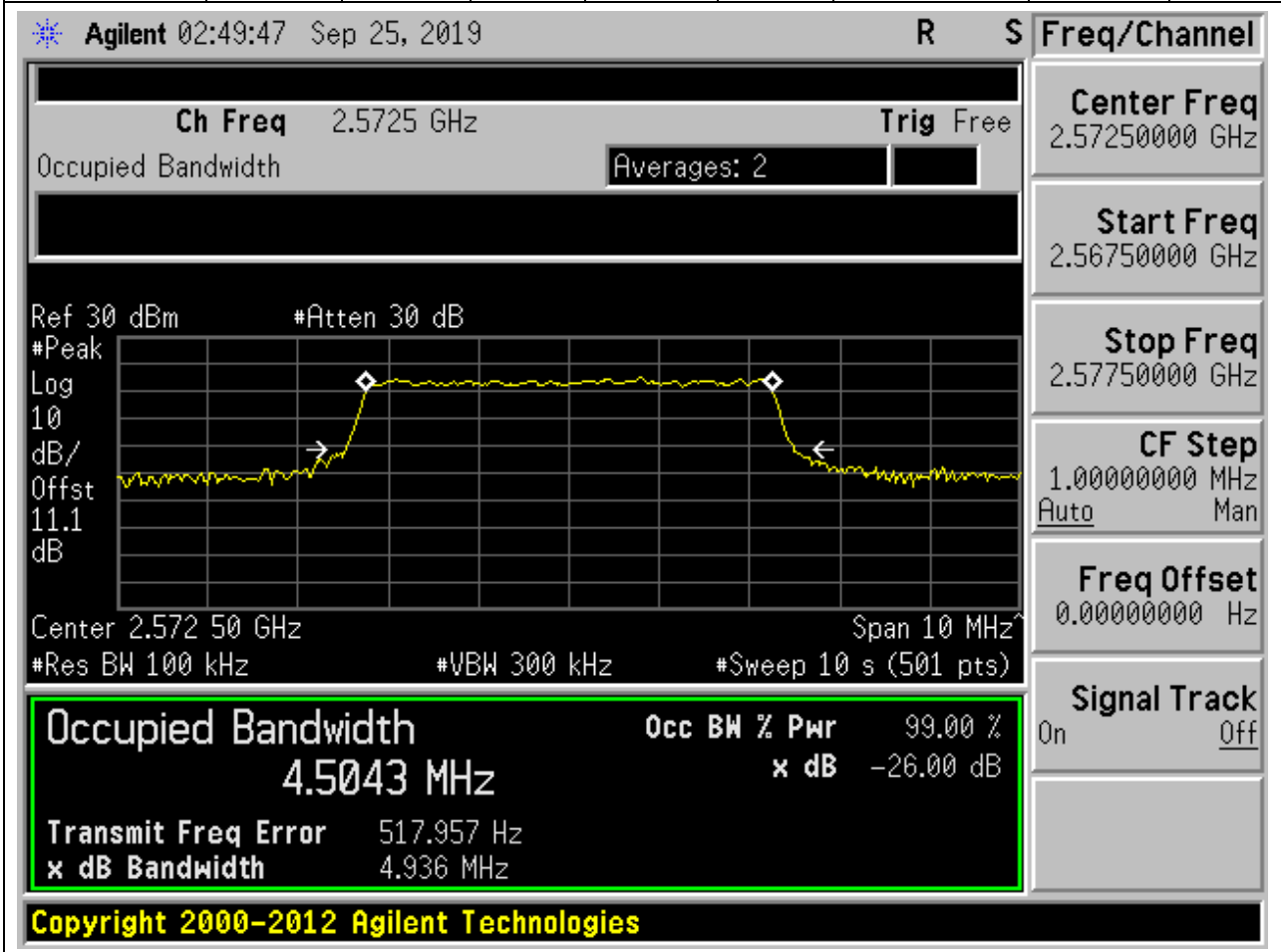
## 16. LTE\_Band38

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



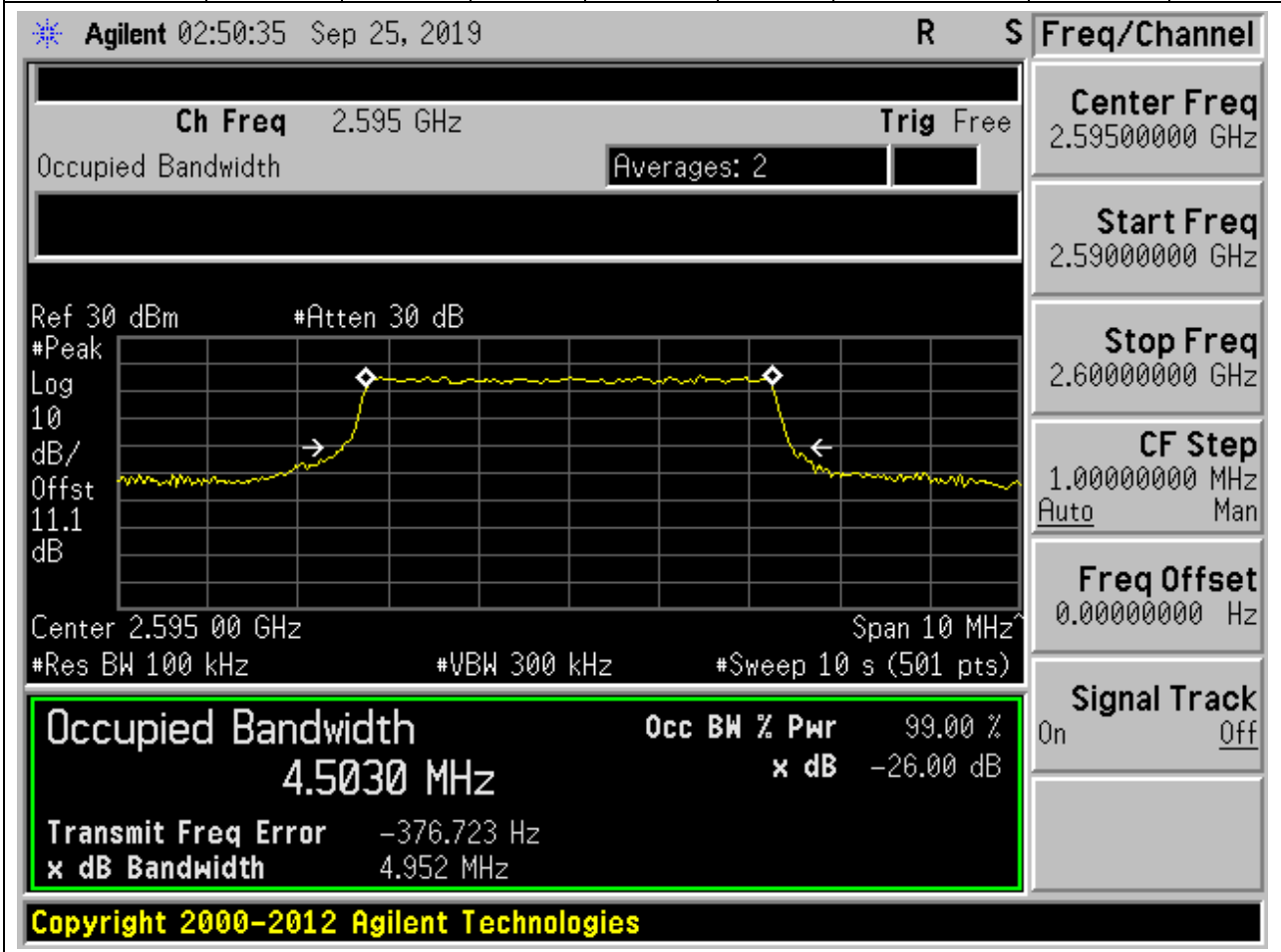
**16.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:37775, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

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	4.5	4.94	5	Pass

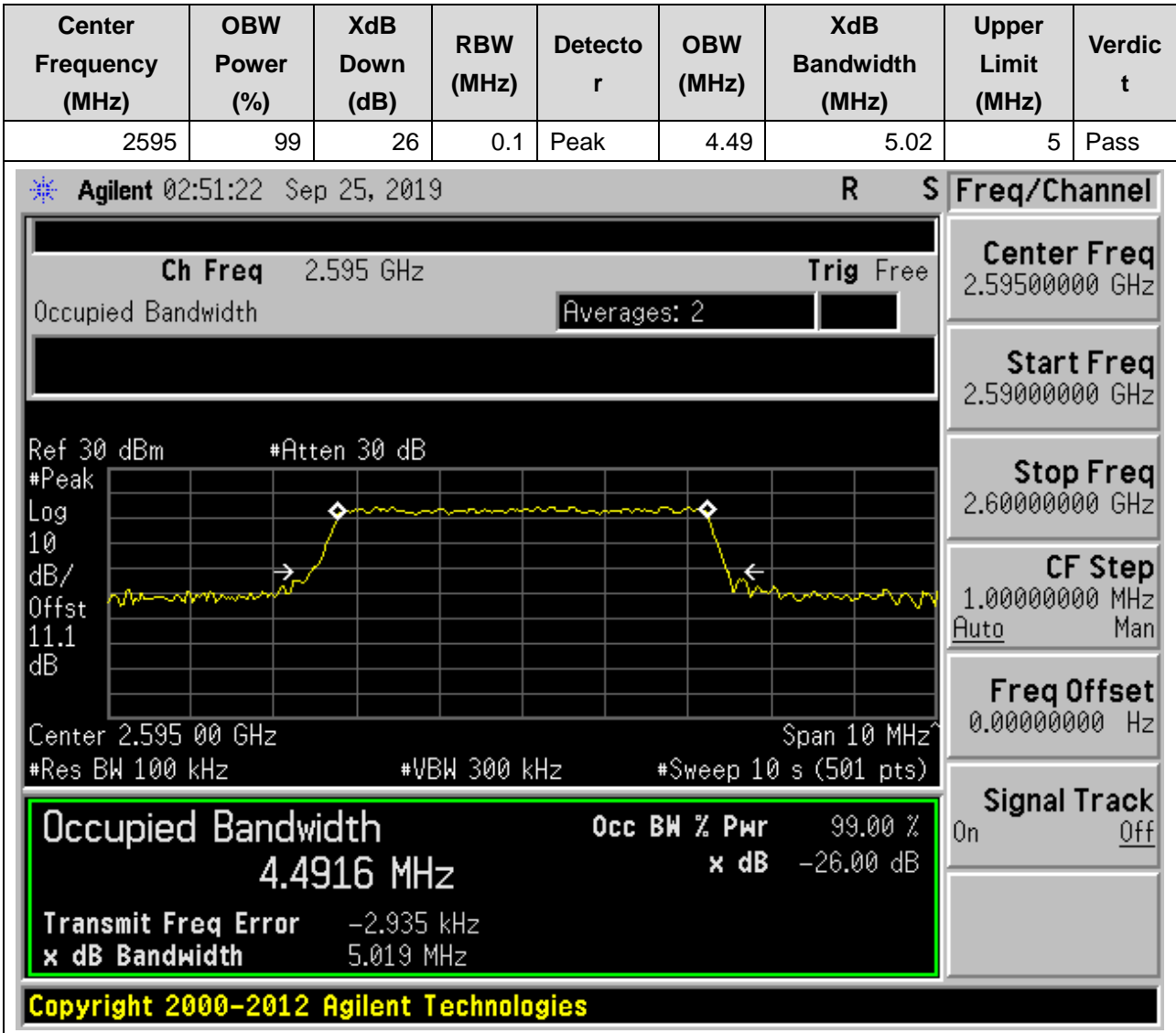


**16.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:38000, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.1	Peak	4.5	4.95	5	Pass

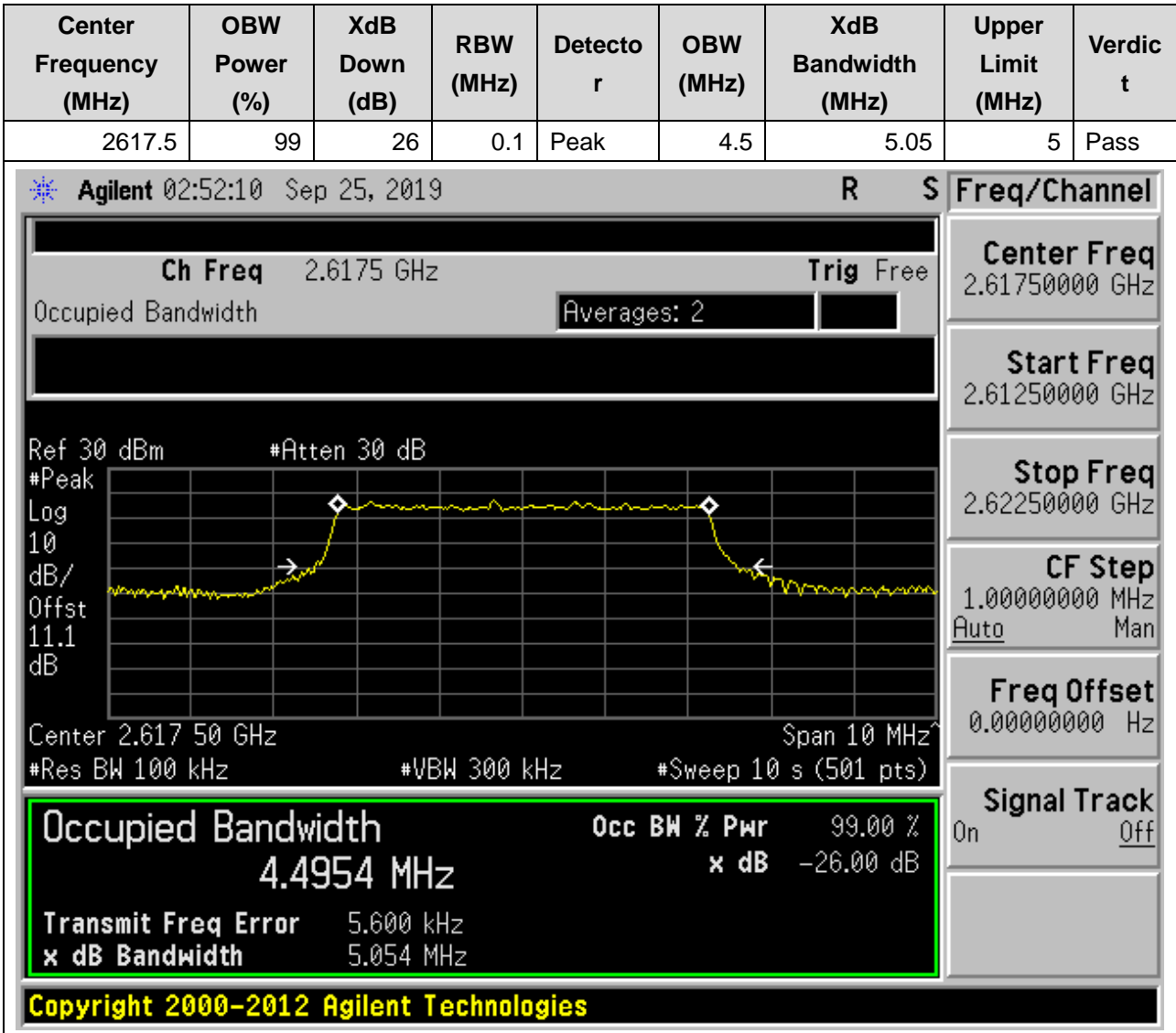


**16.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:38000, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

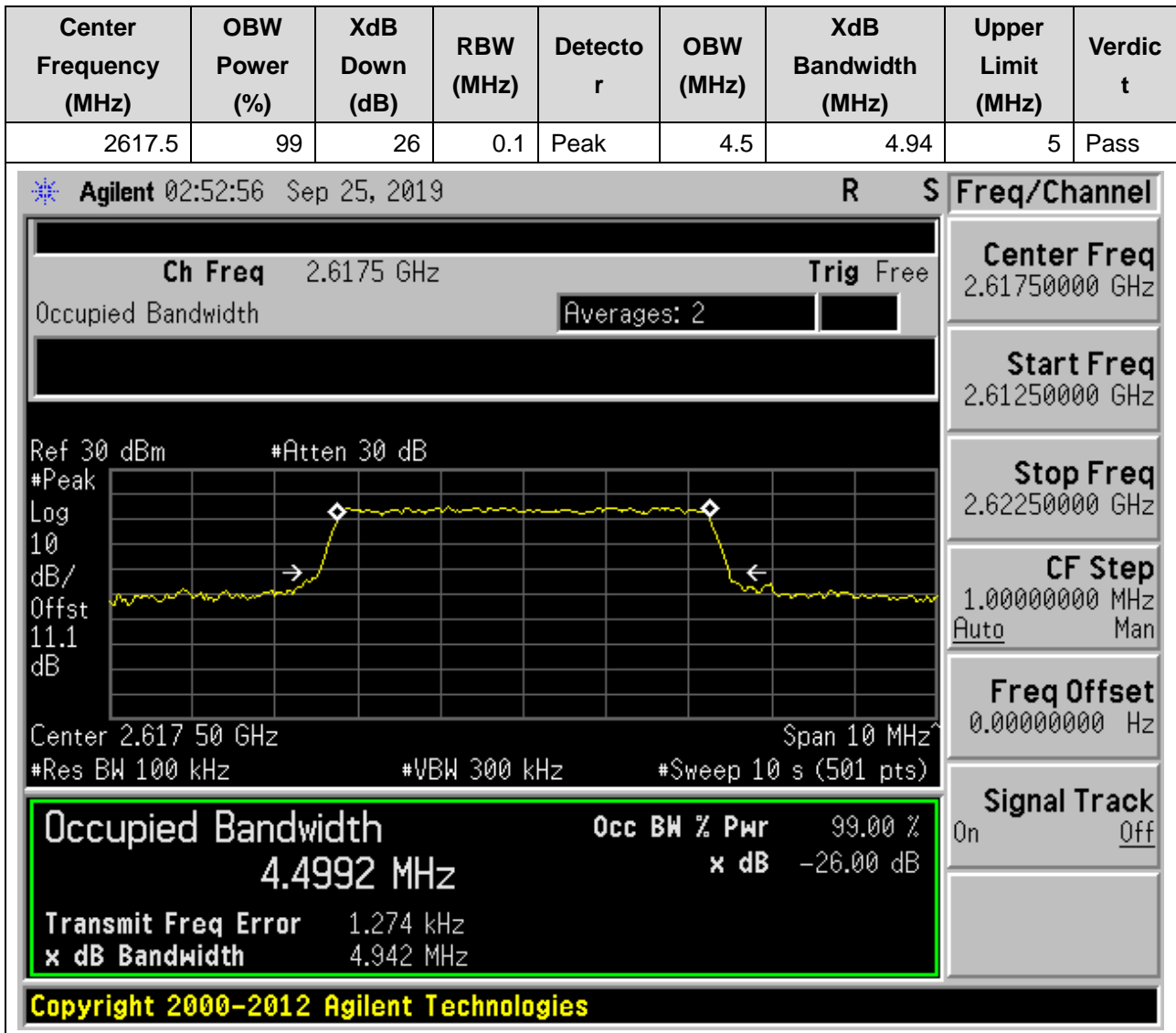




**16.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:38225, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

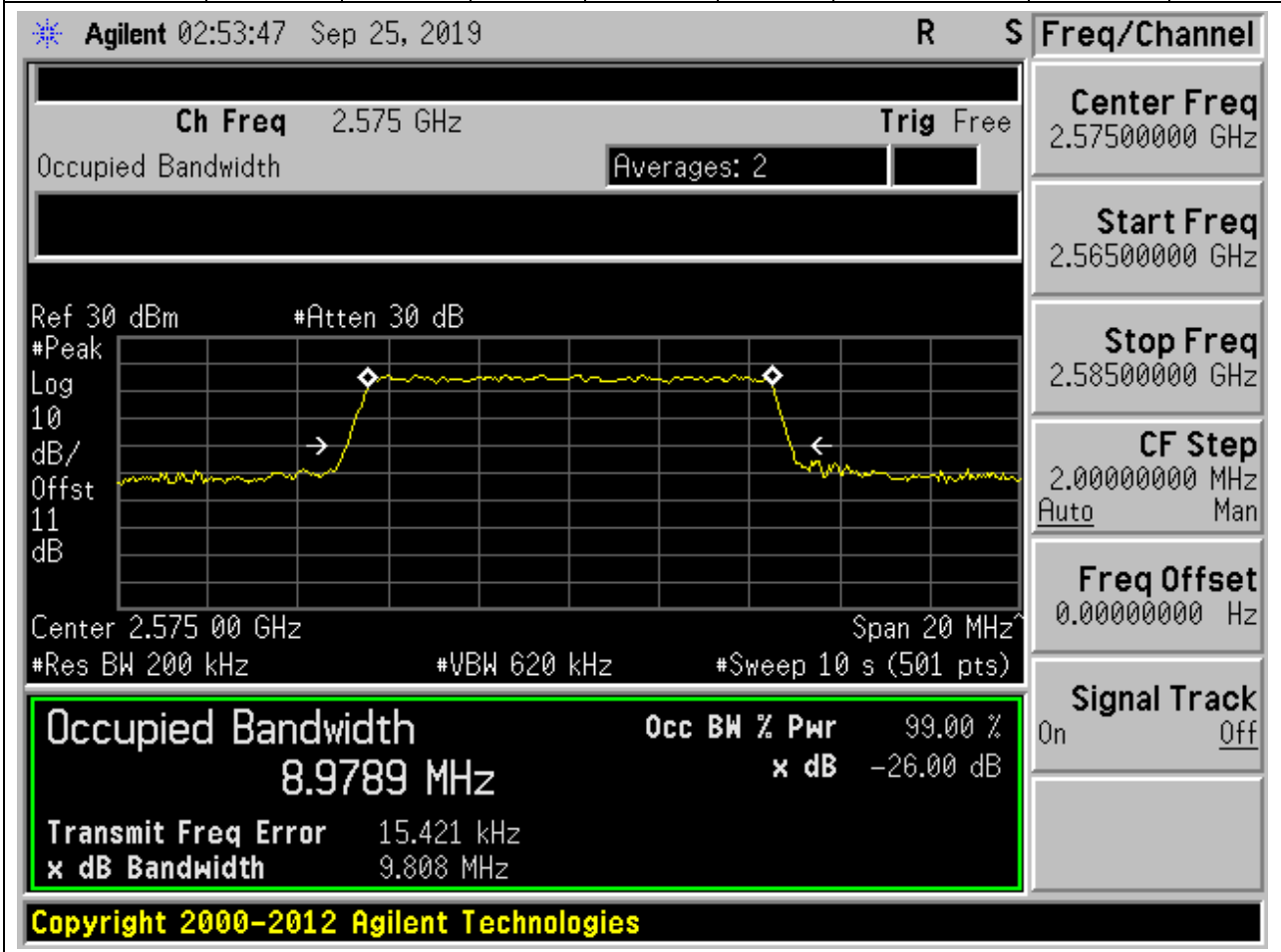


**16.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:38225, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

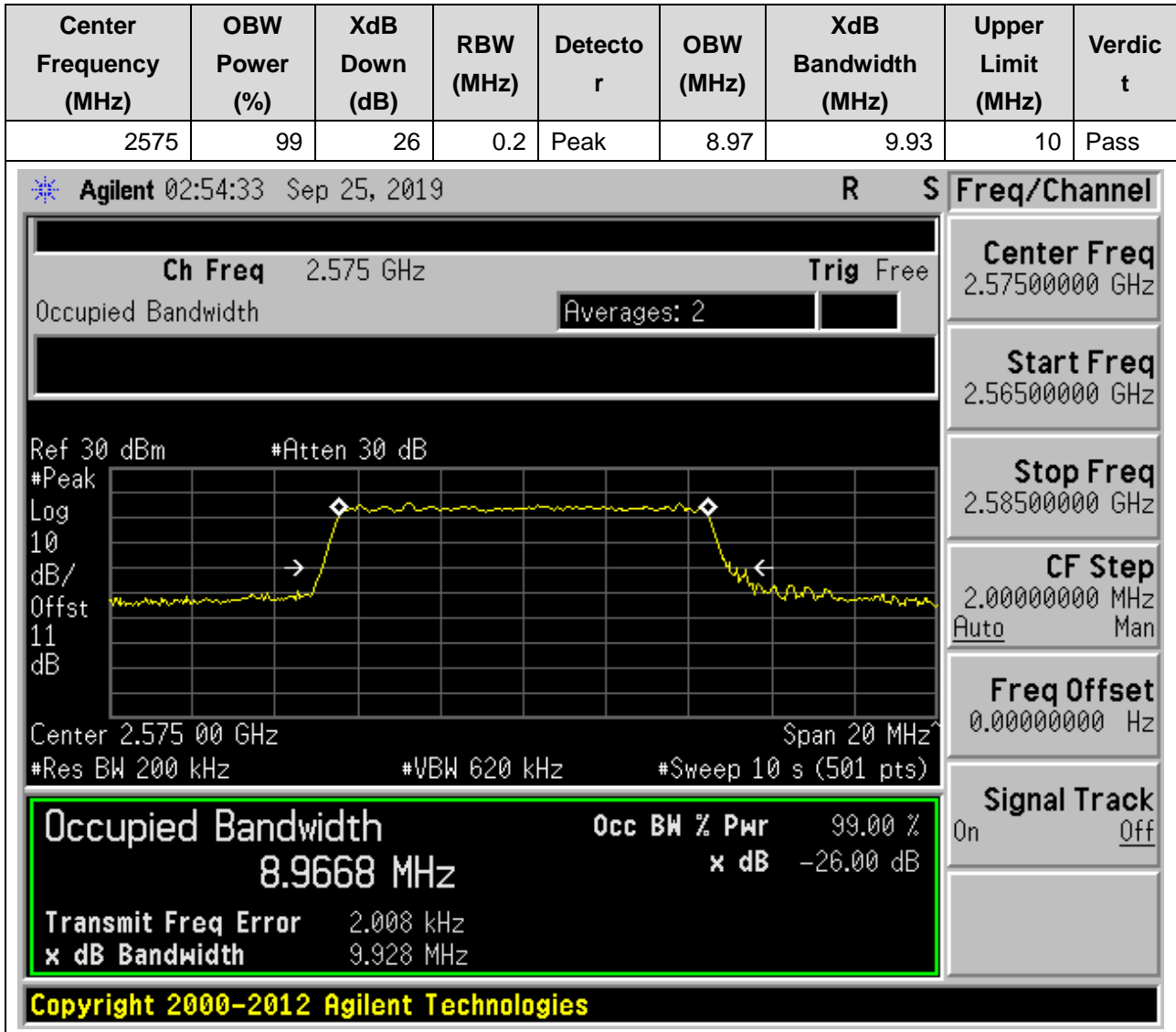


**16.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:37800, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

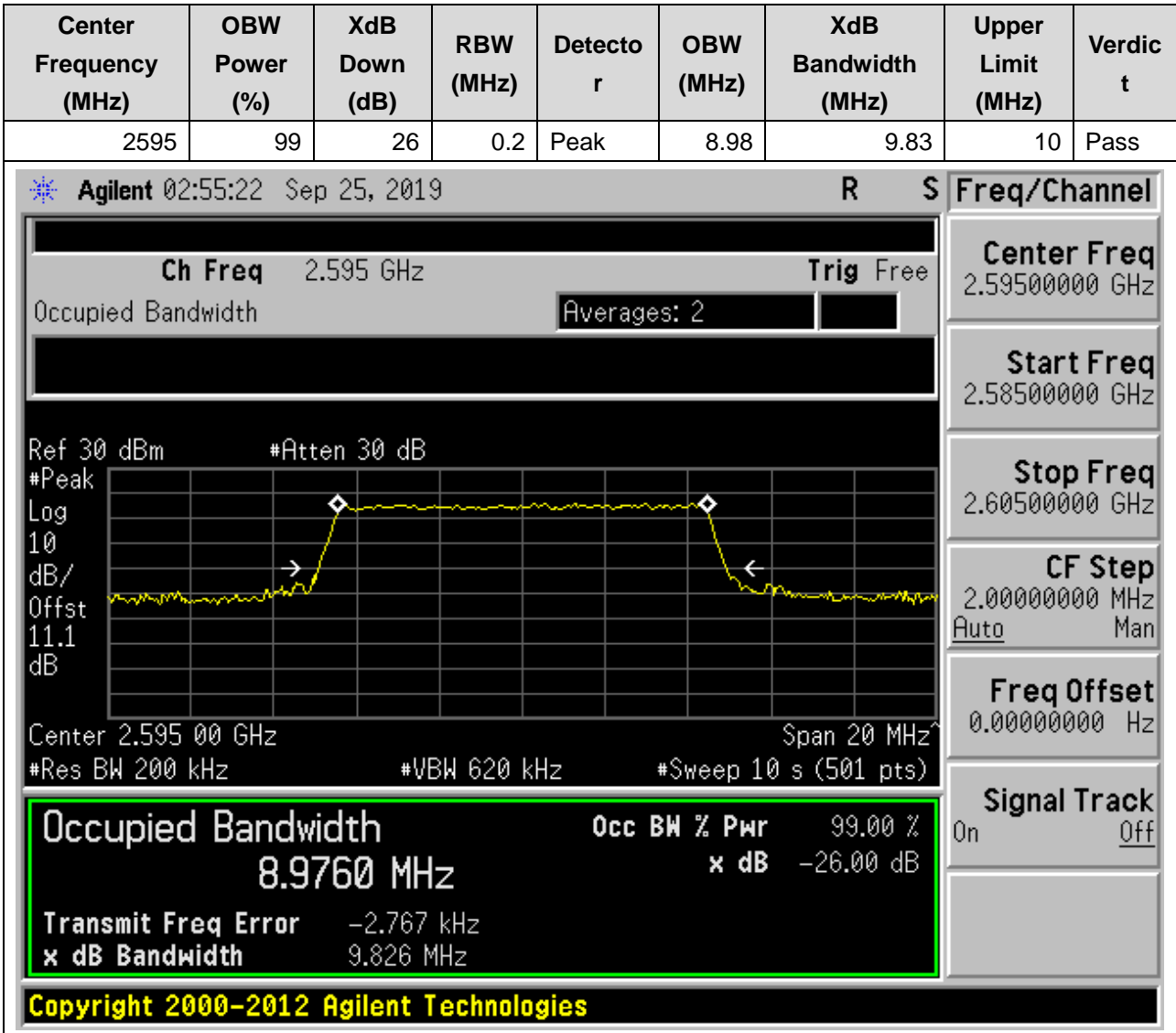
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2575	99	26	0.2	Peak	8.98	9.81	10	Pass



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

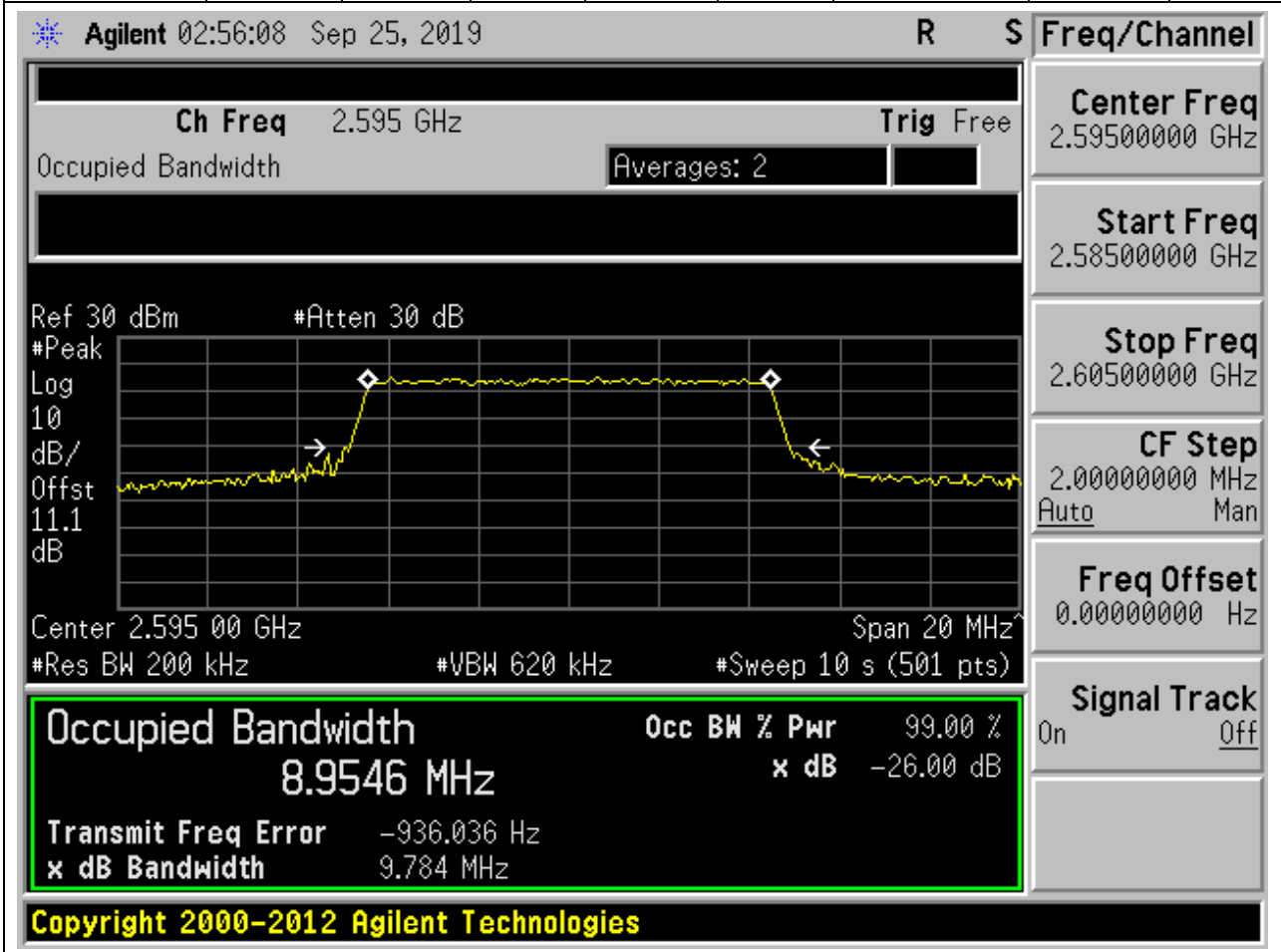


**16.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:38000, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



**16.10. 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	8.95	9.78	10	Pass



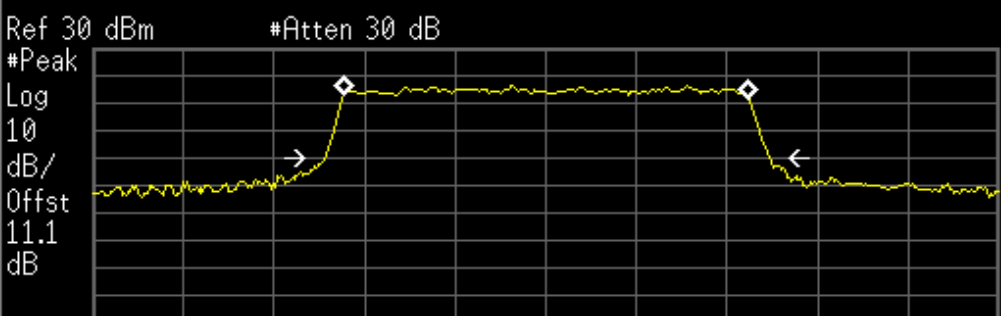
**16.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:38200, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

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	8.98	9.78	10	Pass

Agilent 02:56:57 Sep 25, 2019 R S

**Ch Freq** 2.615 GHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.1 dB

Center 2.615 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>8.9830 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-1.859 kHz	
<b>x dB Bandwidth</b>	9.782 MHz	

**Freq/Channel**

**Center Freq**  
2.61500000 GHz

**Start Freq**  
2.60500000 GHz

**Stop Freq**  
2.62500000 GHz

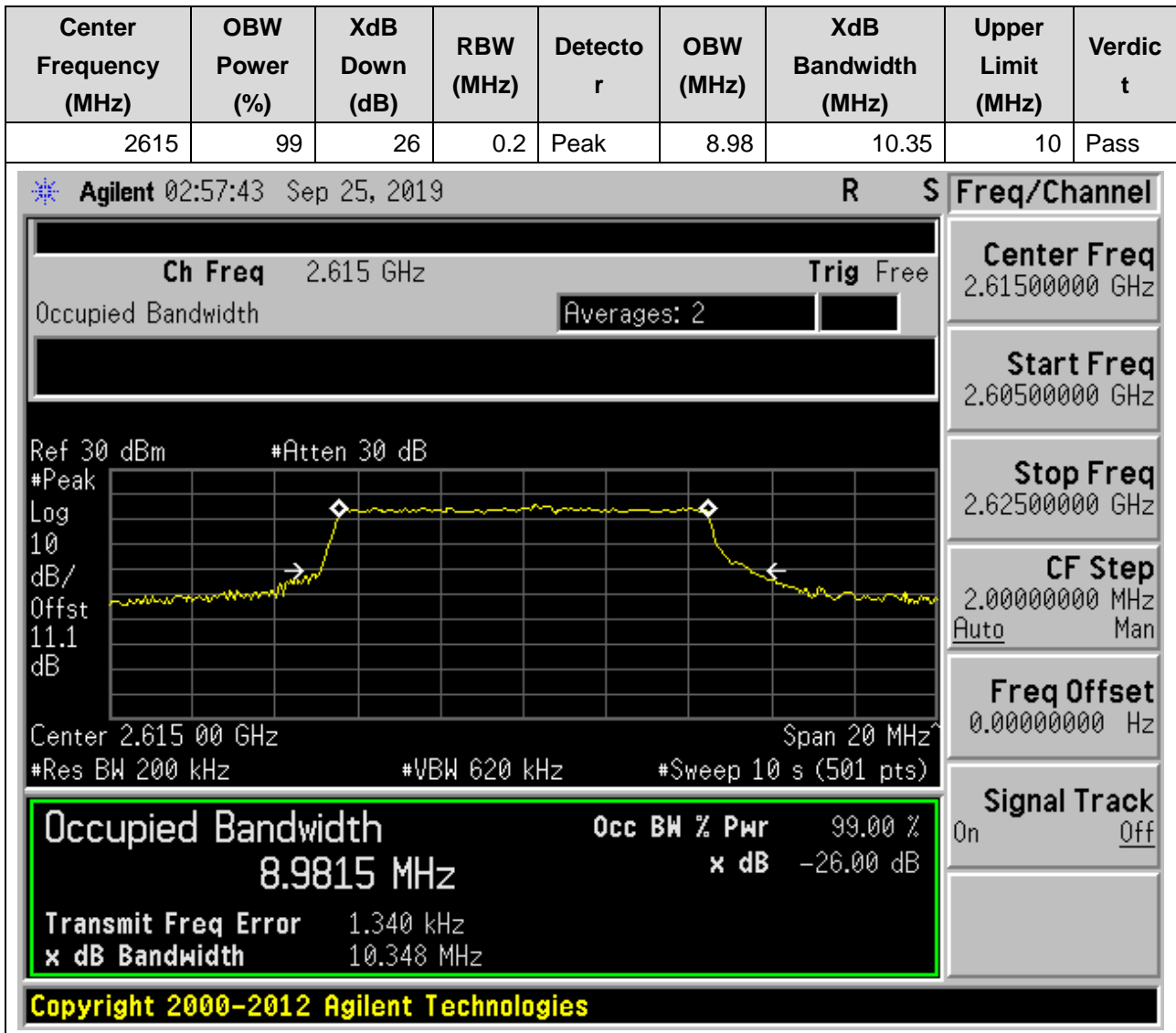
**CF Step**  
2.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

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





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

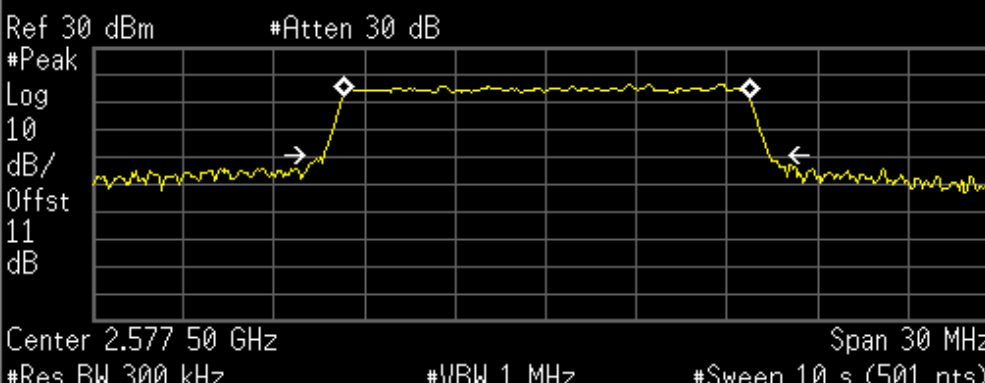
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2577.5	99	26	0.3	Peak	13.5	14.7	15	Pass

Agilent 02:58:34 Sep 25, 2019 R S

**Ch Freq** 2.5775 GHz **Trig** Free

Occupied Bandwidth Averages: 2



<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
13.4953 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> 5.565 kHz	
<b>x dB Bandwidth</b> 14.699 MHz	

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**Freq/Channel**

**Center Freq** 2.57750000 GHz

**Start Freq** 2.56250000 GHz

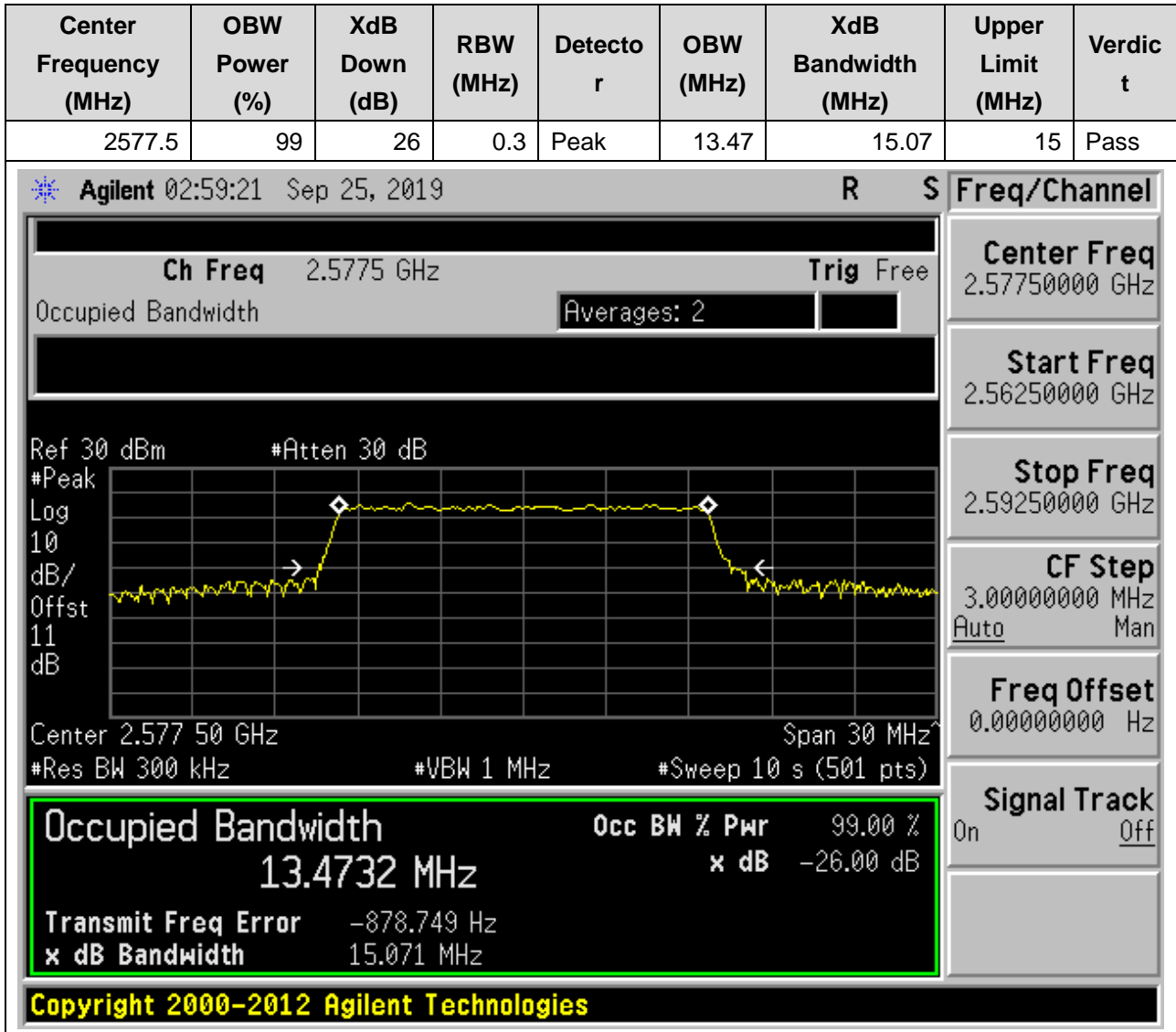
**Stop Freq** 2.59250000 GHz

**CF Step** 3.00000000 MHz  
Auto Man

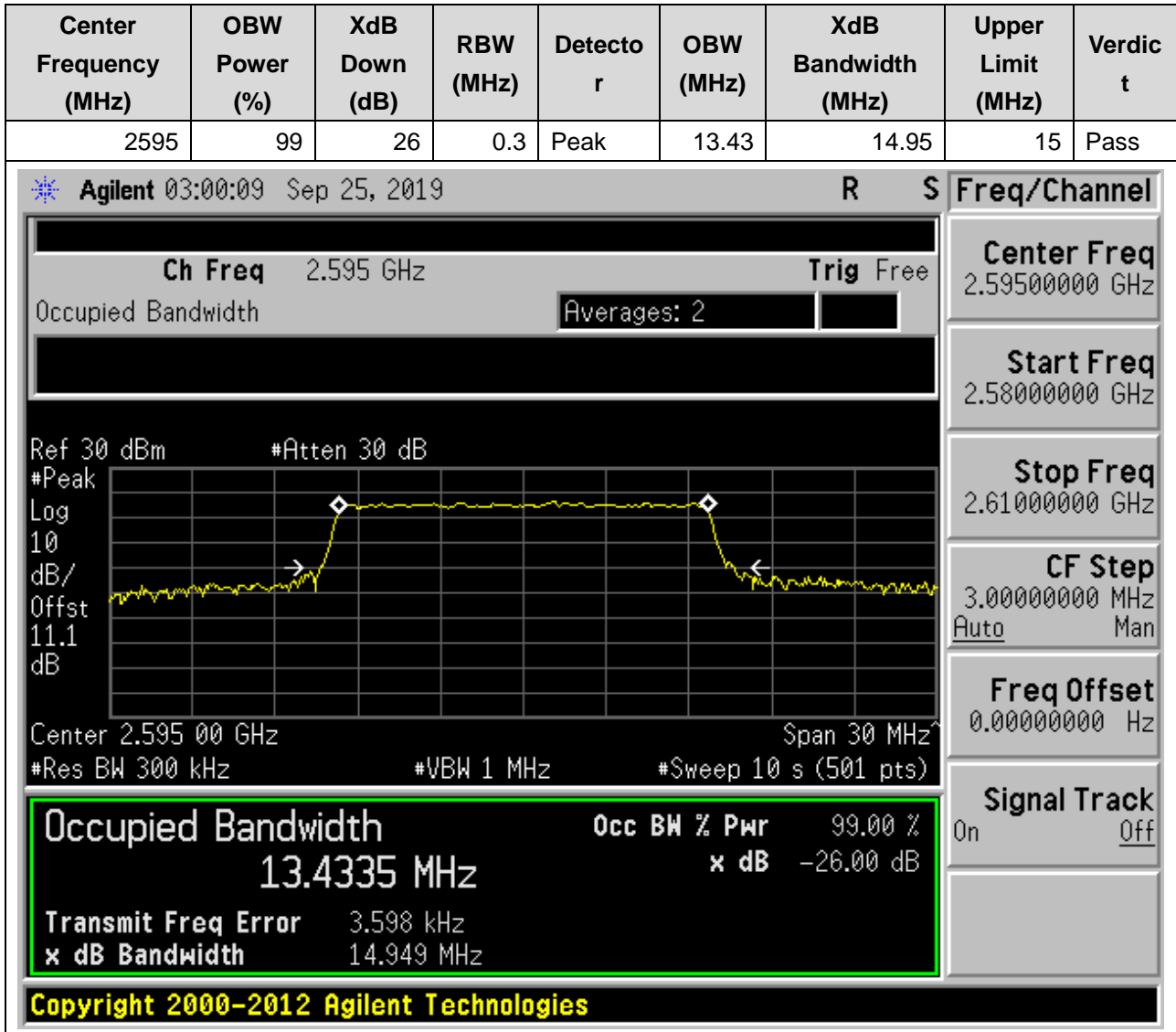
**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

