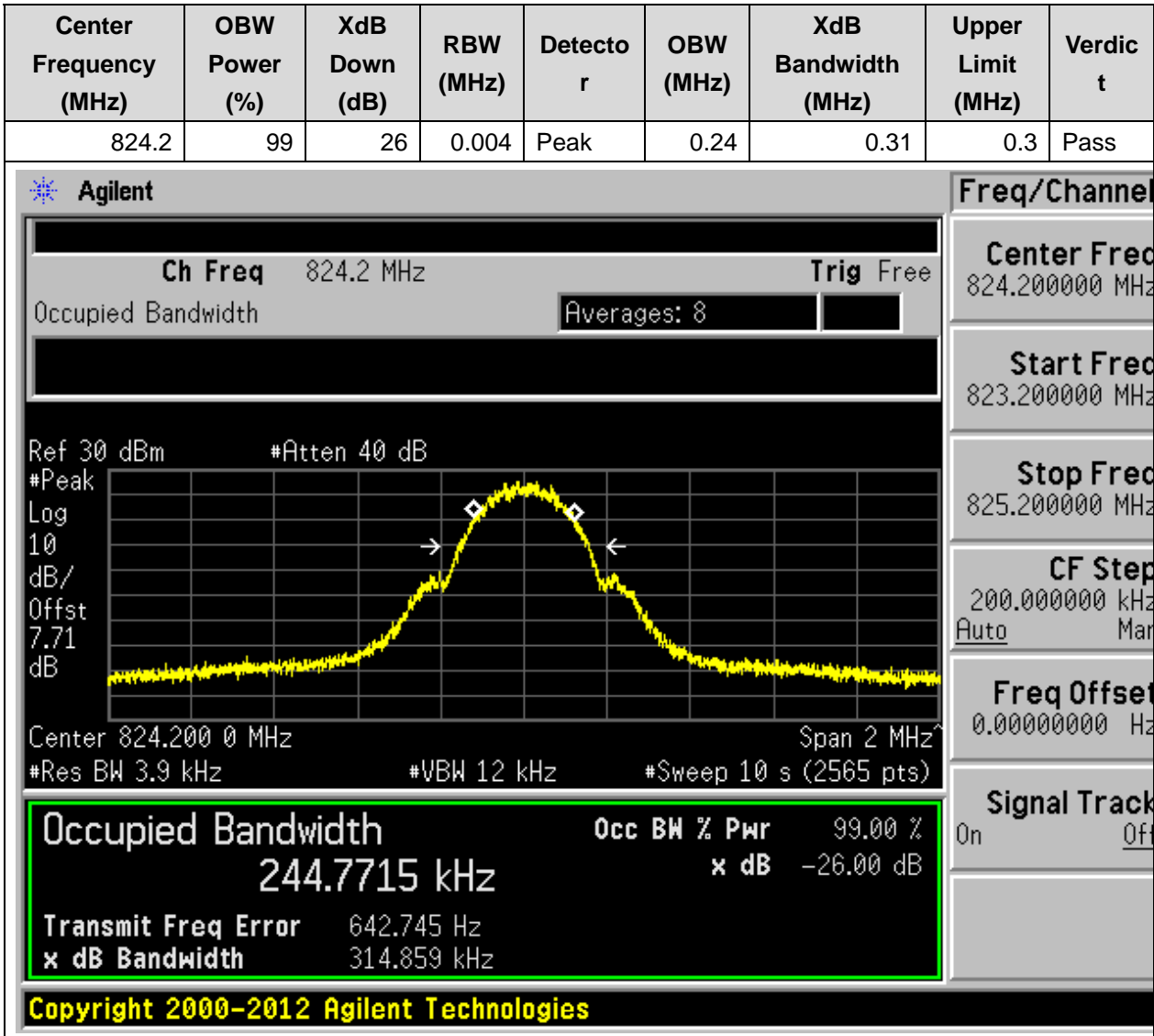

Annex A.3 Occupied Bandwidth

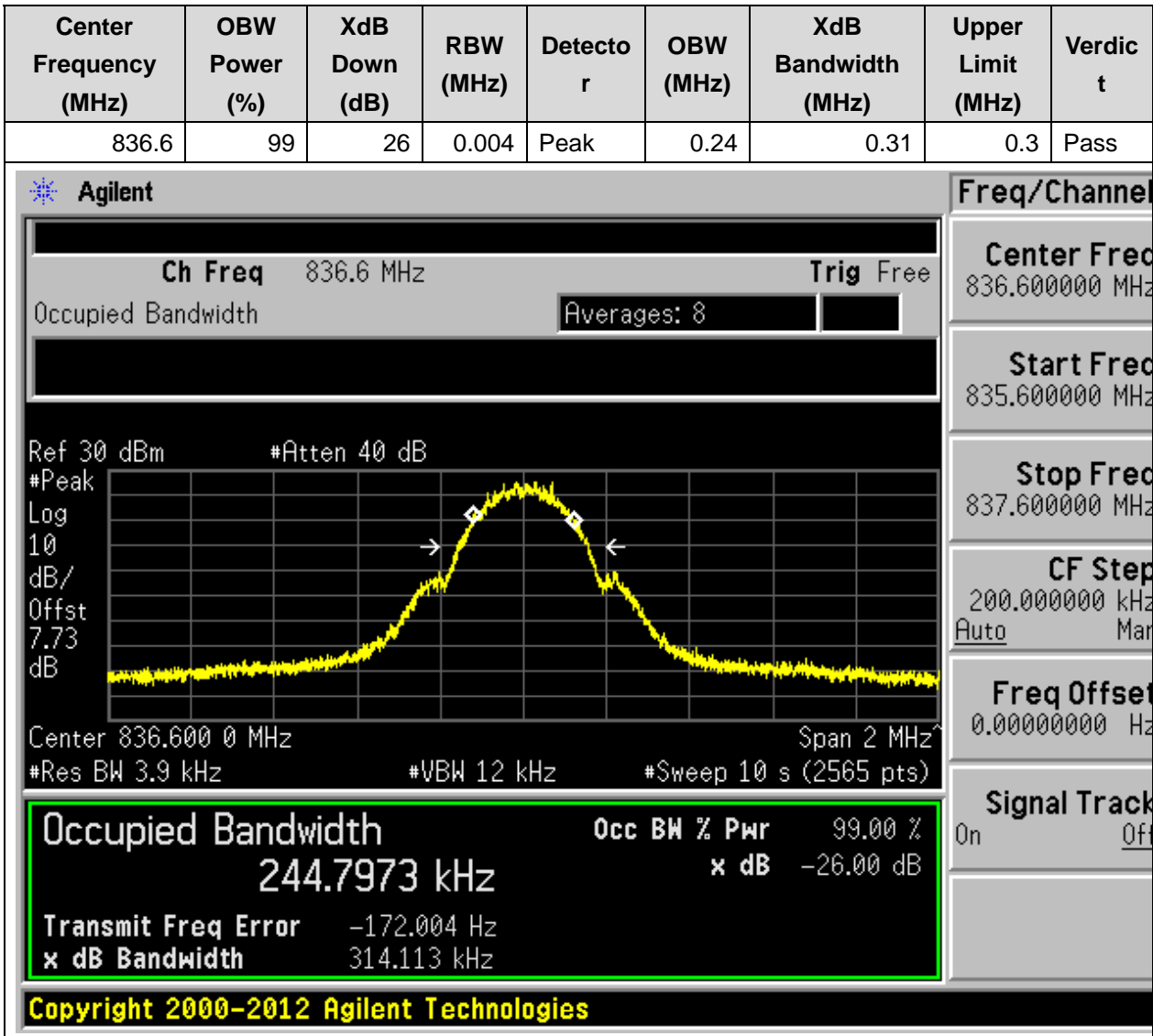
GSM

1. GSM_GSM850

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



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



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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
848.8	99	26	0.004	Peak	0.24	0.31	0.3	Pass