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

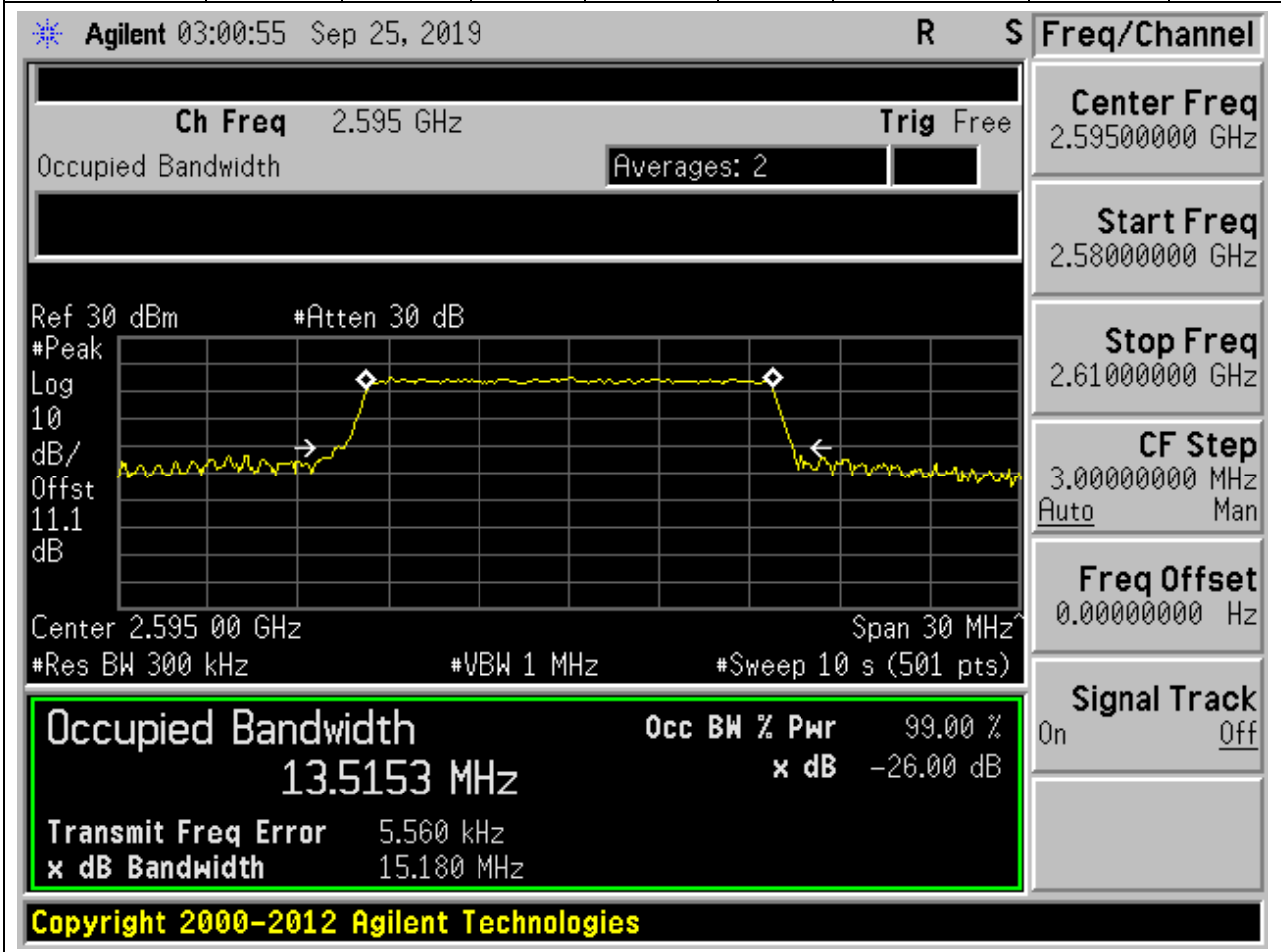


**16.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:38000, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

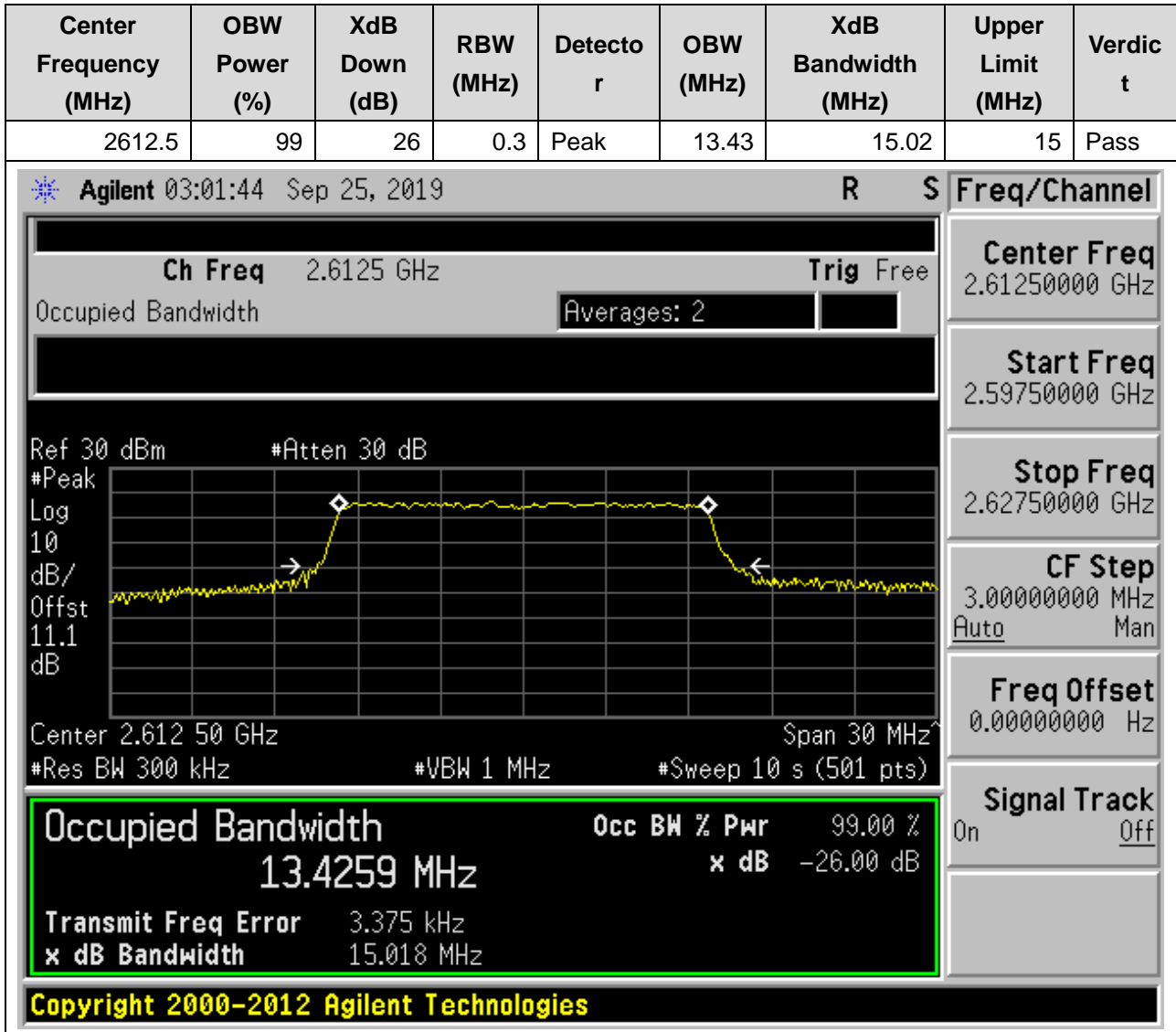


**16.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:38000, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

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	13.52	15.18	15	Pass



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



**16.18. 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	13.5	15.3	15	Pass

**Agilent** 03:02:30 Sep 25, 2019 R S

---

**Ch Freq** 2.6125 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 30 dBm #Atten 30 dB

#Peak

Log

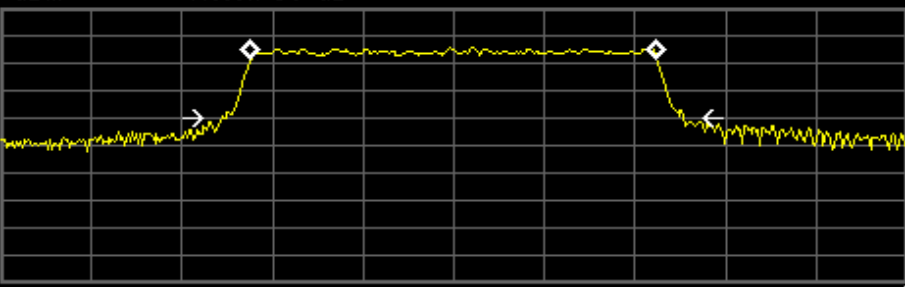
10

dB/

Offst

11.1

dB



Center 2.612 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 10 s (501 pts)

**Freq/Channel**

**Center Freq**  
2.61250000 GHz

**Start Freq**  
2.59750000 GHz

**Stop Freq**  
2.62750000 GHz

**CF Step**  
3.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

---

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

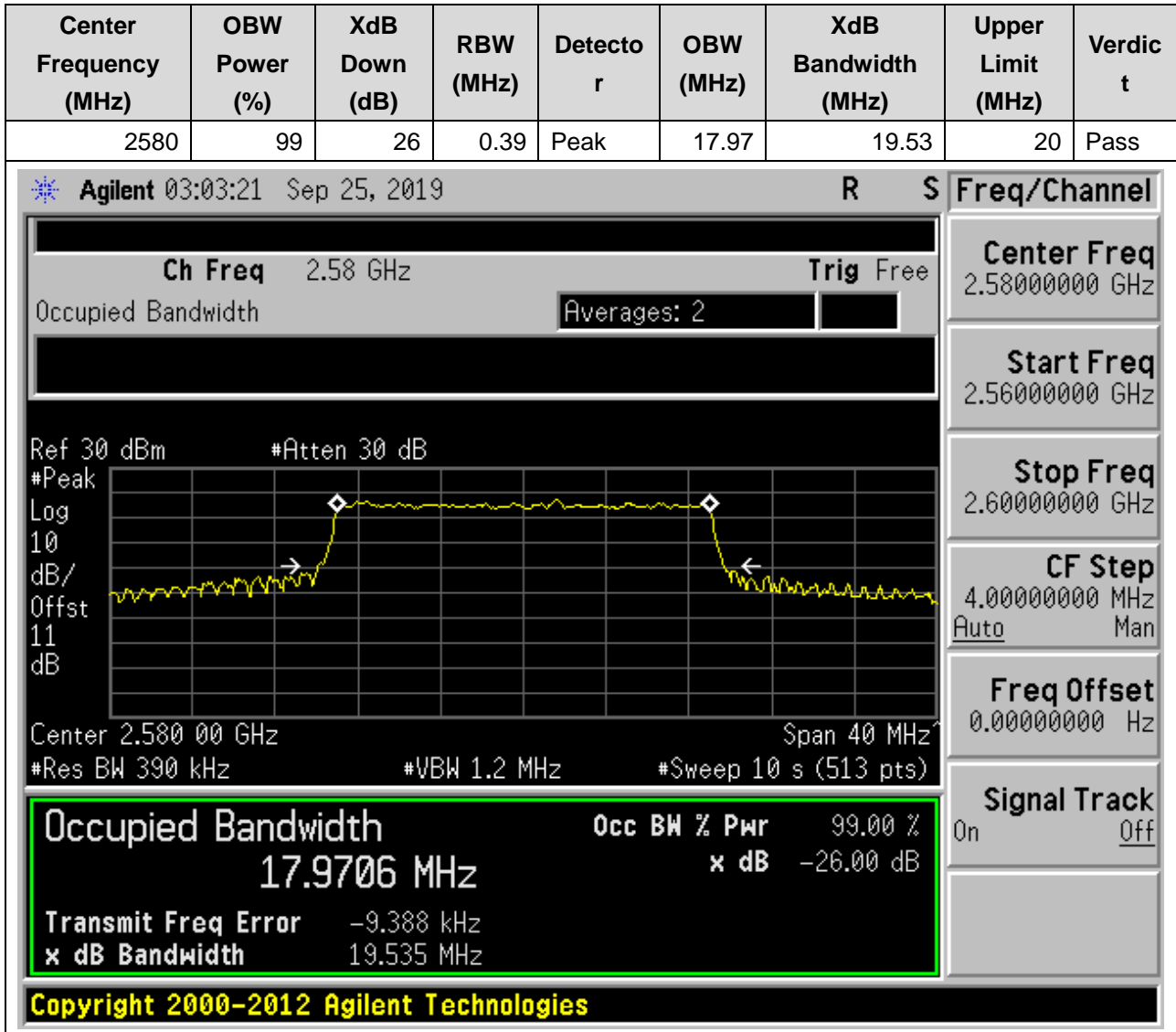
**13.5014 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -13.139 kHz

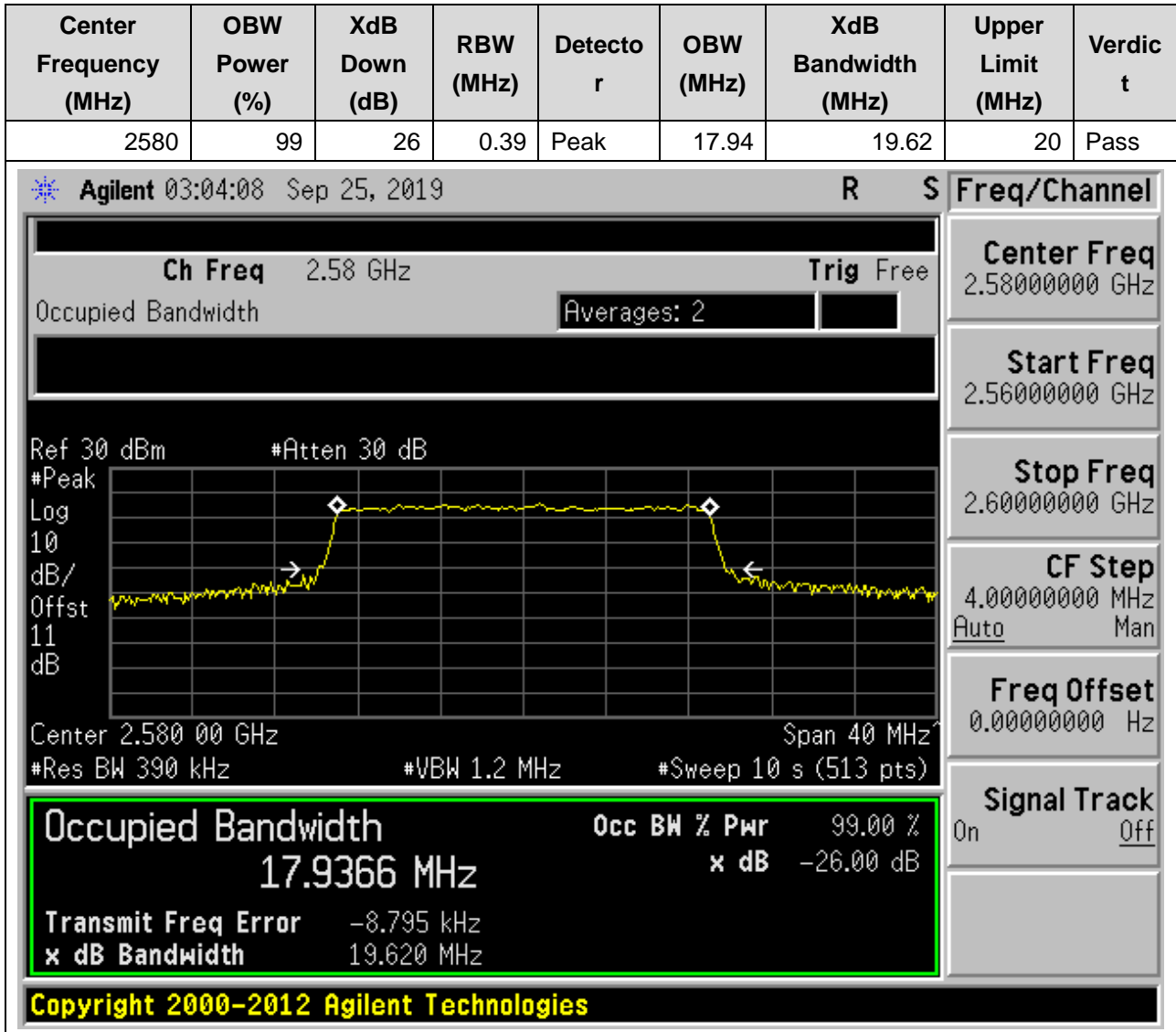
**x dB Bandwidth** 15.296 MHz

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



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





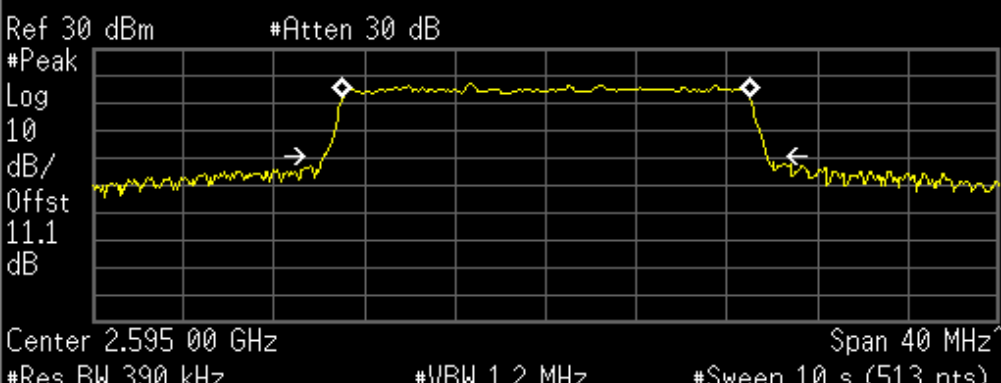
**16.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:38000, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

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	17.92	19.52	20	Pass

Agilent 03:04:56 Sep 25, 2019 R S

**Ch Freq** 2.595 GHz **Trig** Free

Occupied Bandwidth Averages: 2



<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
17.9172 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> 10.775 kHz	
<b>x dB Bandwidth</b> 19.520 MHz	

**Freq/Channel**

**Center Freq** 2.59500000 GHz

**Start Freq** 2.57500000 GHz

**Stop Freq** 2.61500000 GHz

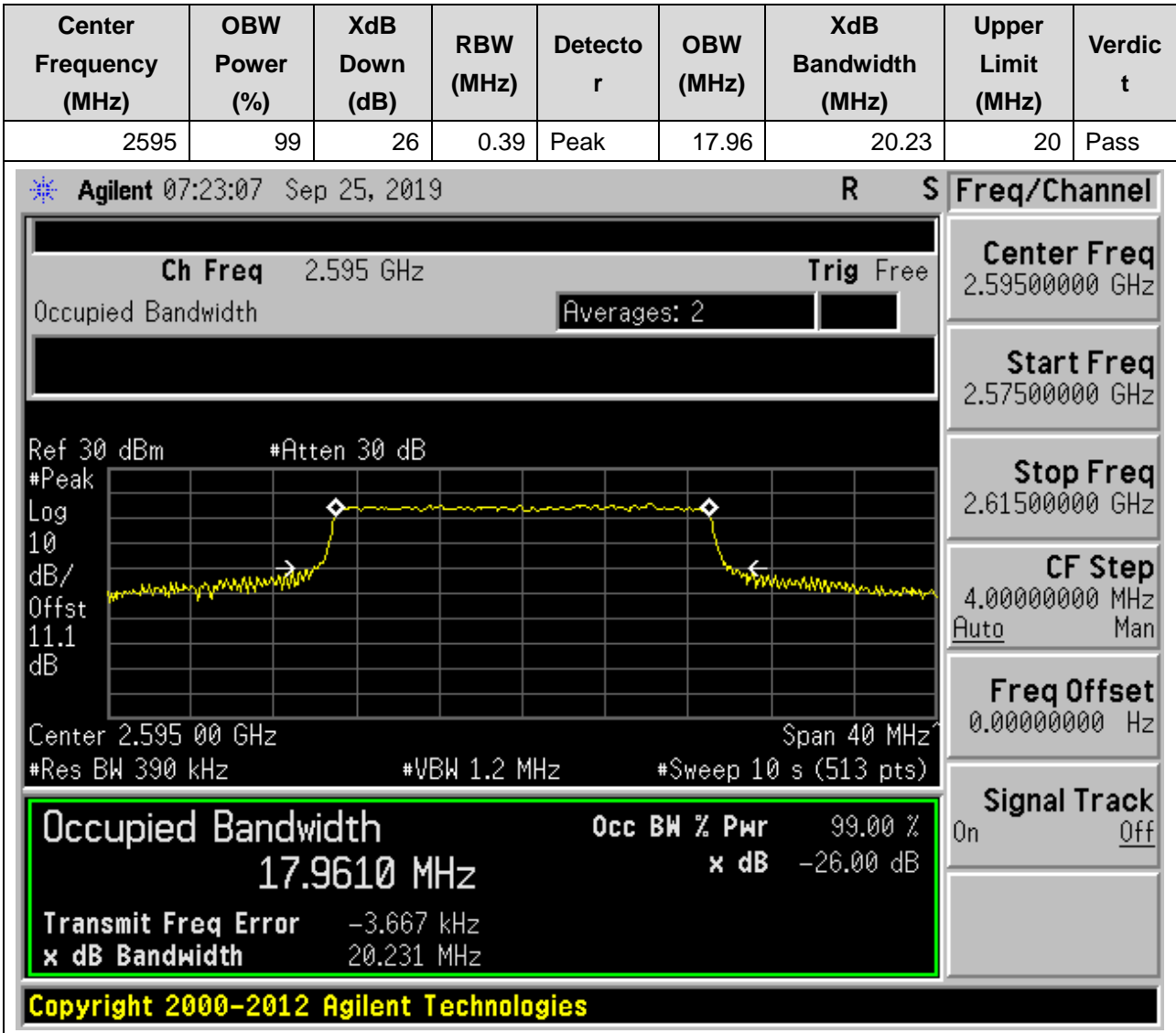
**CF Step** 4.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

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



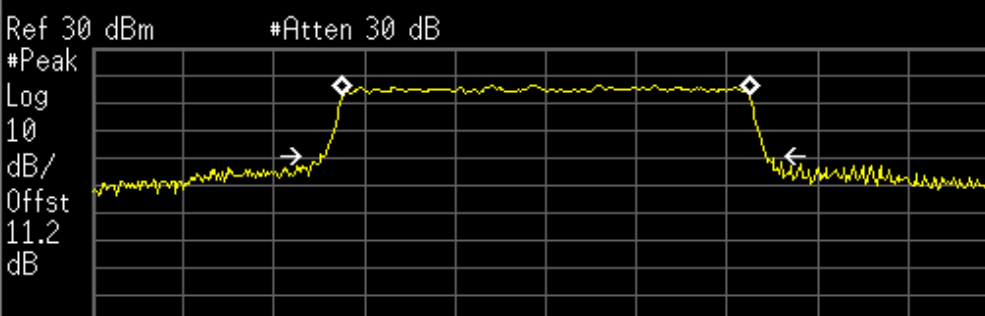
**16.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:38150, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

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	17.92	19.65	20	Pass

Agilent 03:06:30 Sep 25, 2019 R S

**Ch Freq** 2.61 GHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak

Log

10

dB/

Offst

11.2

dB

Center 2.610 00 GHz Span 40 MHz

#Res BW 390 kHz #VBW 1.2 MHz #Sweep 10 s (513 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
17.9232 MHz	x dB	-26.00 dB
<b>Transmit Freq Error</b>	-10.523 kHz	
x dB Bandwidth	19.647 MHz	

**Signal Track** On Off

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**Freq/Channel**

**Center Freq** 2.61000000 GHz

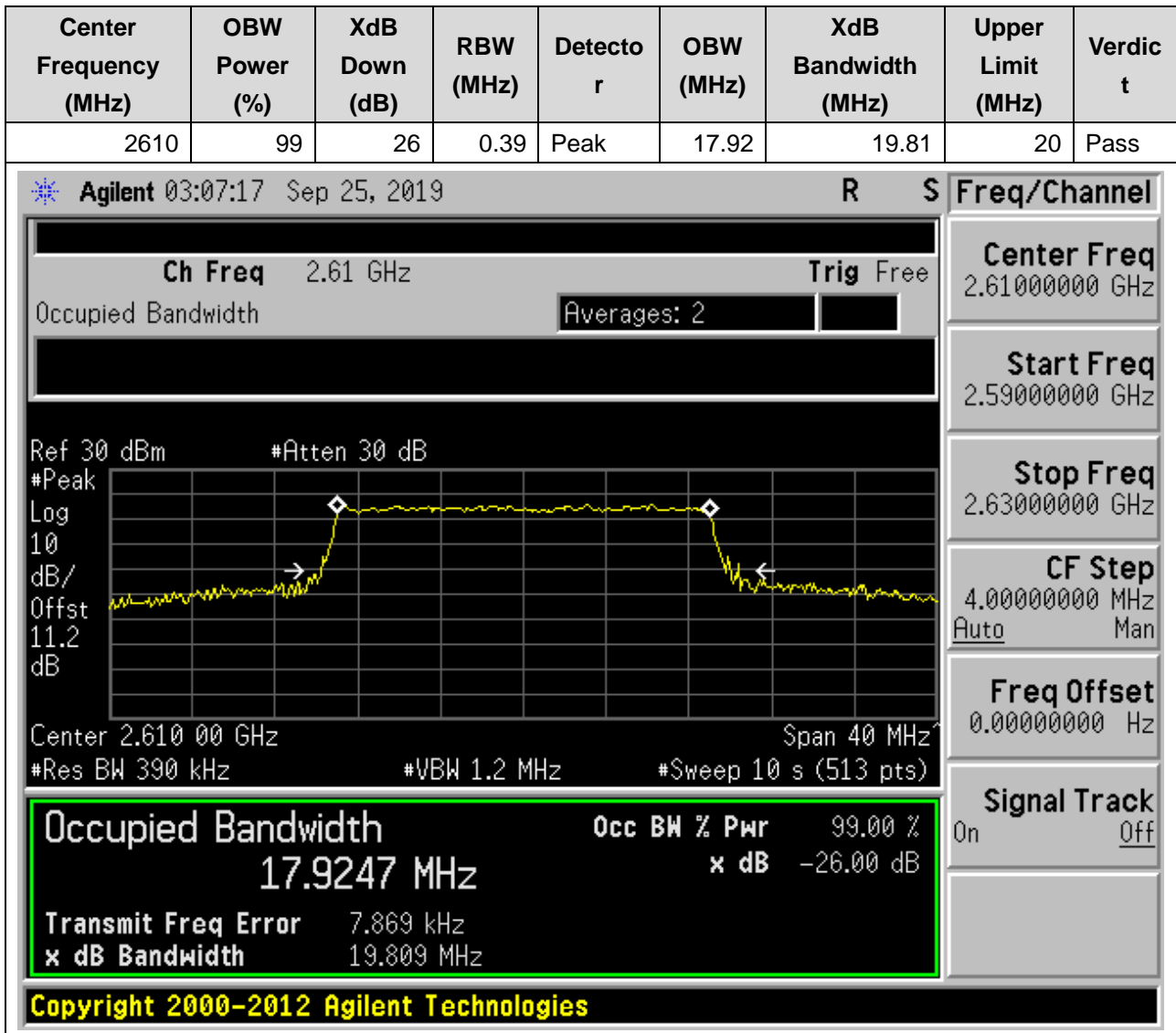
**Start Freq** 2.59000000 GHz

**Stop Freq** 2.63000000 GHz

**CF Step** 4.00000000 MHz Auto Man

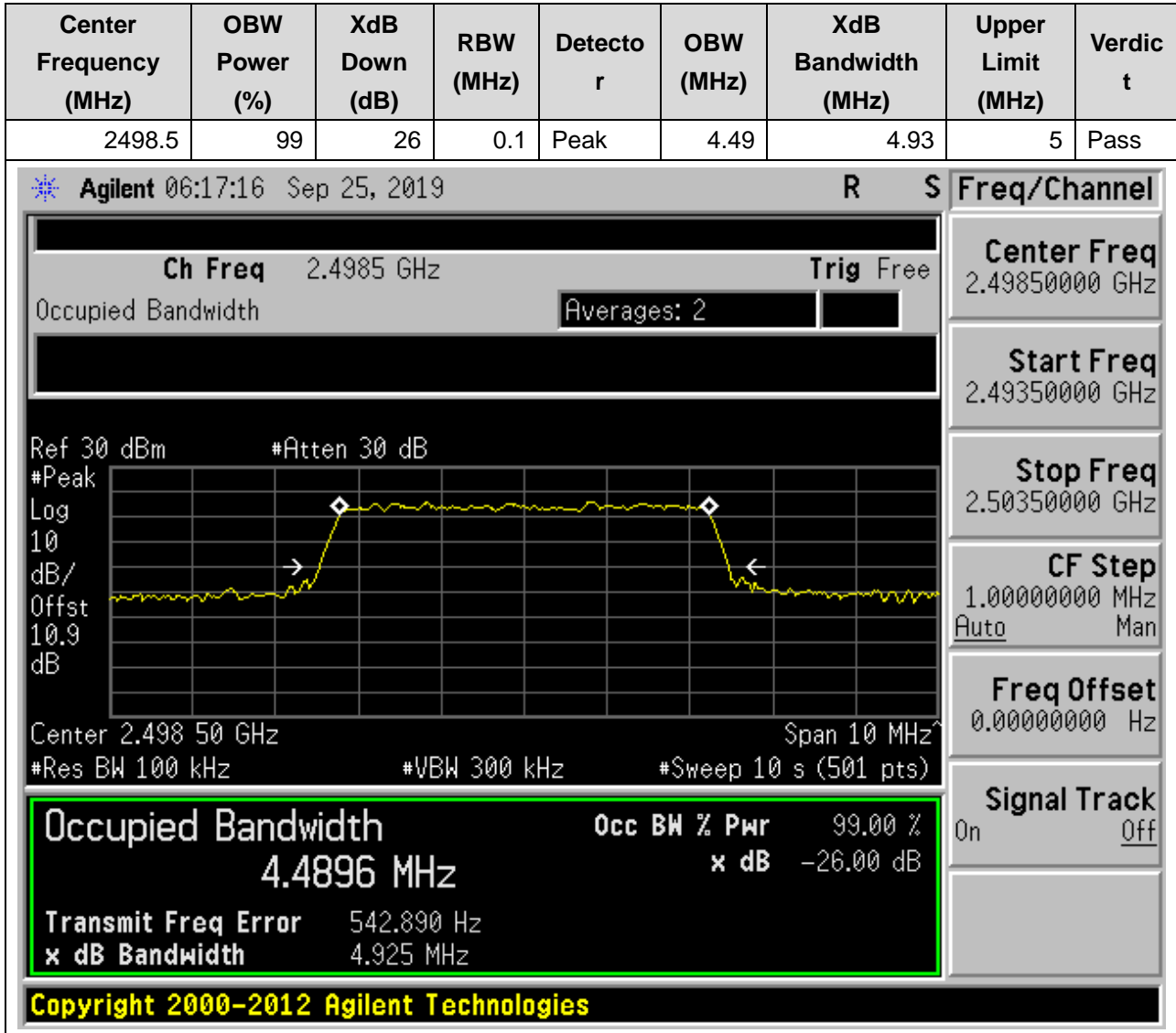
**Freq Offset** 0.00000000 Hz

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



## 17. LTE\_Band41 full

17.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:39675, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



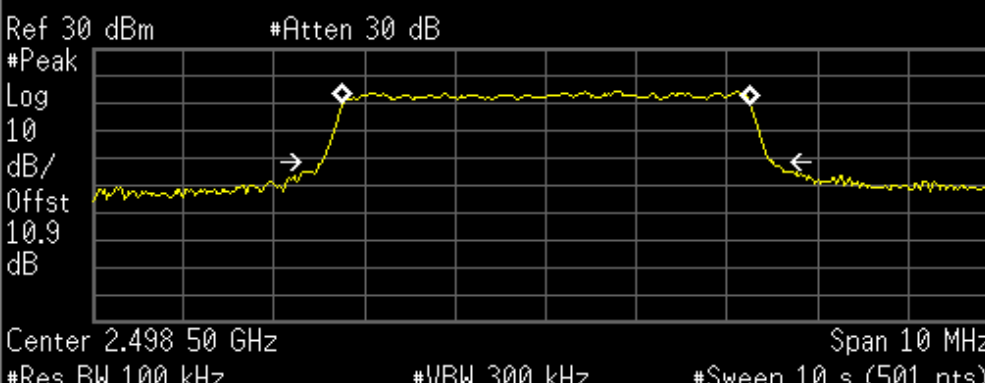
**17.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:39675, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2498.5	99	26	0.1	Peak	4.51	4.98	5	Pass

Agilent 06:18:02 Sep 25, 2019 R S

**Ch Freq** 2.4985 GHz **Trig** Free

Occupied Bandwidth Averages: 2



<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
4.5056 MHz	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b> 2.234 kHz	
<b>x dB Bandwidth</b> 4.982 MHz	

**Freq/Channel**

**Center Freq** 2.49850000 GHz

**Start Freq** 2.49350000 GHz

**Stop Freq** 2.50350000 GHz

**CF Step** 1.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

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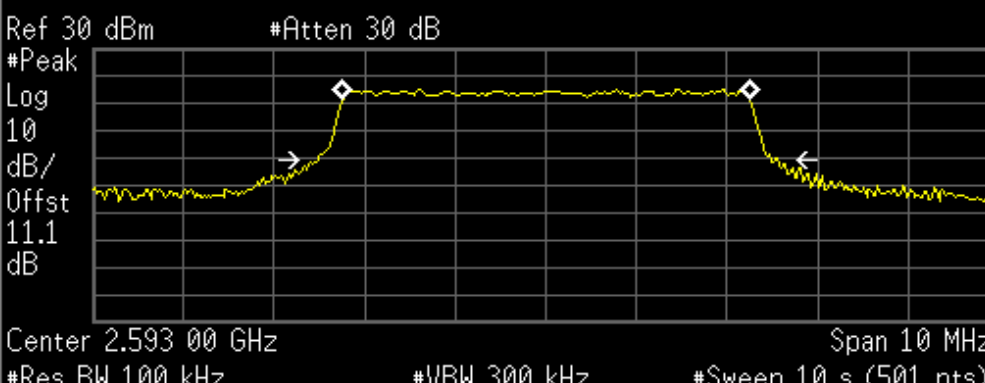
**17.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:40620, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.1	Peak	4.5	5.08	5	Pass

Agilent 06:18:50 Sep 25, 2019 R S

**Ch Freq** 2.593 GHz **Trig** Free

Occupied Bandwidth Averages: 2



<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
4.5043 MHz	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b> -659.833 Hz	
<b>x dB Bandwidth</b> 5.076 MHz	

**Signal Track** On Off

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**Freq/Channel**

**Center Freq** 2.59300000 GHz

**Start Freq** 2.58800000 GHz

**Stop Freq** 2.59800000 GHz

**CF Step** 1.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

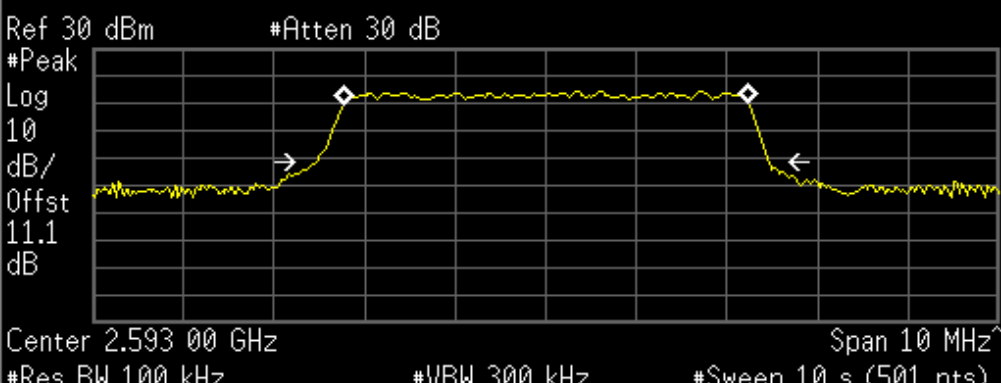
**17.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:40620, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.1	Peak	4.49	4.99	5	Pass

Agilent 06:19:36 Sep 25, 2019 R S

**Ch Freq** 2.593 GHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.1 dB

Center 2.593 00 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 10 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
4.4940 MHz	x dB	-26.00 dB
<b>Transmit Freq Error</b>	-593.821 Hz	
<b>x dB Bandwidth</b>	4.991 MHz	

**Freq/Channel**

**Center Freq** 2.59300000 GHz

**Start Freq** 2.58800000 GHz

**Stop Freq** 2.59800000 GHz

**CF Step** 1.00000000 MHz  
Auto Man

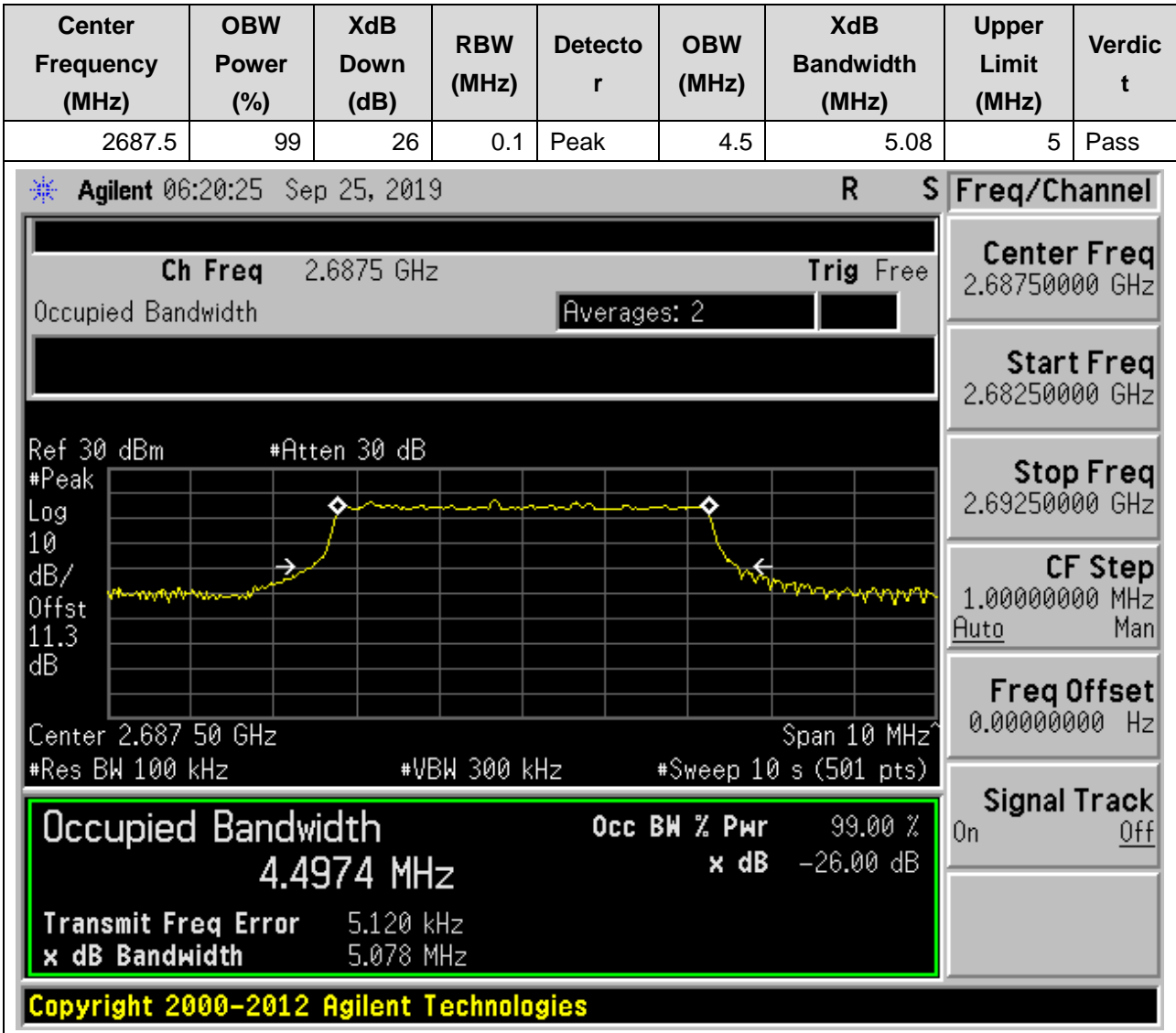
**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

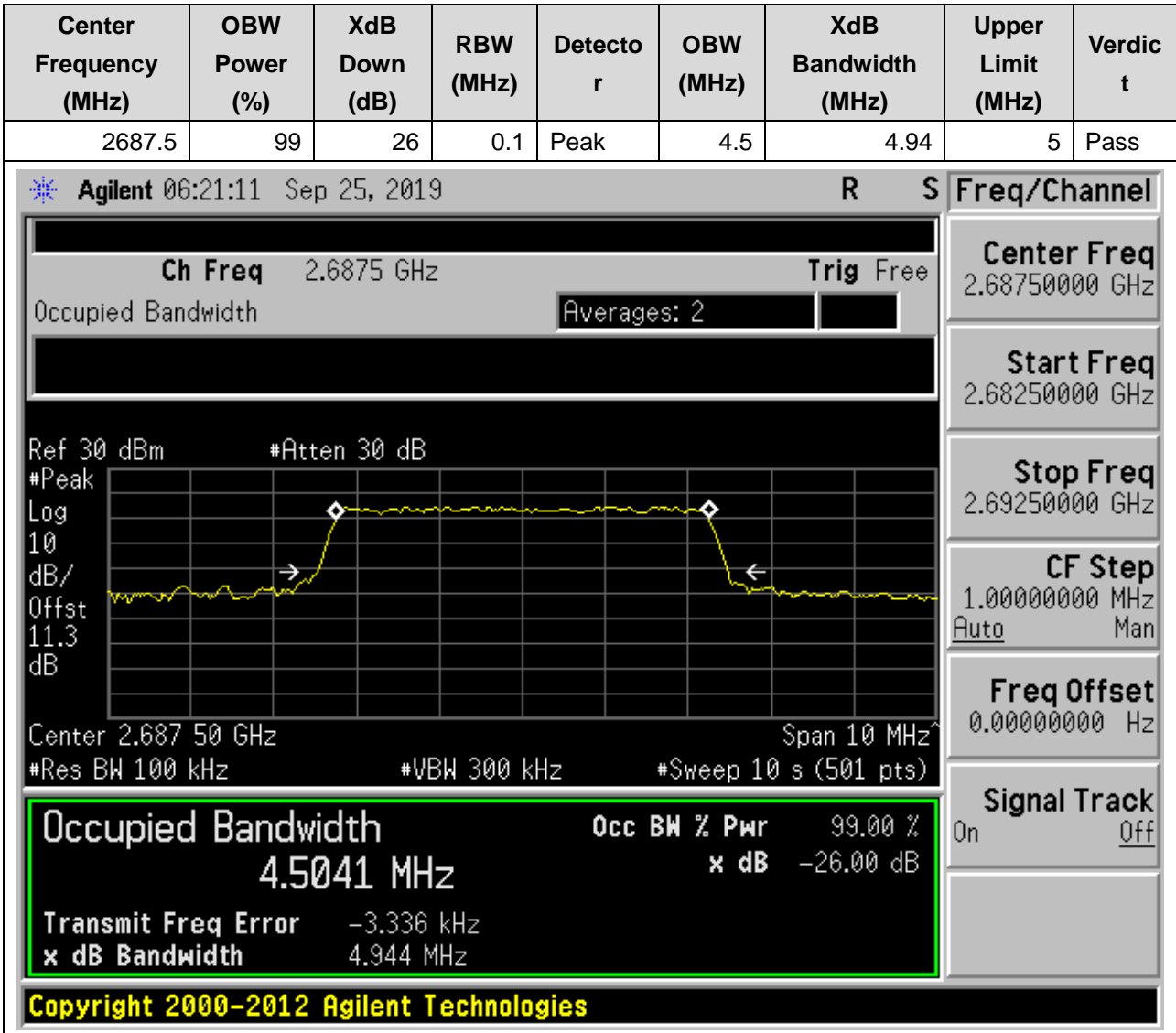
Copyright 2000-2012 Agilent Technologies



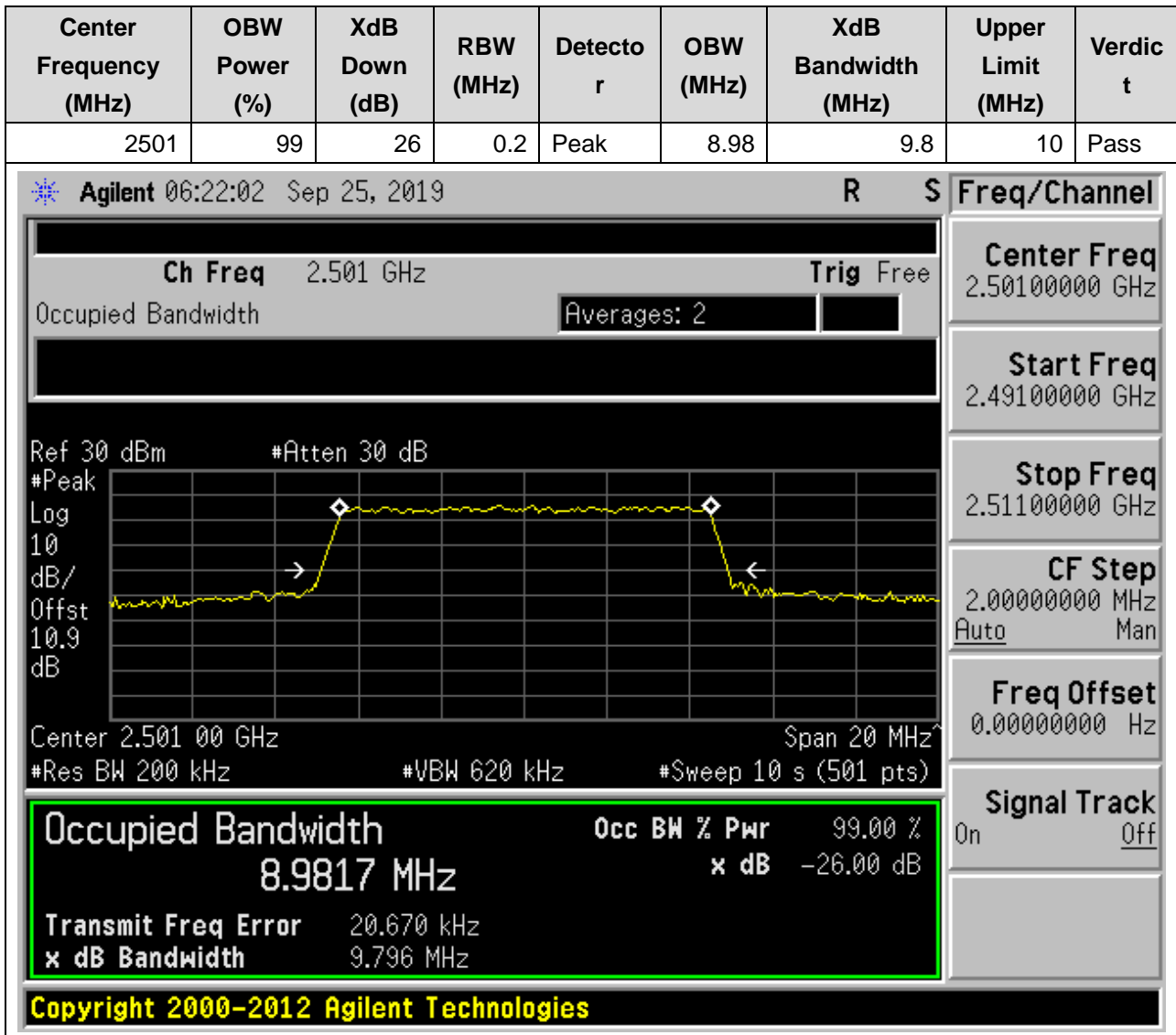
**17.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:41565, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



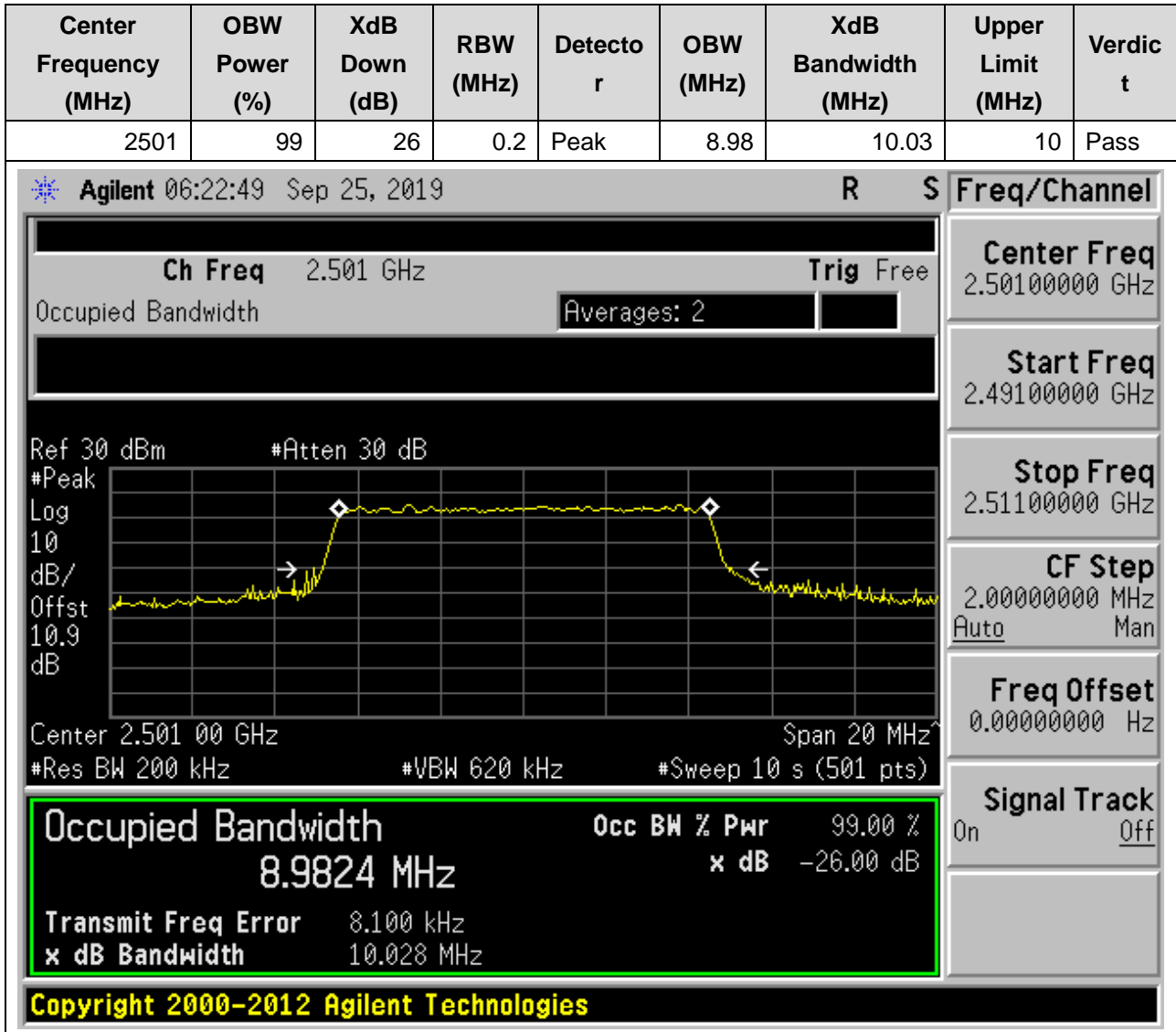
**17.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:41565, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



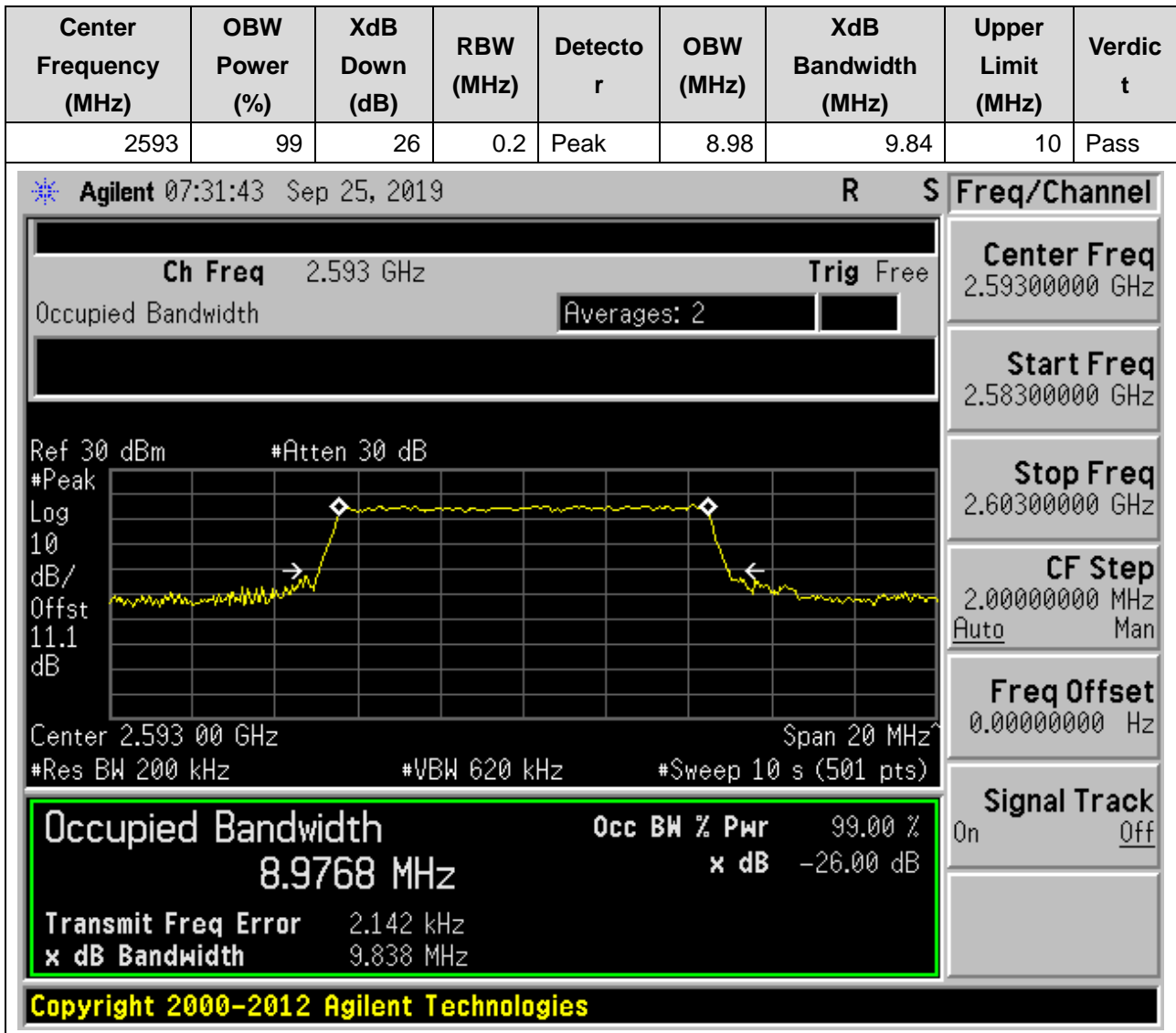
**17.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:39700, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



**17.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:39700, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

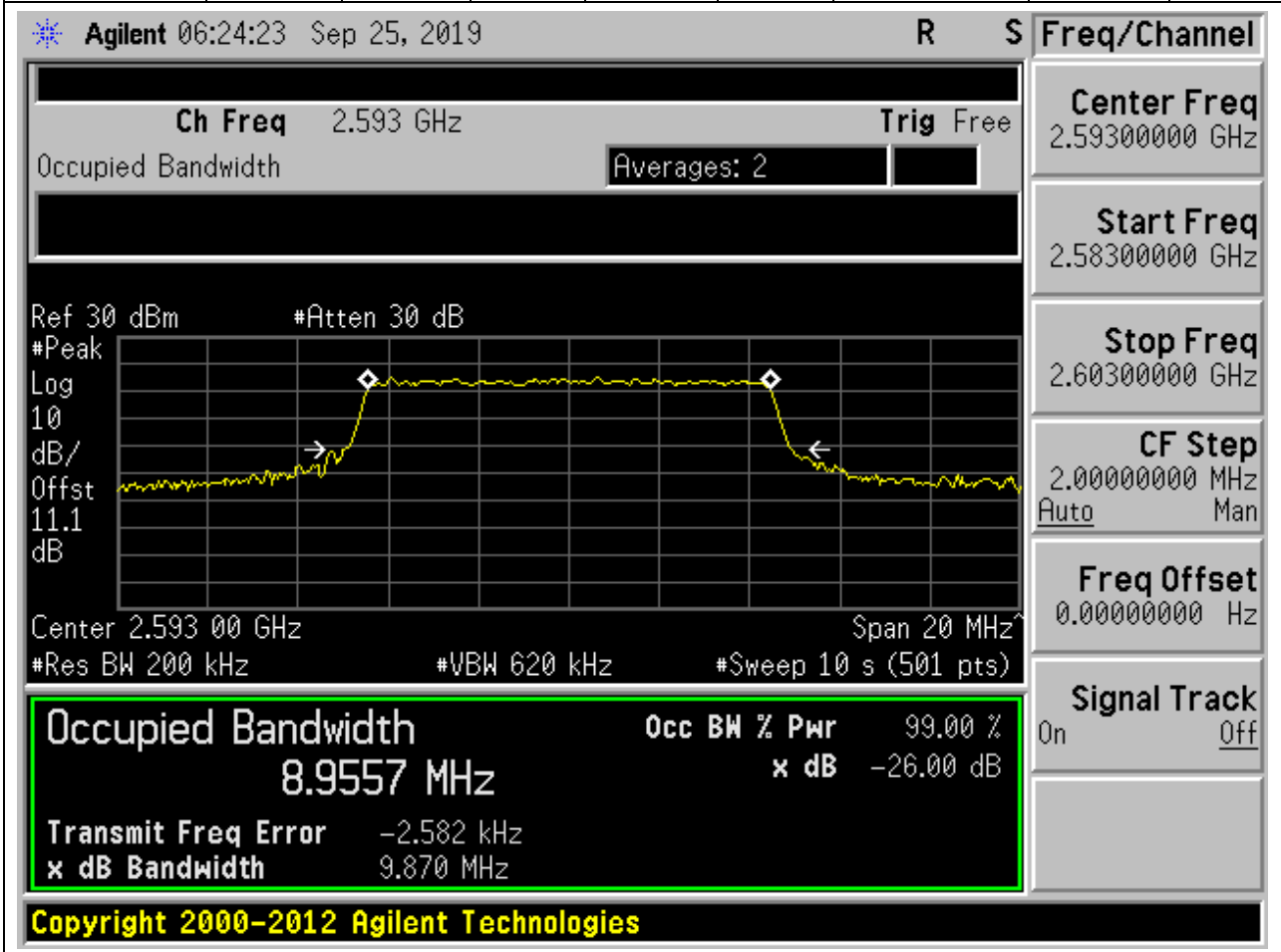


**17.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:40620, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

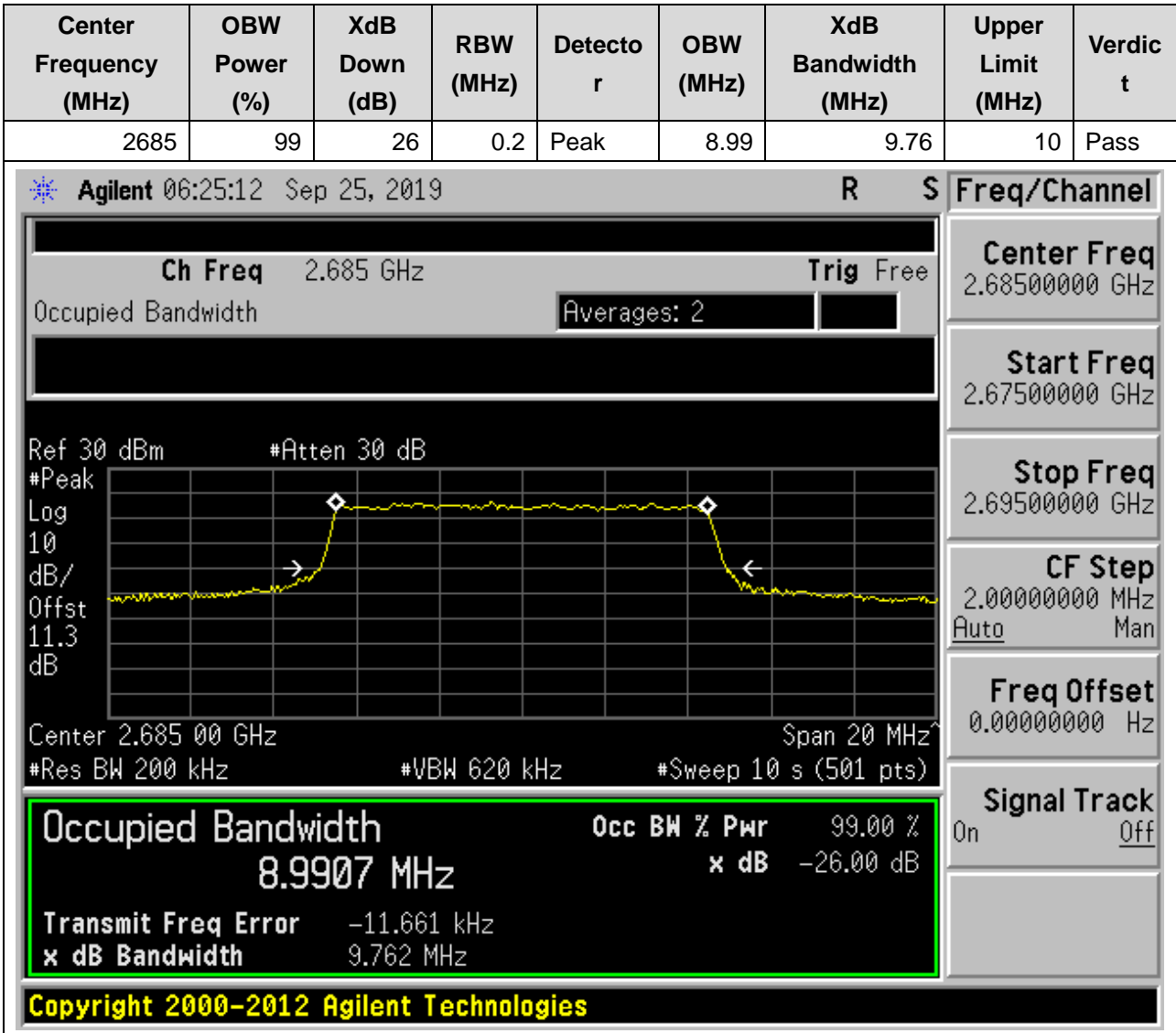


**17.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:40620, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.2	Peak	8.96	9.87	10	Pass



**17.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:41540, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



**17.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:41540, 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
2685	99	26	0.2	Peak	8.98	10.39	10	Pass

**Agilent** 06:25:58 Sep 25, 2019 R S

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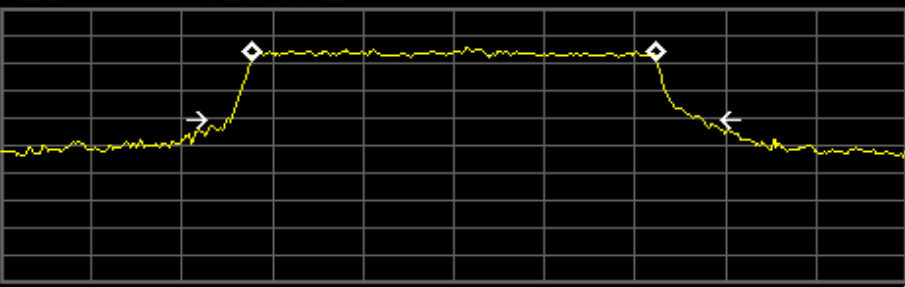
**Ch Freq** 2.685 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.3 dB



Center 2.685 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (501 pts)

**Freq/Channel**

**Center Freq**  
2.68500000 GHz

**Start Freq**  
2.67500000 GHz

**Stop Freq**  
2.69500000 GHz

**CF Step**  
2.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

---

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

**8.9844 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -5.537 kHz

**x dB Bandwidth** 10.390 MHz

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**17.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:39725, 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
2503.5	99	26	0.3	Peak	13.47	15.01	15	Pass

**Agilent** 06:26:49 Sep 25, 2019 R S

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**Ch Freq** 2.5035 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 30 dBm #Atten 30 dB

#Peak

Log

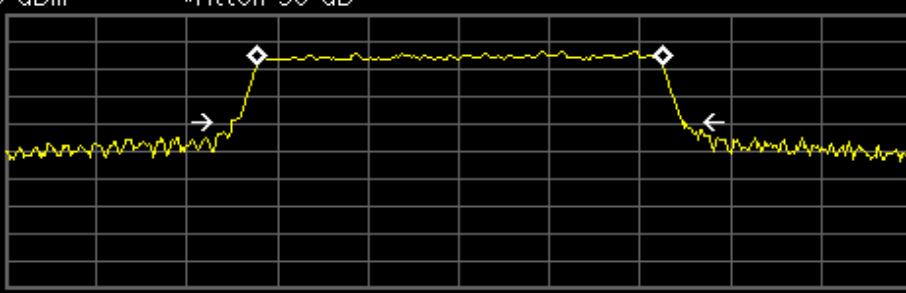
10

dB/

Offst

10.9

dB



Center 2.503 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 10 s (501 pts)

**Freq/Channel**

**Center Freq**  
2.50350000 GHz

**Start Freq**  
2.48850000 GHz

**Stop Freq**  
2.51850000 GHz

**CF Step**  
3.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

---

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

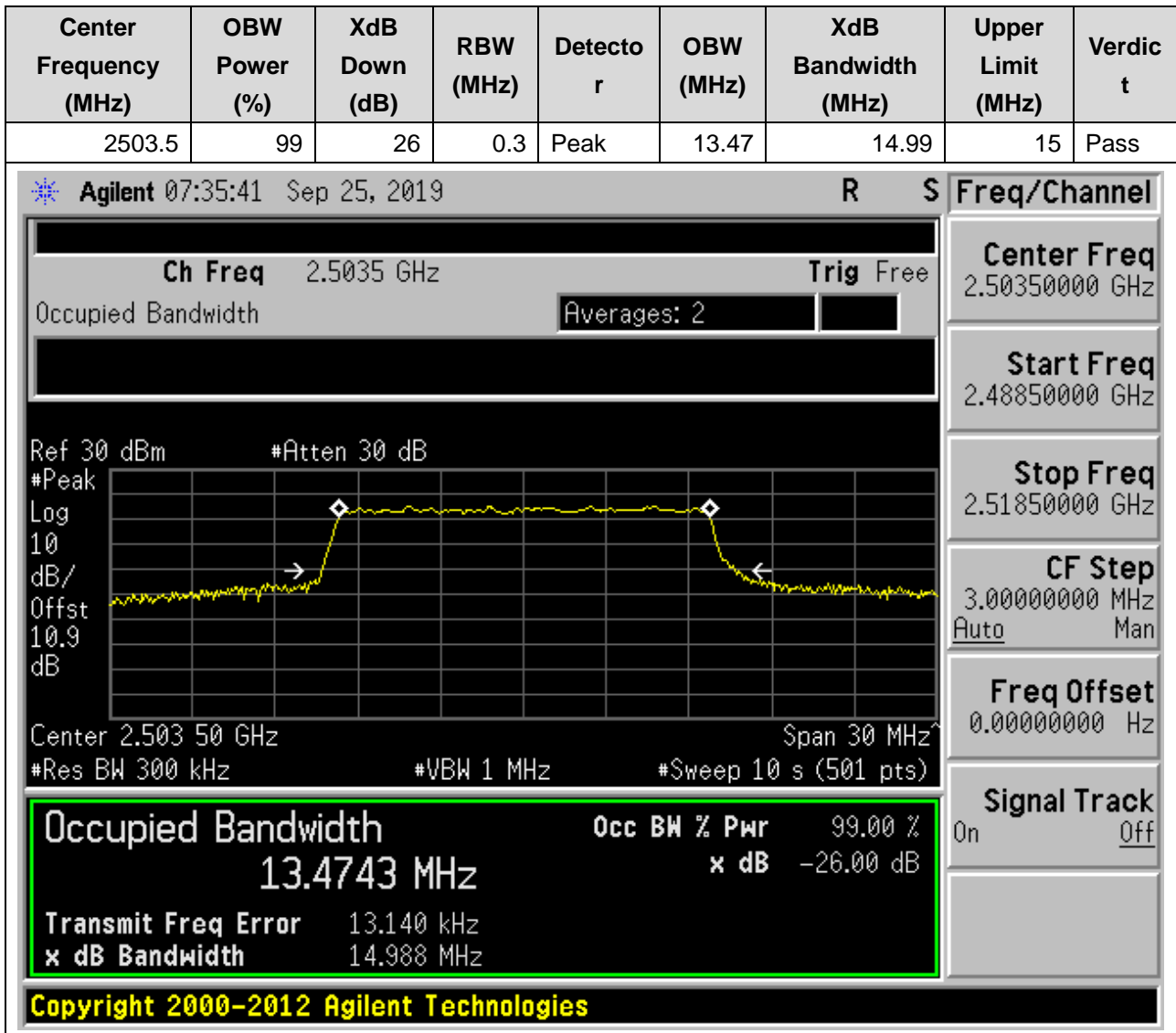
**13.4678 MHz** **x dB** -26.00 dB

**Transmit Freq Error** 21.428 kHz

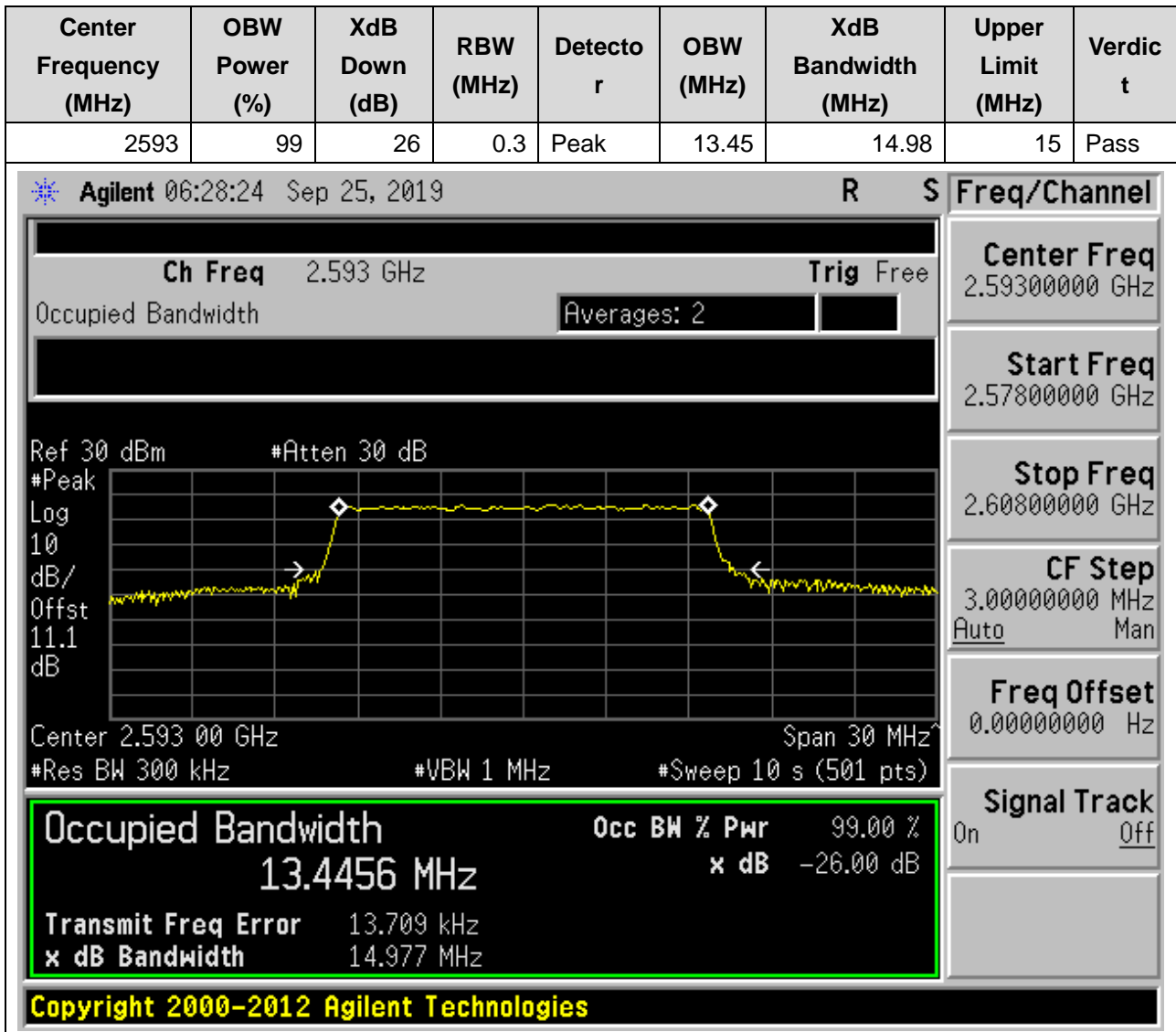
**x dB Bandwidth** 15.010 MHz

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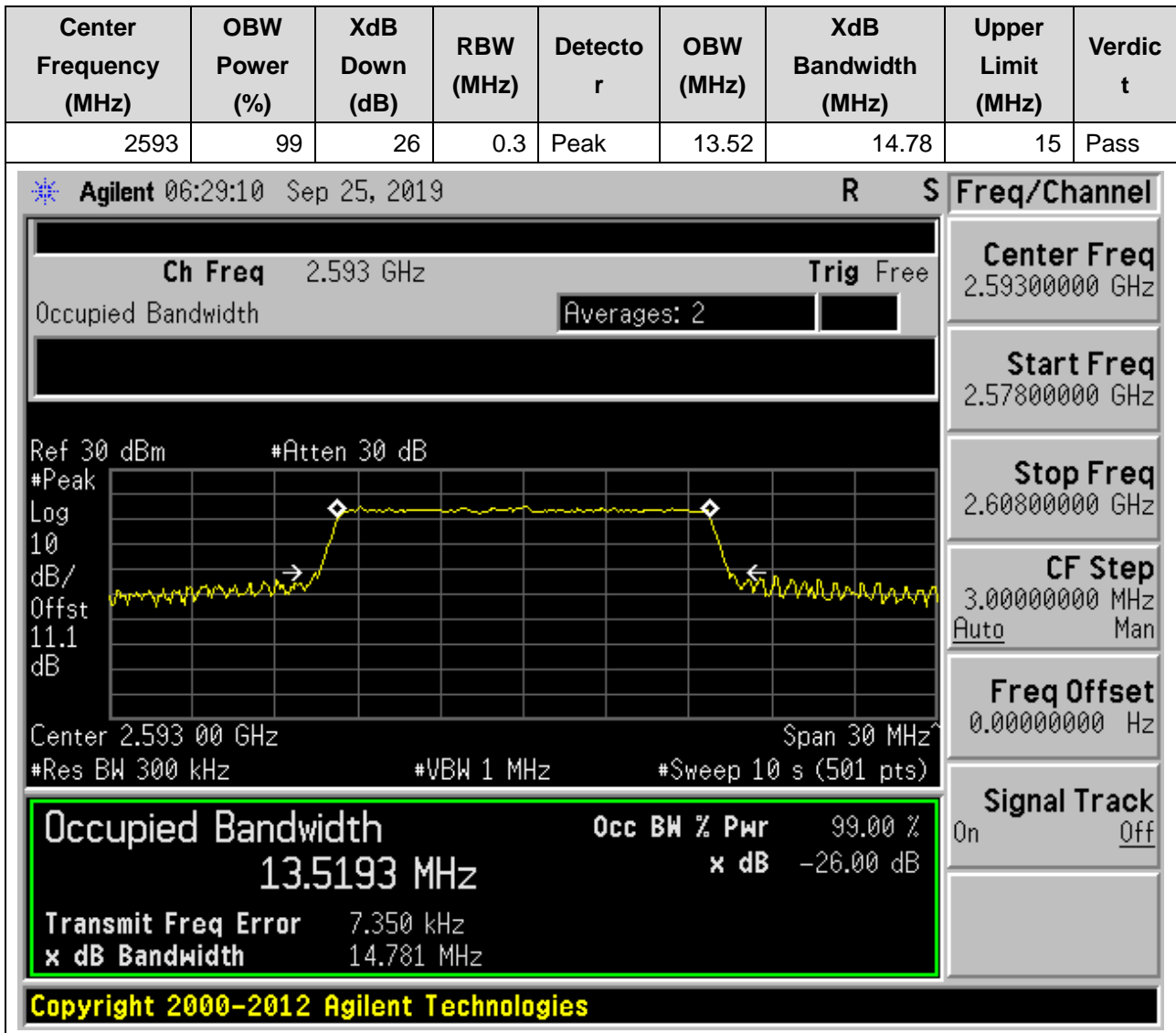
**17.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:39725, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



**17.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:40620, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



**17.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:40620, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



**17.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:41515, 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
2682.5	99	26	0.3	Peak	13.42	15.02	15	Pass

**Agilent** 06:29:59 Sep 25, 2019 R S

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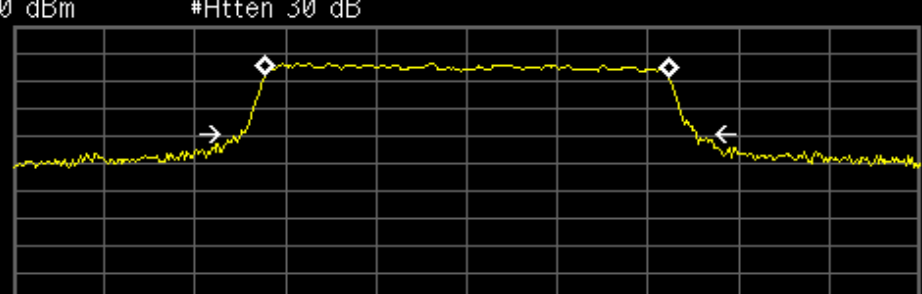
**Ch Freq** 2.6825 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.3 dB



Center 2.682 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 10 s (501 pts)

**Freq/Channel**

**Center Freq**  
2.68250000 GHz

**Start Freq**  
2.66750000 GHz

**Stop Freq**  
2.69750000 GHz

**CF Step**  
3.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

---

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

**13.4229 MHz** **x dB** -26.00 dB

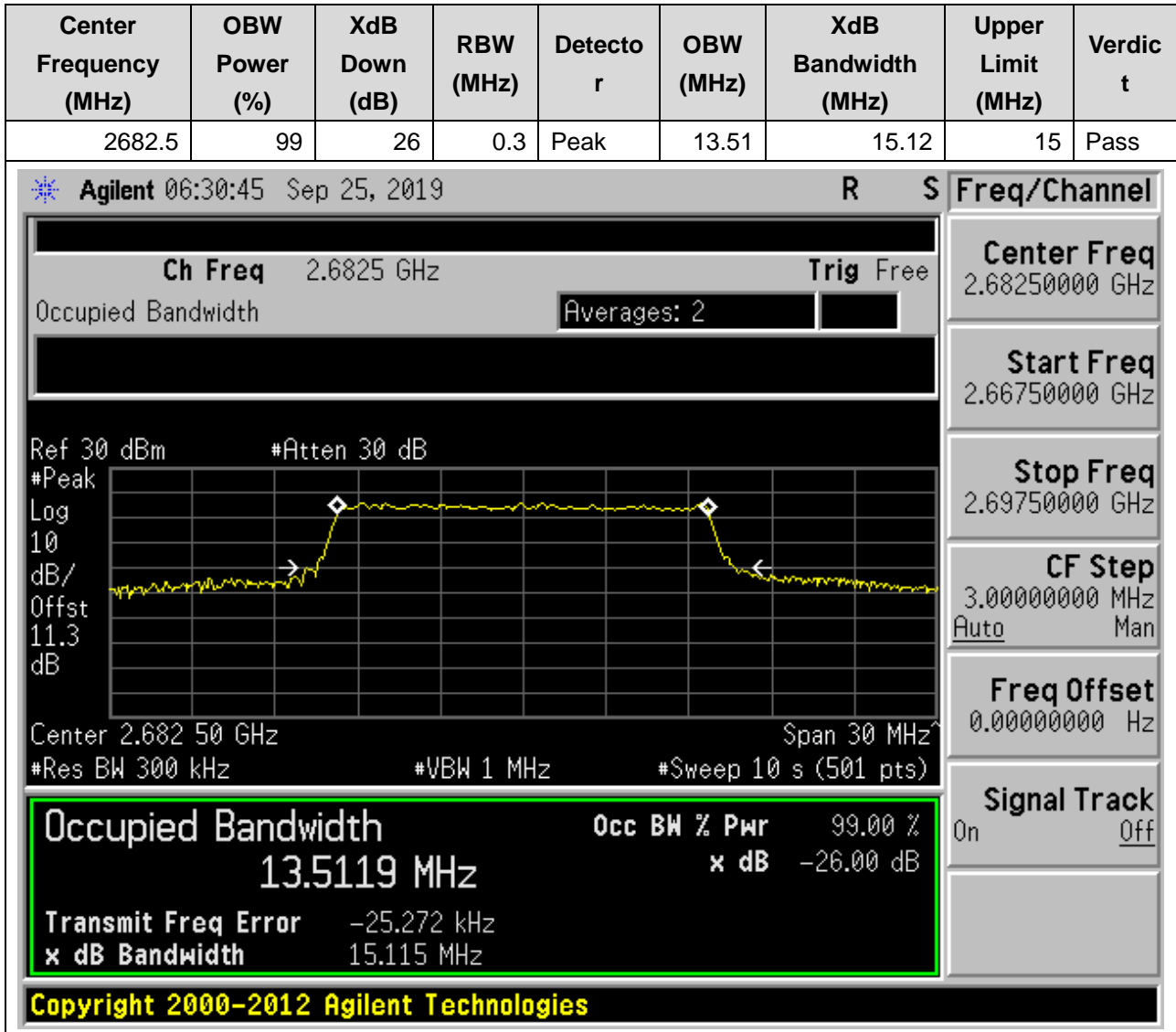
**Transmit Freq Error** -13.730 kHz

**x dB Bandwidth** 15.024 MHz

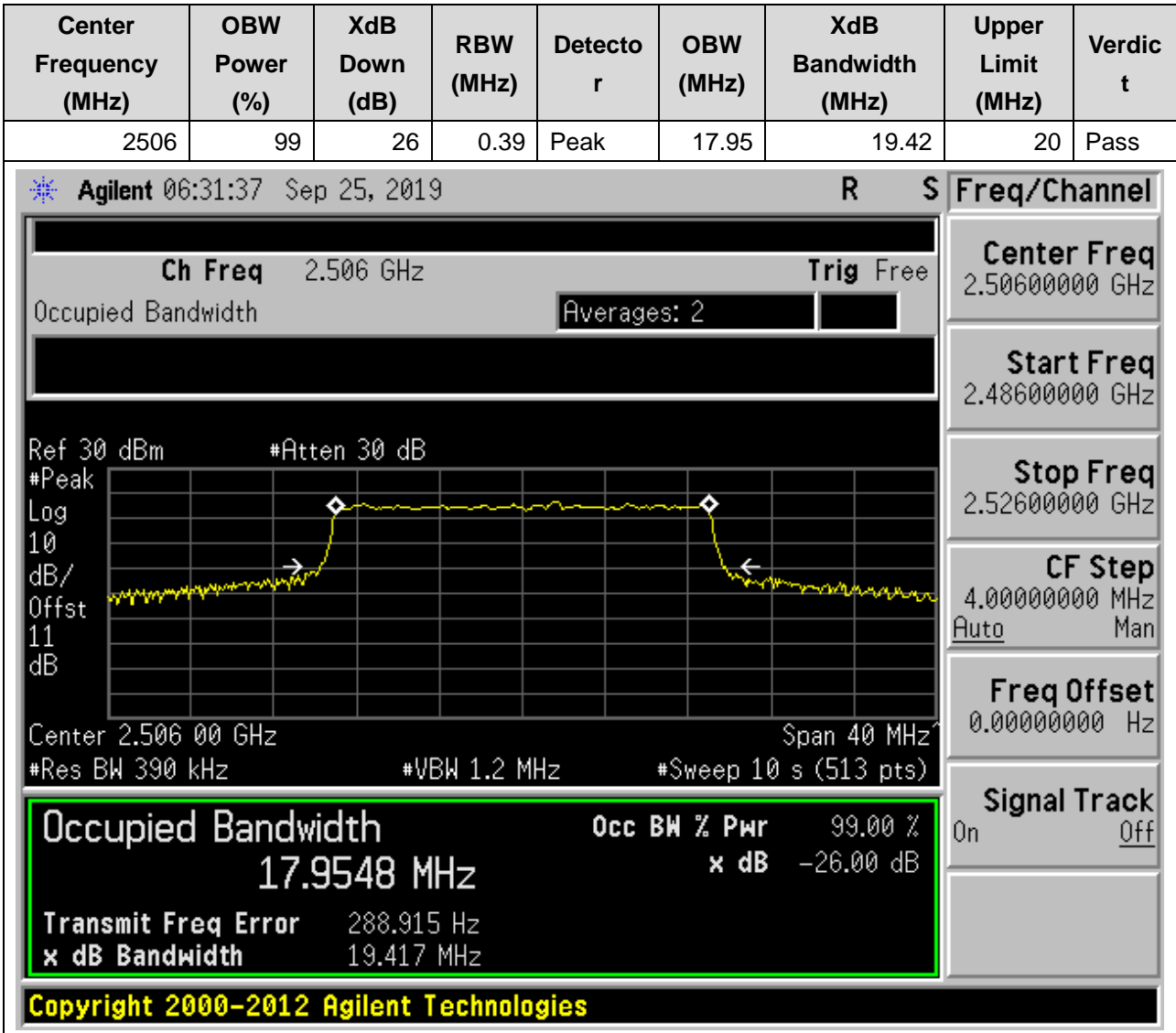
---

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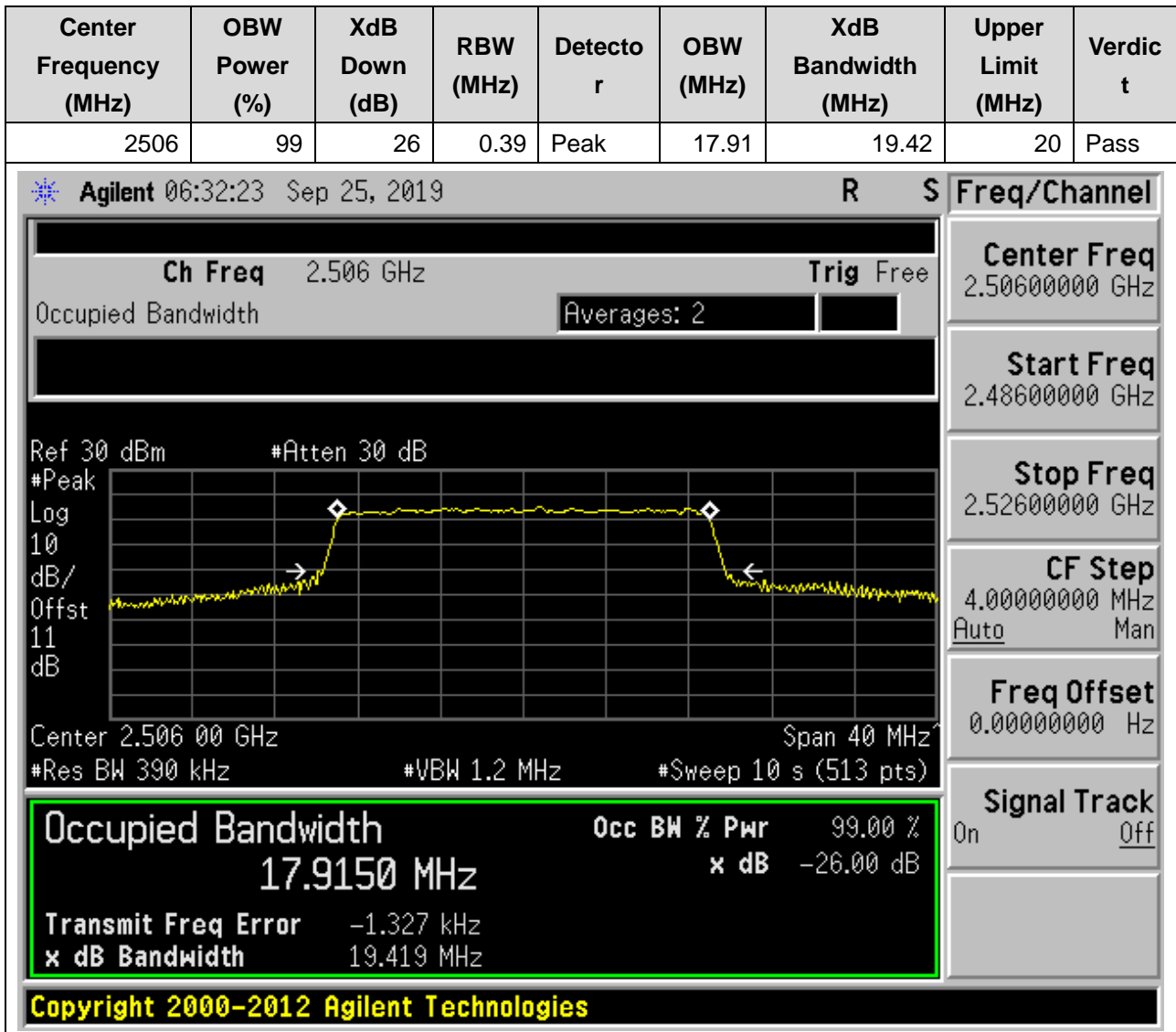
**17.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:41515, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



**17.19. LTE Occupied Bandwidth(NTNV)(Subtest:19, Channel:39750, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

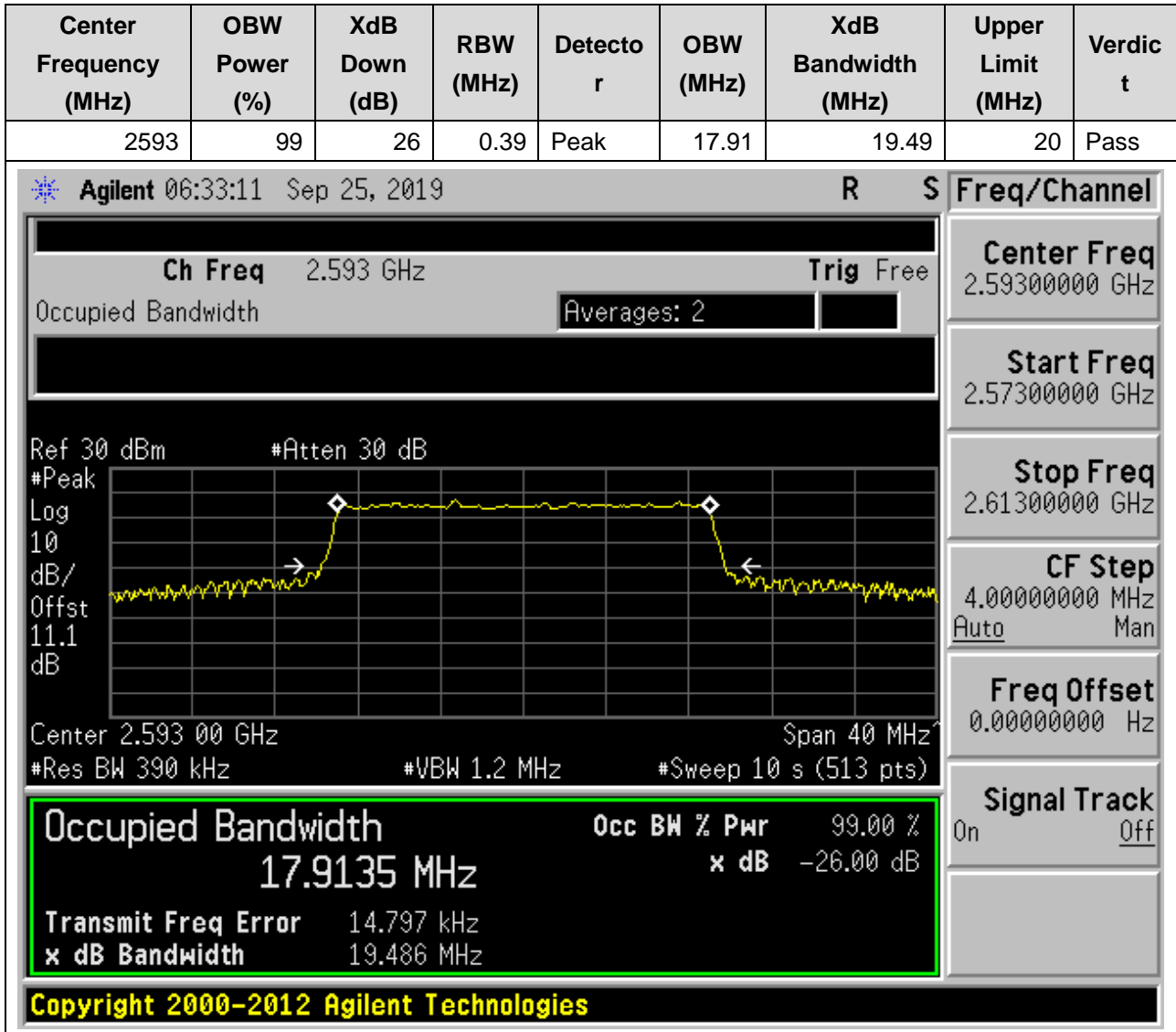


**17.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:39750, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**





**17.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:40620, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



**17.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:40620, 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
2593	99	26	0.39	Peak	17.96	20.27	20	Pass