Agilent

Ch Freq 848.8 MHz Trig Free

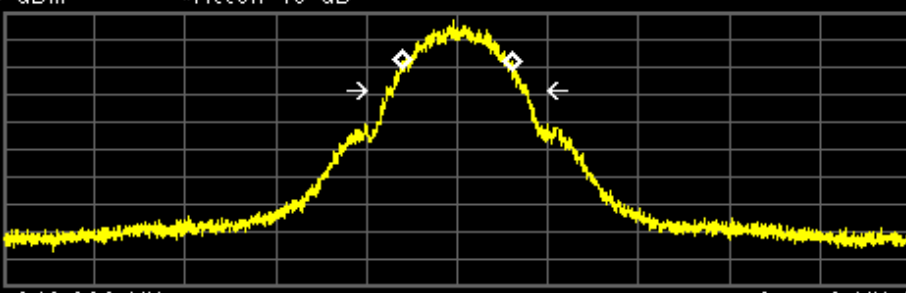
Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

#Peak

Log 10

dB/Offst 7.74 dB



Center 848.800 MHz Span 2 MHz

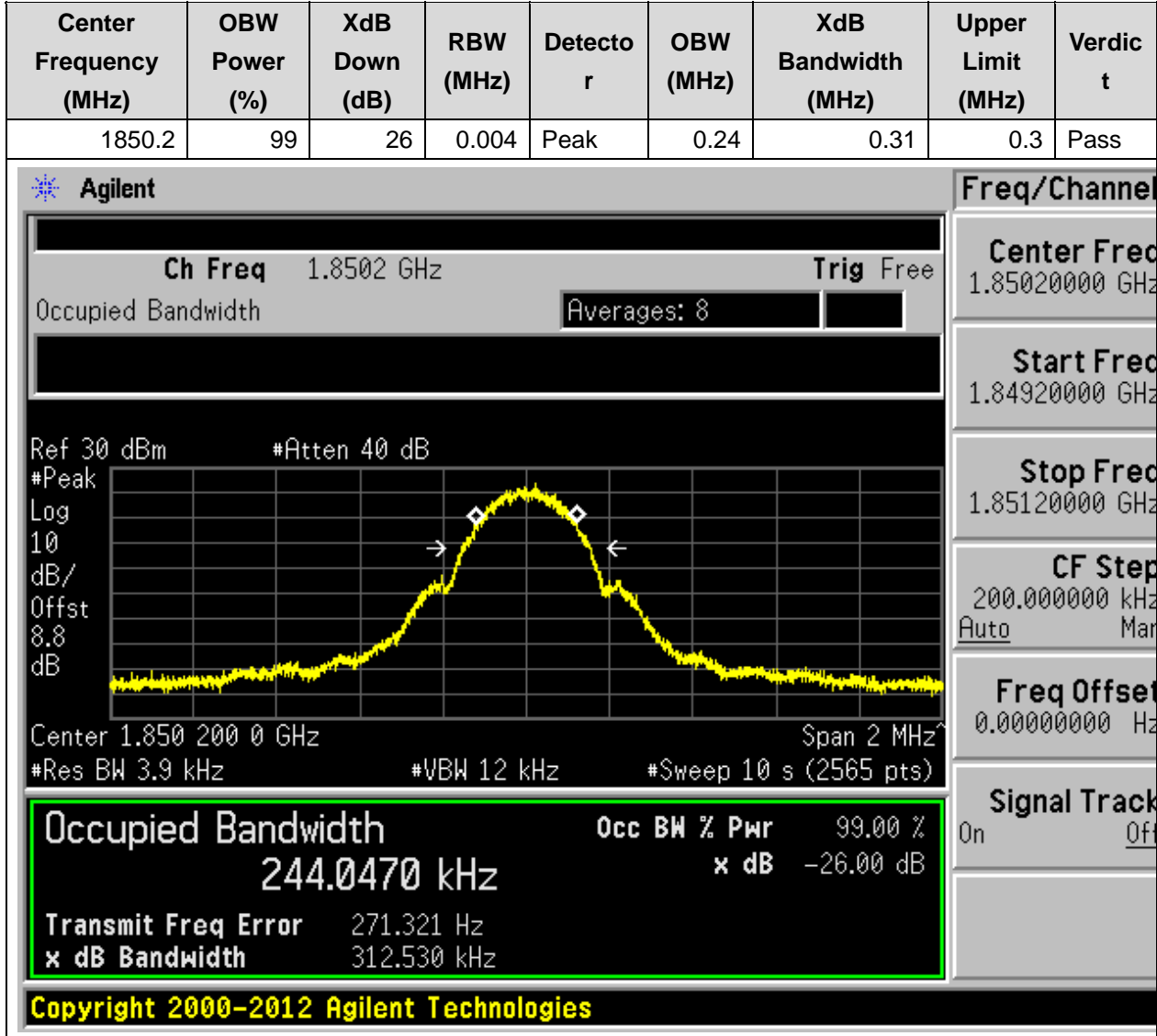
#Res BW 3.9 kHz #VBW 12 kHz #Sweep 10 s (2565 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
243.1056 kHz	x dB	-26.00 dB
Transmit Freq Error	-348.100 Hz	
x dB Bandwidth	308.078 kHz	