**Agilent** 06:33:57 Sep 25, 2019 R S

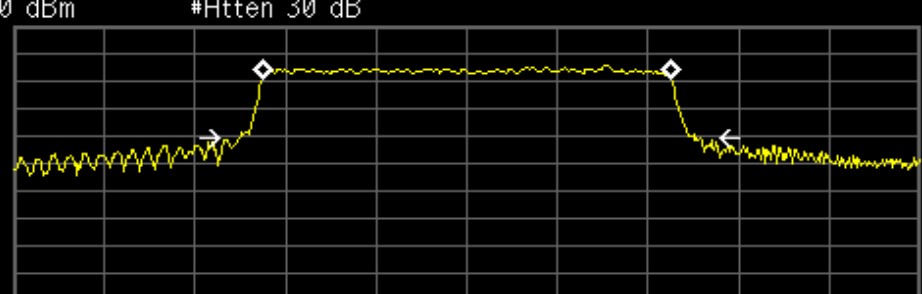
**Ch Freq** 2.593 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 30 dBm #Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
11.1  
dB



Center 2.593 00 GHz Span 40 MHz

#Res BW 390 kHz #VBW 1.2 MHz #Sweep 10 s (513 pts)

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

**17.9588 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -9.792 kHz

**x dB Bandwidth** 20.273 MHz

**Freq/Channel**

**Center Freq** 2.59300000 GHz

**Start Freq** 2.57300000 GHz

**Stop Freq** 2.61300000 GHz

**CF Step** 4.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

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**17.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:41490, 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
2680	99	26	0.39	Peak	17.93	19.76	20	Pass

**Agilent** 06:34:46 Sep 25, 2019 R S

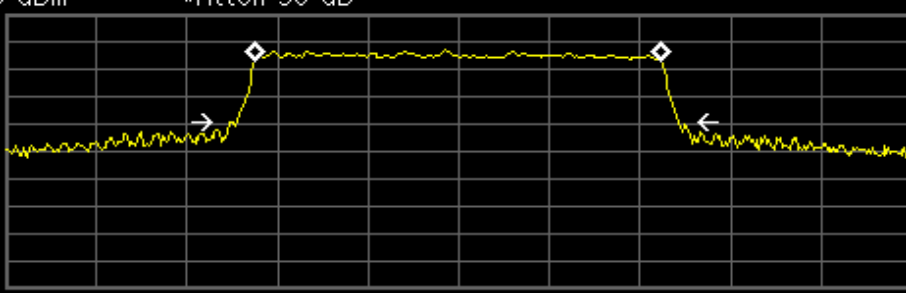
**Ch Freq** 2.68 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.3 dB



Center 2.680 00 GHz Span 40 MHz

#Res BW 390 kHz #VBW 1.2 MHz #Sweep 10 s (513 pts)

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

**17.9276 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -37.802 kHz

**x dB Bandwidth** 19.757 MHz

**Freq/Channel**

**Center Freq** 2.68000000 GHz

**Start Freq** 2.66000000 GHz

**Stop Freq** 2.70000000 GHz

**CF Step** 4.00000000 MHz Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

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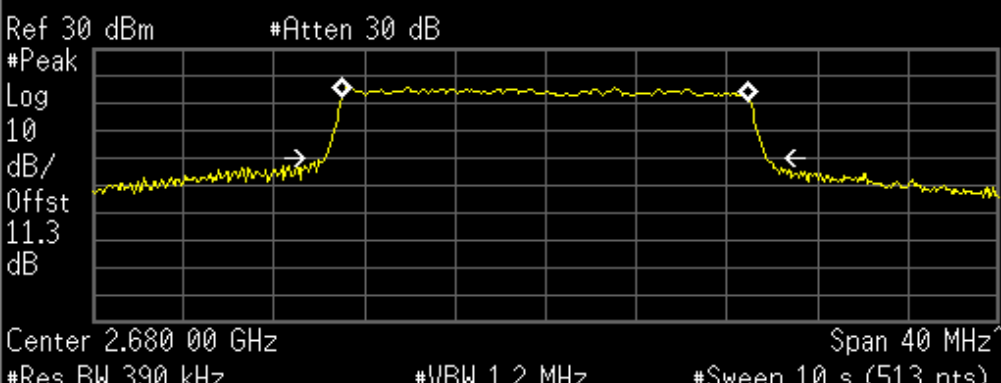
**17.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:41490, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2680	99	26	0.39	Peak	17.91	19.47	20	Pass

Agilent 06:35:32 Sep 25, 2019 R S

**Ch Freq** 2.68 GHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.3 dB

Center 2.680 00 GHz Span 40 MHz

#Res BW 390 kHz #VBW 1.2 MHz #Sweep 10 s (513 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>17.9119 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-25.489 kHz	
<b>x dB Bandwidth</b>	19.473 MHz	

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**Freq/Channel**

**Center Freq**  
2.68000000 GHz

**Start Freq**  
2.66000000 GHz

**Stop Freq**  
2.70000000 GHz

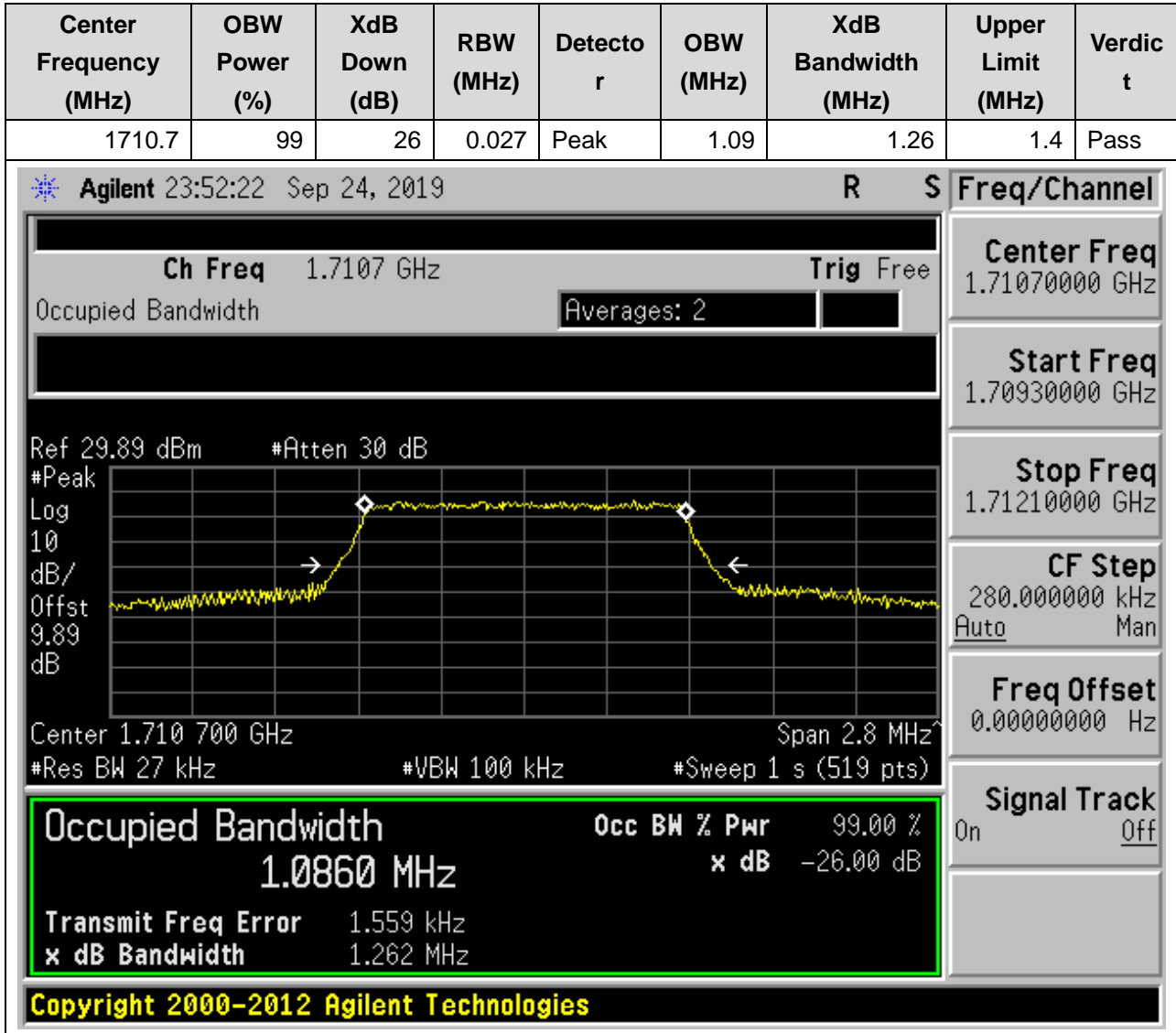
**CF Step**  
4.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

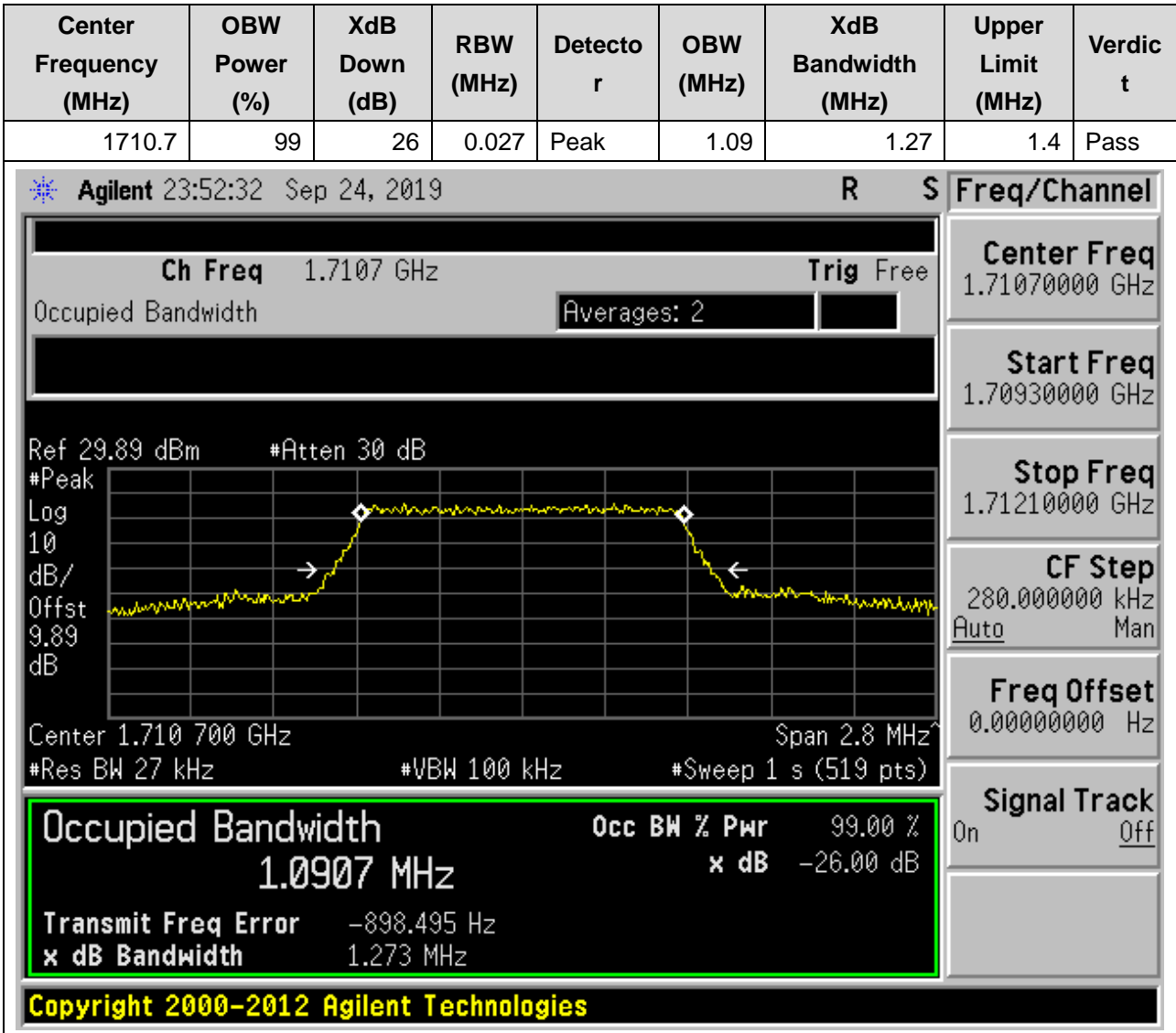
**Signal Track**  
On Off

## 18. LTE\_Band66

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



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



**18.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:132322, 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
1745	99	26	0.027	Peak	1.09	1.27	1.4	Pass

Agilent 23:52:44 Sep 24, 2019 R S

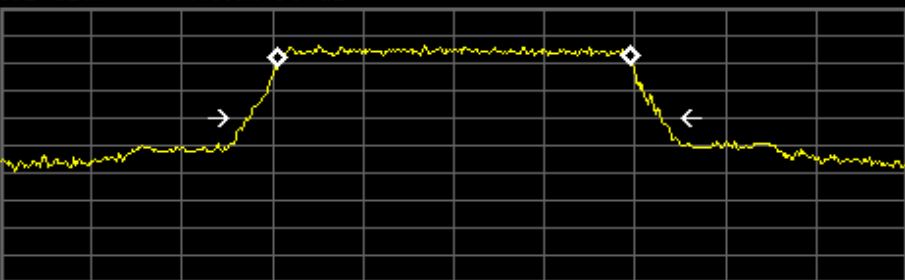
**Ch Freq** 1.745 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 29.91 dBm #Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
9.91  
dB



Center 1.745 000 GHz Span 2.8 MHz

#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (519 pts)

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

**1.0906 MHz** **x dB** -26.00 dB

**Transmit Freq Error** 2.028 kHz

**x dB Bandwidth** 1.275 MHz

**Freq/Channel**

**Center Freq** 1.74500000 GHz

**Start Freq** 1.74360000 GHz

**Stop Freq** 1.74640000 GHz

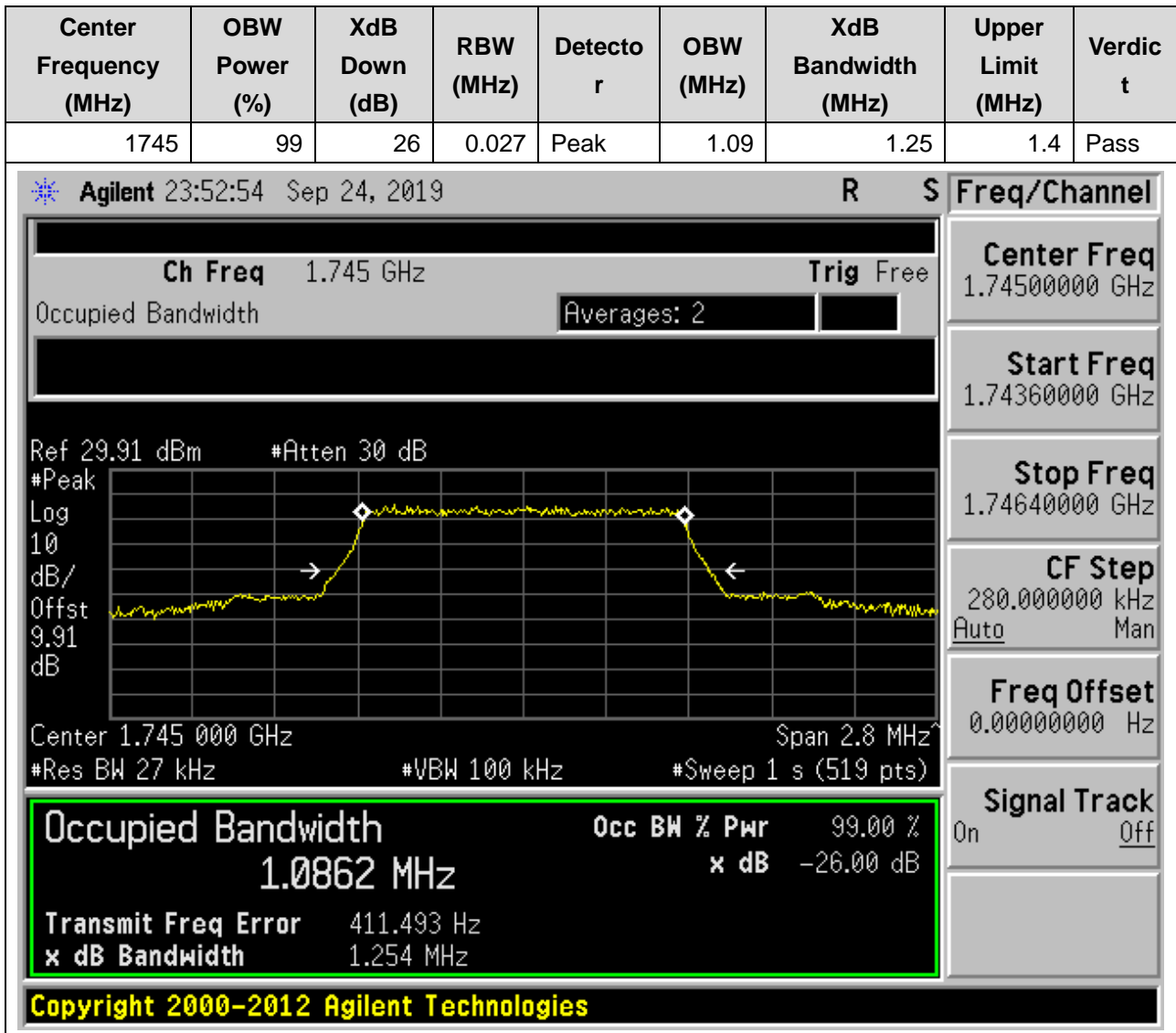
**CF Step** 280.000000 kHz  
Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

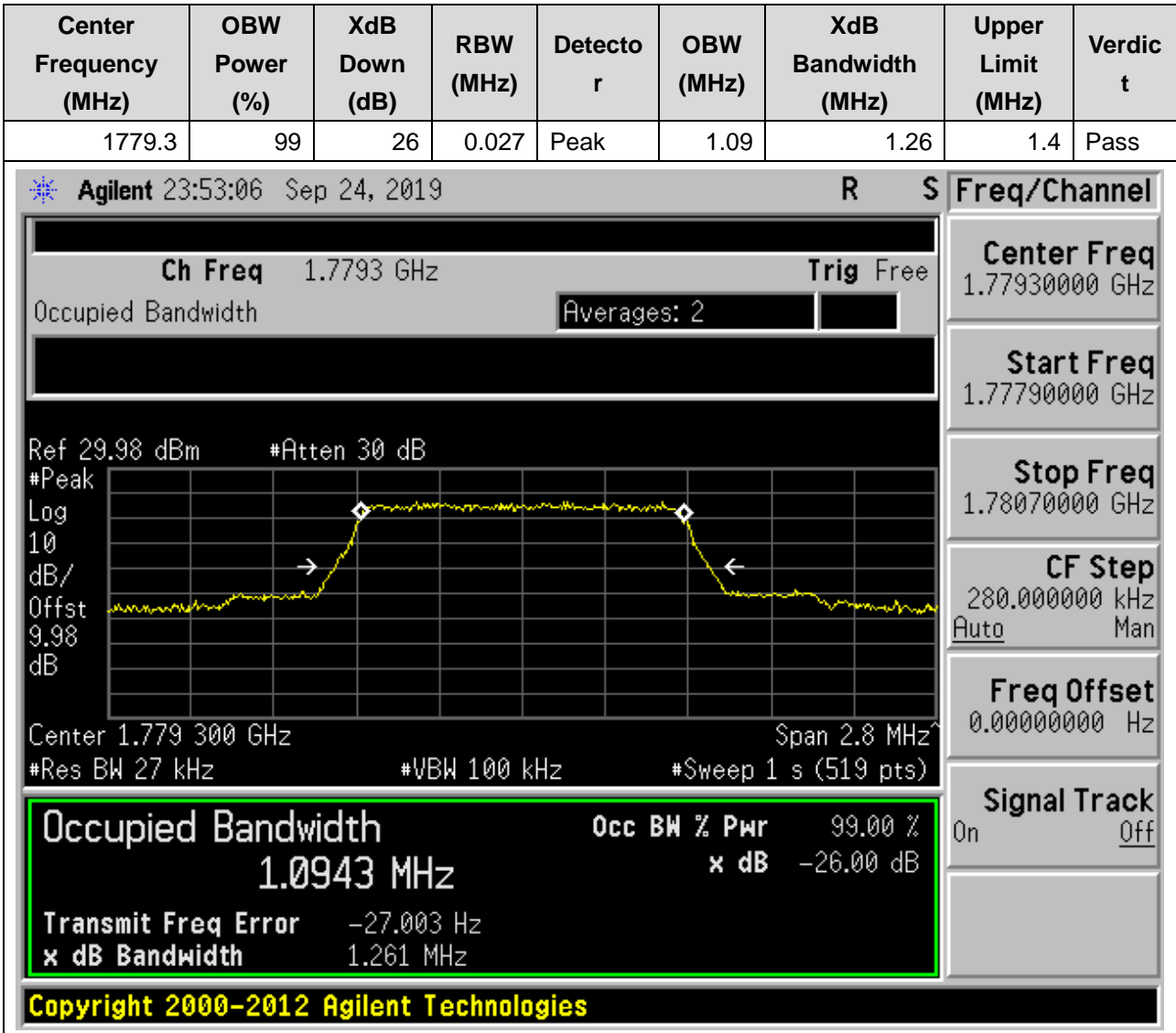
Copyright 2000-2012 Agilent Technologies

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

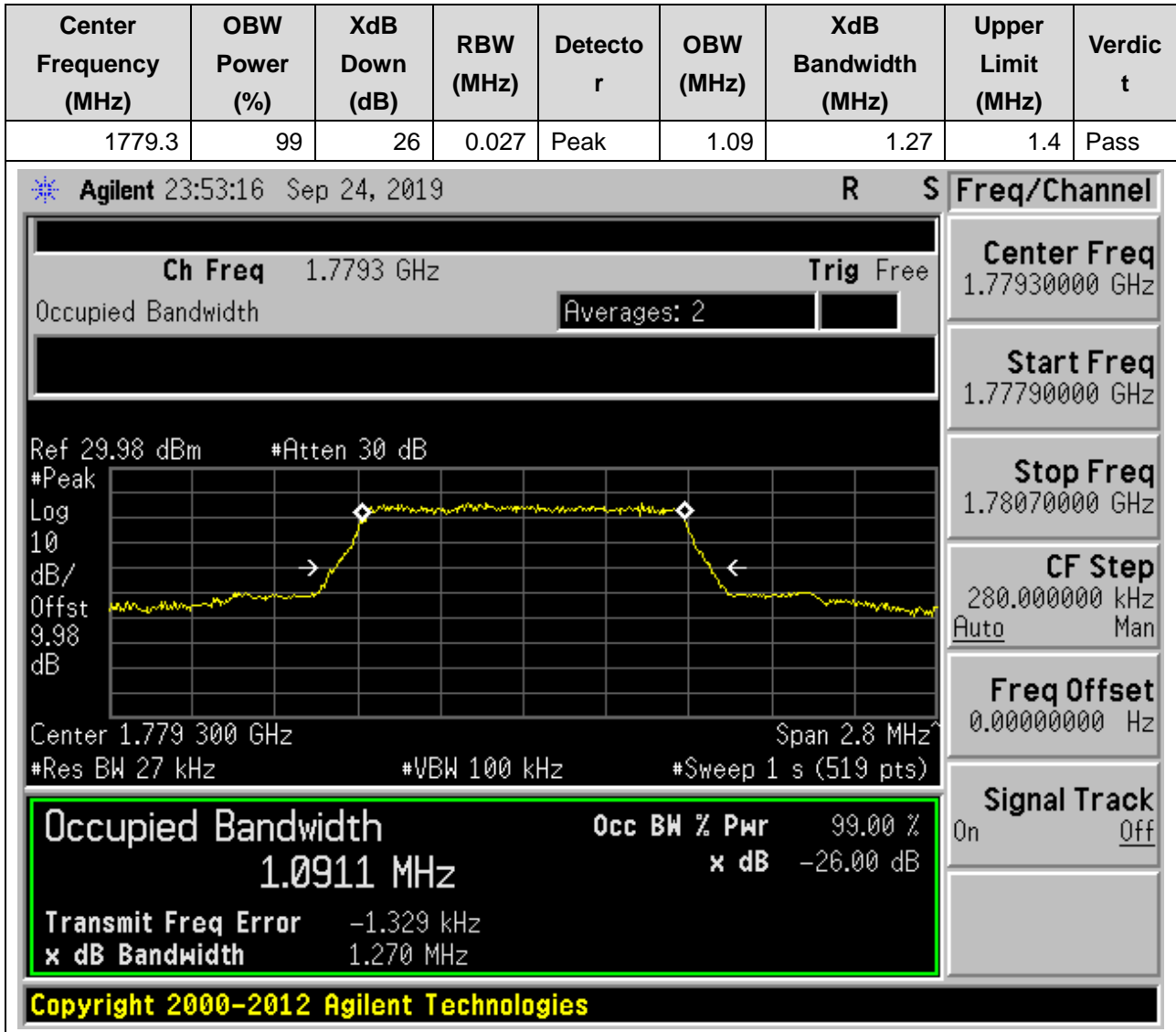




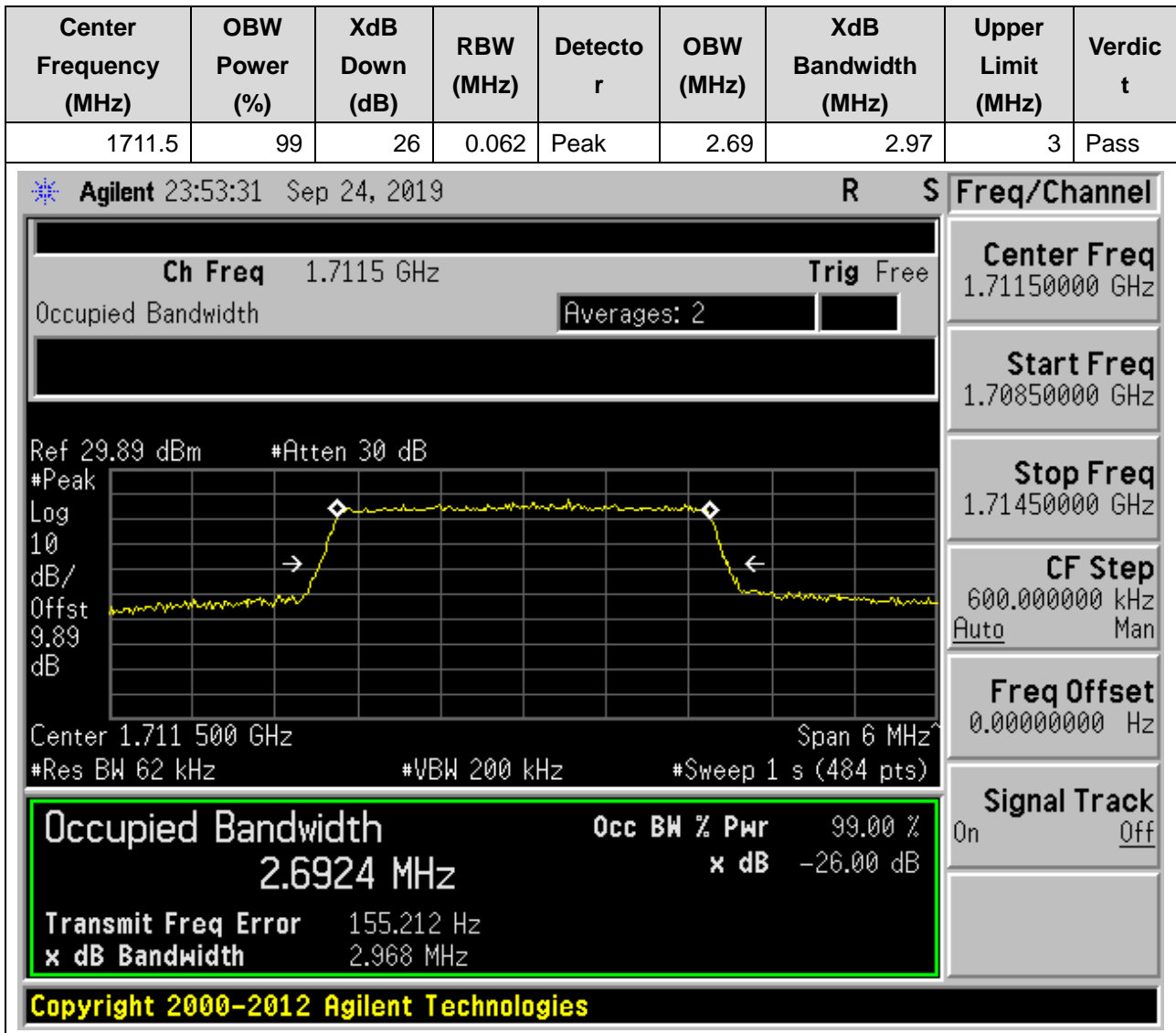
**18.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:132665, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**



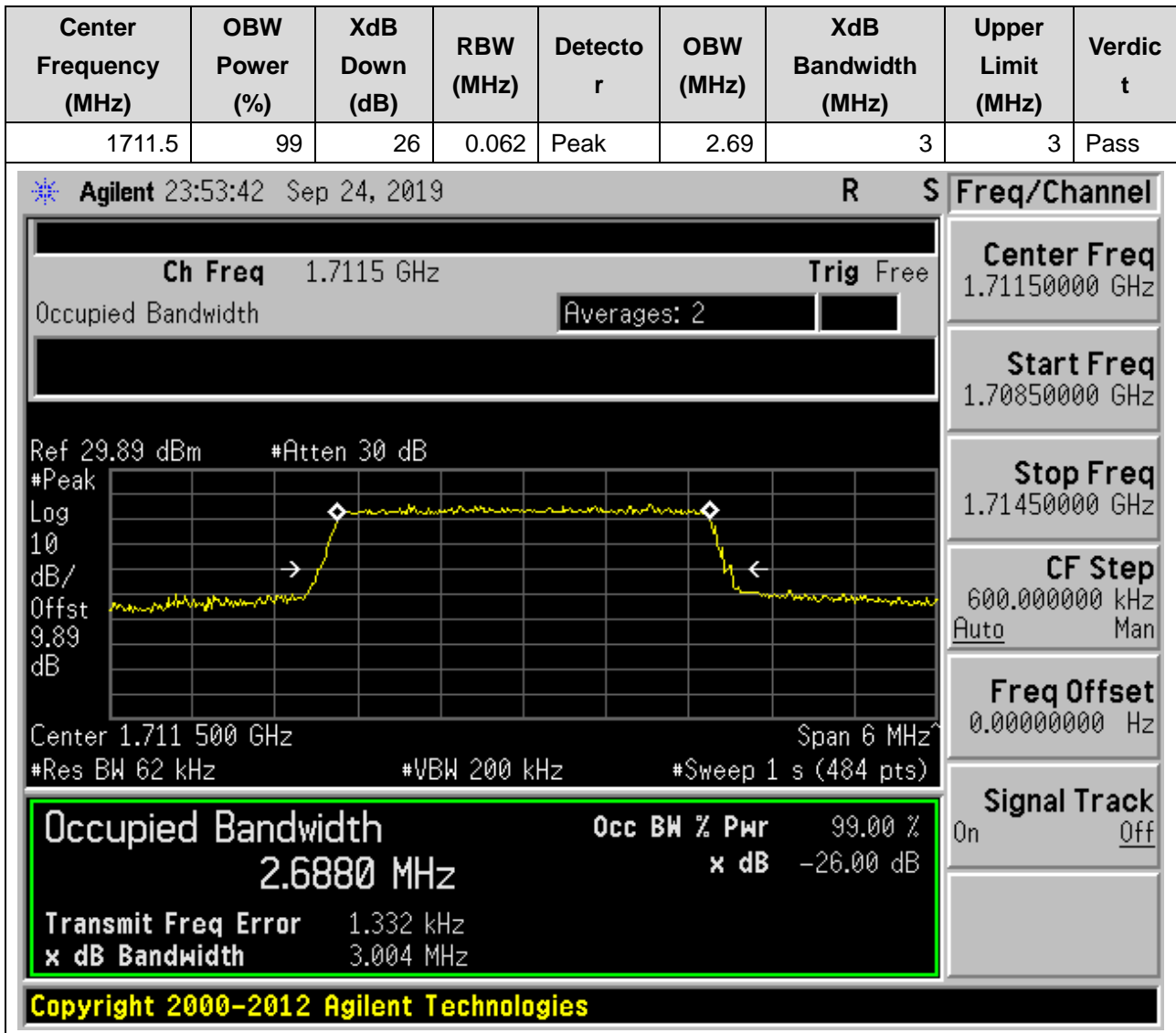
**18.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:132665, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**



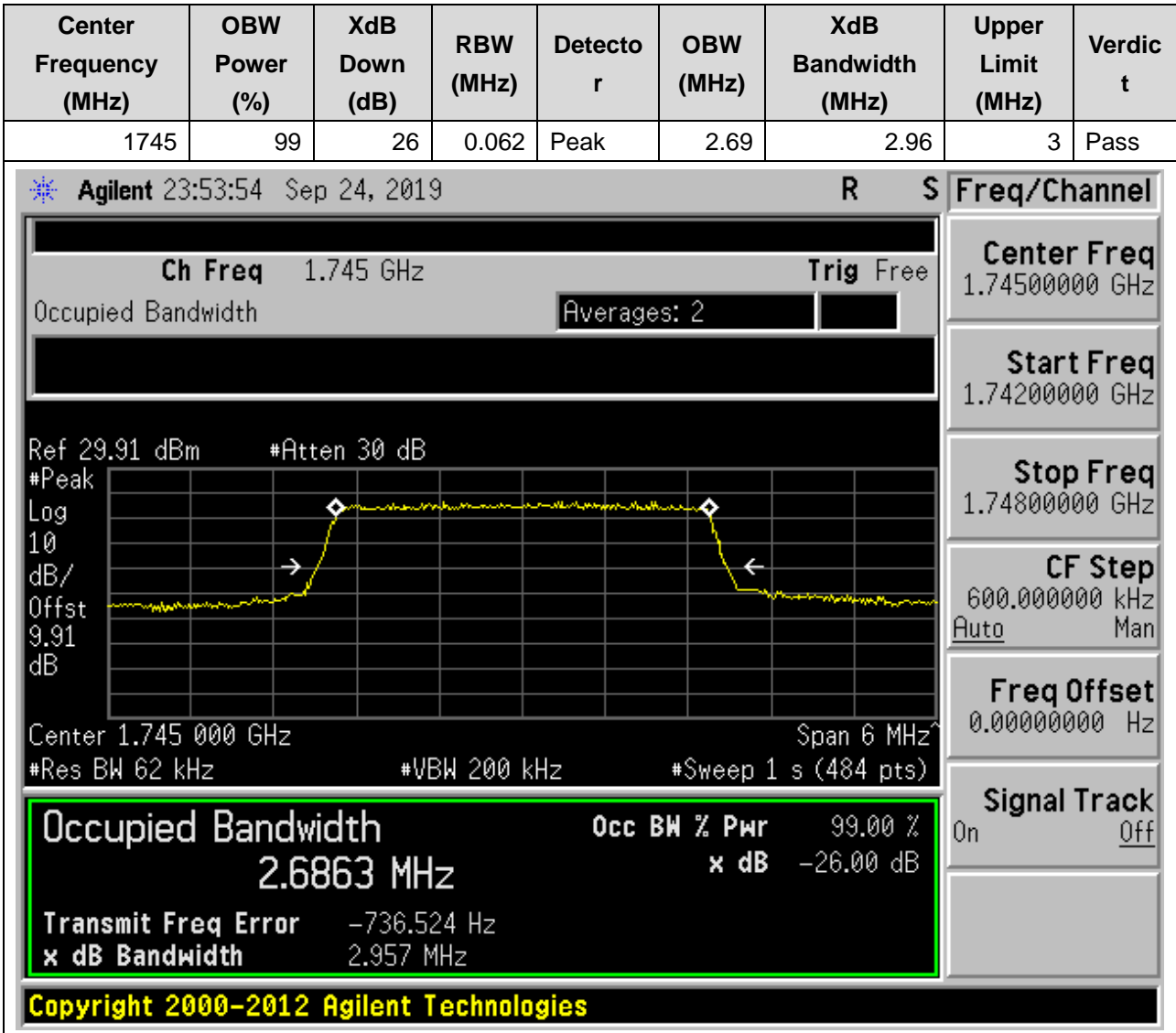
**18.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:131987, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



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

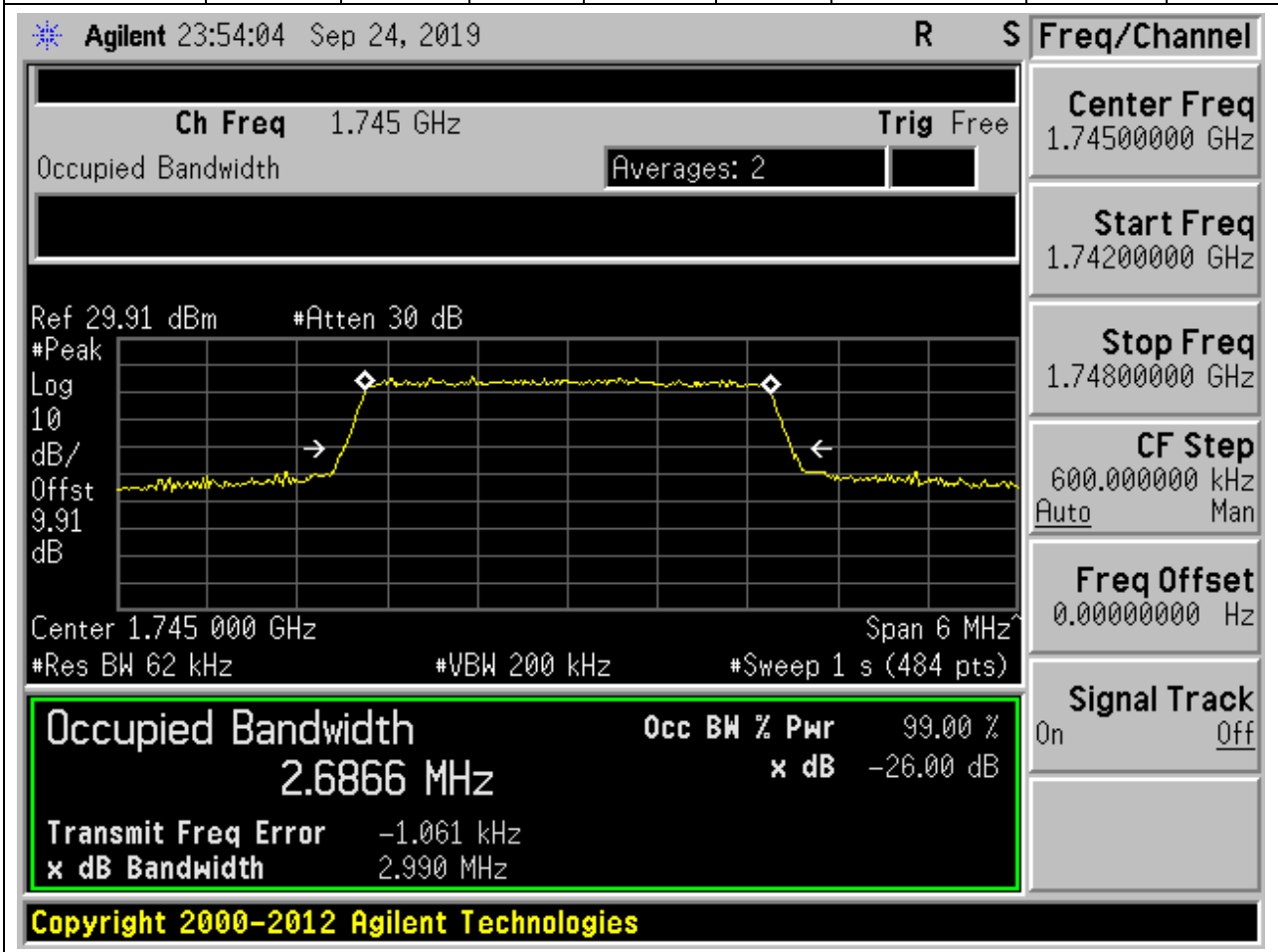


**18.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:132322, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

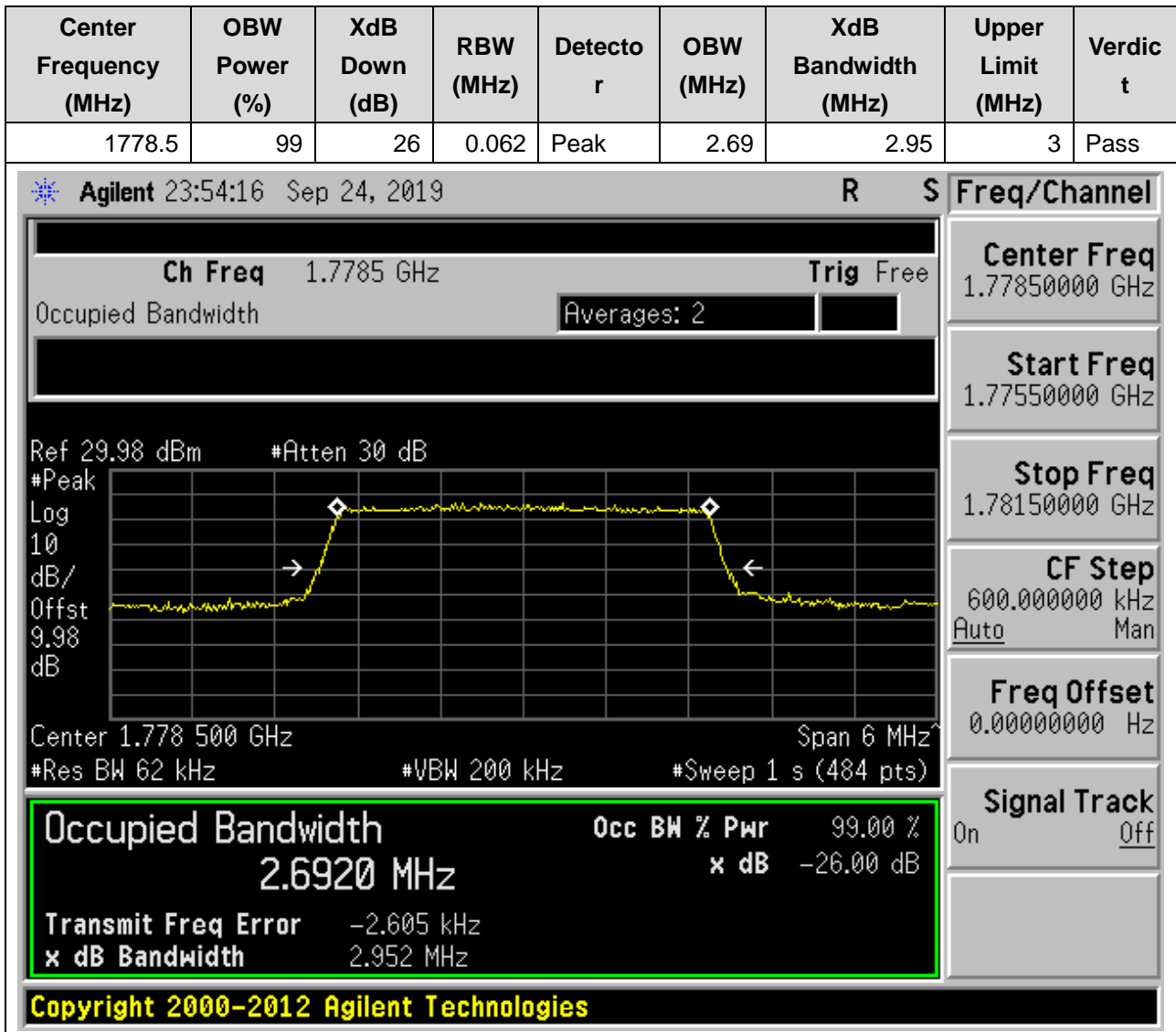


**18.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:132322, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

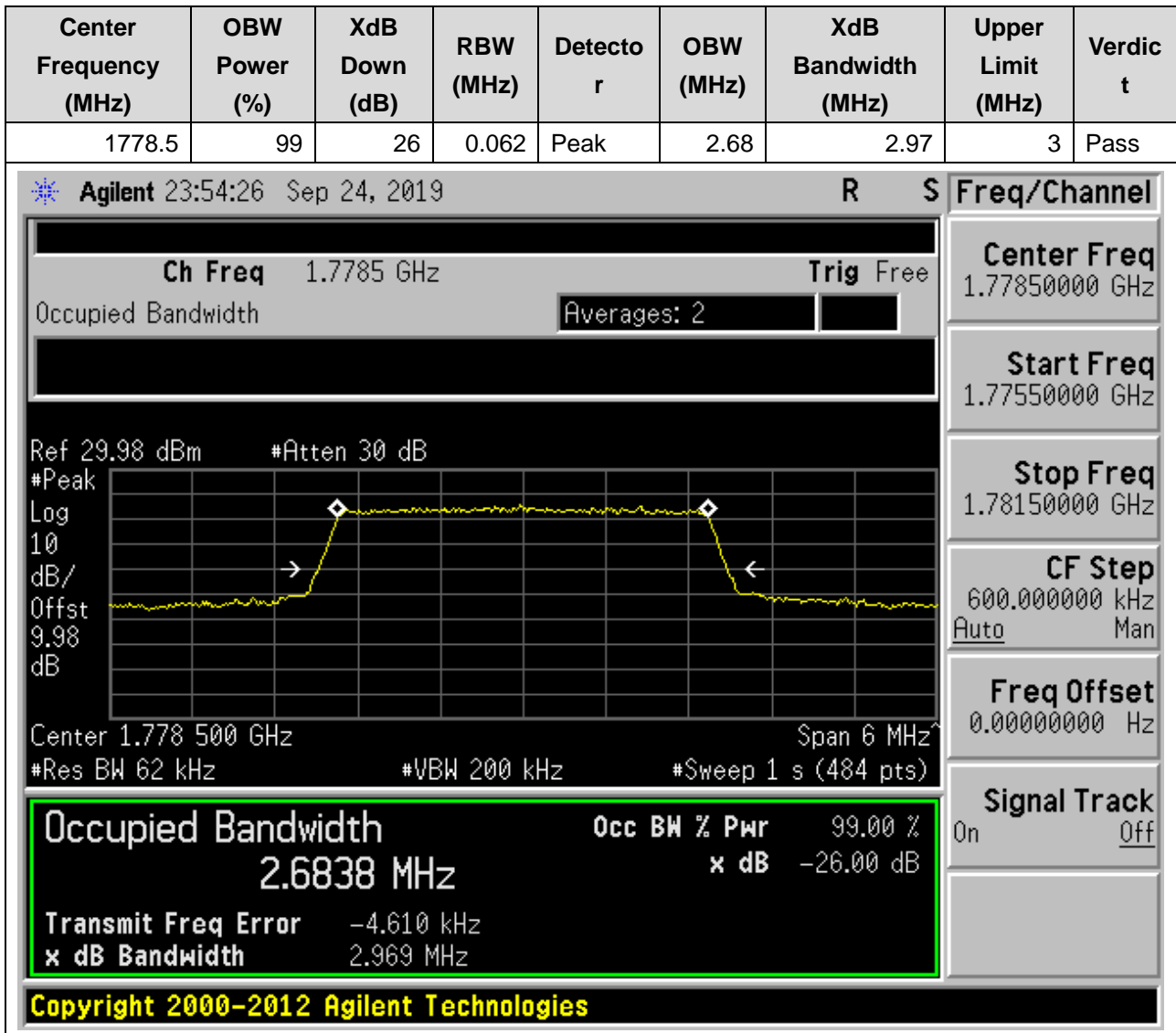
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.062	Peak	2.69	2.99	3	Pass



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



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





**18.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:131997, 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	4.51	4.89	5	Pass

Agilent 23:54:42 Sep 24, 2019 R S

**Ch Freq** 1.7125 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 29.89 dBm #Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
9.89  
dB

Center 1.712 500 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (501 pts)

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

**4.5054 MHz** **x dB** -26.00 dB

**Transmit Freq Error** 1.604 kHz

**x dB Bandwidth** 4.892 MHz

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**Freq/Channel**

**Center Freq**  
1.71250000 GHz

**Start Freq**  
1.70750000 GHz

**Stop Freq**  
1.71750000 GHz

**CF Step**  
1.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

**18.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:131997, 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	4.49	4.89	5	Pass

Agilent 23:54:52 Sep 24, 2019 R S

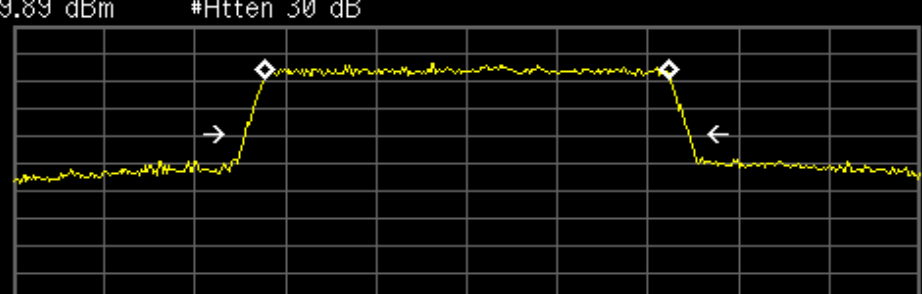
**Ch Freq** 1.7125 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 29.89 dBm #Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
9.89  
dB



Center 1.712 500 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (501 pts)

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

**4.4950 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -1.101 kHz

**x dB Bandwidth** 4.891 MHz

**Freq/Channel**

**Center Freq** 1.71250000 GHz

**Start Freq** 1.70750000 GHz

**Stop Freq** 1.71750000 GHz

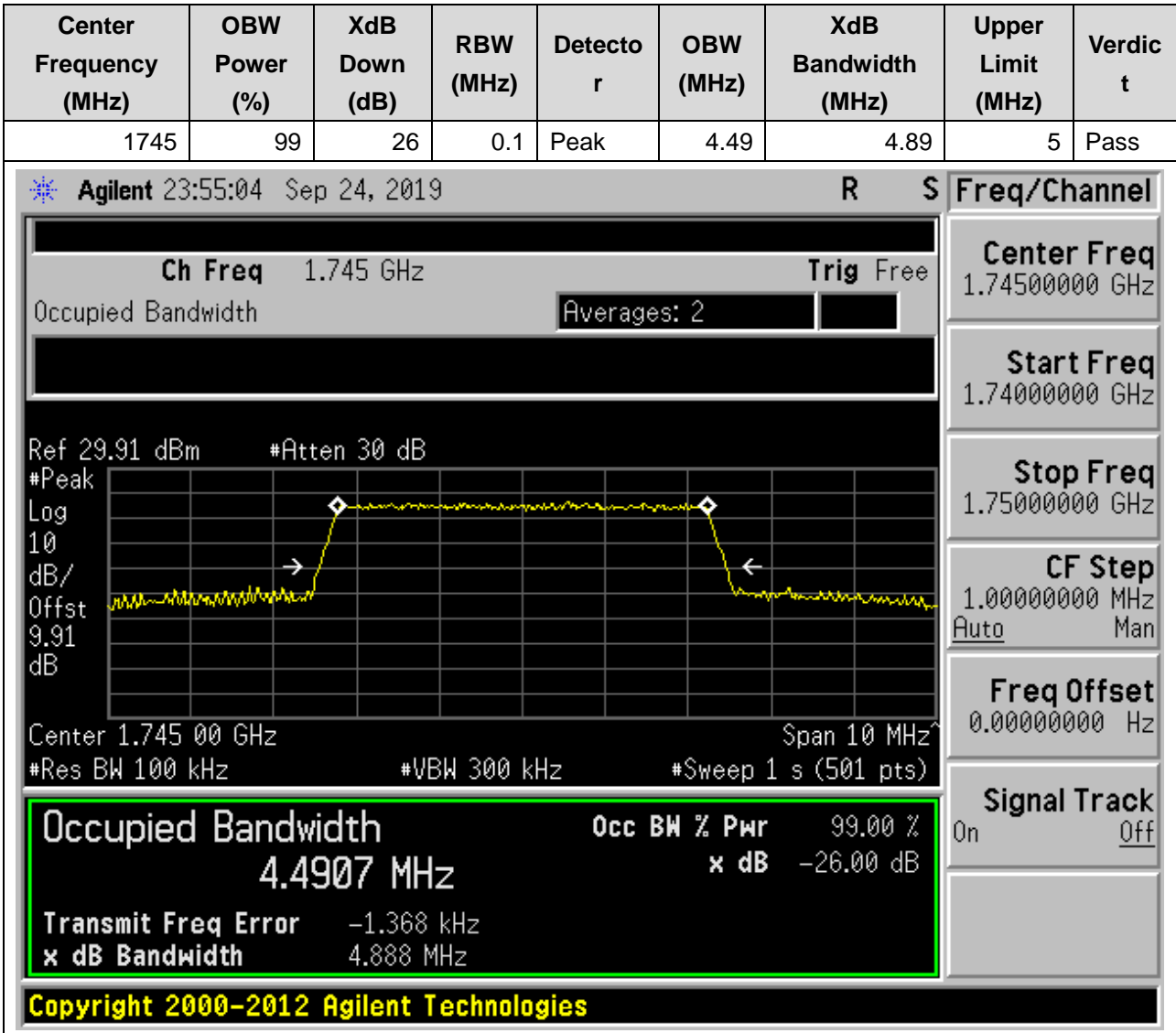
**CF Step** 1.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

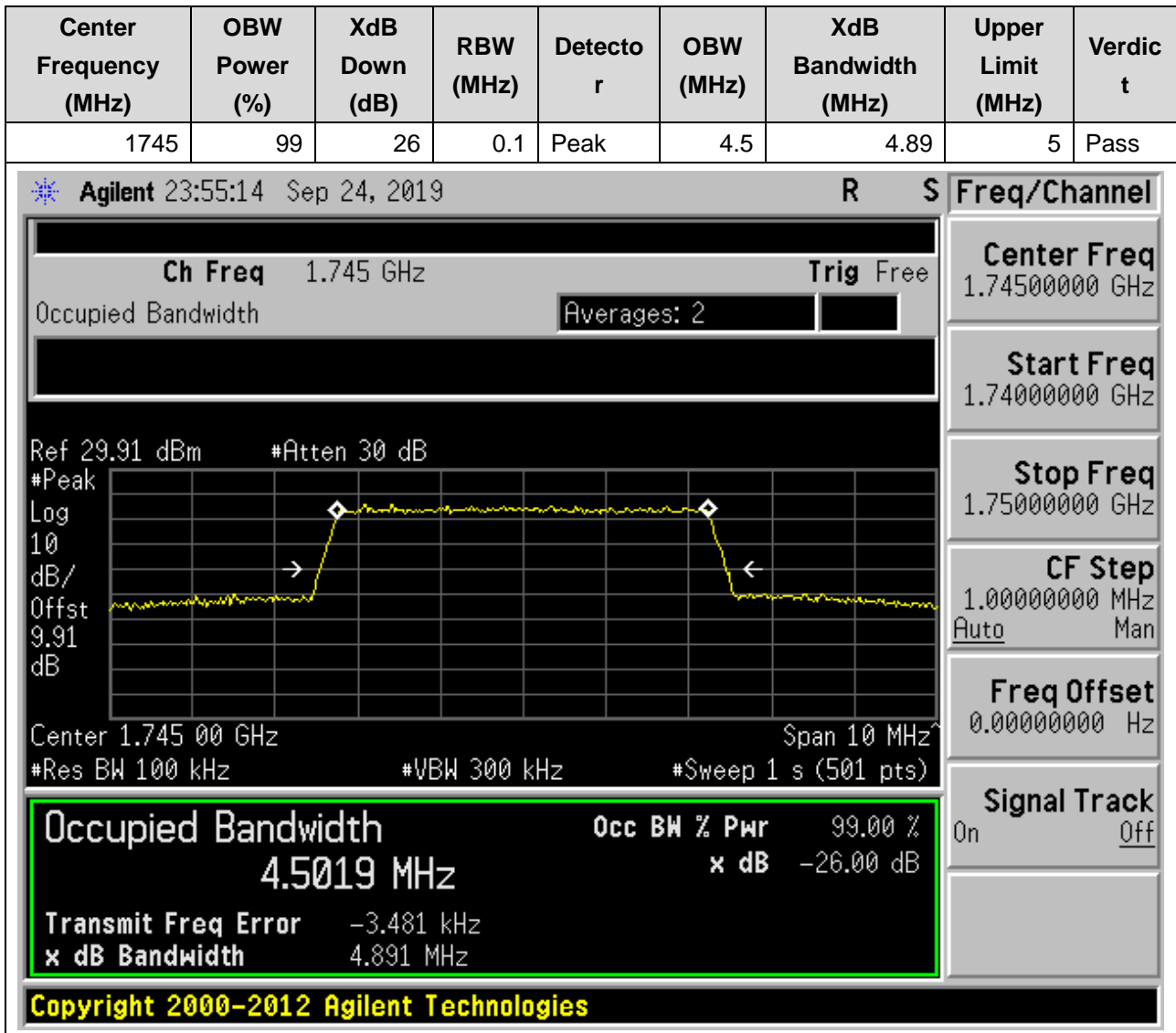
**Signal Track** On Off

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



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



**18.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:132647, 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
1777.5	99	26	0.1	Peak	4.49	4.86	5	Pass

Agilent 23:55:26 Sep 24, 2019 R S

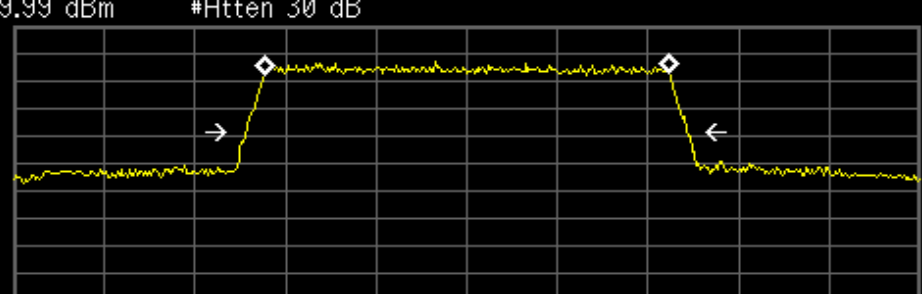
**Ch Freq** 1.7775 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 29.99 dBm #Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
9.99  
dB



Center 1.777 50 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (501 pts)

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

**4.4908 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -650.603 Hz

**x dB Bandwidth** 4.858 MHz

**Freq/Channel**

**Center Freq** 1.77750000 GHz

**Start Freq** 1.77250000 GHz

**Stop Freq** 1.78250000 GHz

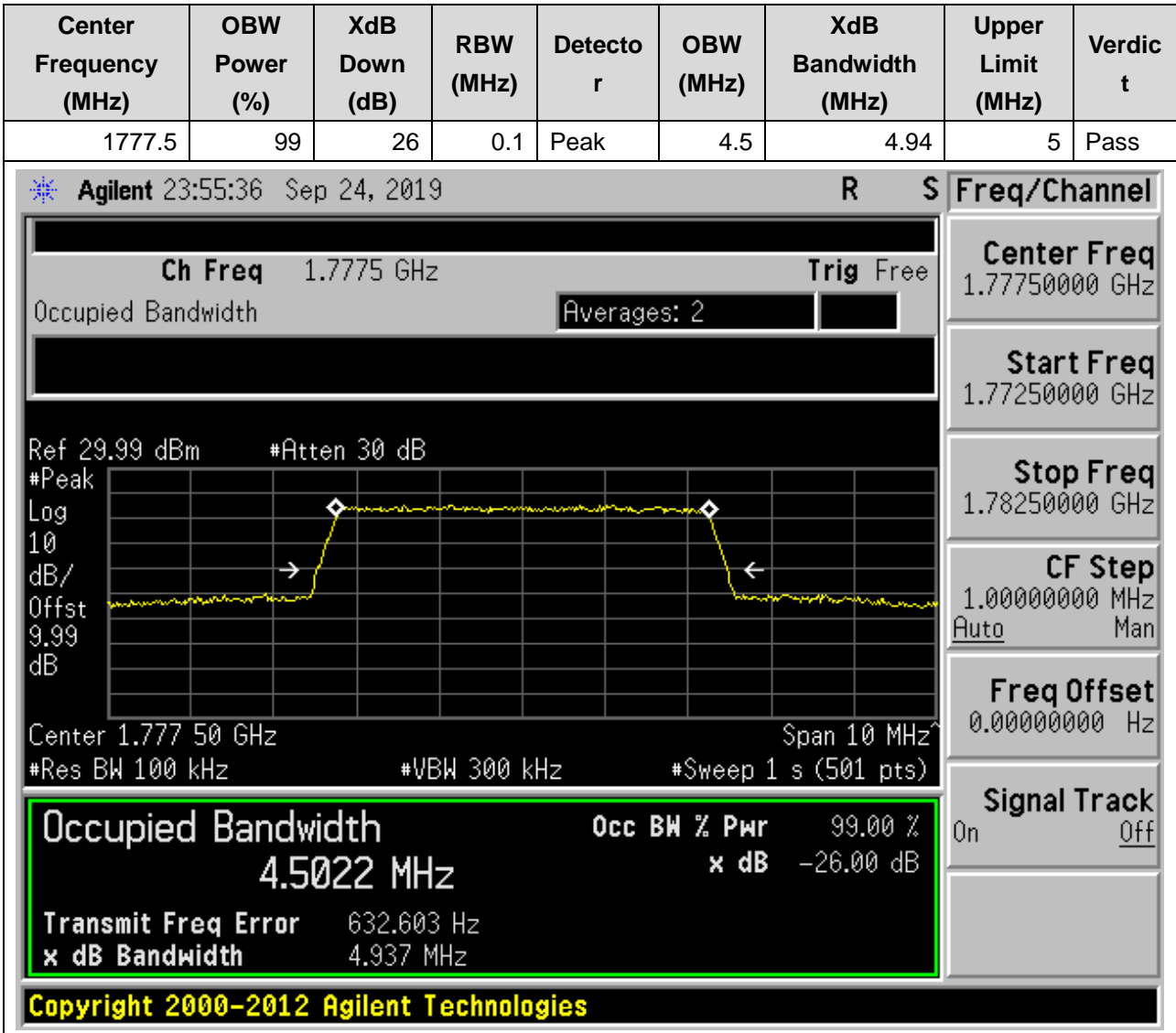
**CF Step** 1.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

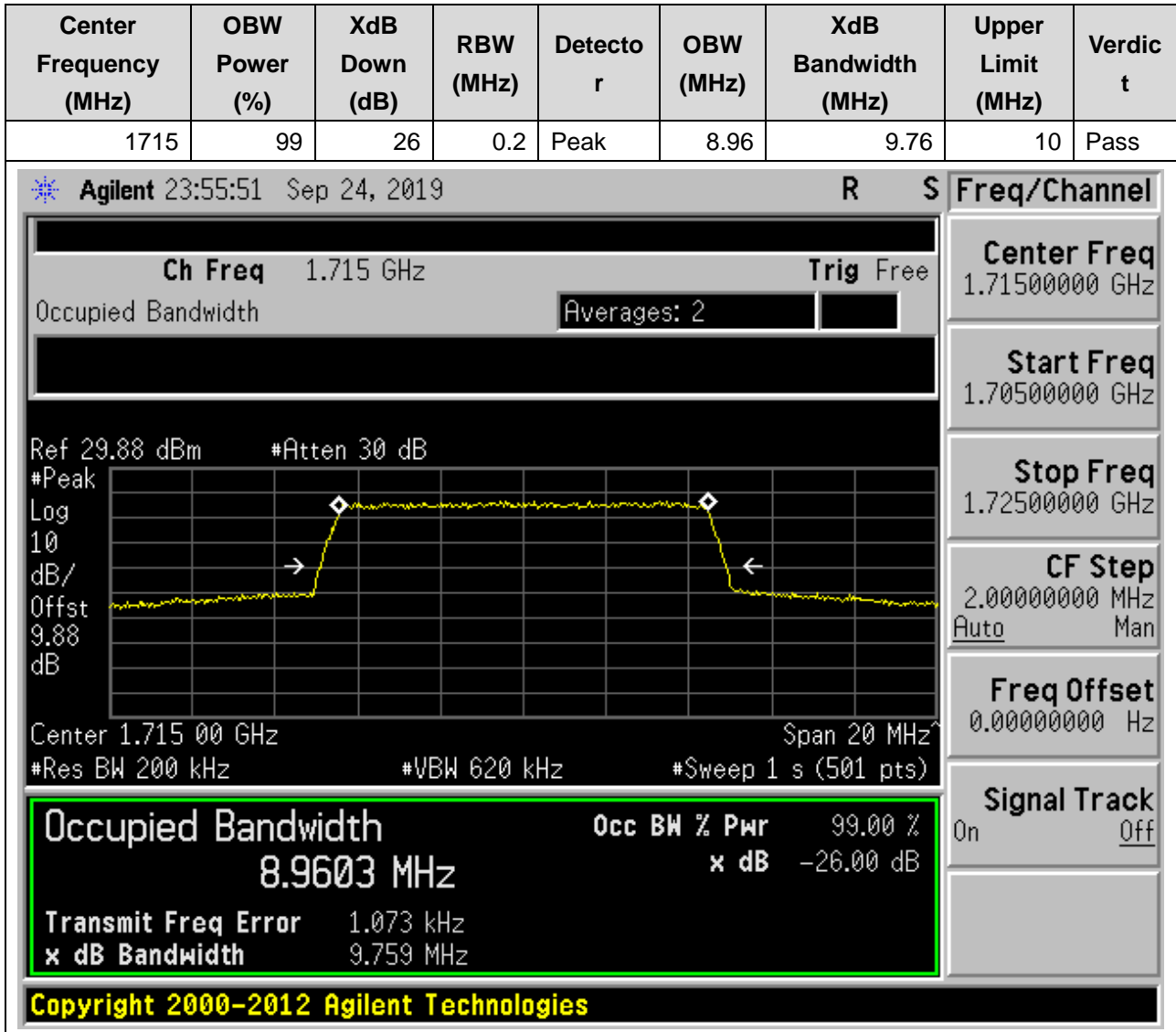
**Signal Track** On Off

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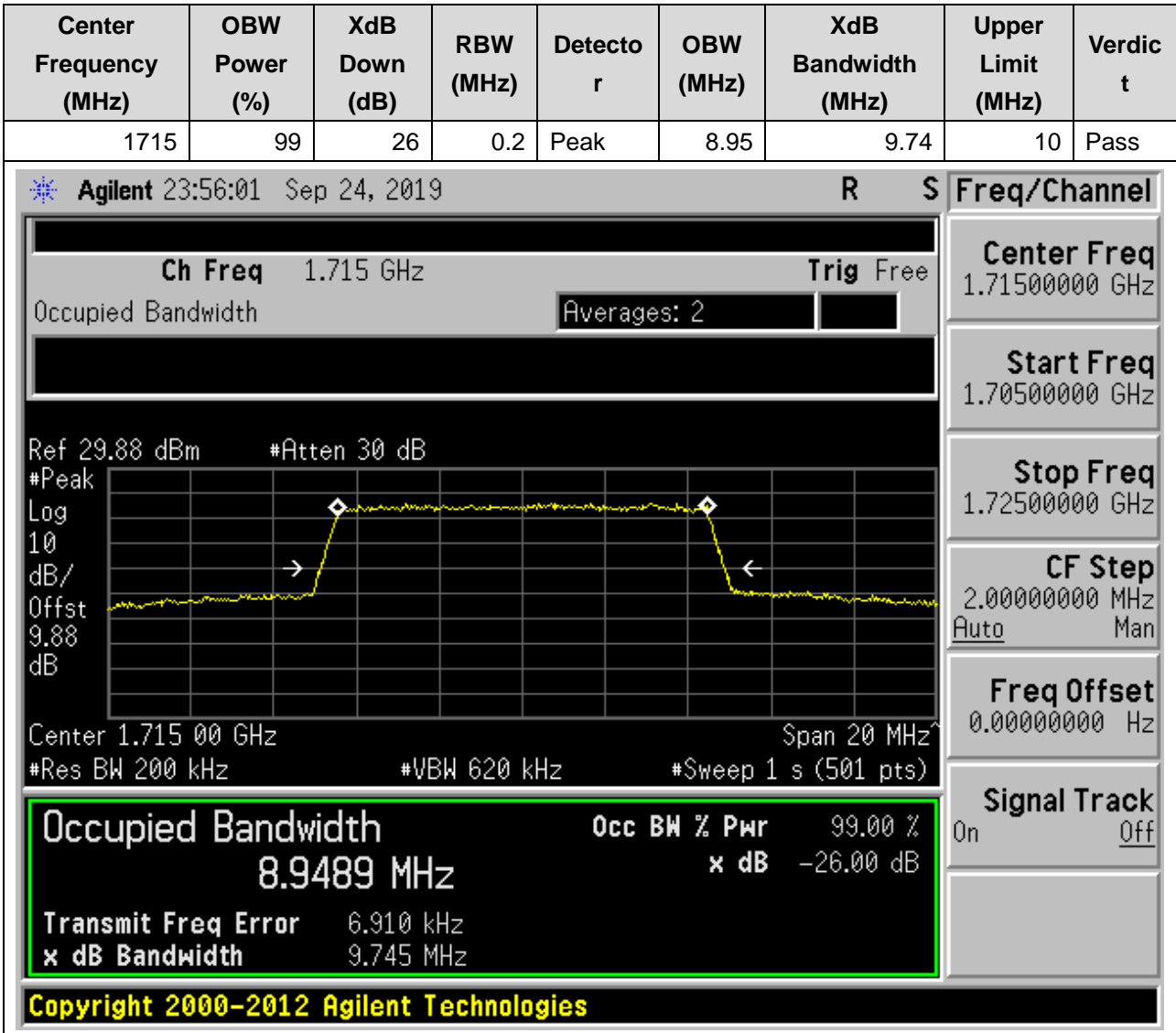
**18.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:132647, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



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

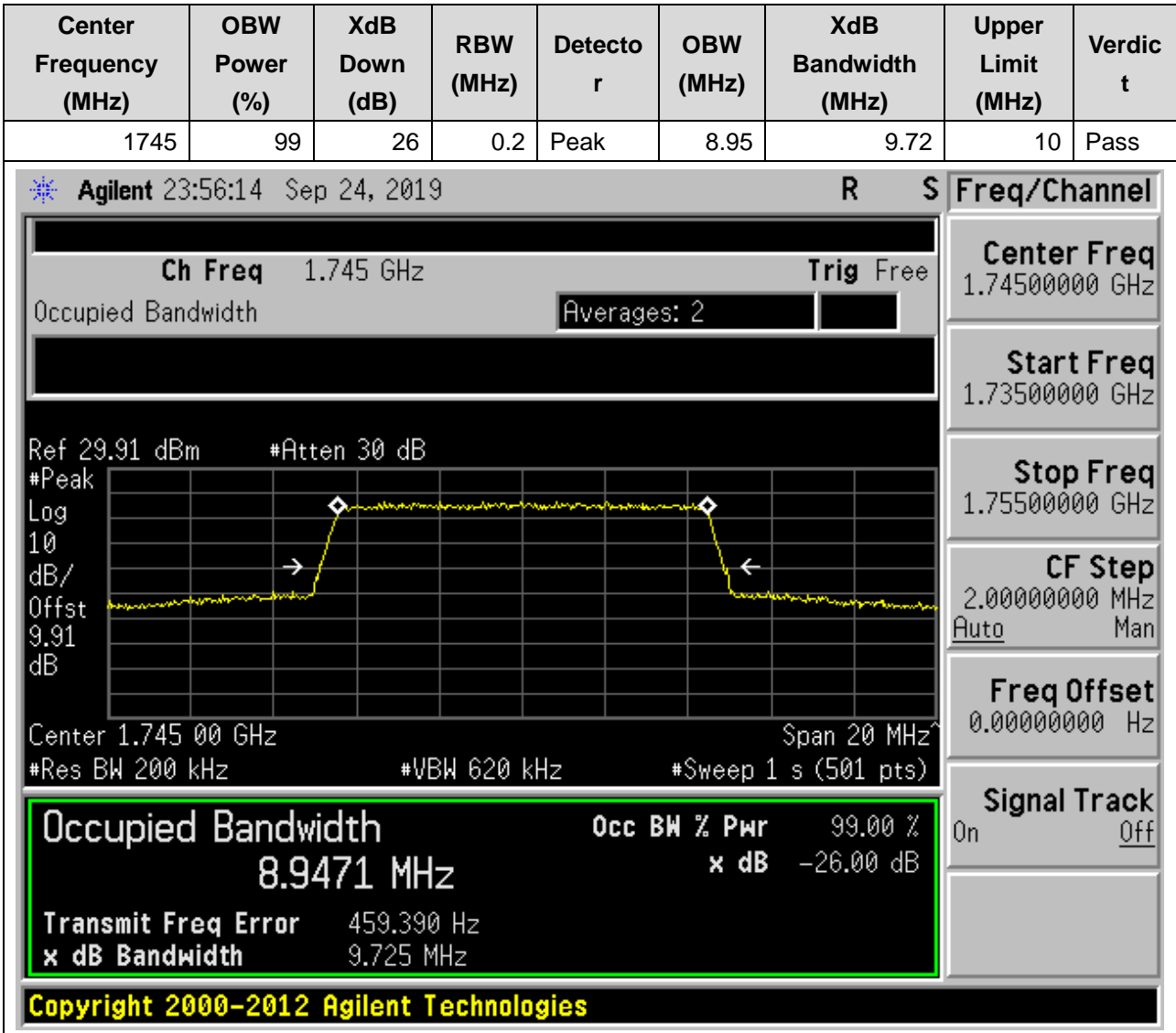


**18.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:132022, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**





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



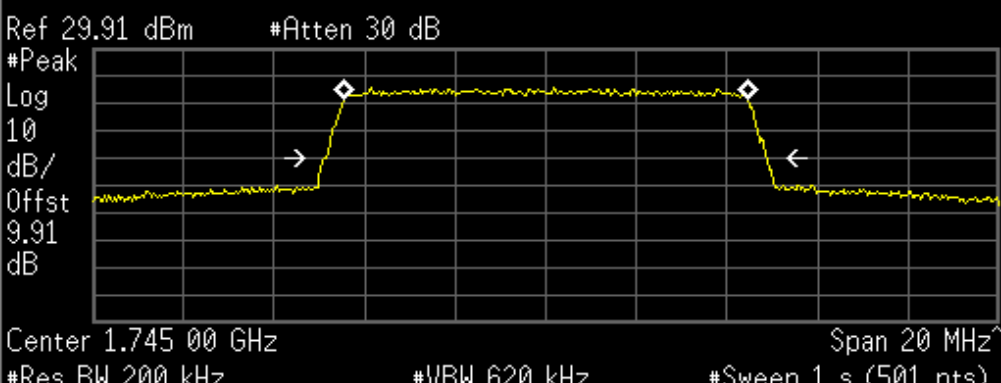
**18.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:132322, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.2	Peak	8.96	9.73	10	Pass

Agilent 23:56:24 Sep 24, 2019 R S

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

Occupied Bandwidth Averages: 2



Ref 29.91 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 9.91 dB

Center 1.745 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
8.9573 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> -1.170 kHz	
<b>x dB Bandwidth</b> 9.735 MHz	

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**Freq/Channel**

**Center Freq** 1.74500000 GHz

**Start Freq** 1.73500000 GHz

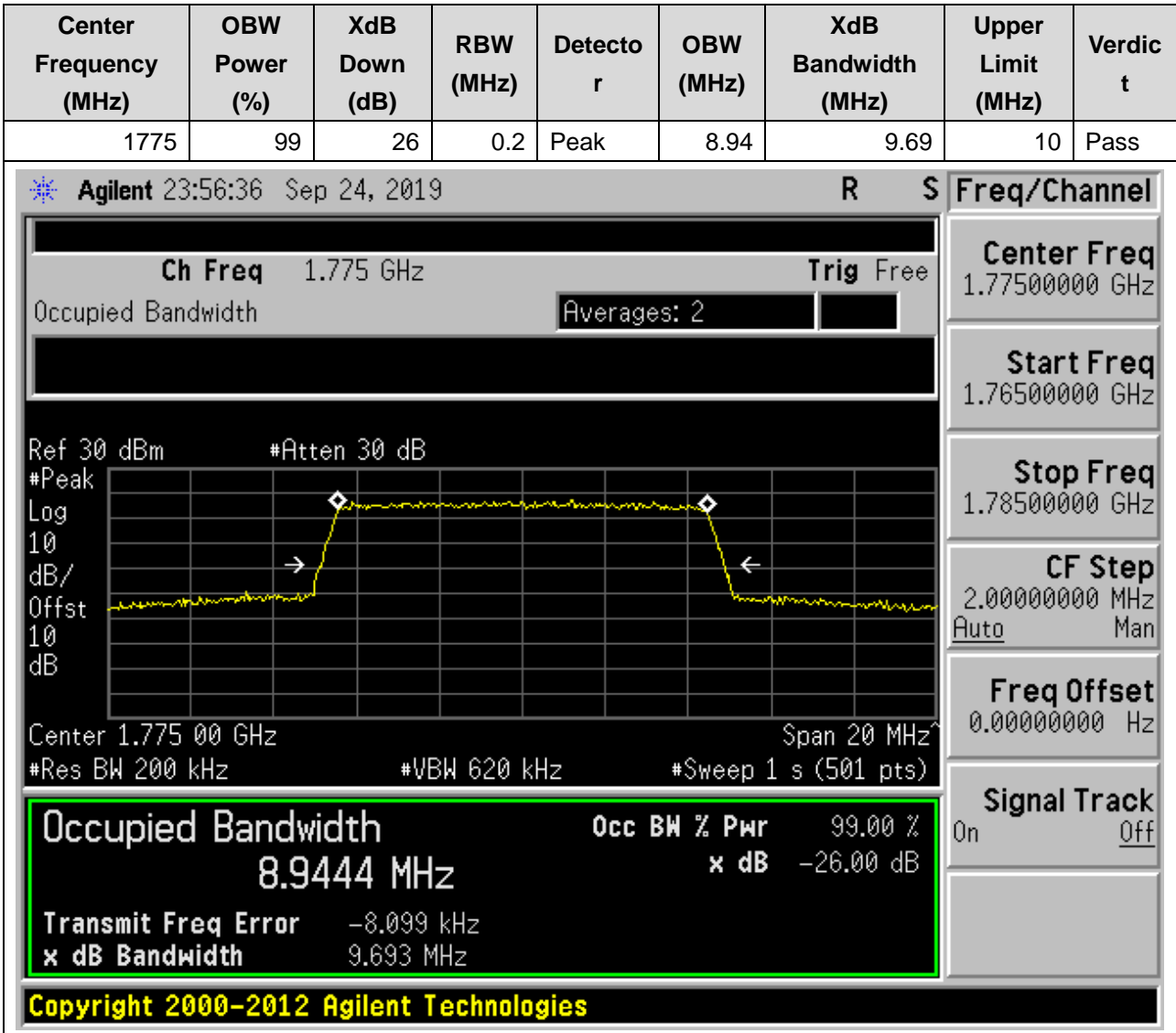
**Stop Freq** 1.75500000 GHz

**CF Step** 2.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

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



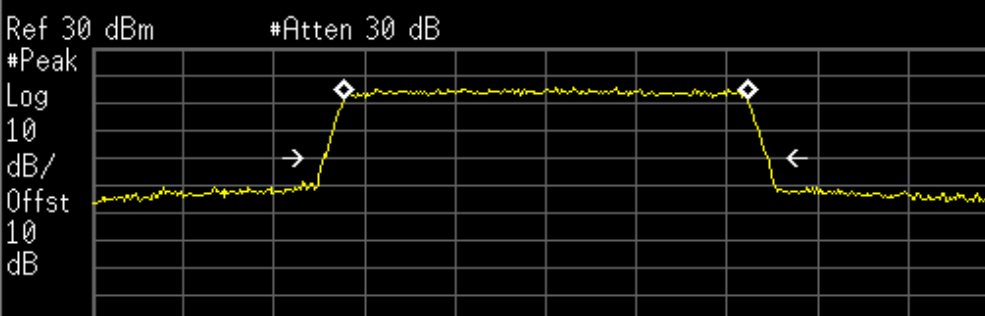
**18.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:132622, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1775	99	26	0.2	Peak	8.95	9.8	10	Pass

**Agilent** 23:56:46 Sep 24, 2019 R S

**Ch Freq** 1.775 GHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10 dB

Center 1.775 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>8.9487 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-10.853 kHz	
<b>x dB Bandwidth</b>	9.803 MHz	

**Freq/Channel**

**Center Freq** 1.77500000 GHz

**Start Freq** 1.76500000 GHz

**Stop Freq** 1.78500000 GHz

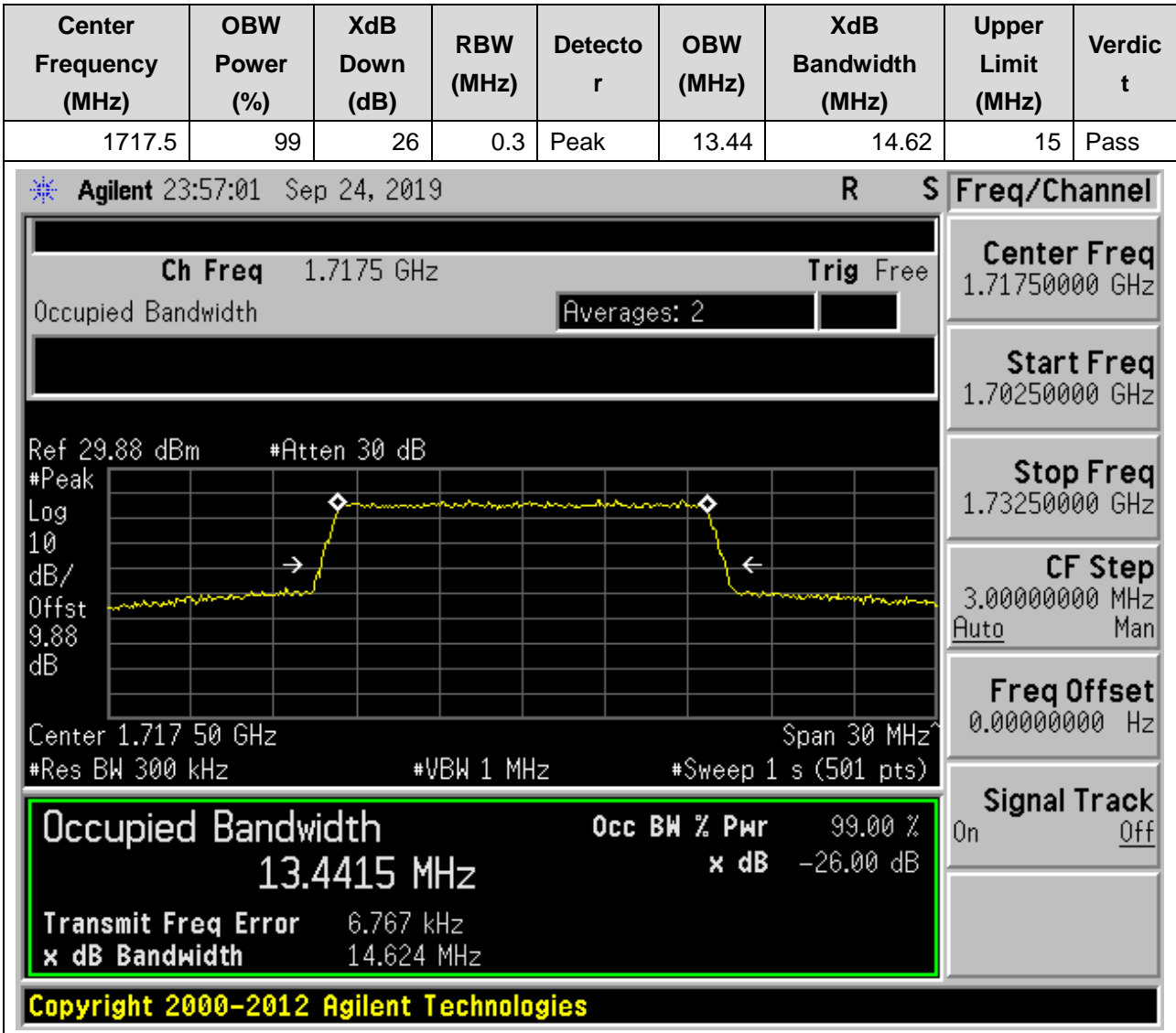
**CF Step** 2.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

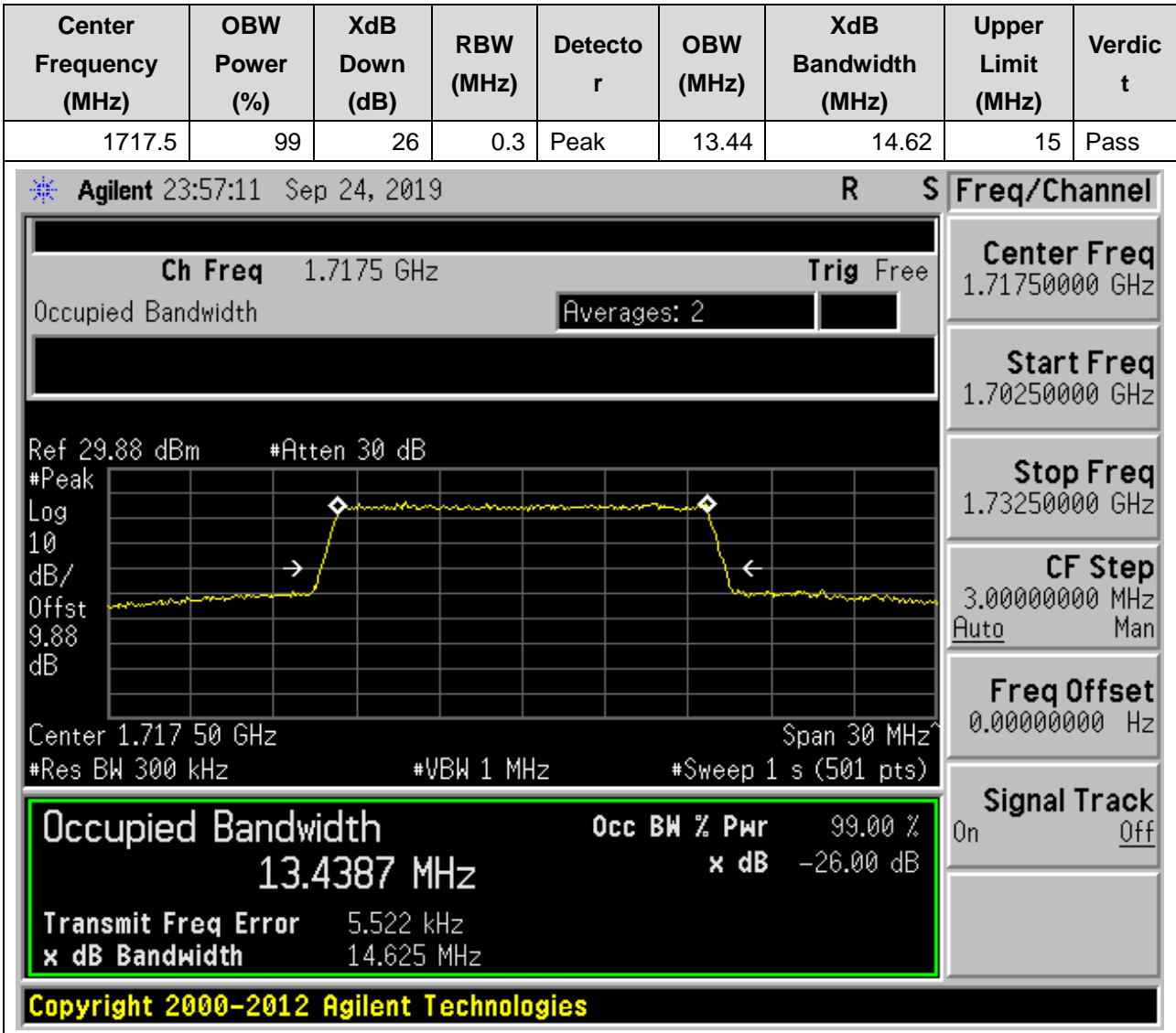
**Signal Track** On Off

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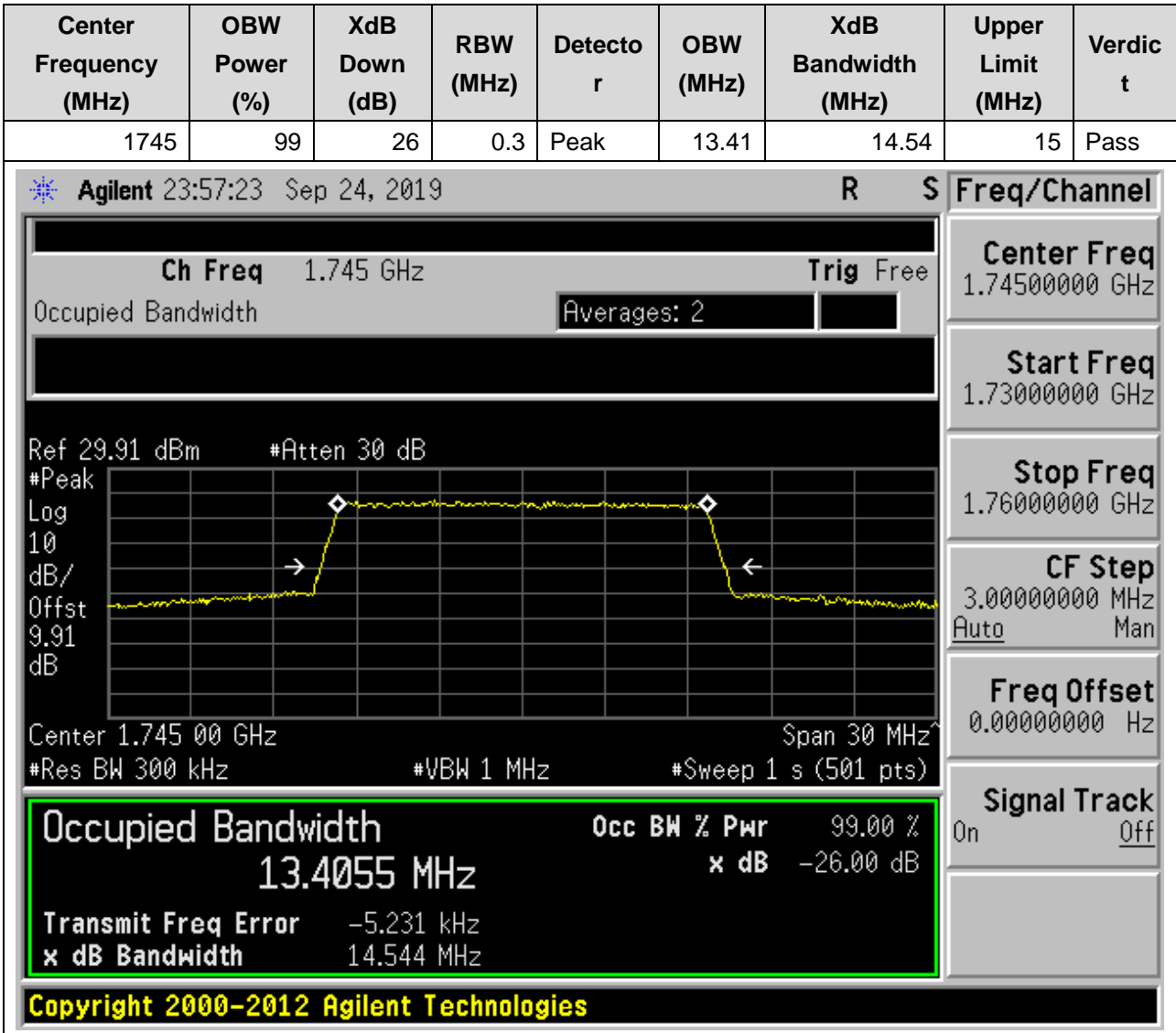
**18.25. LTE Occupied Bandwidth(NTNV)(Subtest:25, Channel:132047, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



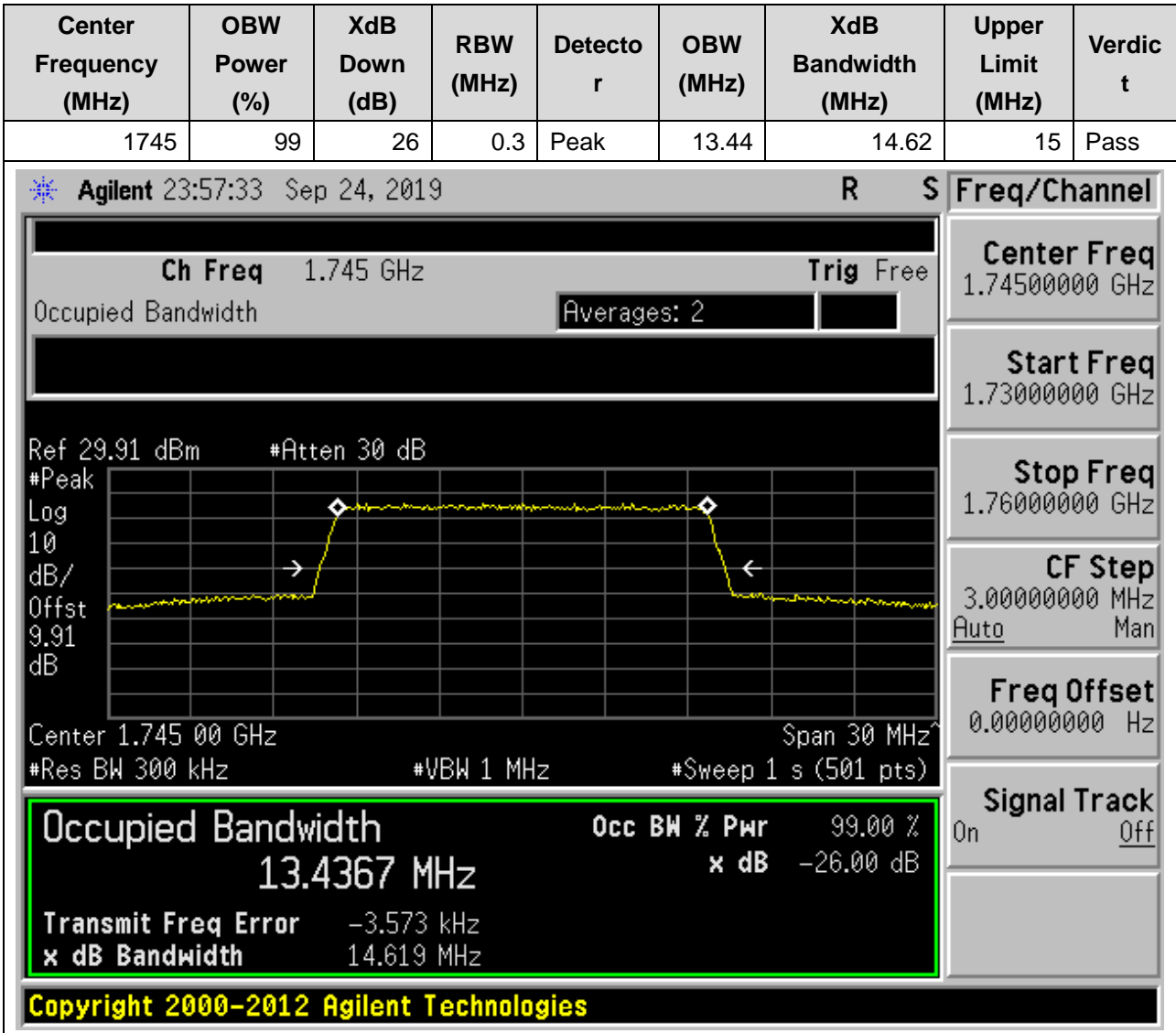
**18.26. LTE Occupied Bandwidth(NTNV)(Subtest:26, Channel:132047, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