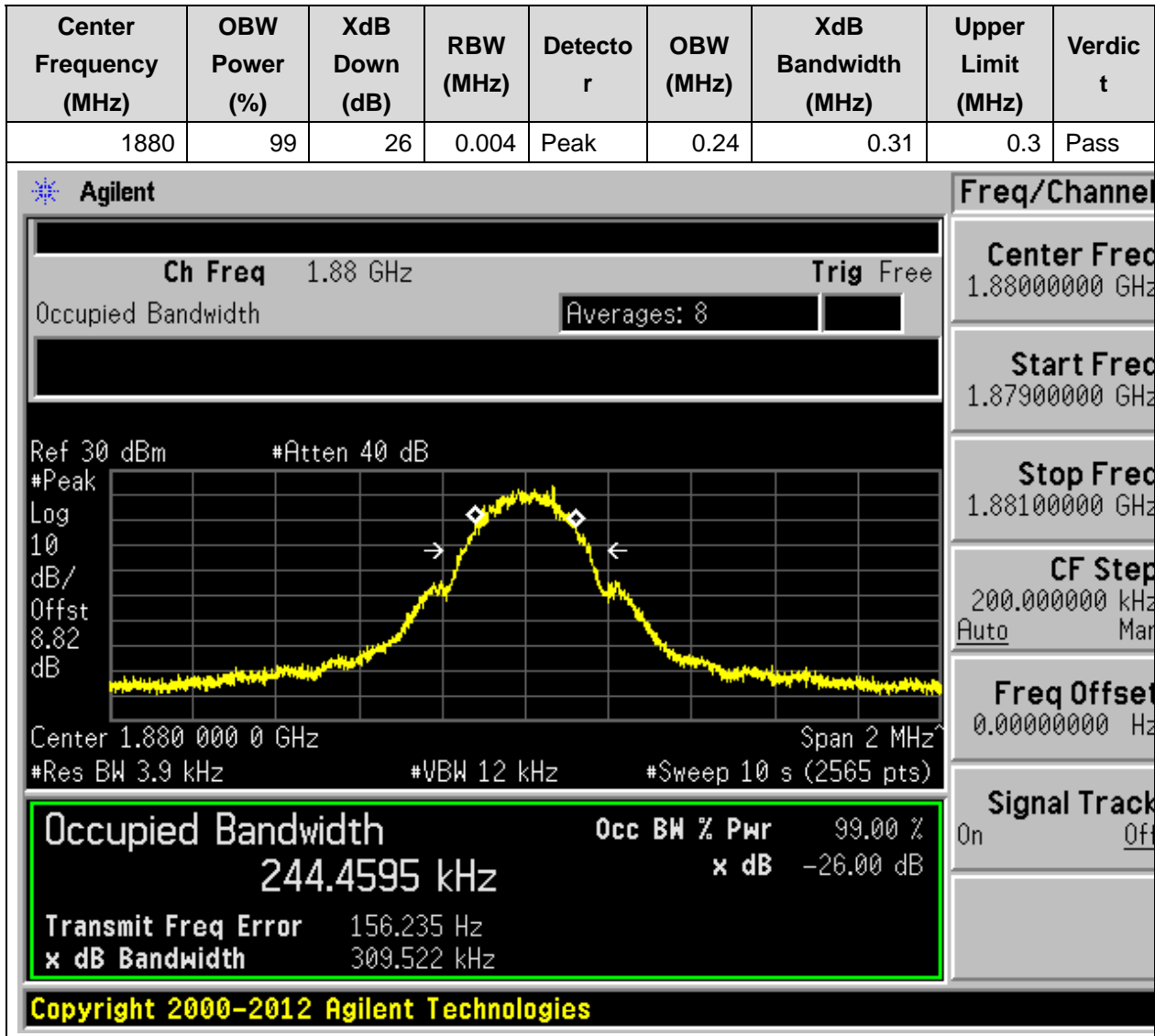
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2. GSM_PCS

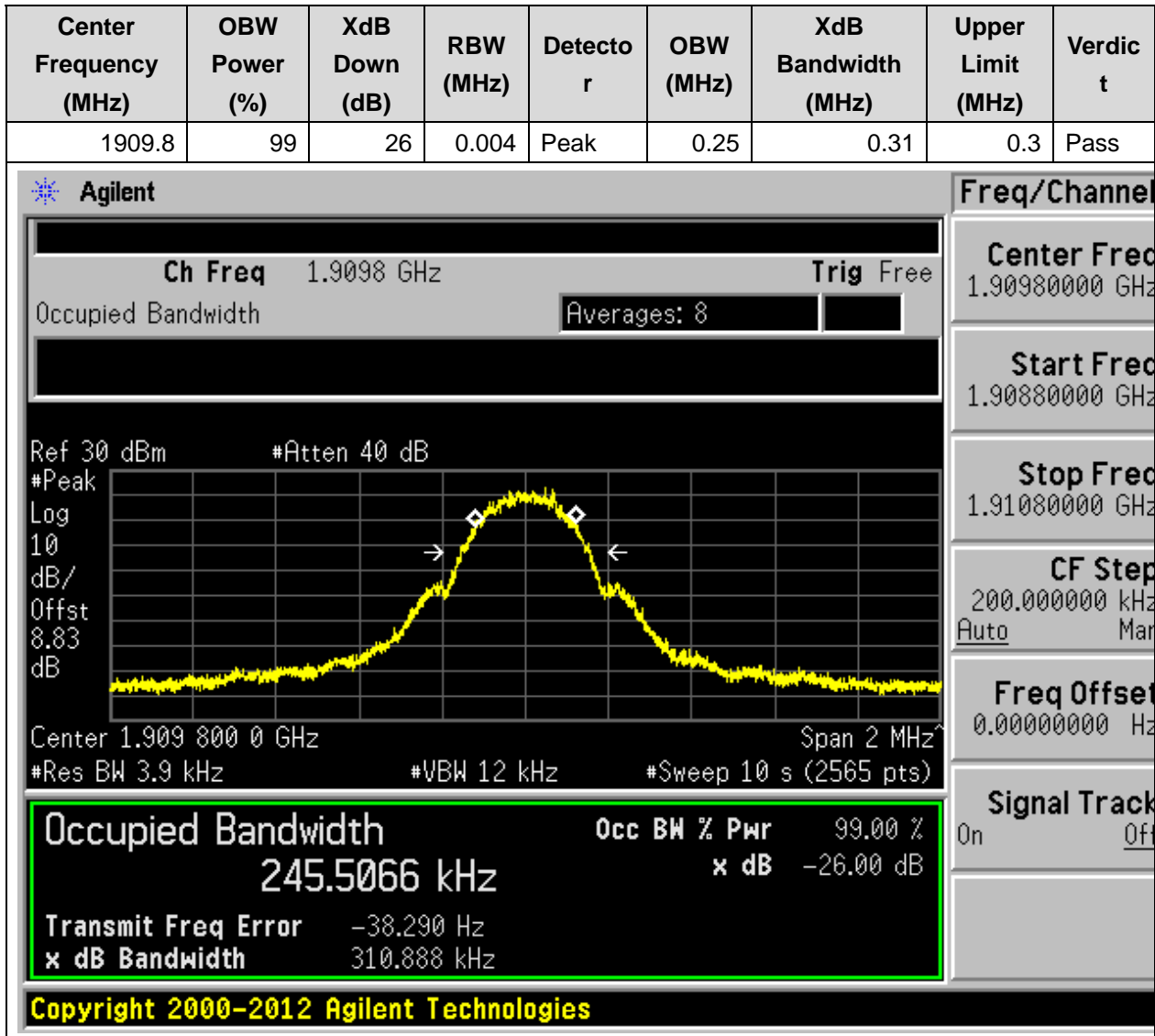
2.1. GSM Occupied Bandwidth(NTNV)(Channel:512)