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

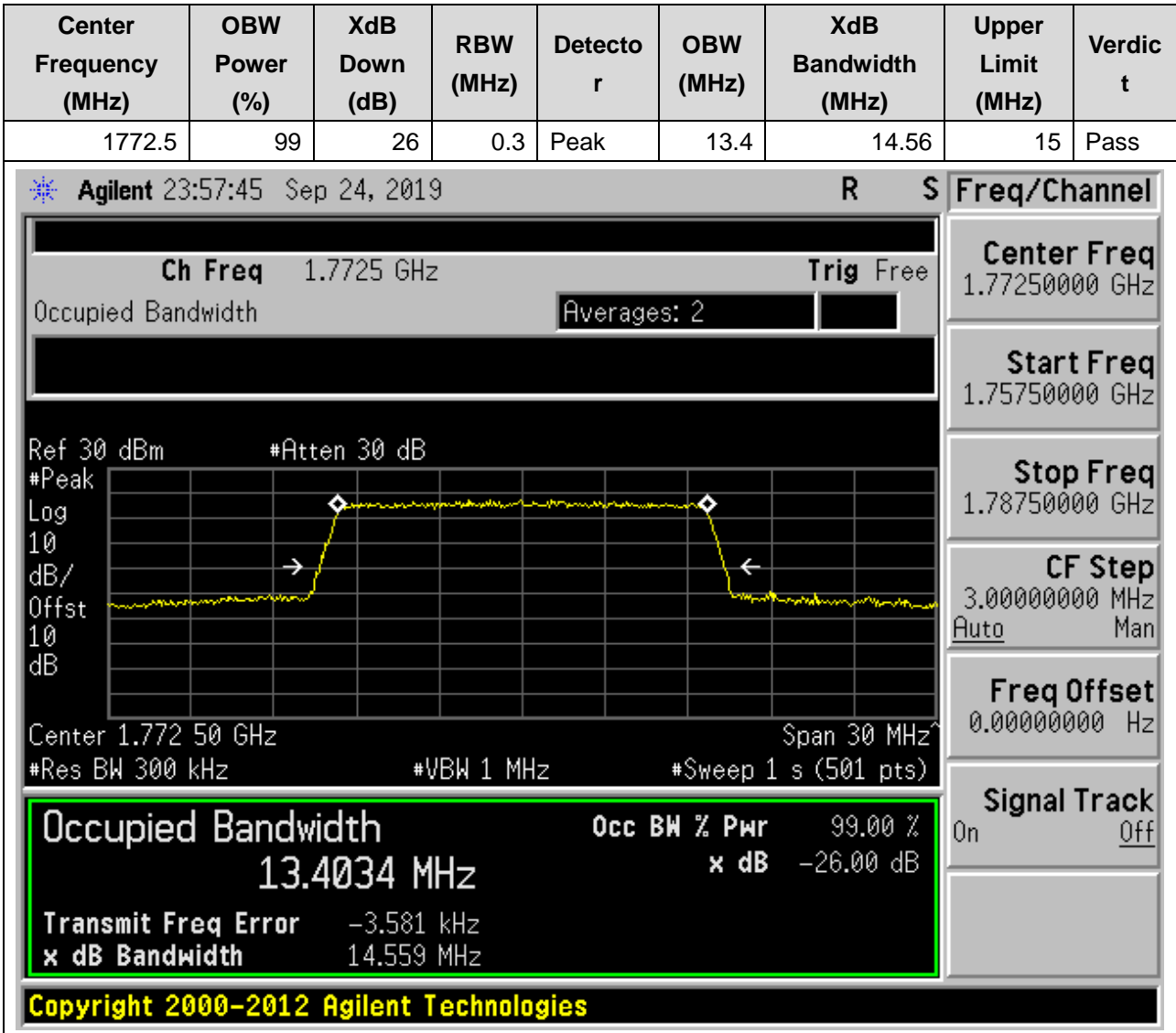


**18.28. LTE Occupied Bandwidth(NTNV)(Subtest:28, Channel:132322, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**





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



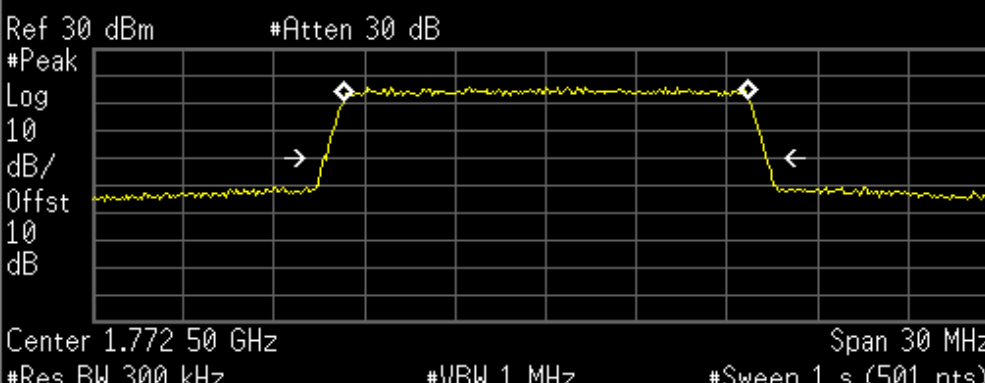
**18.30. LTE Occupied Bandwidth(NTNV)(Subtest:30, Channel:132597, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1772.5	99	26	0.3	Peak	13.44	14.56	15	Pass

Agilent 23:57:55 Sep 24, 2019 R S

**Ch Freq** 1.7725 GHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10 dB

Center 1.772 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (501 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
13.4411 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> 2.536 kHz	
<b>x dB Bandwidth</b> 14.564 MHz	

**Freq/Channel**

**Center Freq** 1.77250000 GHz

**Start Freq** 1.75750000 GHz

**Stop Freq** 1.78750000 GHz

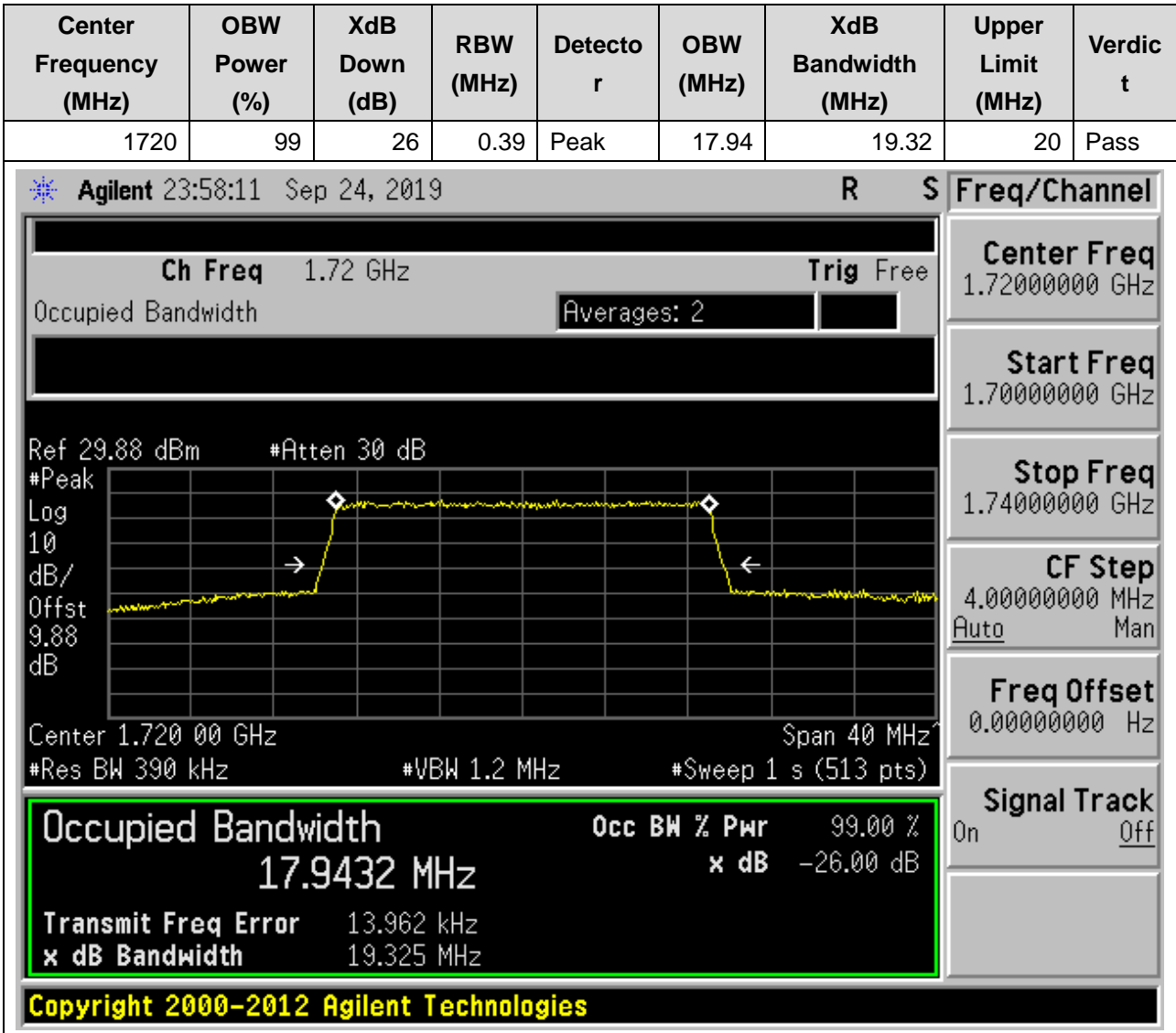
**CF Step** 3.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

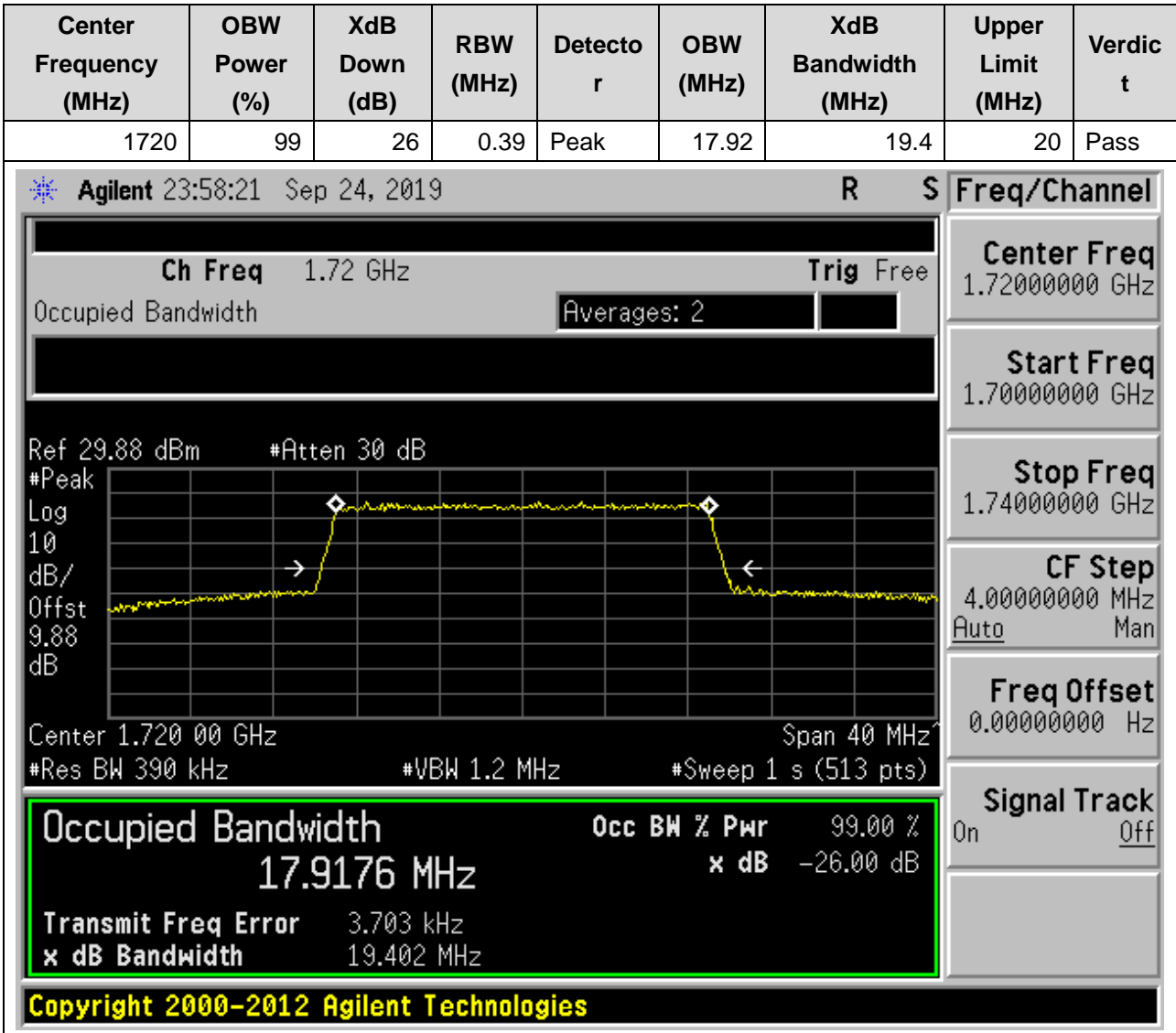
**Signal Track** On Off

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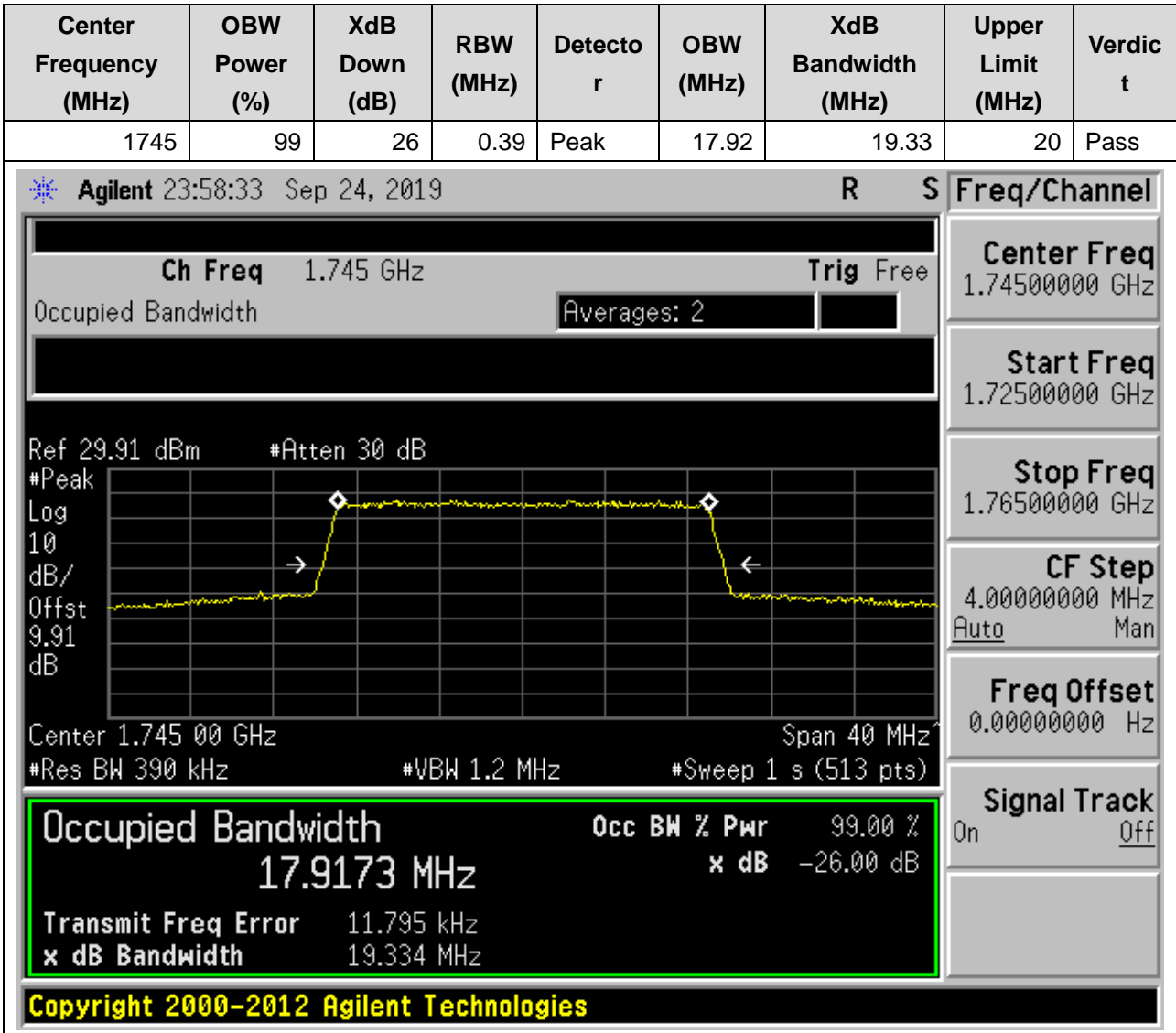
**18.31. LTE Occupied Bandwidth(NTNV)(Subtest:31, Channel:132072, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**



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



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



**18.34. LTE Occupied Bandwidth(NTNV)(Subtest:34, Channel:132322, 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	17.88	19.34	20	Pass

**Agilent** 23:58:43 Sep 24, 2019 R S

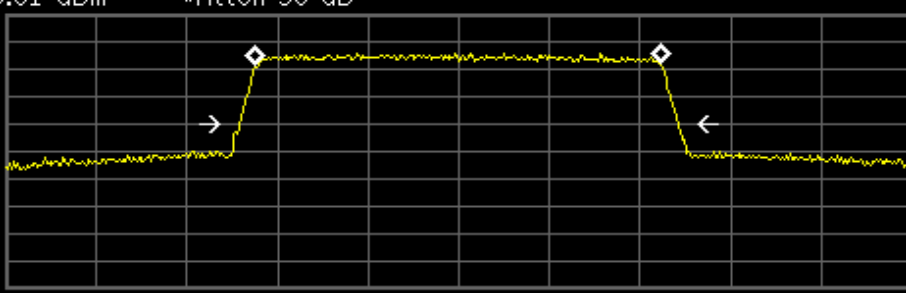
**Ch Freq** 1.745 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 29.91 dBm #Atten 30 dB

#Peak  
Log  
10  
dB/  
Offst  
9.91  
dB



Center 1.745 00 GHz Span 40 MHz

#Res BW 390 kHz #VBW 1.2 MHz #Sweep 1 s (513 pts)

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

**17.8764 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -20.548 kHz

**x dB Bandwidth** 19.345 MHz

**Freq/Channel**

**Center Freq** 1.74500000 GHz

**Start Freq** 1.72500000 GHz

**Stop Freq** 1.76500000 GHz

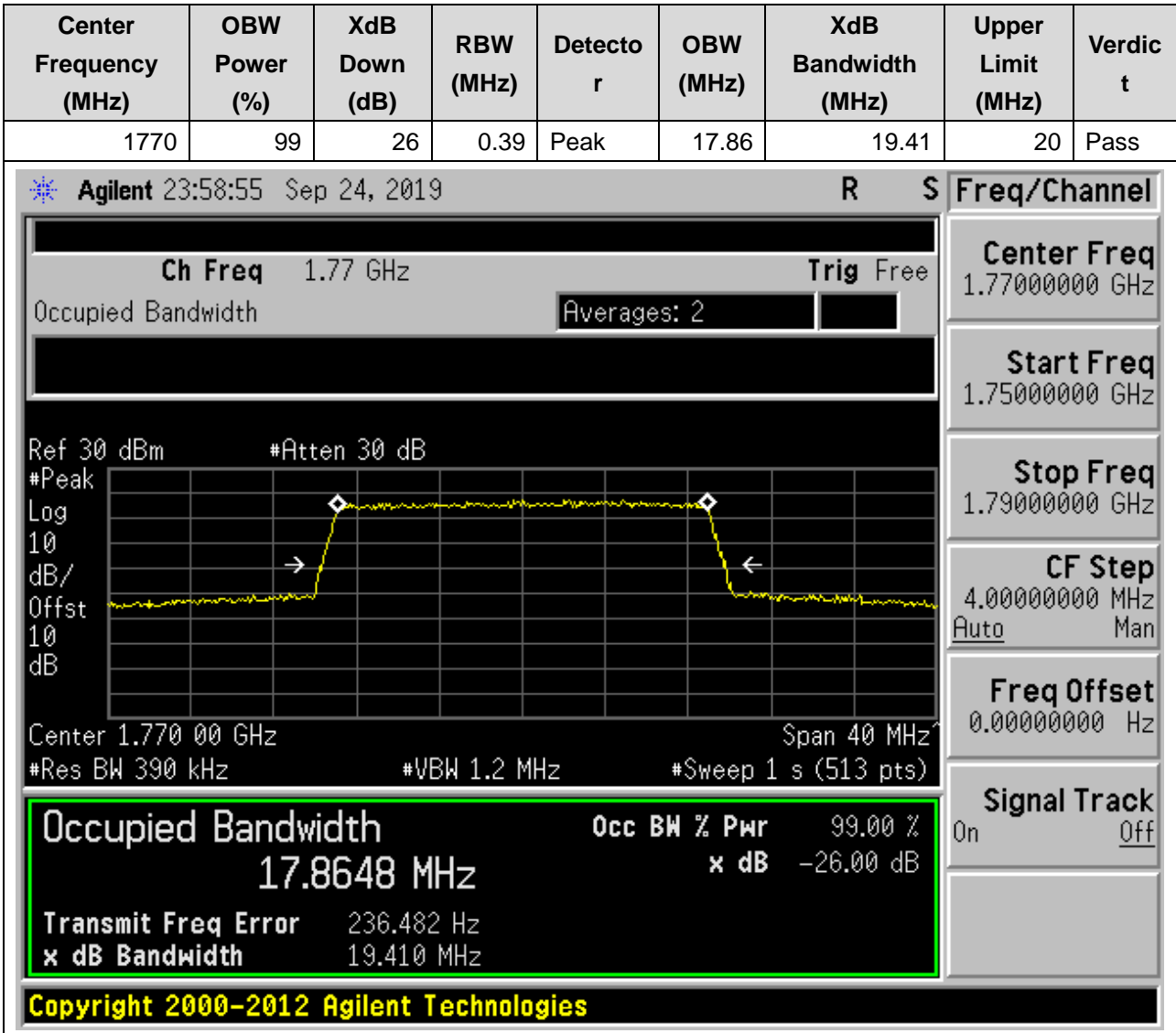
**CF Step** 4.00000000 MHz  
Auto Man

**Freq Offset** 0.00000000 Hz

**Signal Track** On Off

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



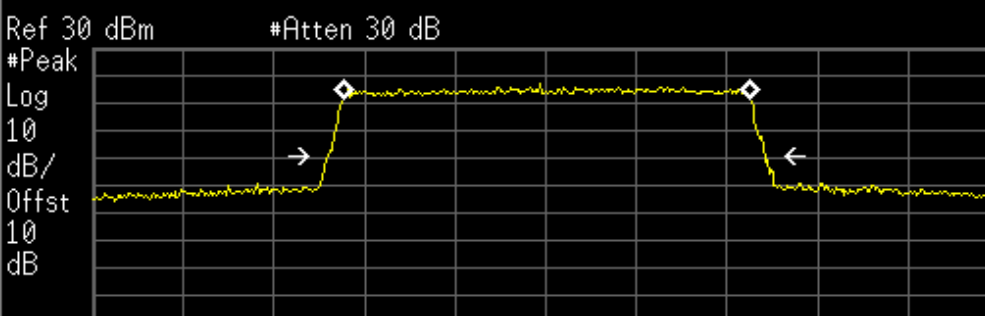
**18.36. LTE Occupied Bandwidth(NTNV)(Subtest:36, Channel:132572, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1770	99	26	0.39	Peak	17.89	19.3	20	Pass

Agilent 23:59:05 Sep 24, 2019 R S

**Ch Freq** 1.77 GHz **Trig** Free

Occupied Bandwidth Averages: 2



Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10 dB

Center 1.770 00 GHz Span 40 MHz

#Res BW 390 kHz #VBW 1.2 MHz #Sweep 1 s (513 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>17.8856 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	18.285 kHz	
<b>x dB Bandwidth</b>	19.303 MHz	

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**Freq/Channel**

**Center Freq**  
1.77000000 GHz

**Start Freq**  
1.75000000 GHz

**Stop Freq**  
1.79000000 GHz

**CF Step**  
4.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

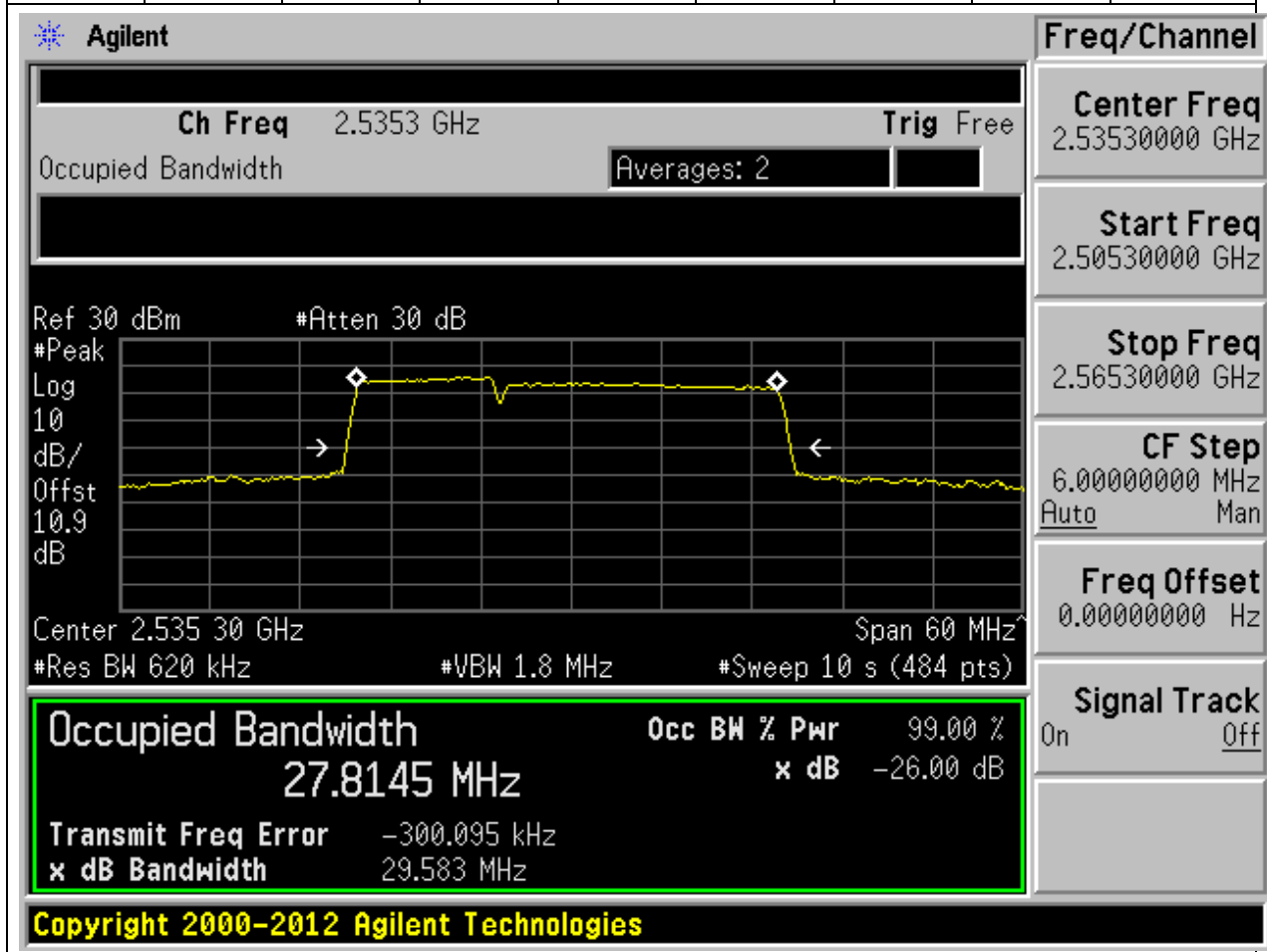


# CA

## 19. CA\_7C

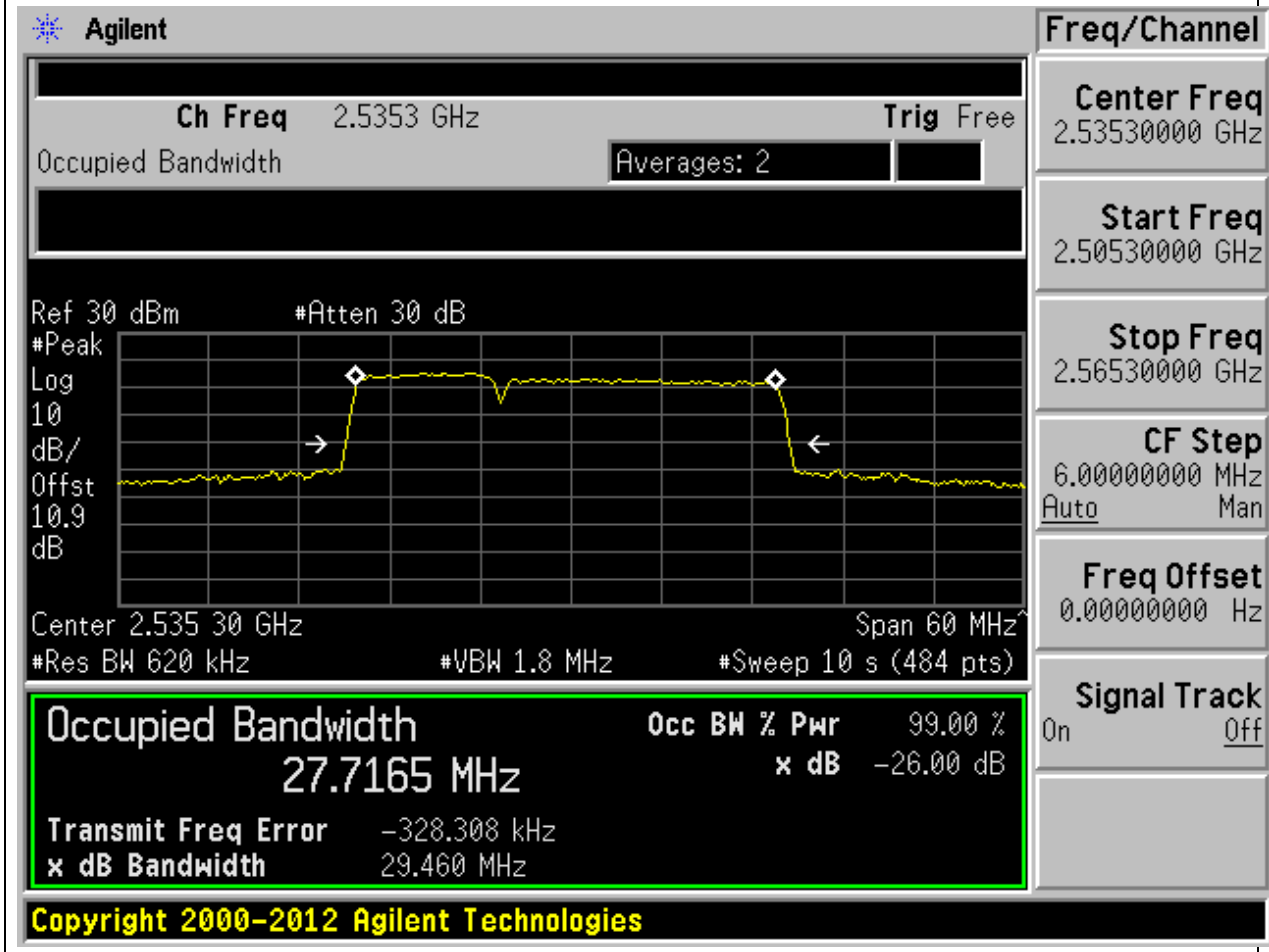
19.1. CA Occupied Bandwidth(NTNV)(Subtest:1, Channel:21006+21150, Bandwidth:10+20, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535.3	99	26	0.62	Peak	27.81	29.58	30	Pass



**19.2. CA Occupied Bandwidth(NTNV)(Subtest:2, Channel:21006+21150, Bandwidth:10+20, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535.3	99	26	0.62	Peak	27.72	29.46	30	Pass



**19.3. CA Occupied Bandwidth(NTNV)(Subtest:3, Channel:21051+21195, Bandwidth:20+10, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2534.8	99	26	0.62	Peak	27.79	29.6	30	Pass

**Agilent** Freq/Channel

---

**Ch Freq** 2.5348 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 30 dBm #Atten 30 dB

#Peak

Log

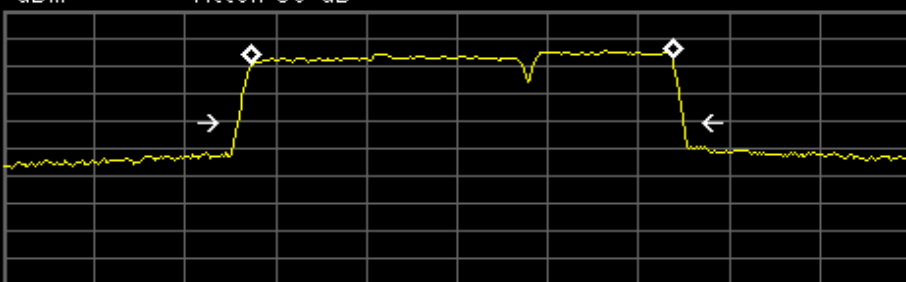
10

dB/

Offst

10.9

dB



Center 2.534 80 GHz Span 60 MHz

#Res BW 620 kHz #VBW 1.8 MHz #Sweep 10 s (484 pts)

---

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

**27.7882 MHz** **x dB** -26.00 dB

**Transmit Freq Error** 326.826 kHz

**x dB Bandwidth** 29.598 MHz

---

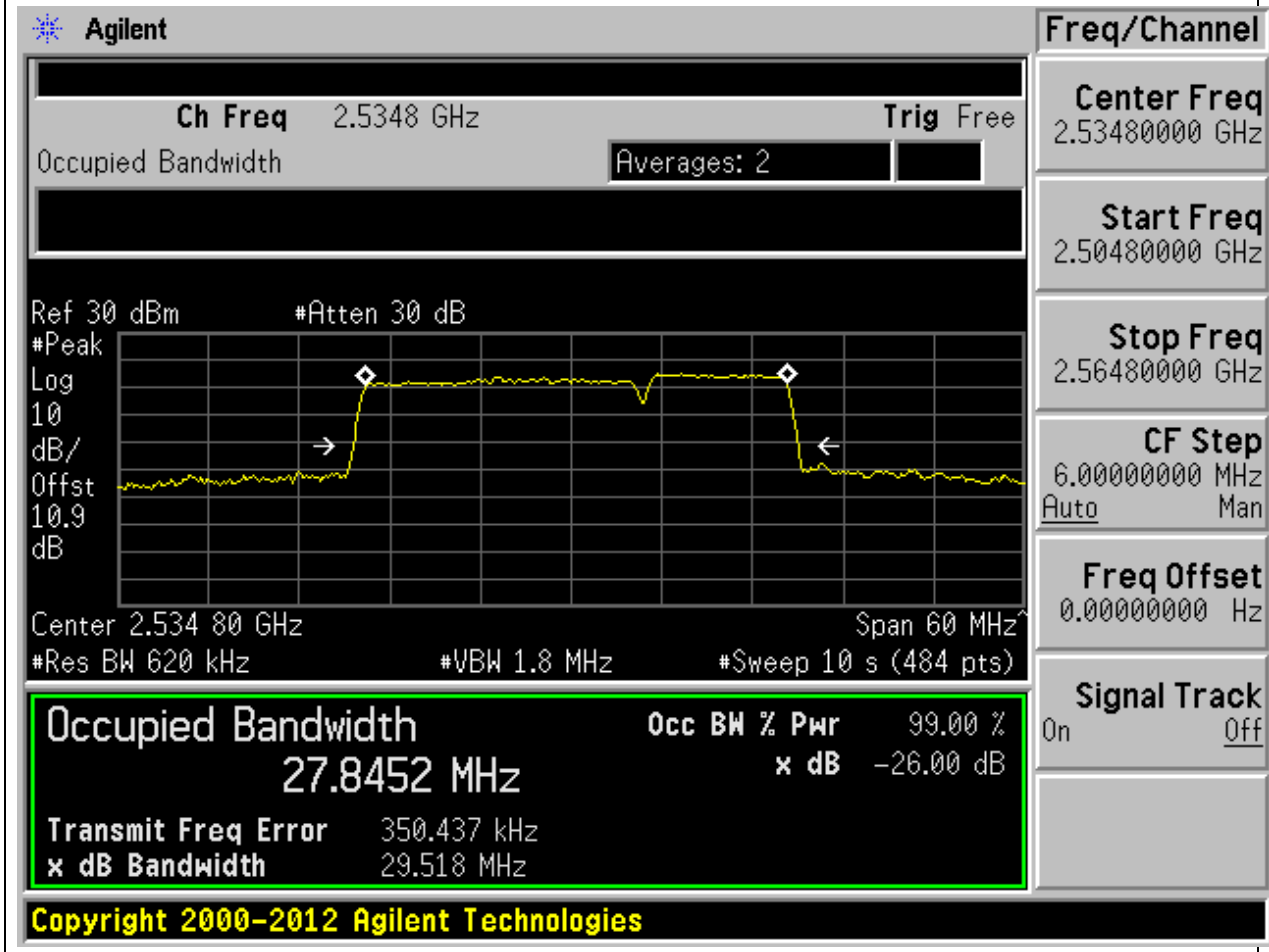
**Signal Track** On Off

---

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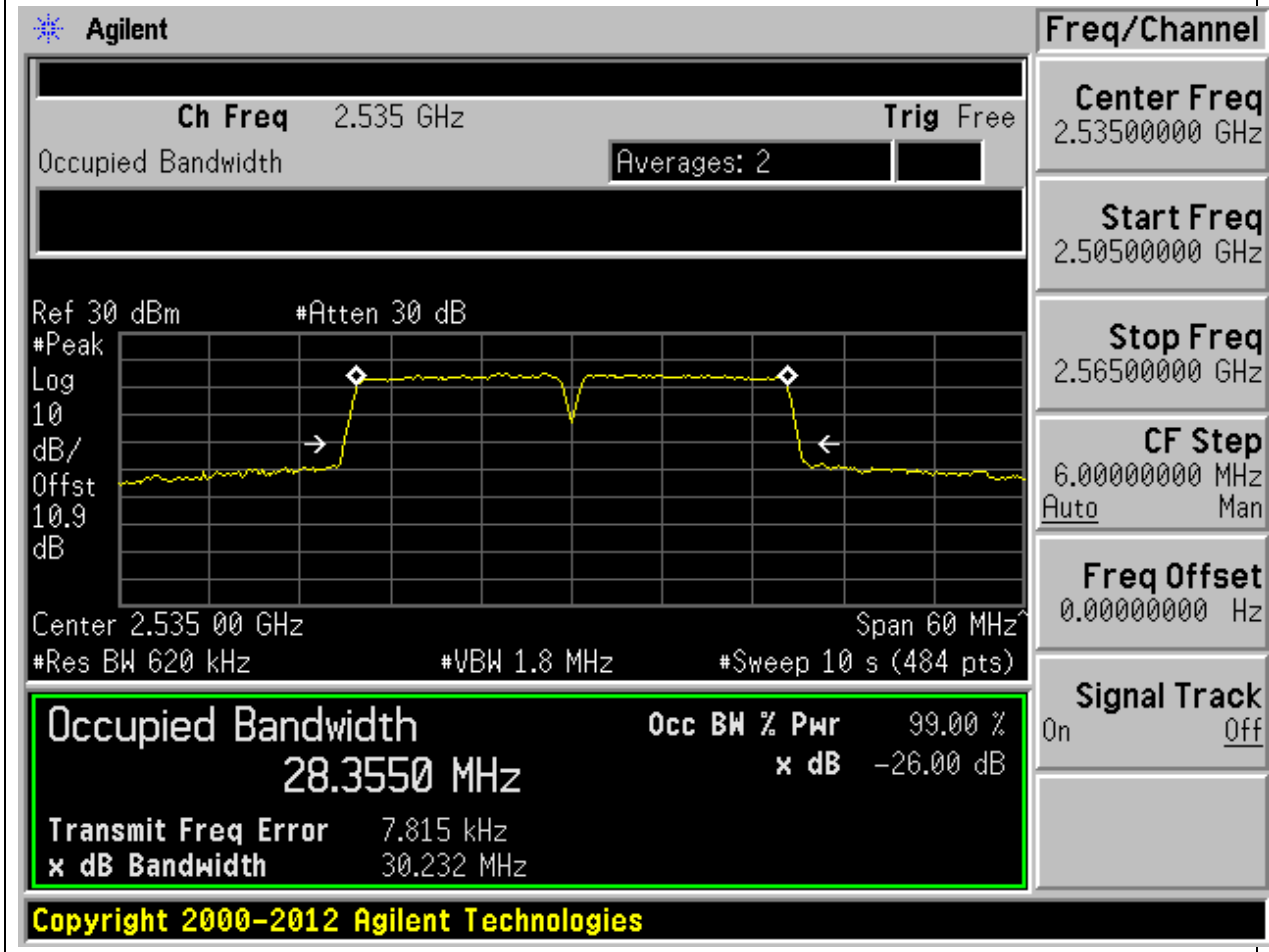
**19.4. CA Occupied Bandwidth(NTNV)(Subtest:4, Channel:21051+21195, Bandwidth:20+10, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2534.8	99	26	0.62	Peak	27.85	29.52	30	Pass



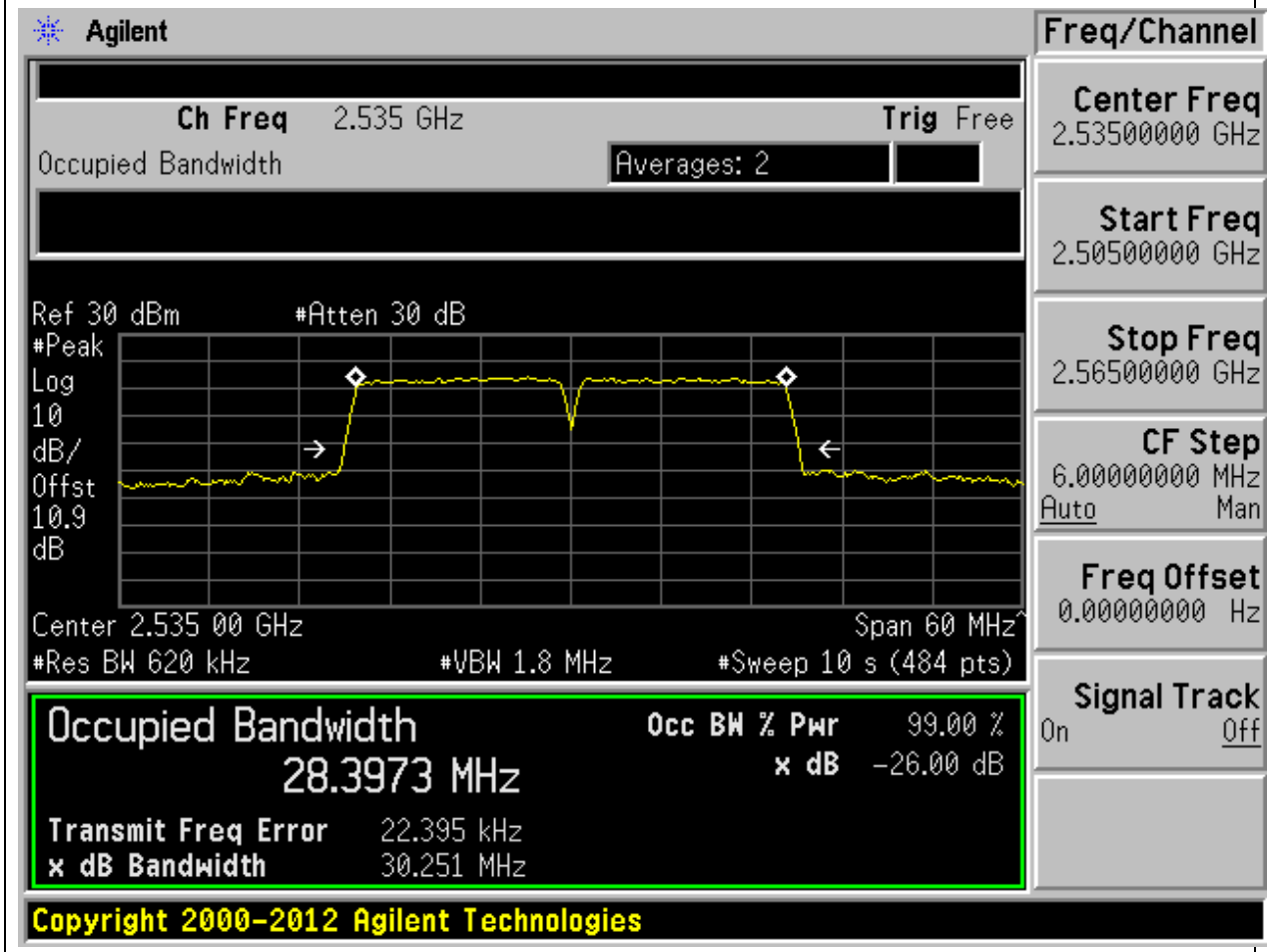
**19.5. CA Occupied Bandwidth(NTNV)(Subtest:5, Channel:21025+21175, Bandwidth:15+15, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.62	Peak	28.36	30.23	30	Pass



**19.6. CA Occupied Bandwidth(NTNV)(Subtest:6, Channel:21025+21175, Bandwidth:15+15, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.62	Peak	28.4	30.25	30	Pass



**19.7. CA Occupied Bandwidth(NTNV)(Subtest:7, Channel:21003+21174, Bandwidth:15+20, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535.1	99	26	0.68	Peak	32.68	34.78	35	Pass

**Agilent** Freq/Channel

---

**Ch Freq** 2.5351 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 30 dBm #Atten 30 dB

#Peak

Log

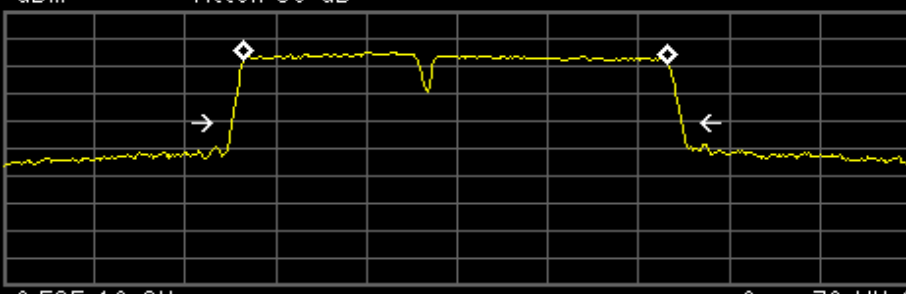
10

dB/

Offst

10.9

dB



Center 2.535 10 GHz Span 70 MHz

#Res BW 680 kHz #VBW 2 MHz #Sweep 10 s (515 pts)