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



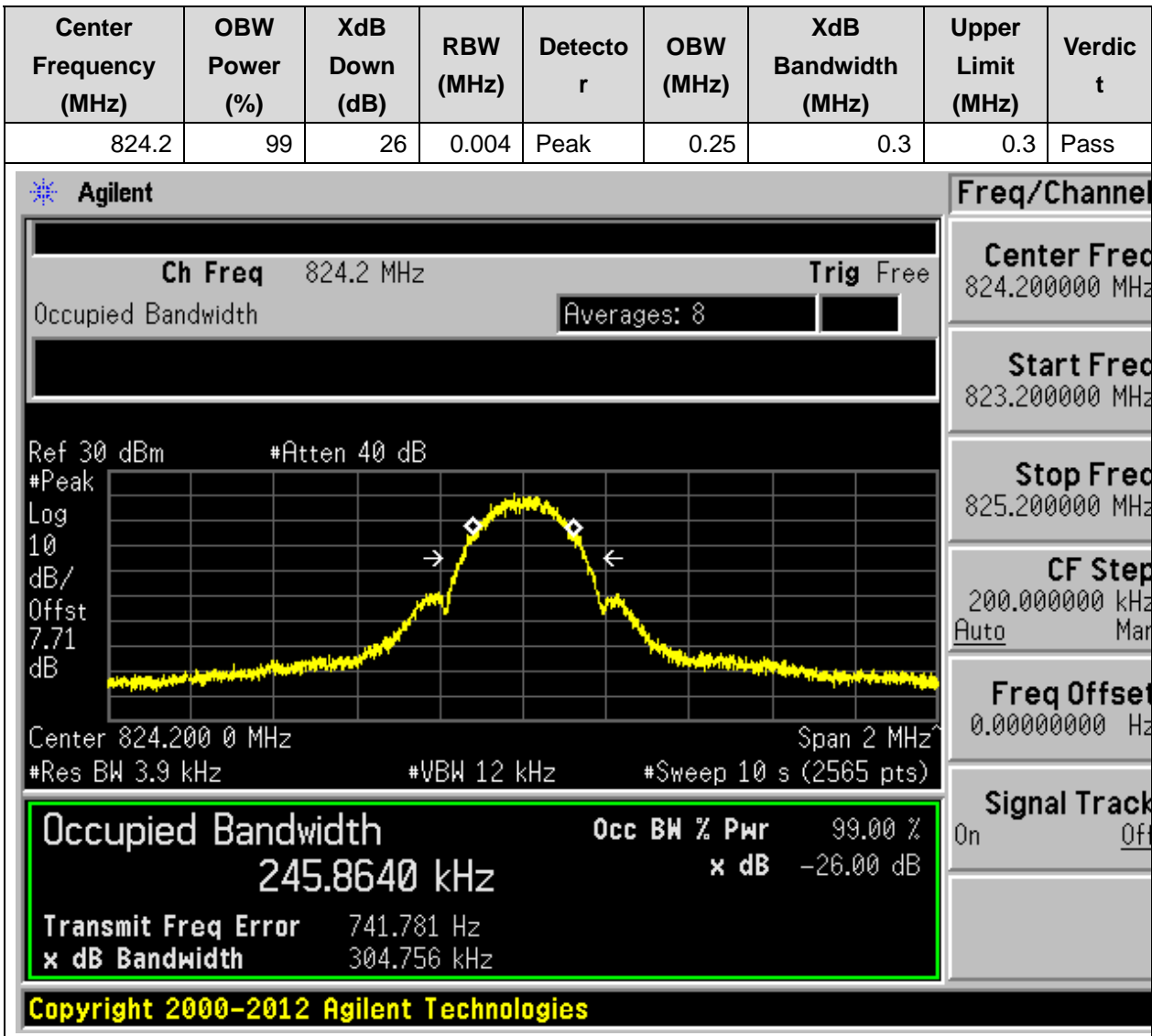
2.3. GSM Occupied Bandwidth(NTNV)(Channel:810)