---

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

**32.6830 MHz** **x dB** -26.00 dB

**Transmit Freq Error** -135.671 kHz

**x dB Bandwidth** 34.779 MHz

---

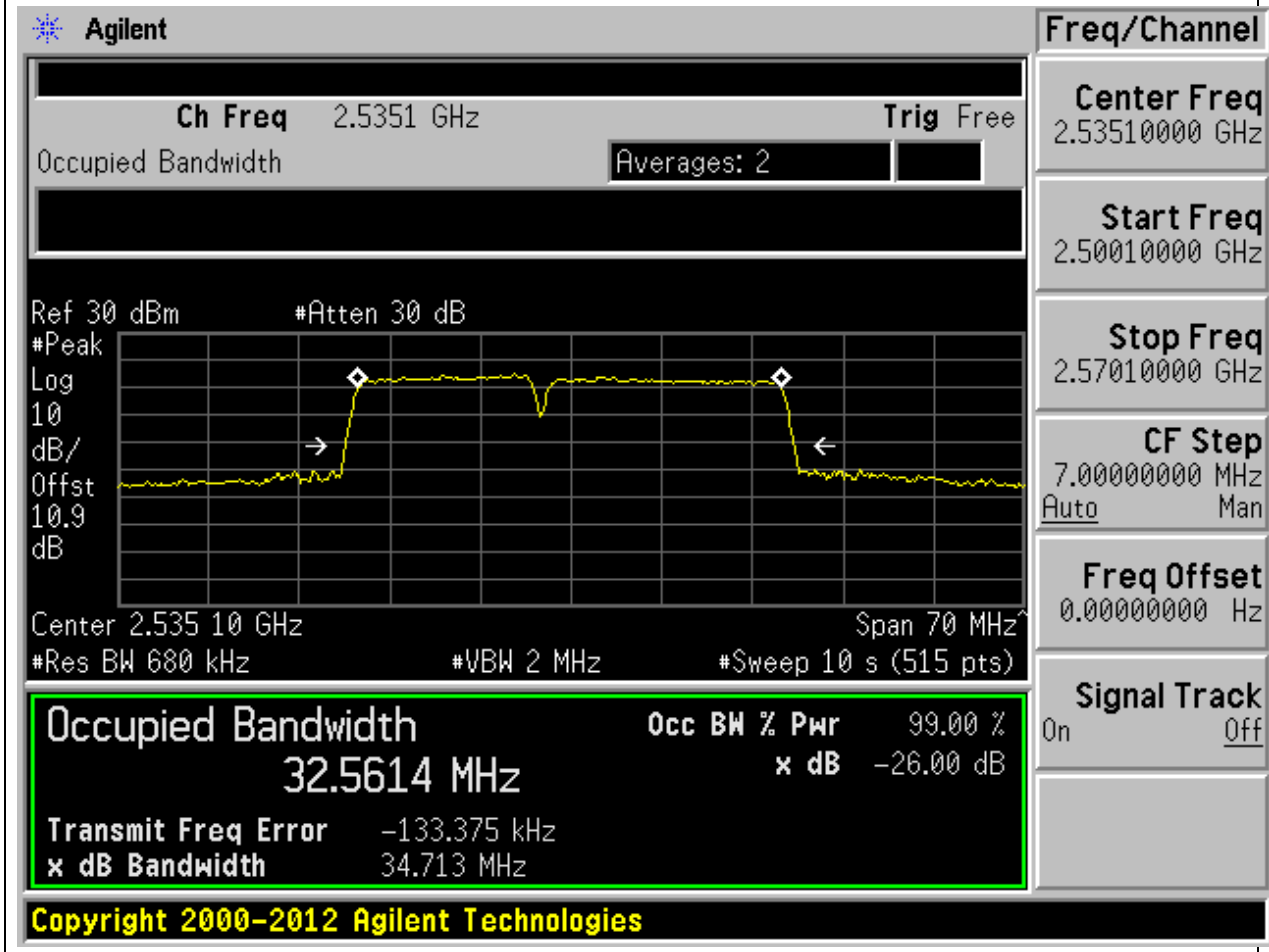
**Signal Track** On Off

---

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**19.8. CA Occupied Bandwidth(NTNV)(Subtest:8, Channel:21003+21174, Bandwidth:15+20, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535.1	99	26	0.68	Peak	32.56	34.71	35	Pass





**19.9. CA Occupied Bandwidth(NTNV)(Subtest:9, Channel:21026+21197, Bandwidth:20+15, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2534.9	99	26	0.68	Peak	32.69	34.76	35	Pass

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

**Ch Freq** 2.5349 GHz **Trig** Free

Occupied Bandwidth **Averages: 2**

**Center Freq**  
2.53490000 GHz

**Start Freq**  
2.49990000 GHz

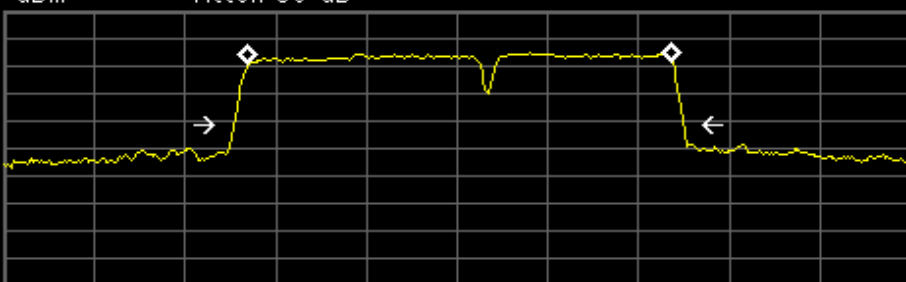
**Stop Freq**  
2.56990000 GHz

**CF Step**  
7.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

Ref 30 dBm #Atten 30 dB



Center 2.534 90 GHz Span 70 MHz

#Res BW 680 kHz #VBW 2 MHz #Sweep 10 s (515 pts)

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

**32.6911 MHz** **x dB** -26.00 dB

**Transmit Freq Error** 185.337 kHz

**x dB Bandwidth** 34.762 MHz

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**19.10. CA Occupied Bandwidth(NTNV)(Subtest:10, Channel:21026+21197, Bandwidth:20+15, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2534.9	99	26	0.68	Peak	32.74	34.67	35	Pass

**Agilent** Freq/Channel

---

**Ch Freq** 2.5349 GHz **Trig** Free

Occupied Bandwidth Averages: 2

---

Ref 30 dBm #Atten 30 dB

#Peak

Log

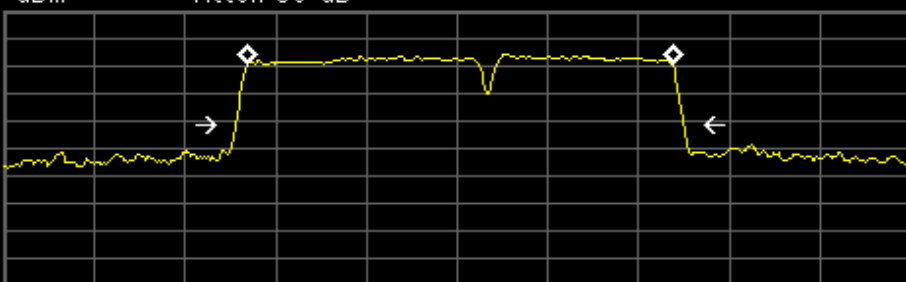
10

dB/

Offst

10.9

dB



Center 2.534 90 GHz Span 70 MHz

#Res BW 680 kHz #VBW 2 MHz #Sweep 10 s (515 pts)

---

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
32.7427 MHz	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b> 179.207 kHz	
<b>x dB Bandwidth</b> 34.674 MHz	

---

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**Center Freq**  
2.53490000 GHz

**Start Freq**  
2.49990000 GHz

**Stop Freq**  
2.56990000 GHz

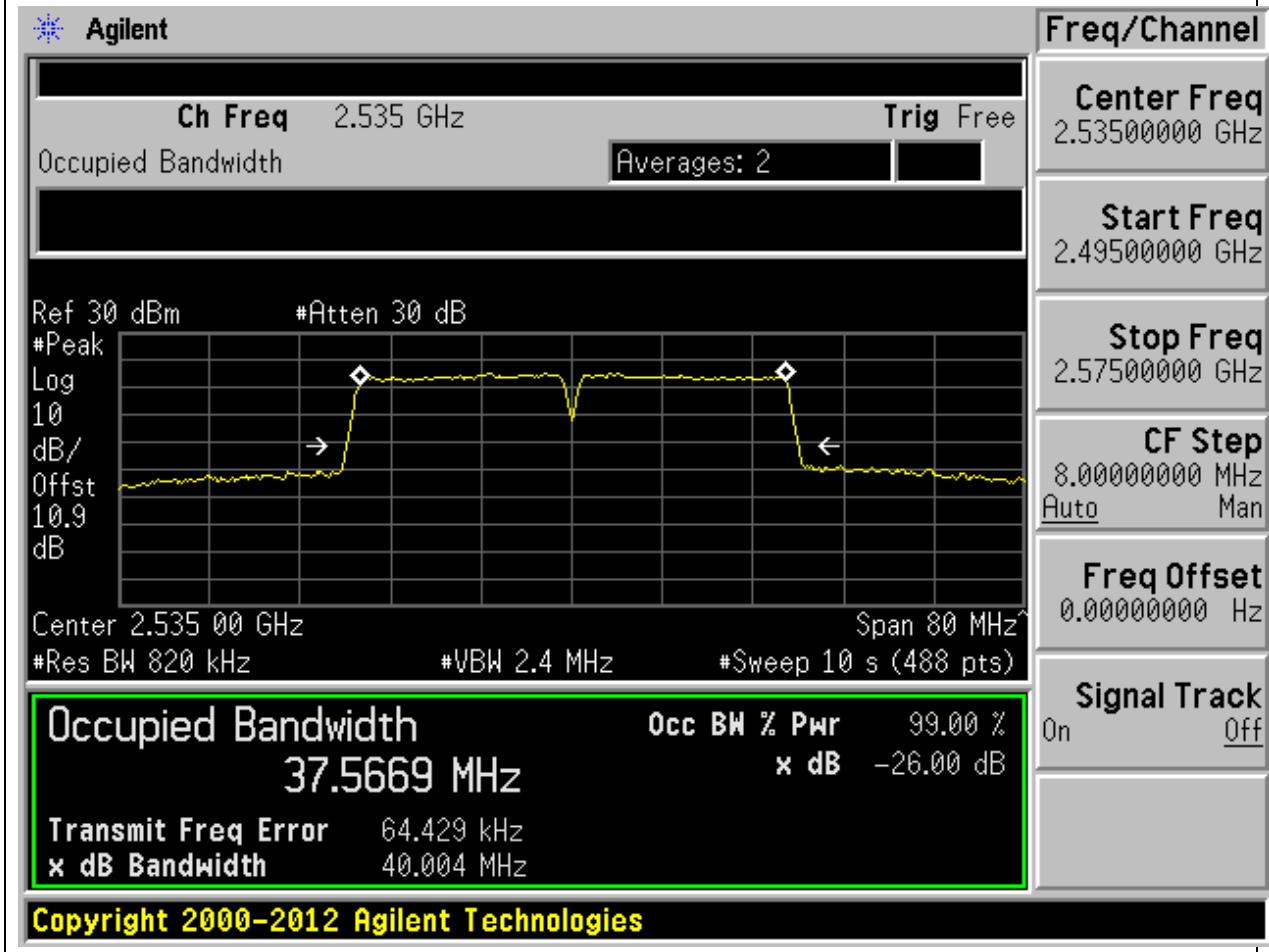
**CF Step**  
7.00000000 MHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

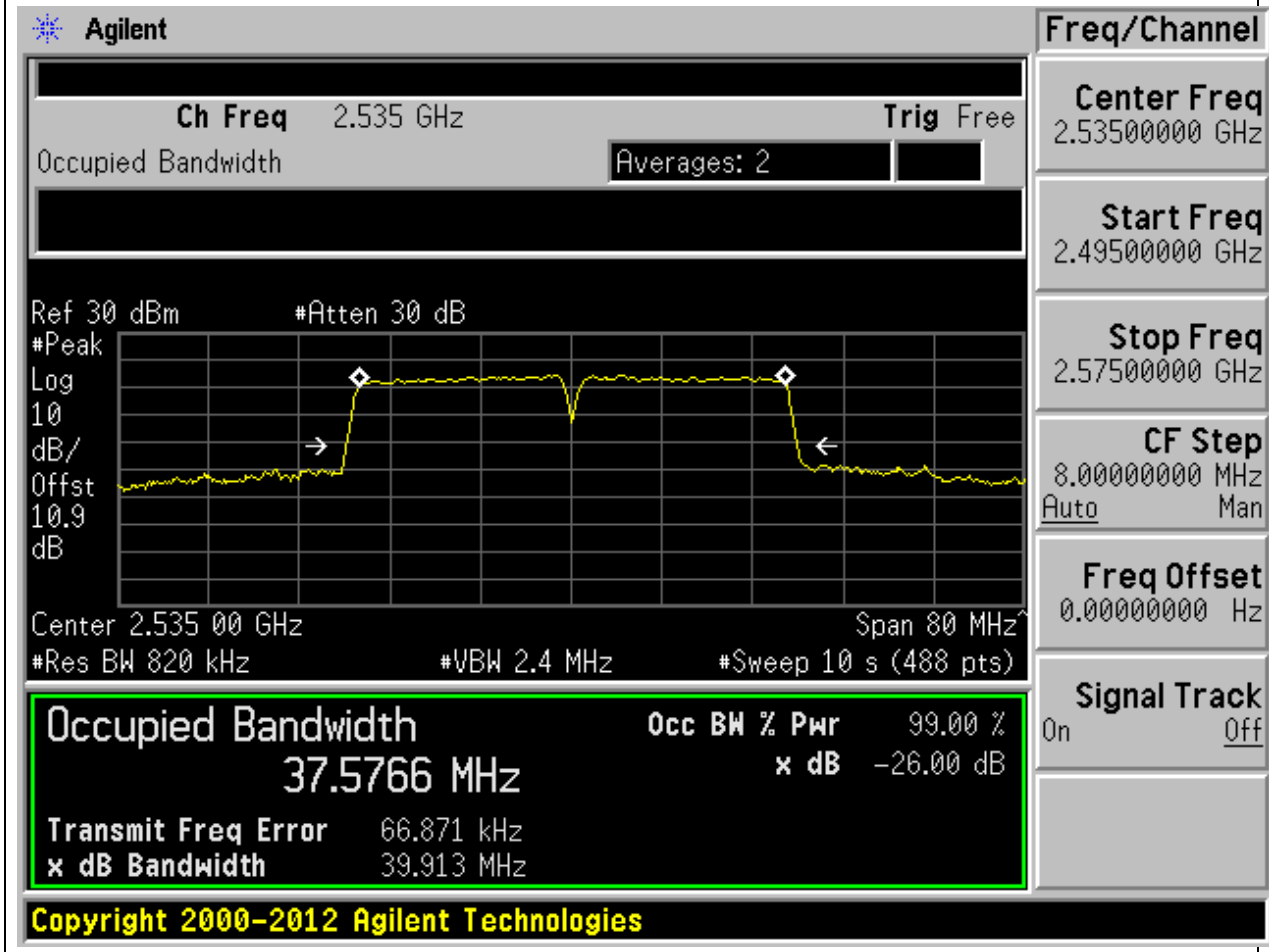
**19.11. CA Occupied Bandwidth(NTNV)(Subtest:11, Channel:21001+21199, Bandwidth:20+20, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.82	Peak	37.57	40	40	Pass



**19.12. CA Occupied Bandwidth(NTNV)(Subtest:12, Channel:21001+21199, Bandwidth:20+20, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

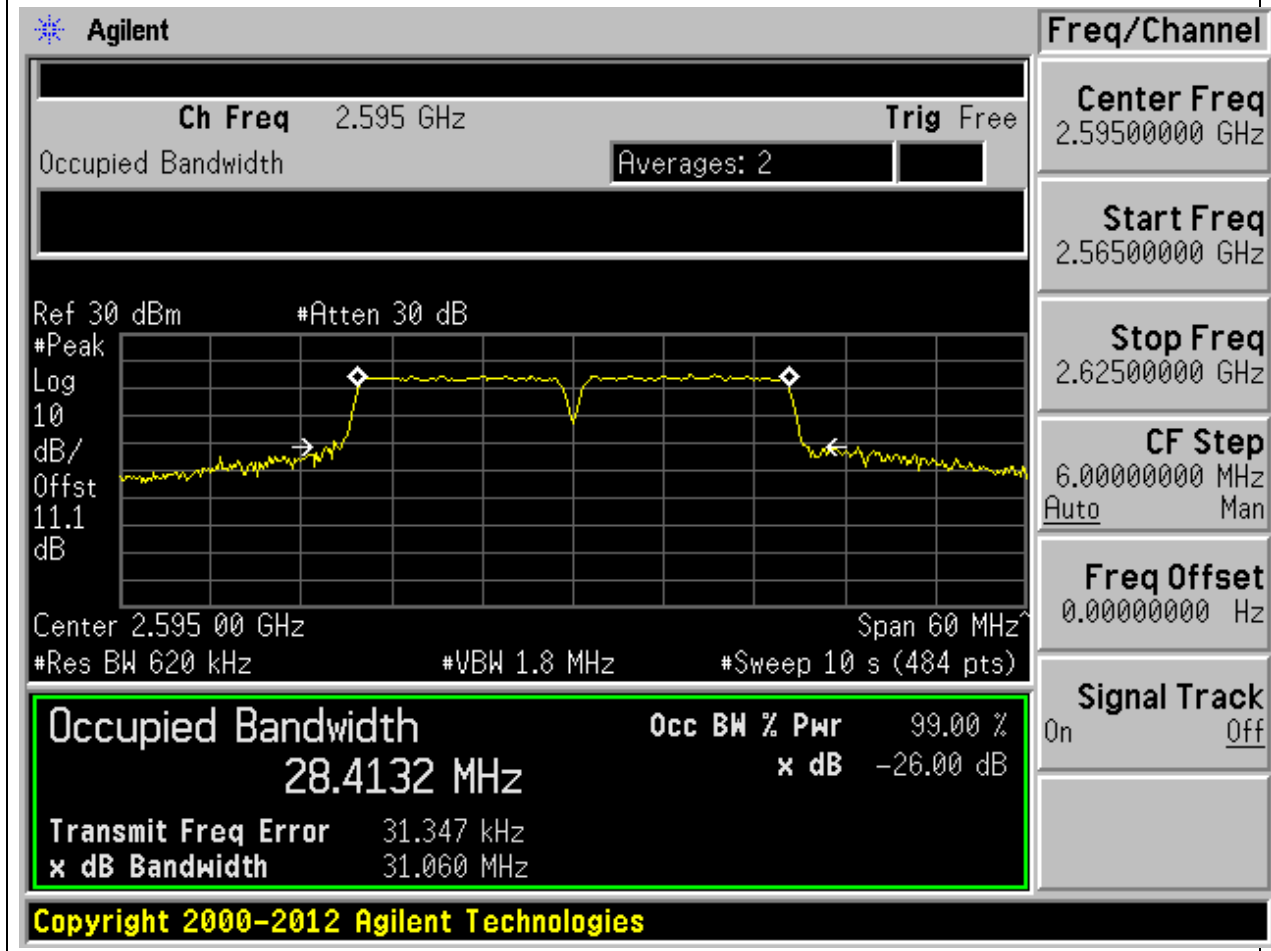
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.82	Peak	37.58	39.91	40	Pass



## 20. CA\_38C

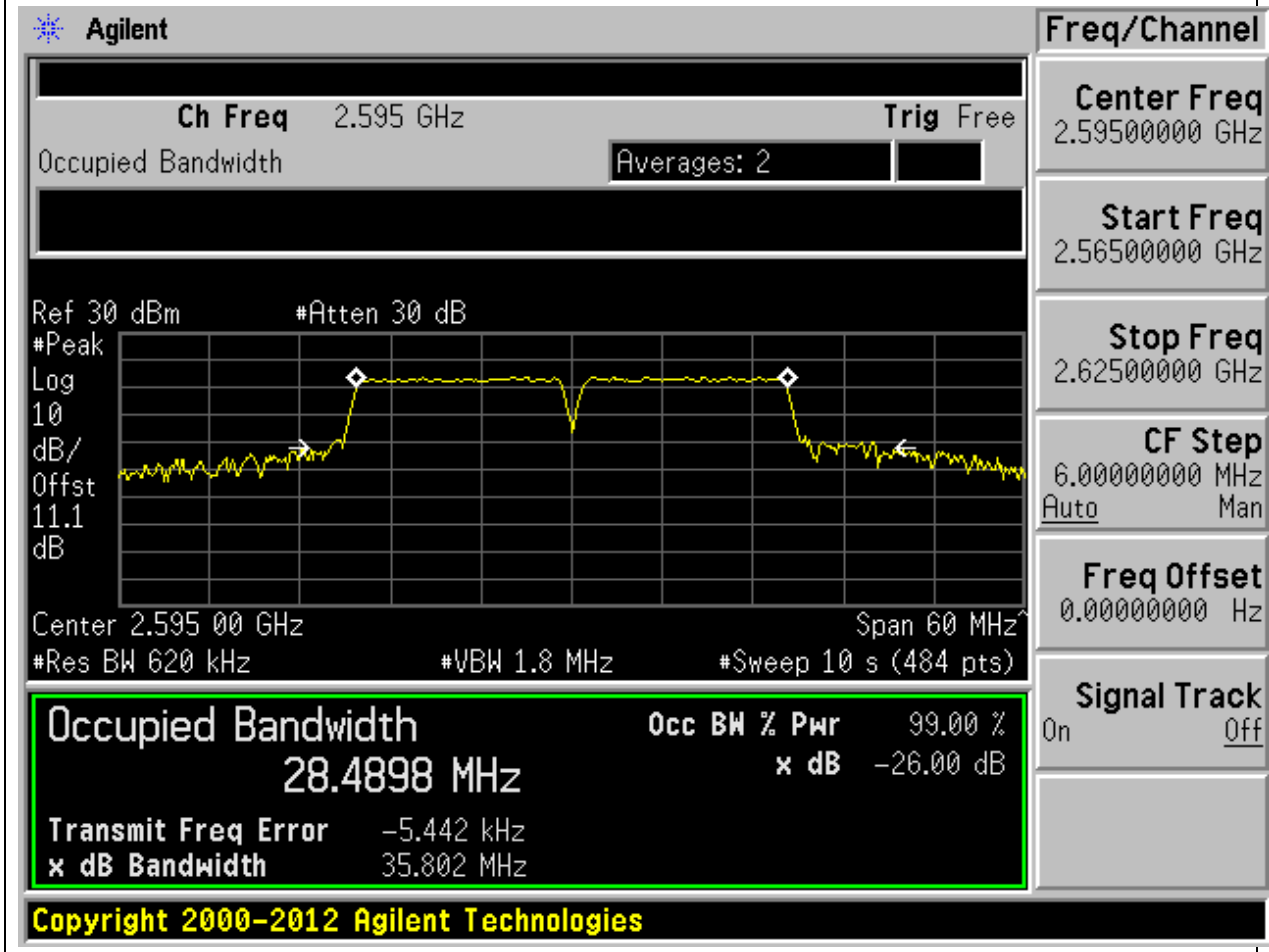
20.1. CA Occupied Bandwidth(NTNV)(Subtest:1, Channel:37925+38075, Bandwidth:15+15, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.62	Peak	28.41	31.06	30	Pass



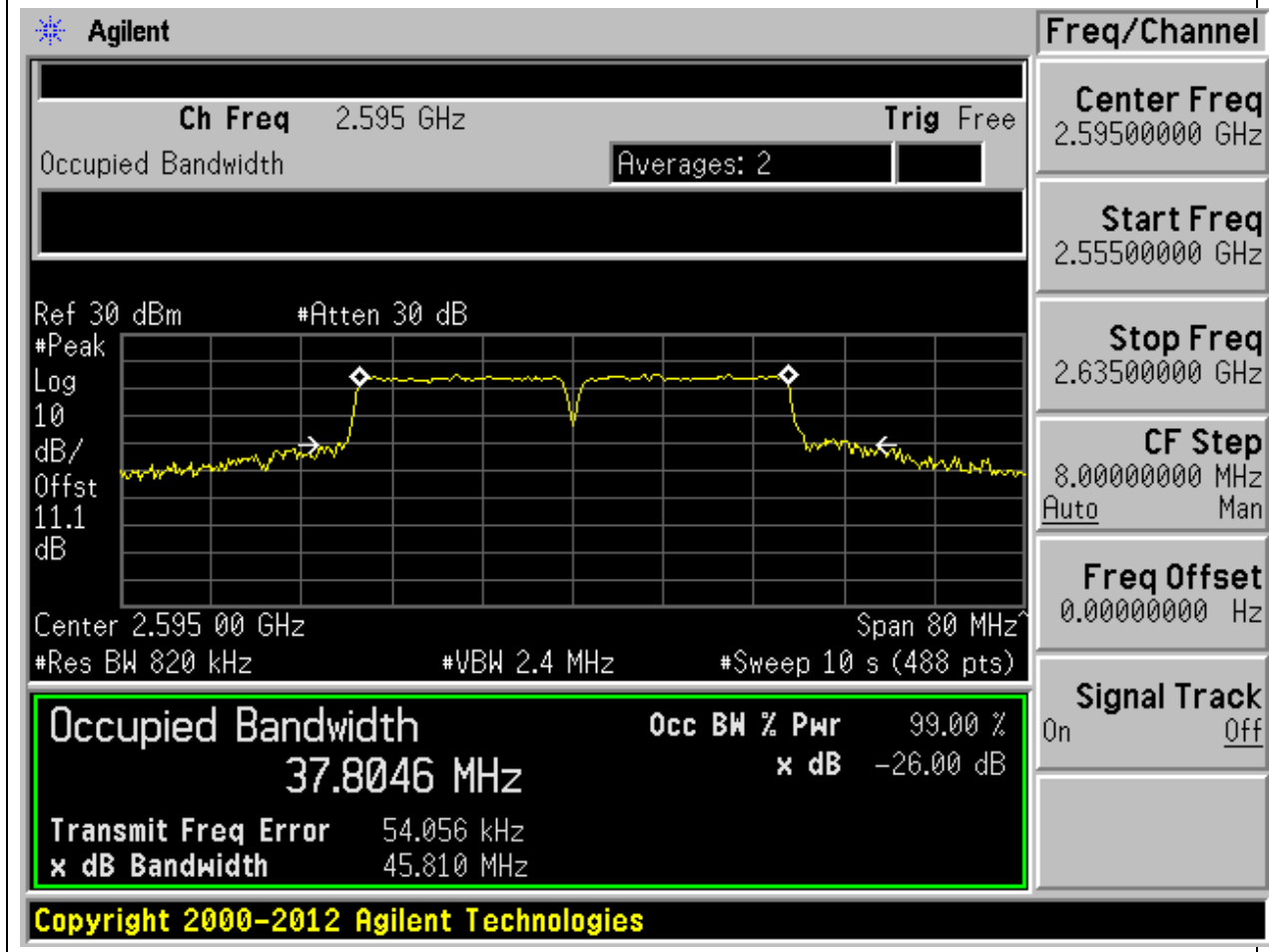
**20.2. CA Occupied Bandwidth(NTNV)(Subtest:2, Channel:37925+38075, Bandwidth:15+15, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.62	Peak	28.49	35.8	30	Pass



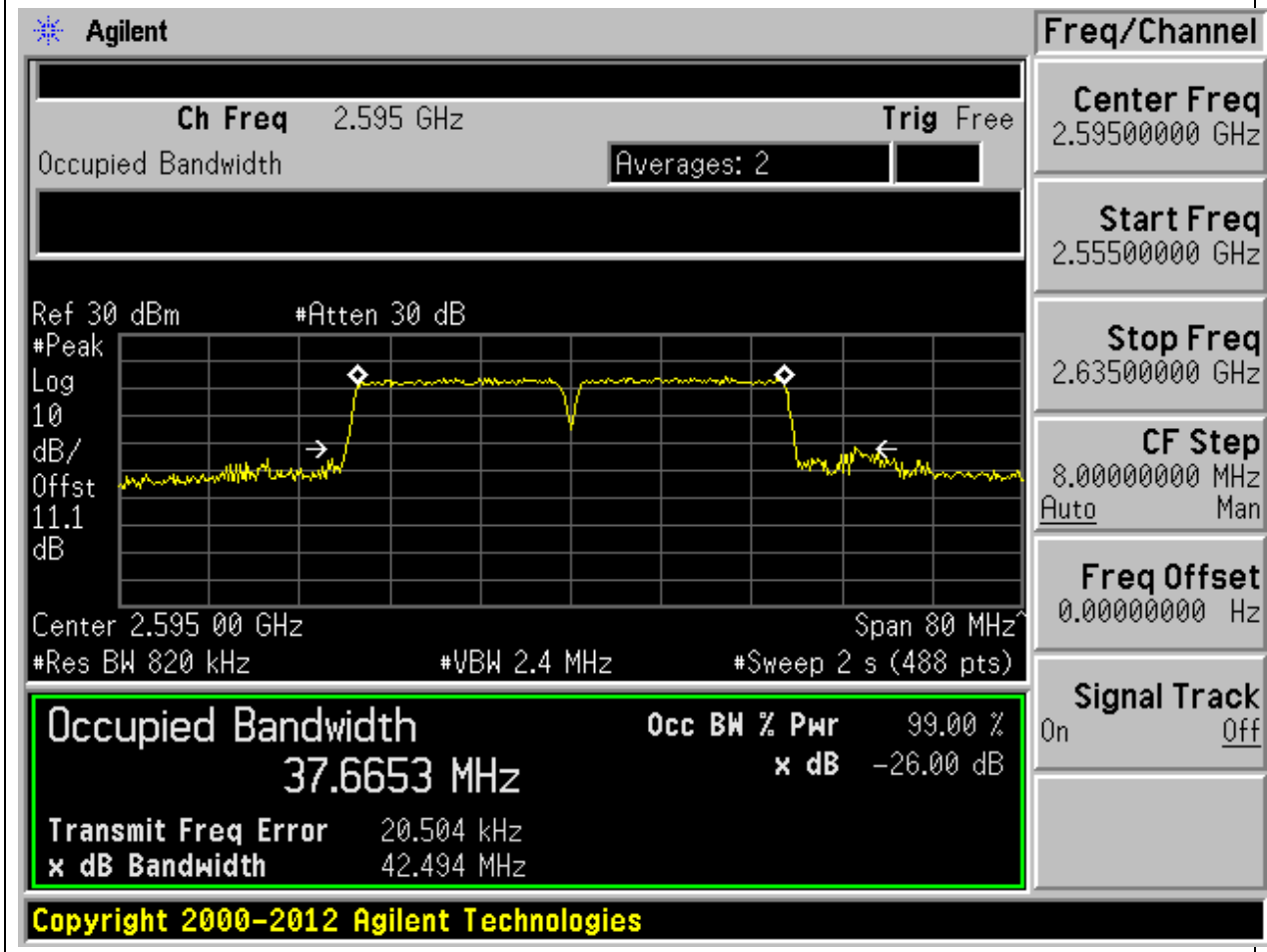
**20.3. CA Occupied Bandwidth(NTNV)(Subtest:3, Channel:37901+38099, Bandwidth:20+20, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.82	Peak	37.8	45.81	40	Pass



**20.4. CA Occupied Bandwidth(NTNV)(Subtest:4, Channel:37901+38099, Bandwidth:20+20, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.82	Peak	37.67	42.49	40	Pass

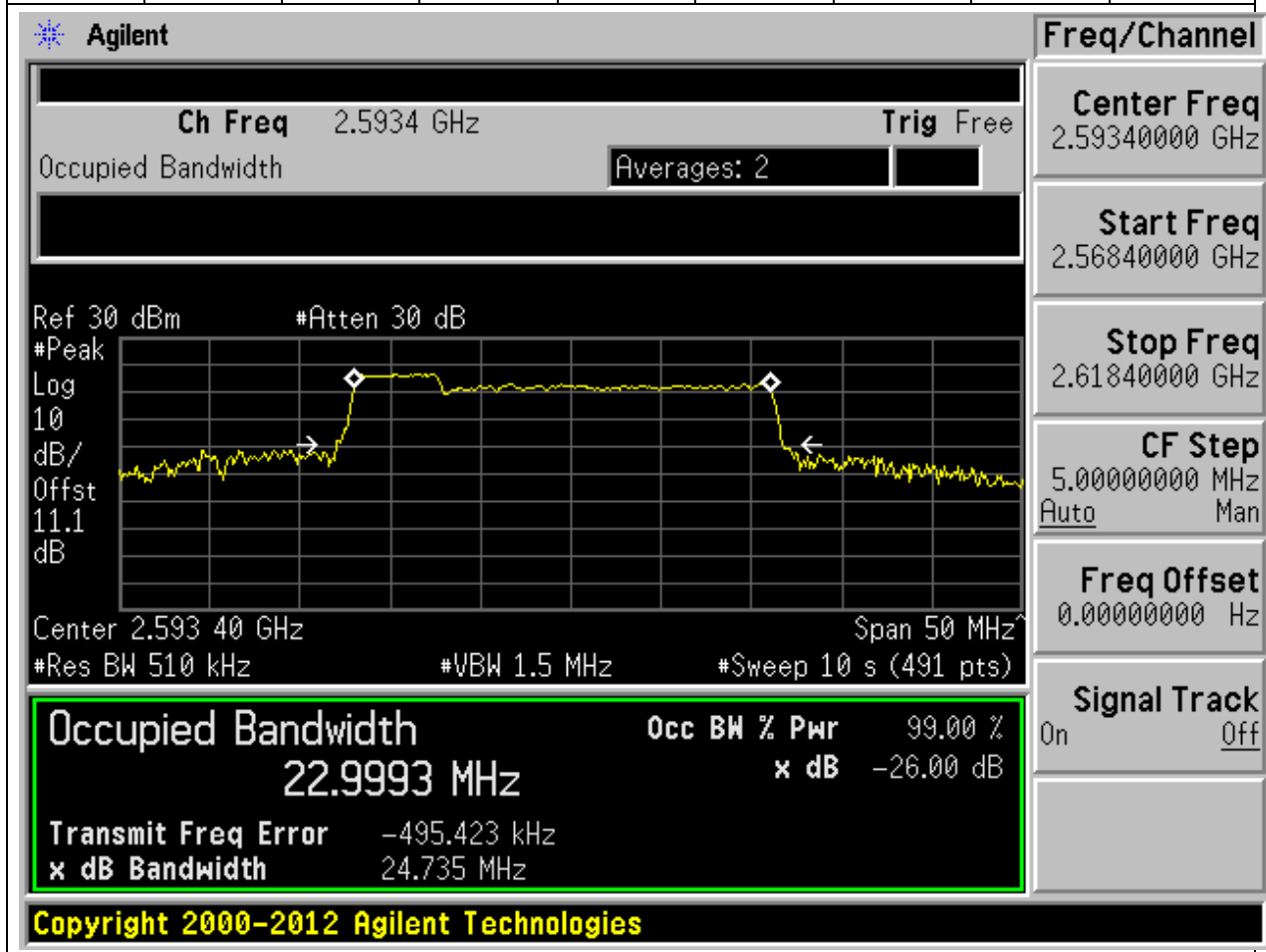




## 21. CA\_41C\_full

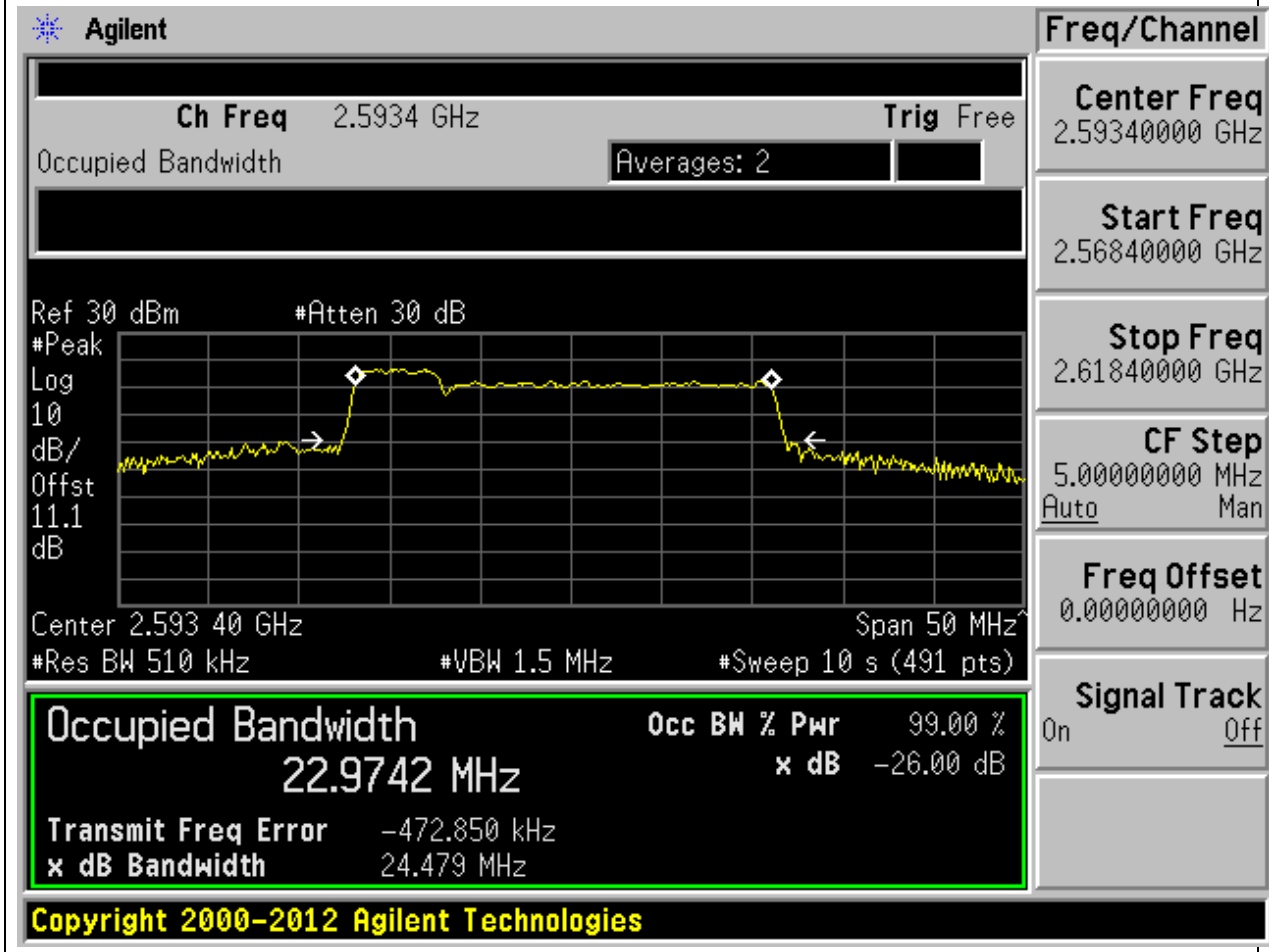
21.1. CA Occupied Bandwidth(NTNV)(Subtest:1, Channel:40528+40645, Bandwidth:5+20, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.4	99	26	0.51	Peak	23	24.74	25	Pass



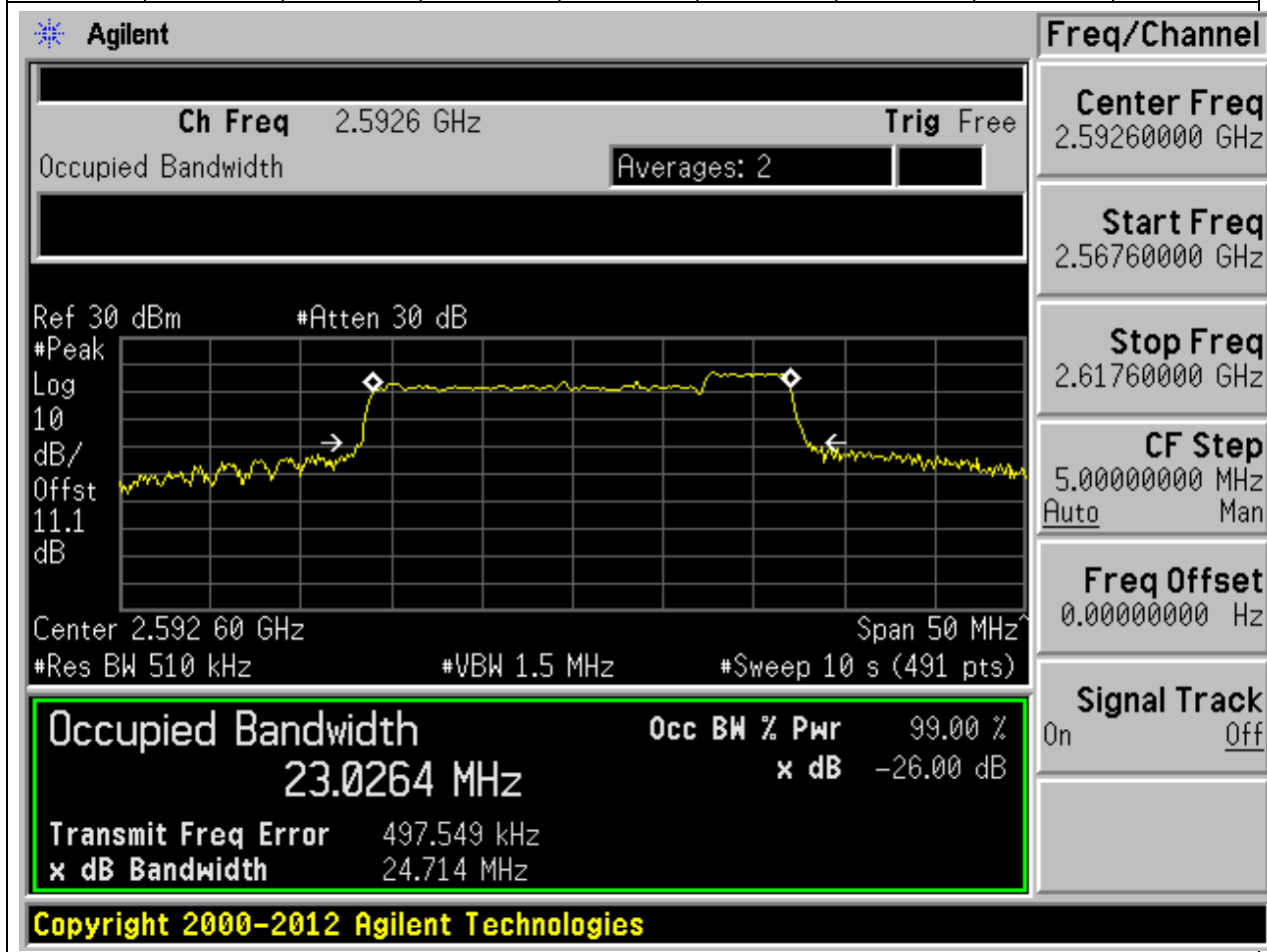
**21.2. CA Occupied Bandwidth(NTNV)(Subtest:2, Channel:40528+40645, Bandwidth:5+20, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.4	99	26	0.51	Peak	22.97	24.48	25	Pass



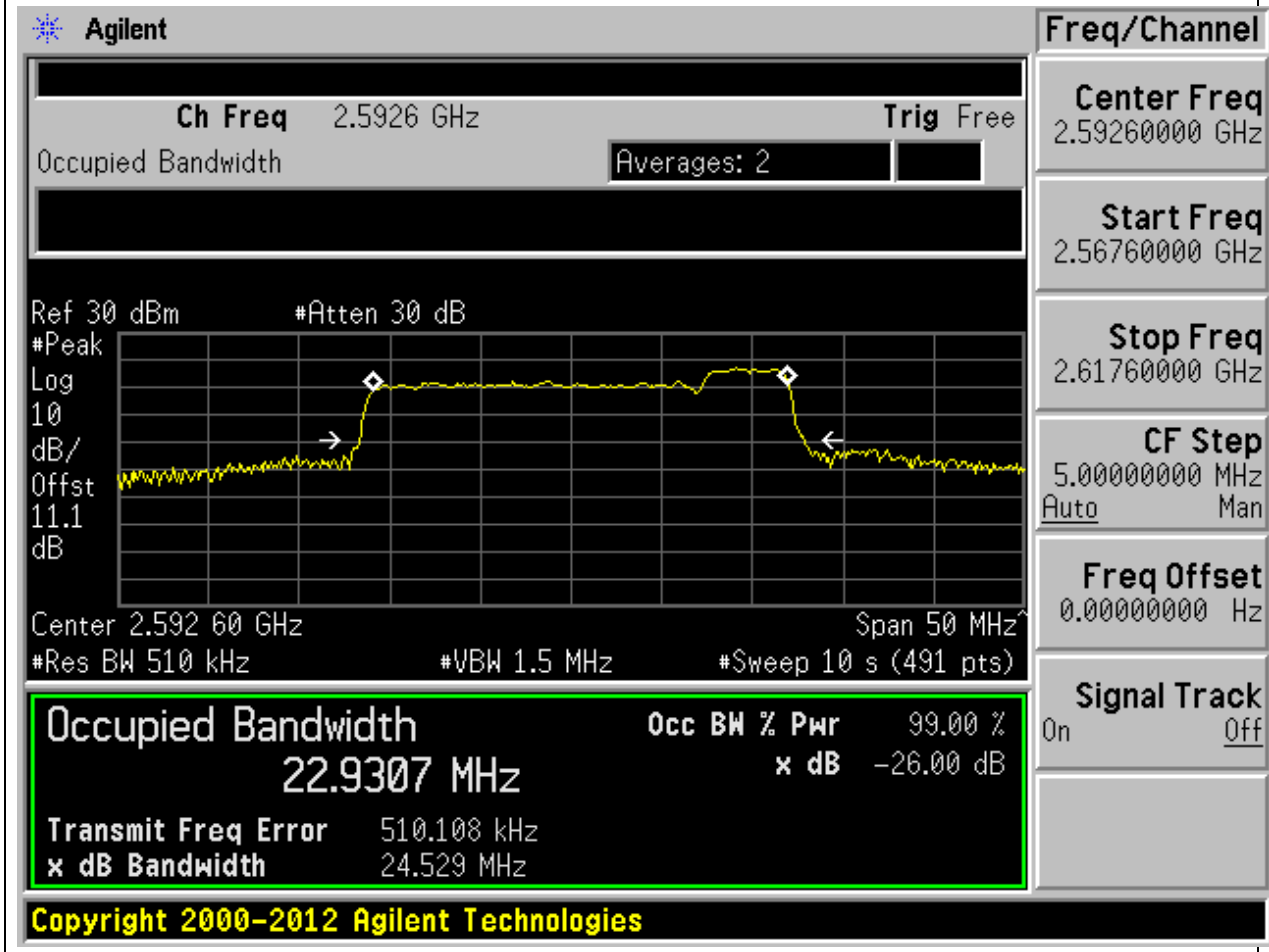
**21.3. CA Occupied Bandwidth(NTNV)(Subtest:3, Channel:40595+40712, Bandwidth:20+5, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.6	99	26	0.51	Peak	23.03	24.71	25	Pass



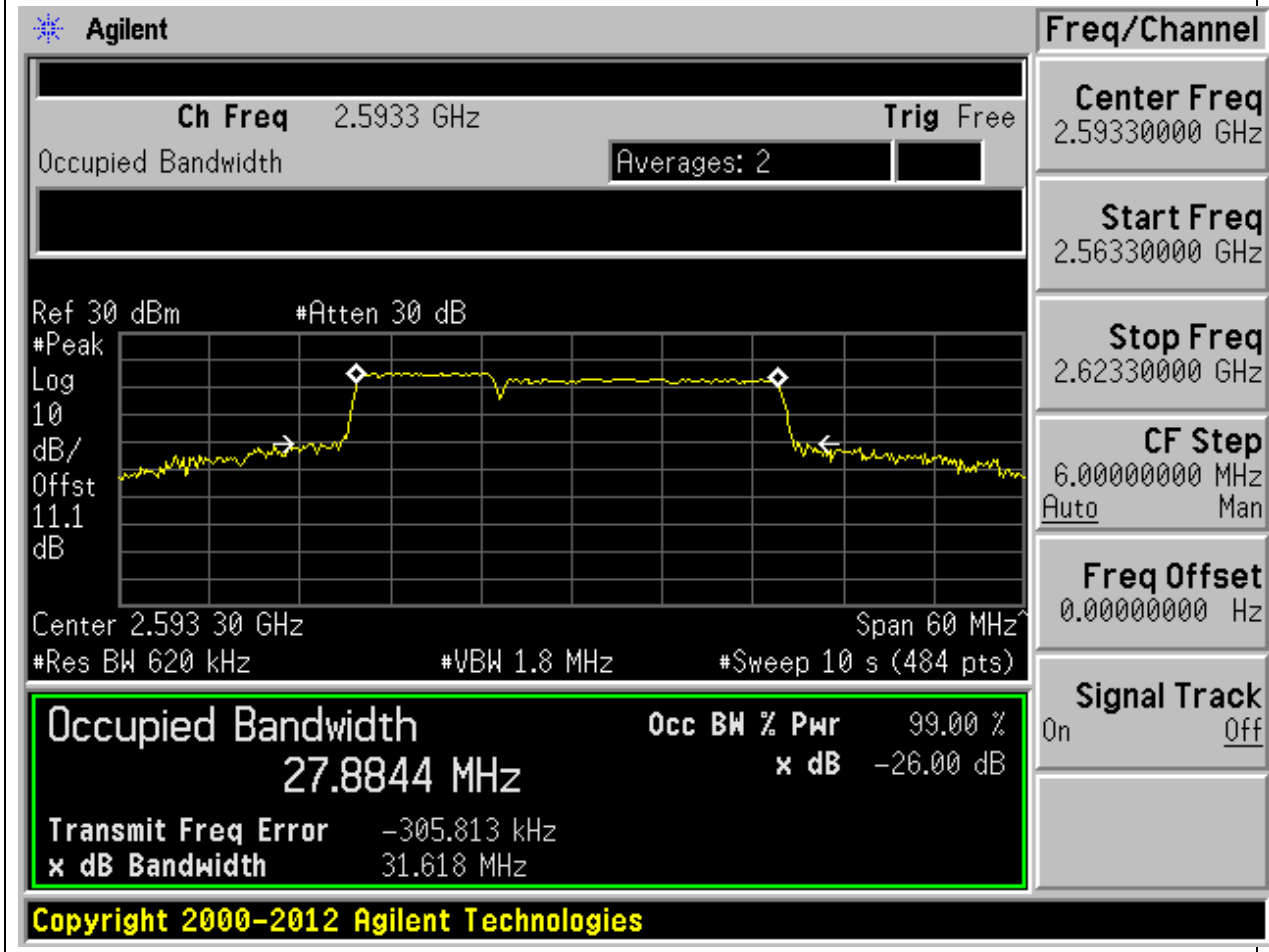
**21.4. CA Occupied Bandwidth(NTNV)(Subtest:4, Channel:40595+40712, Bandwidth:20+5, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.6	99	26	0.51	Peak	22.93	24.53	25	Pass



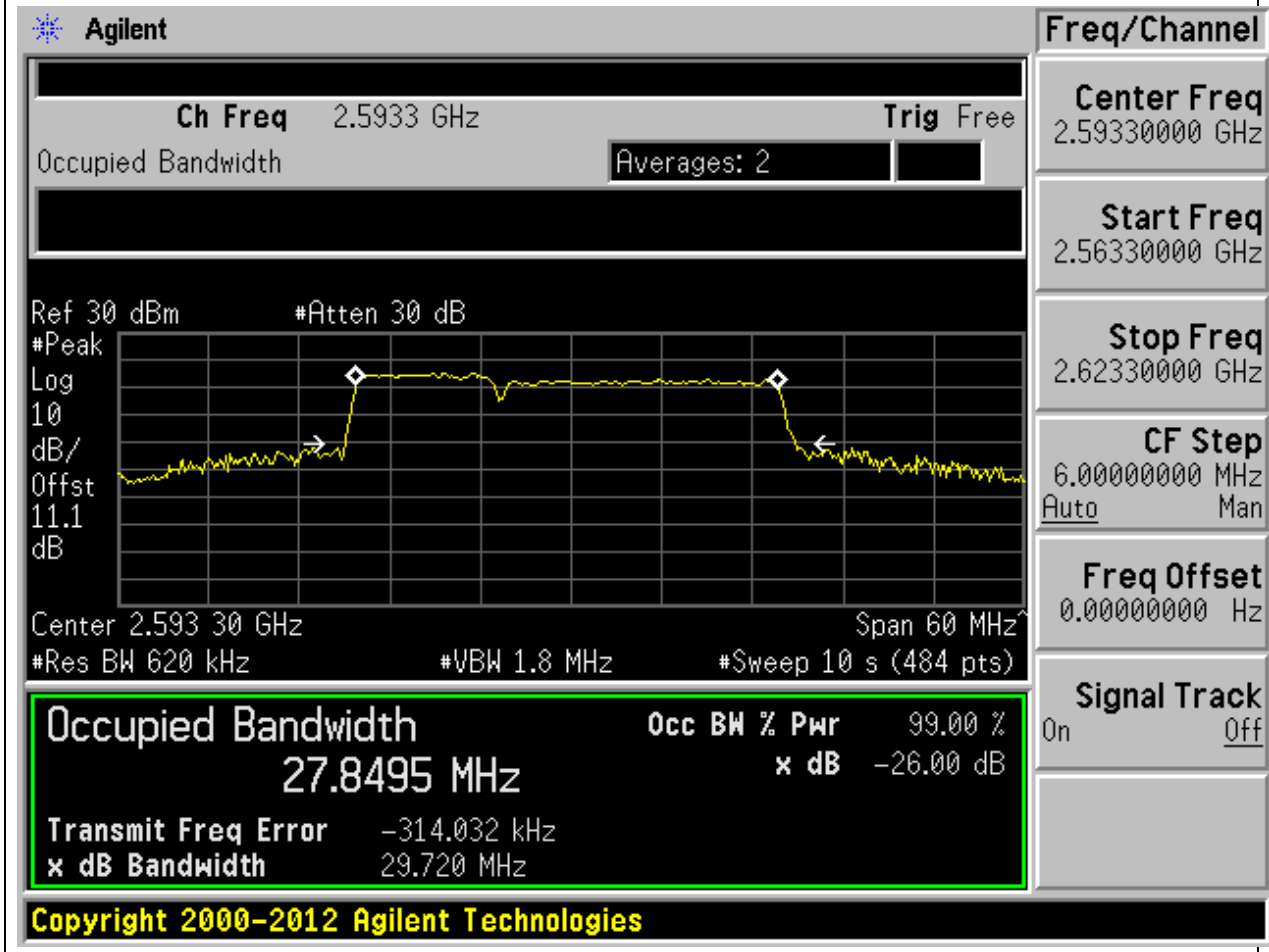
**21.5. CA Occupied Bandwidth(NTNV)(Subtest:5, Channel:40526+40670, Bandwidth:10+20, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.3	99	26	0.62	Peak	27.88	31.62	30	Pass



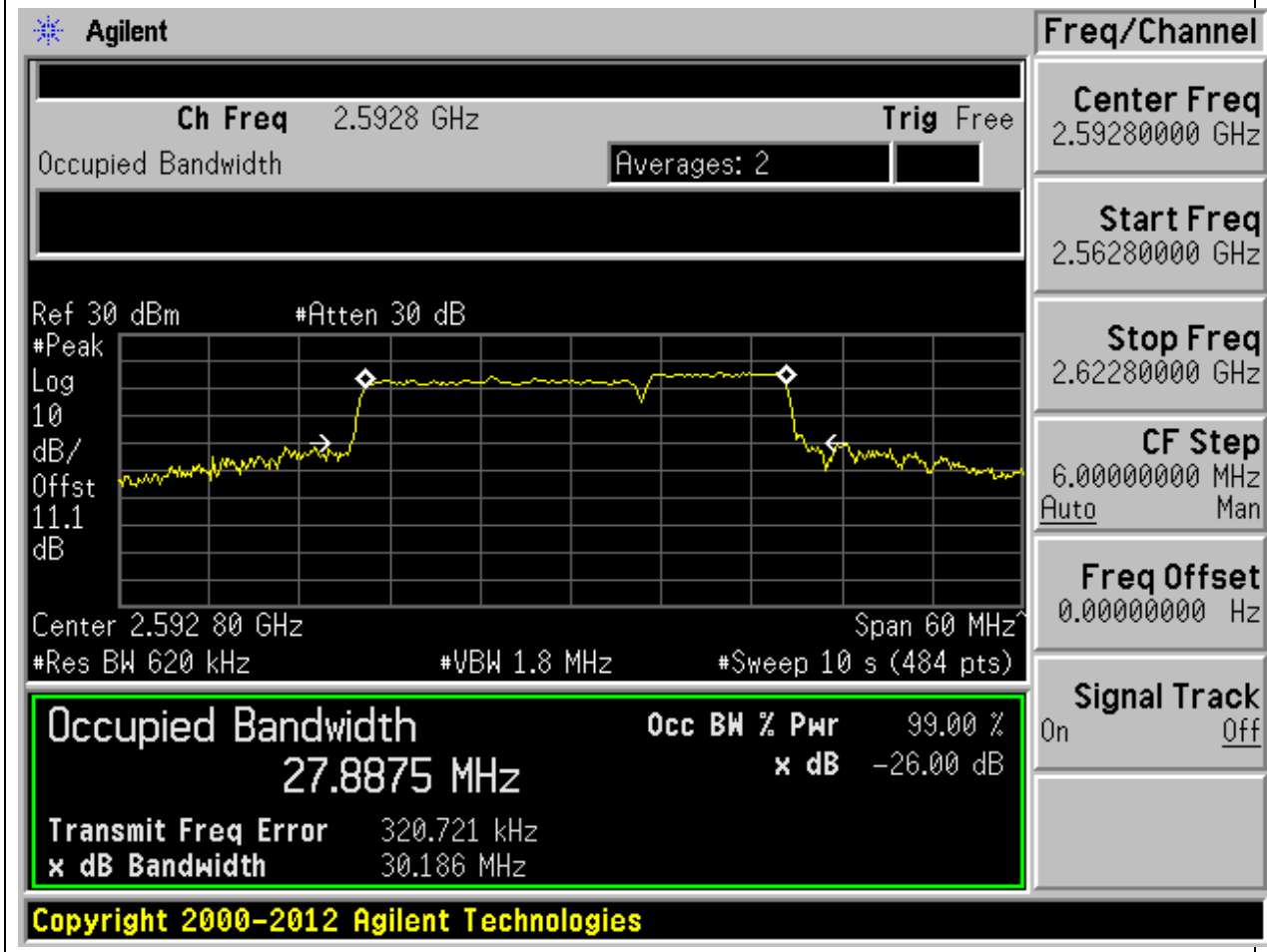
**21.6. CA Occupied Bandwidth(NTNV)(Subtest:6, Channel:40526+40670, Bandwidth:10+20, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.3	99	26	0.62	Peak	27.85	29.72	30	Pass



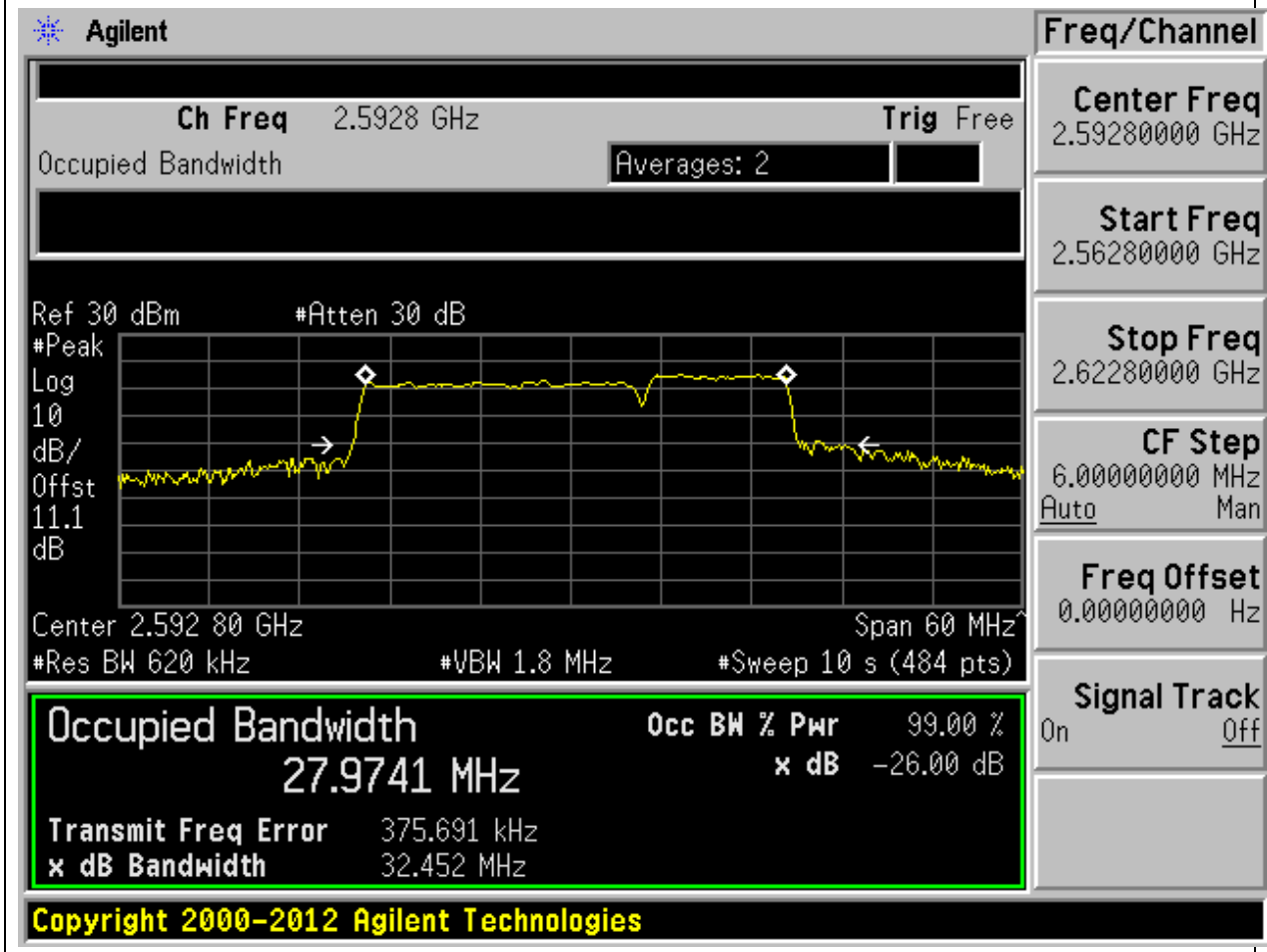
**21.7. CA Occupied Bandwidth(NTNV)(Subtest:7, Channel:40571+40715, Bandwidth:20+10, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.8	99	26	0.62	Peak	27.89	30.19	30	Pass



**21.8. CA Occupied Bandwidth(NTNV)(Subtest:8, Channel:40571+40715, Bandwidth:20+10, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

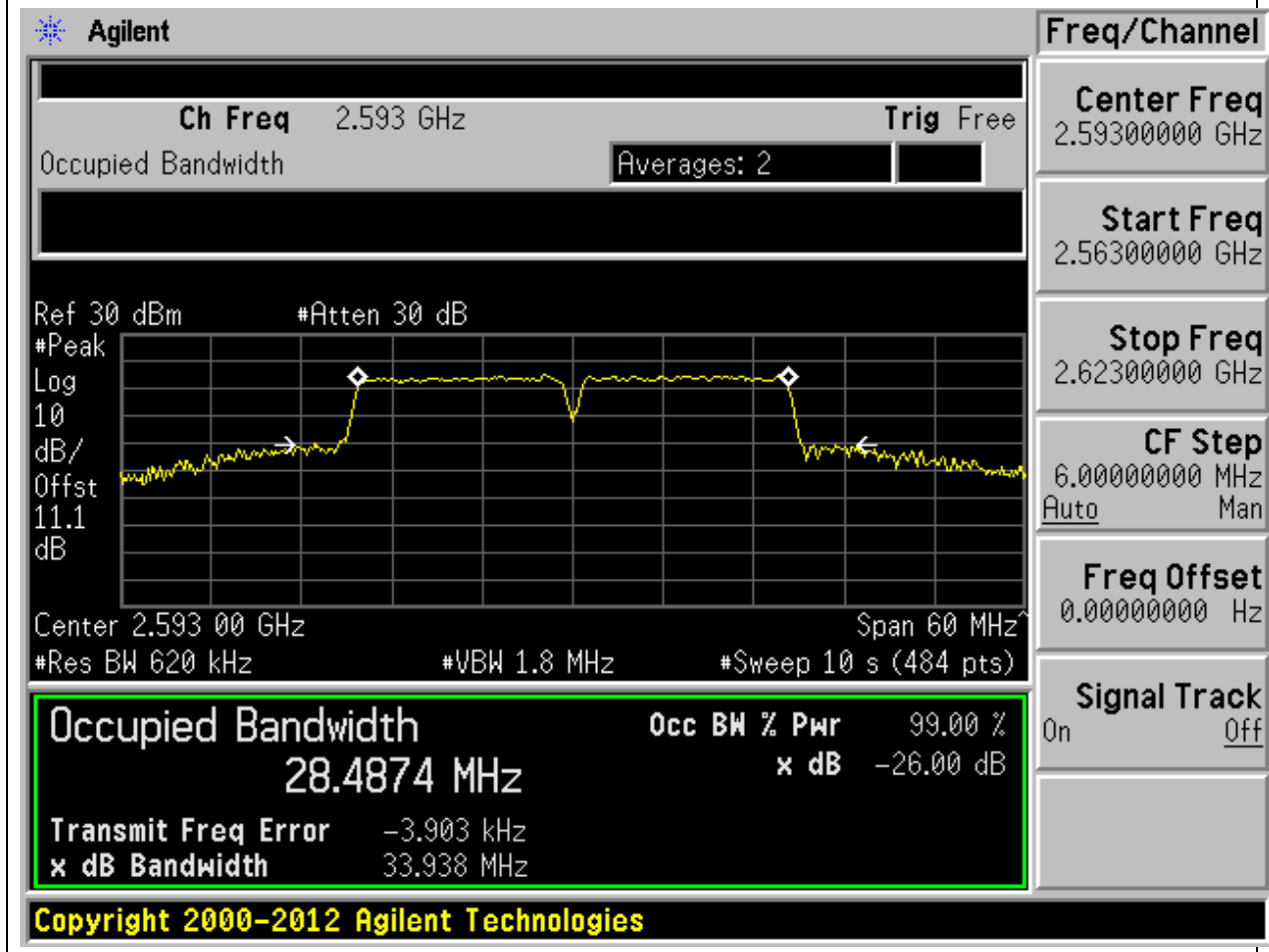
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.8	99	26	0.62	Peak	27.97	32.45	30	Pass





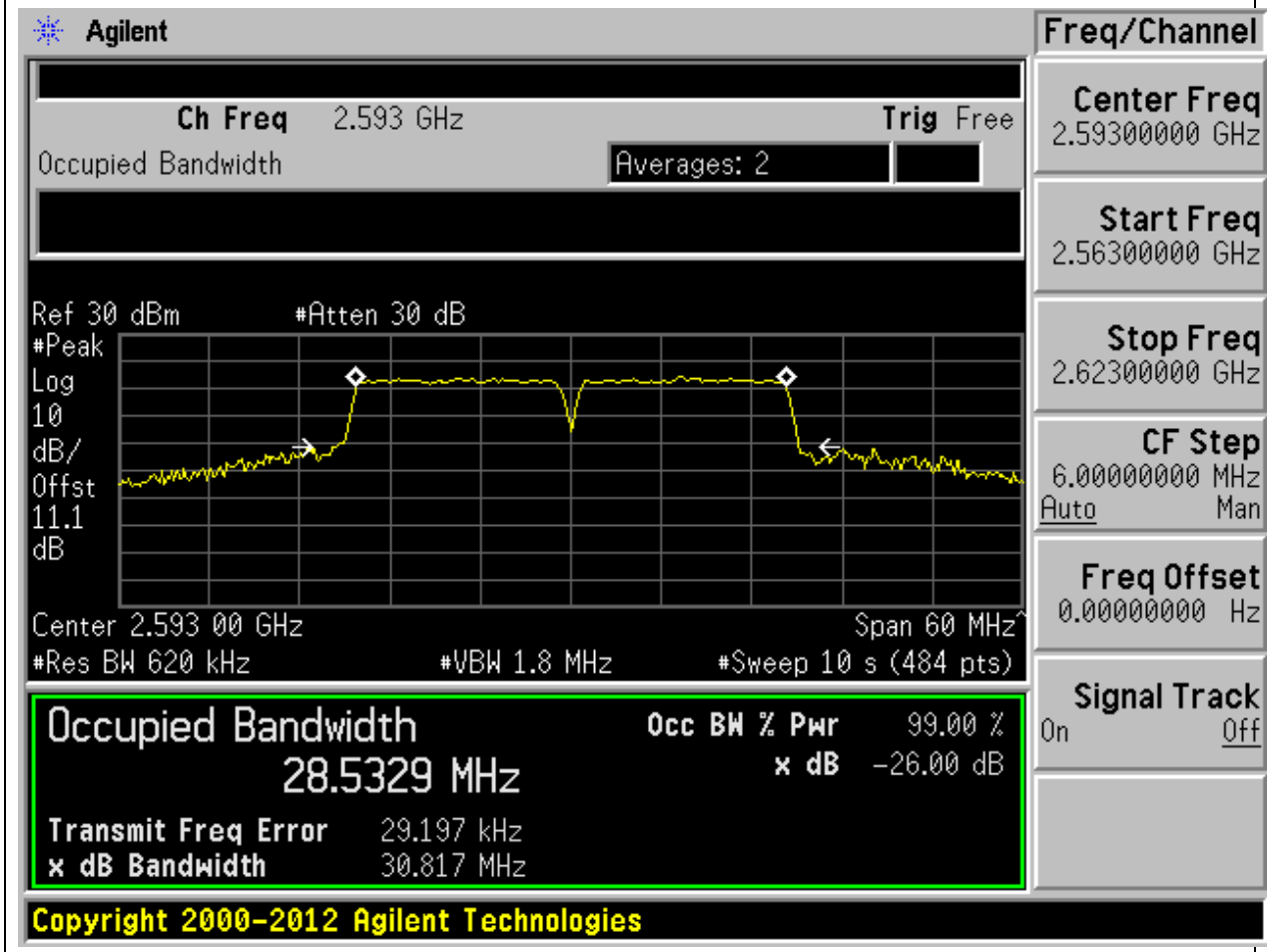
**21.9. CA Occupied Bandwidth(NTNV)(Subtest:9, Channel:40545+40695, Bandwidth:15+15, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.62	Peak	28.49	33.94	30	Pass



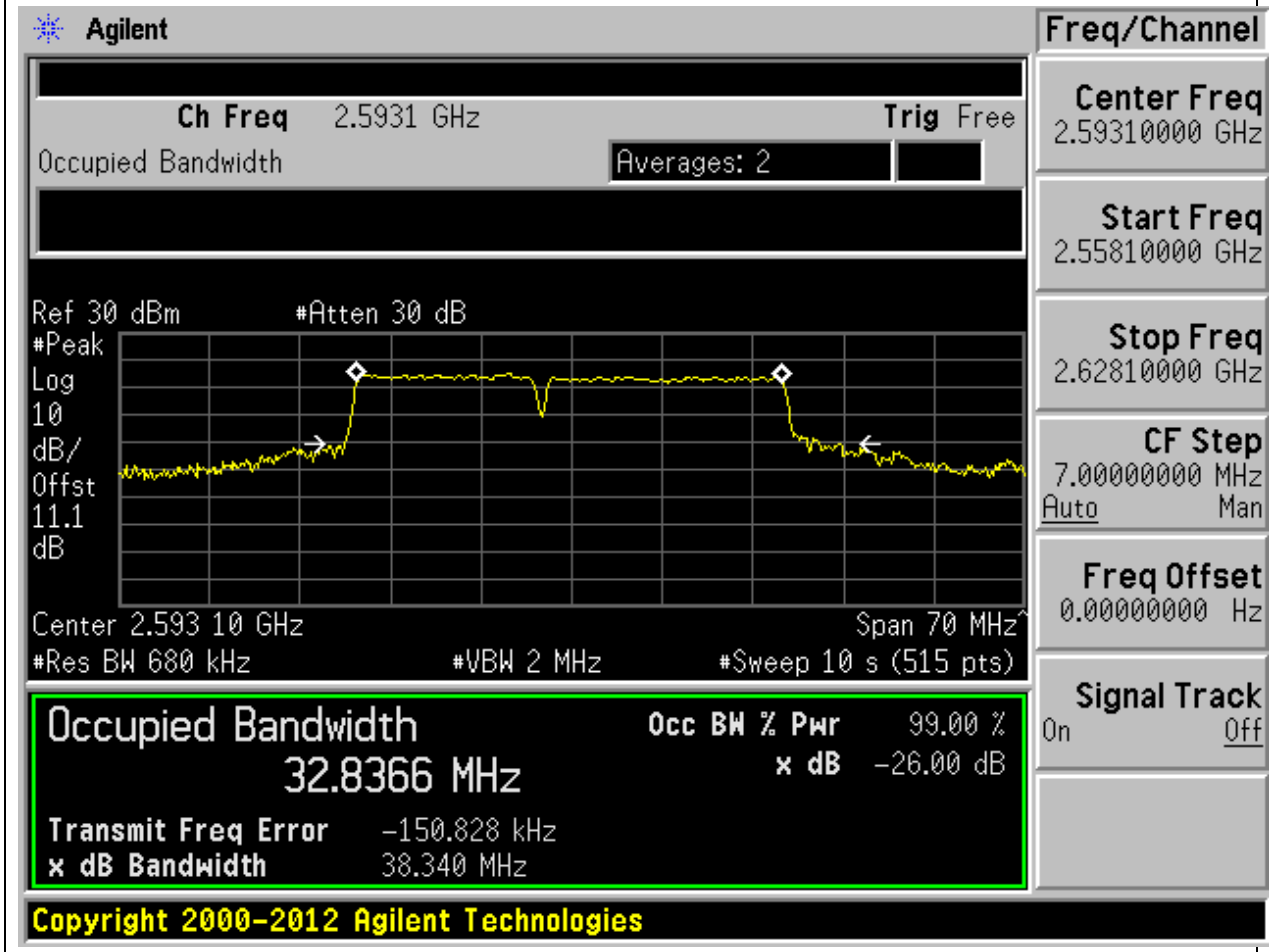
**21.10. CA Occupied Bandwidth(NTNV)(Subtest:10, Channel:40545+40695, Bandwidth:15+15, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.62	Peak	28.53	30.82	30	Pass



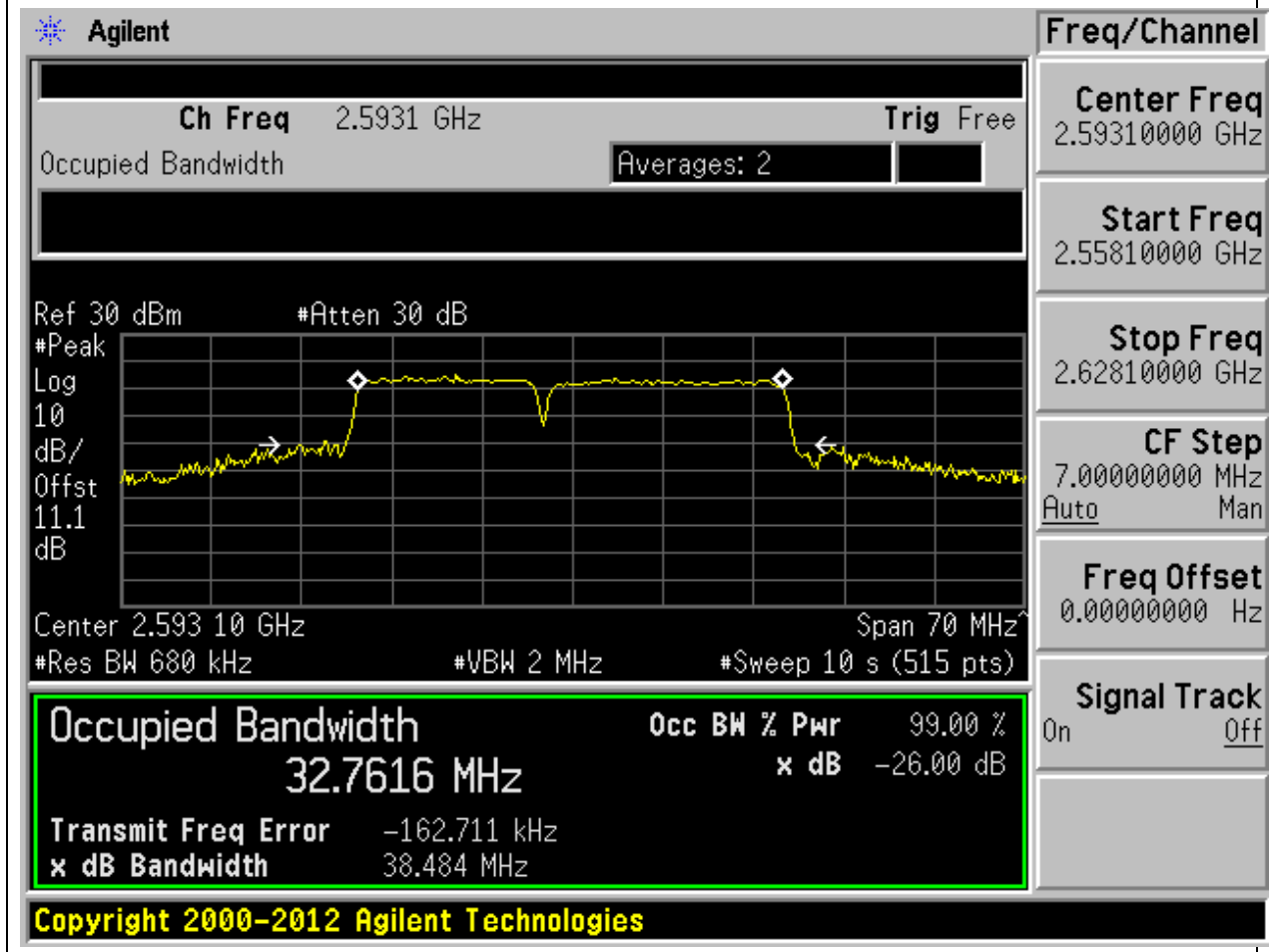
**21.11. CA Occupied Bandwidth(NTNV)(Subtest:11, Channel:40523+40694, Bandwidth:15+20, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.1	99	26	0.68	Peak	32.84	38.34	35	Pass



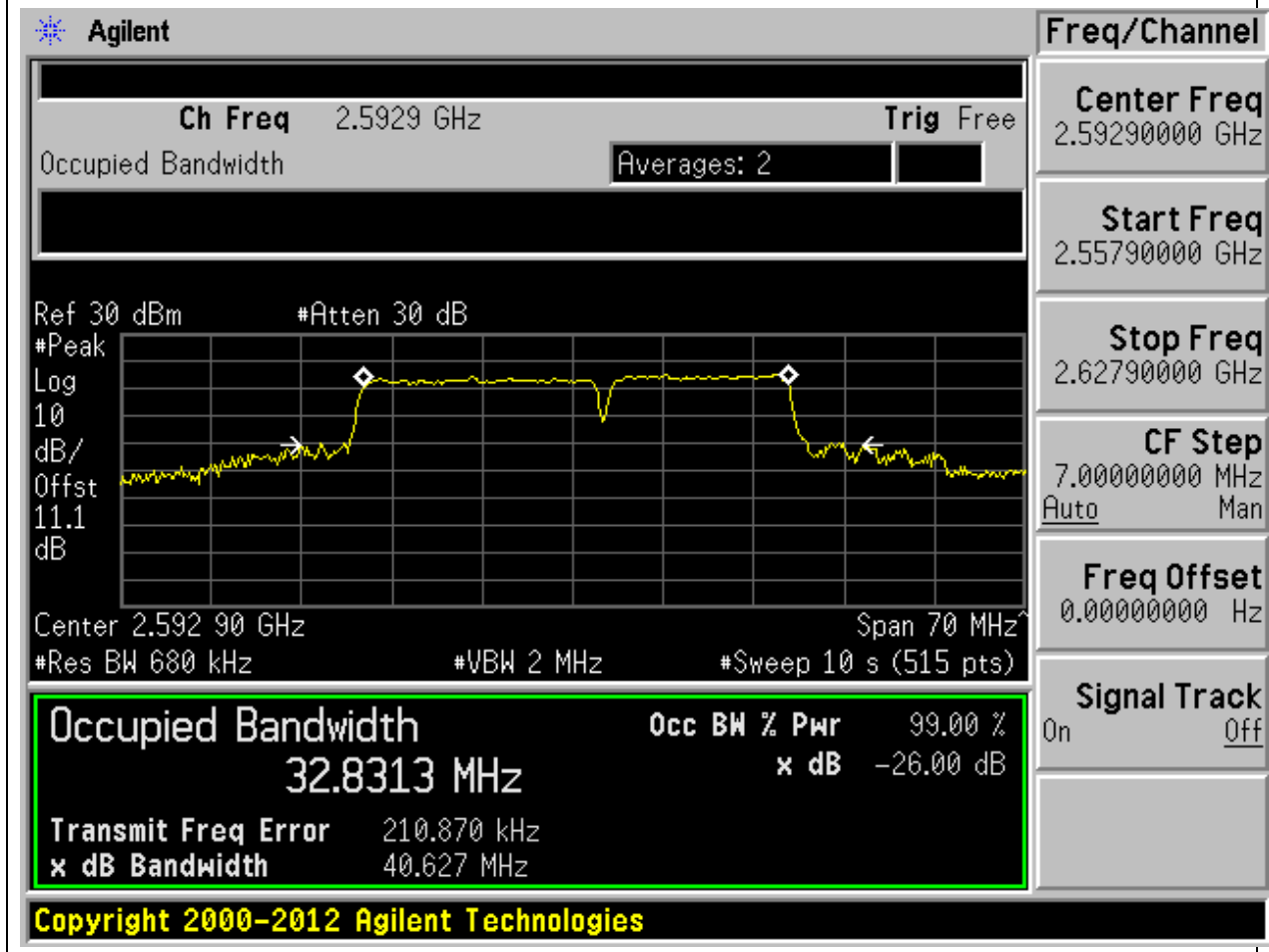
**21.12. CA Occupied Bandwidth(NTNV)(Subtest:12, Channel:40523+40694, Bandwidth:15+20, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.1	99	26	0.68	Peak	32.76	38.48	35	Pass



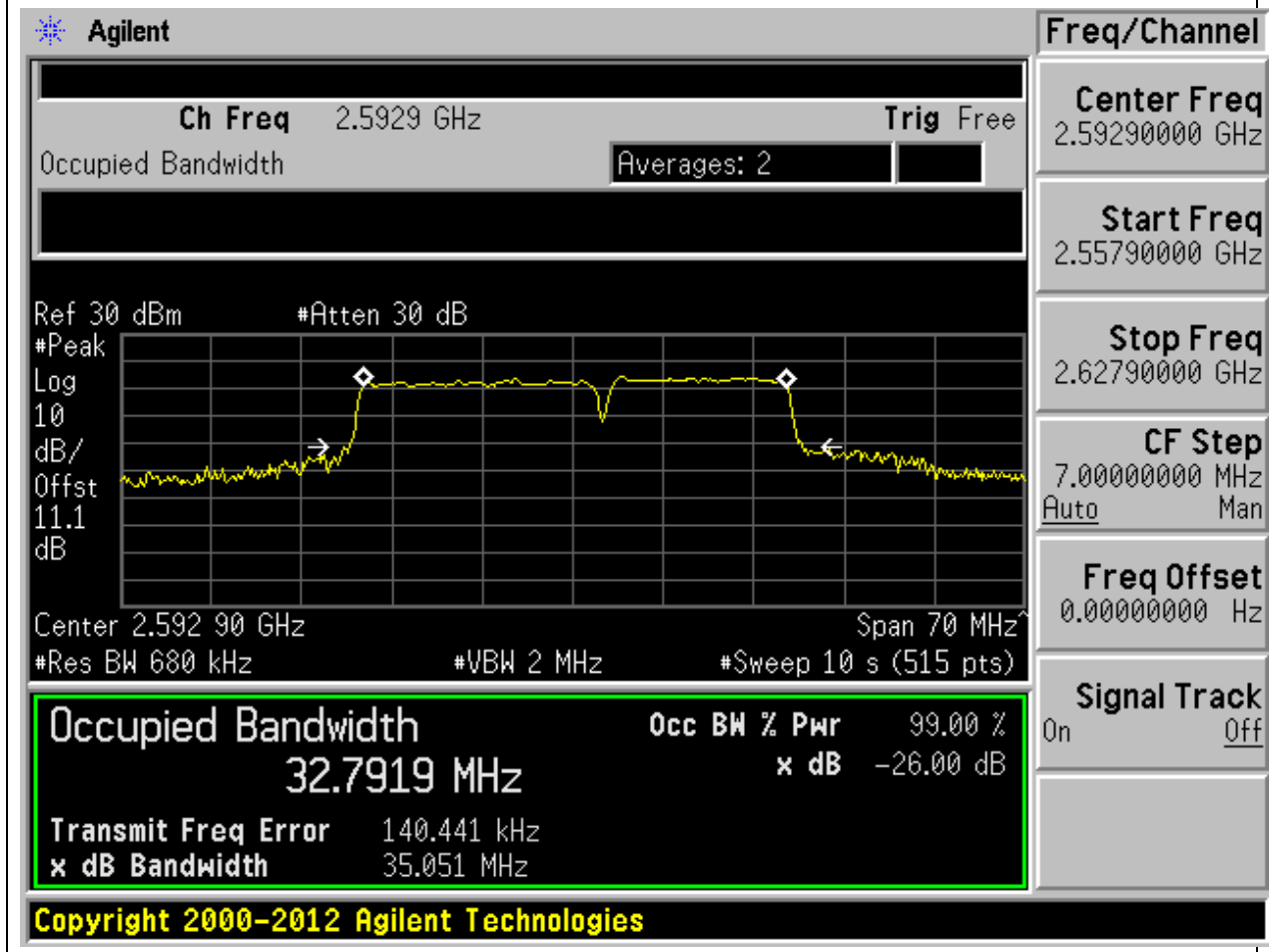
**21.13. CA Occupied Bandwidth(NTNV)(Subtest:13, Channel:40546+40717, Bandwidth:20+15, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.9	99	26	0.68	Peak	32.83	40.63	35	Pass



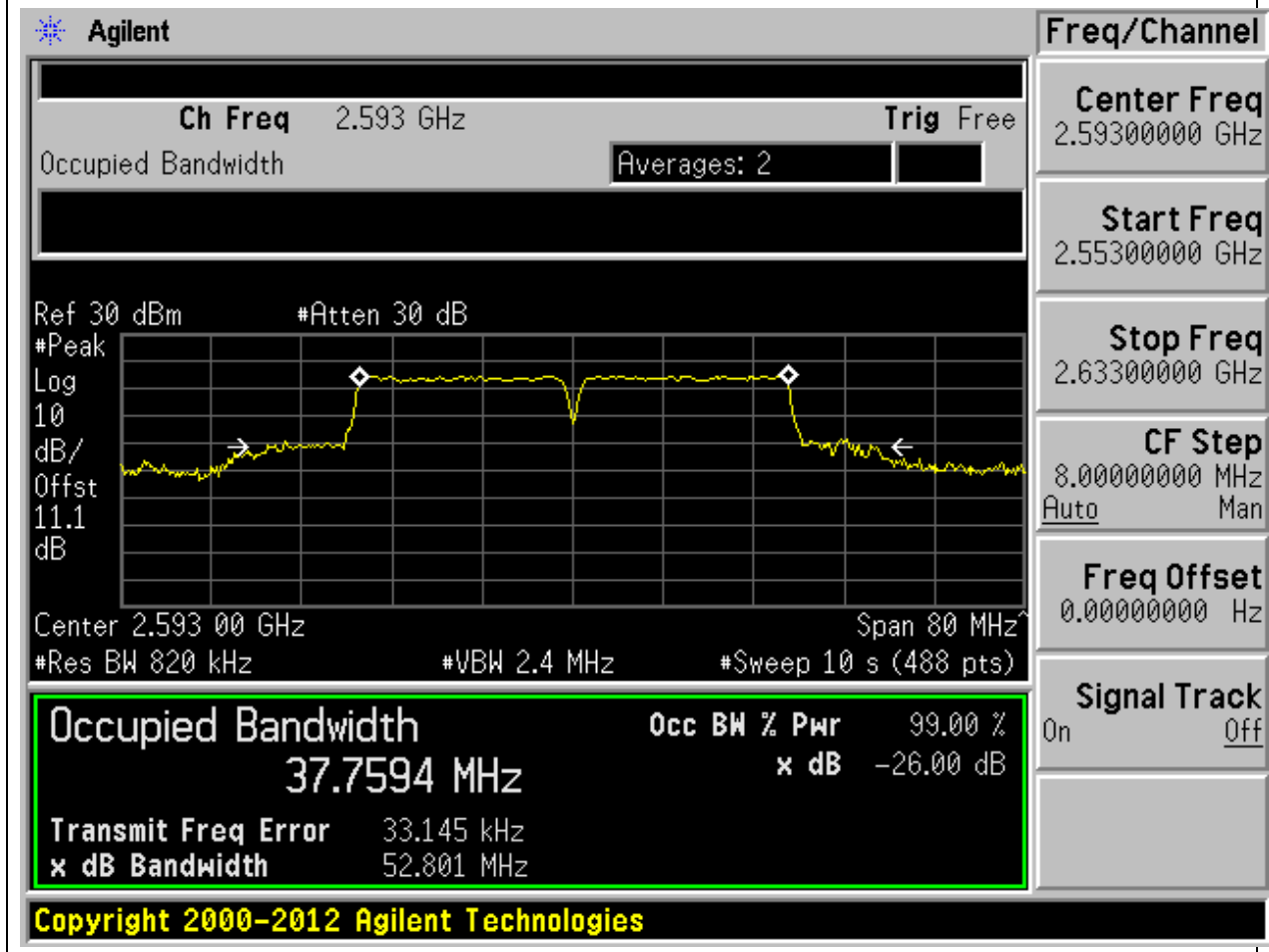
**21.14. CA Occupied Bandwidth(NTNV)(Subtest:14, Channel:40546+40717, Bandwidth:20+15, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.9	99	26	0.68	Peak	32.79	35.05	35	Pass



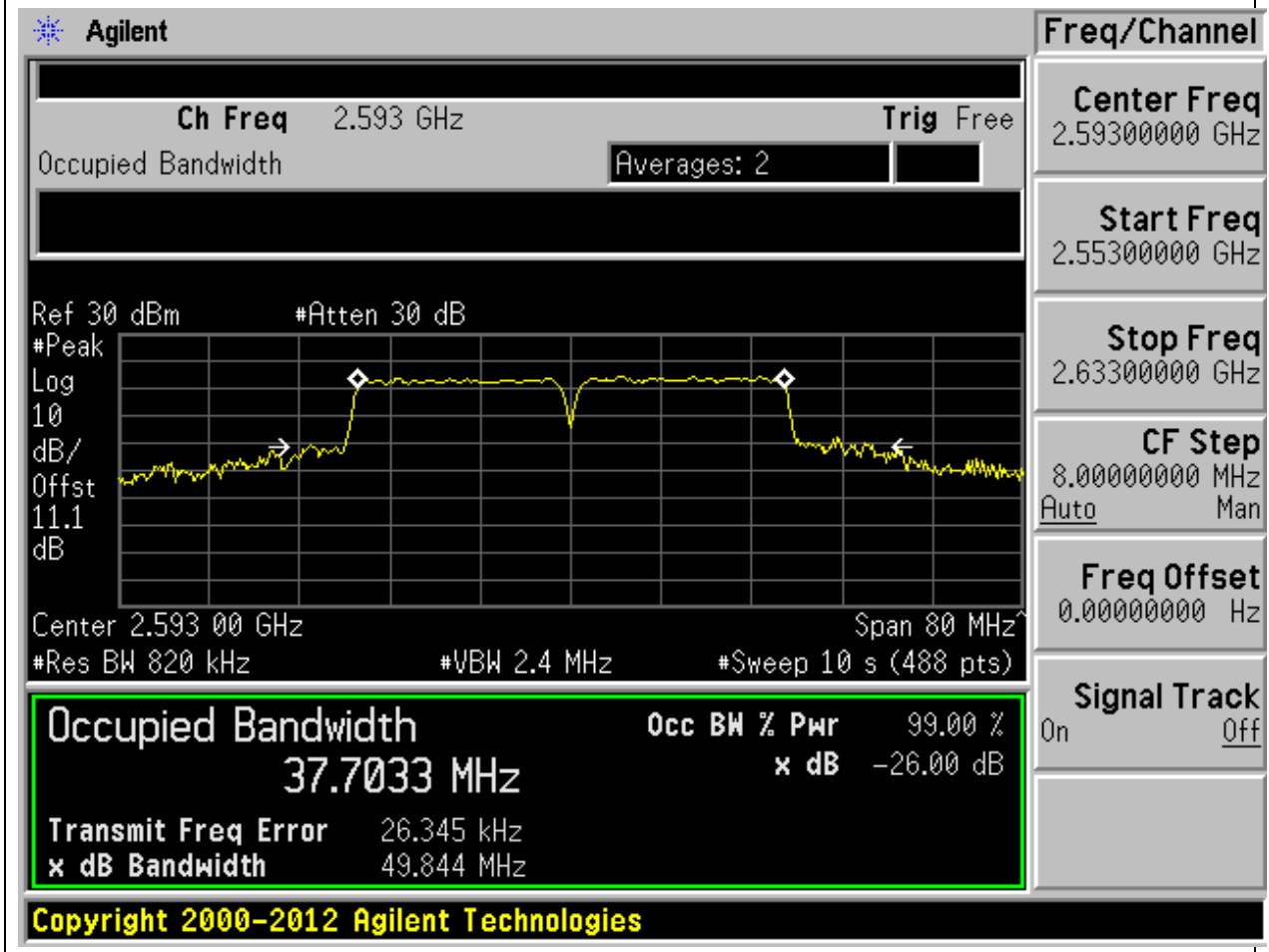
**21.15. CA Occupied Bandwidth(NTNV)(Subtest:15, Channel:40521+40719, Bandwidth:20+20, Modulation:QPSK, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.82	Peak	37.76	52.8	40	Pass



**21.16. CA Occupied Bandwidth(NTNV)(Subtest:16, Channel:40521+40719, Bandwidth:20+20, Modulation:16QAM, RB Number:Full+Full, RB Position:Low+Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.82	Peak	37.7	49.84	40	Pass





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END