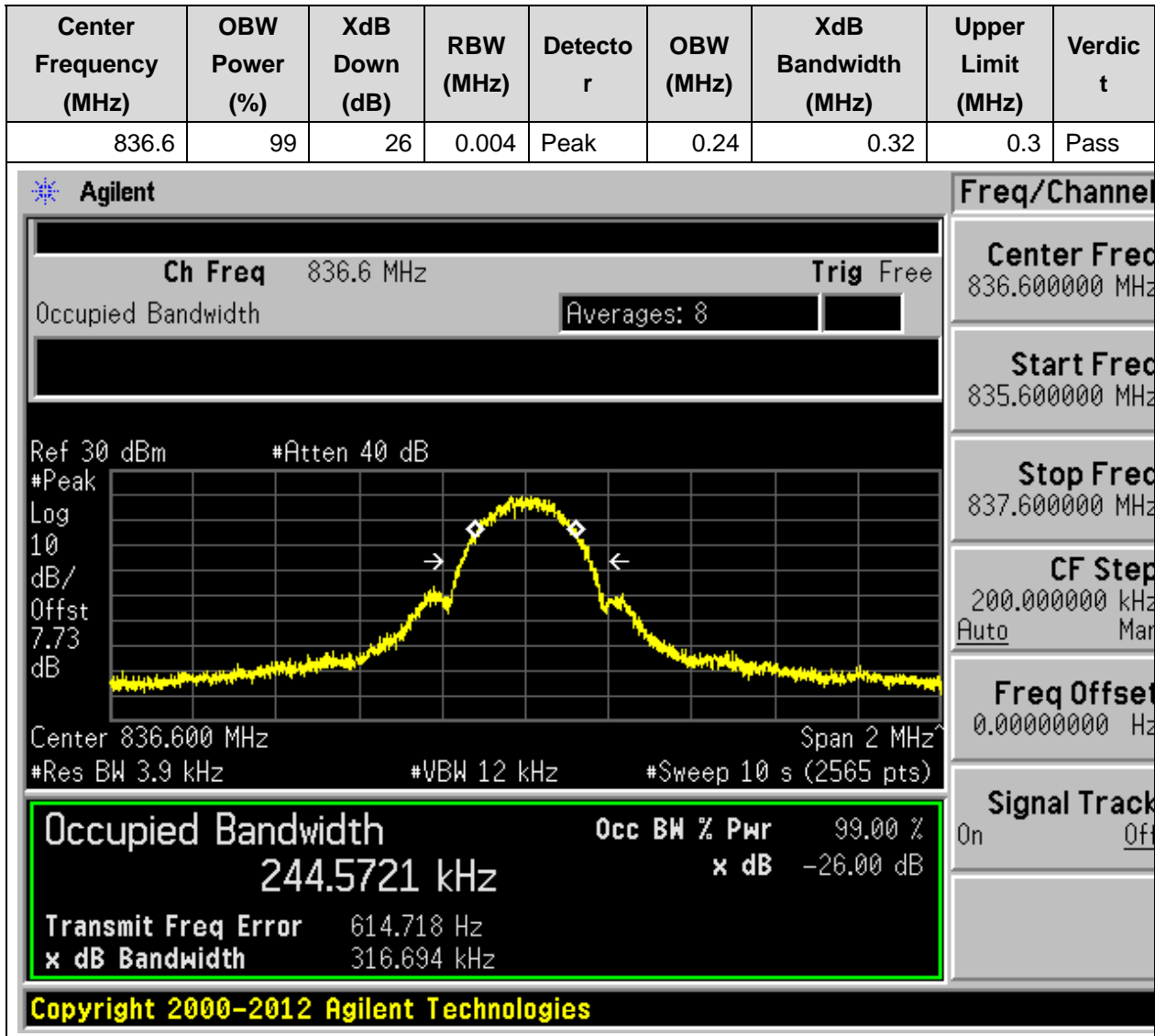
EGPRS

3. EGPRS_GSM850

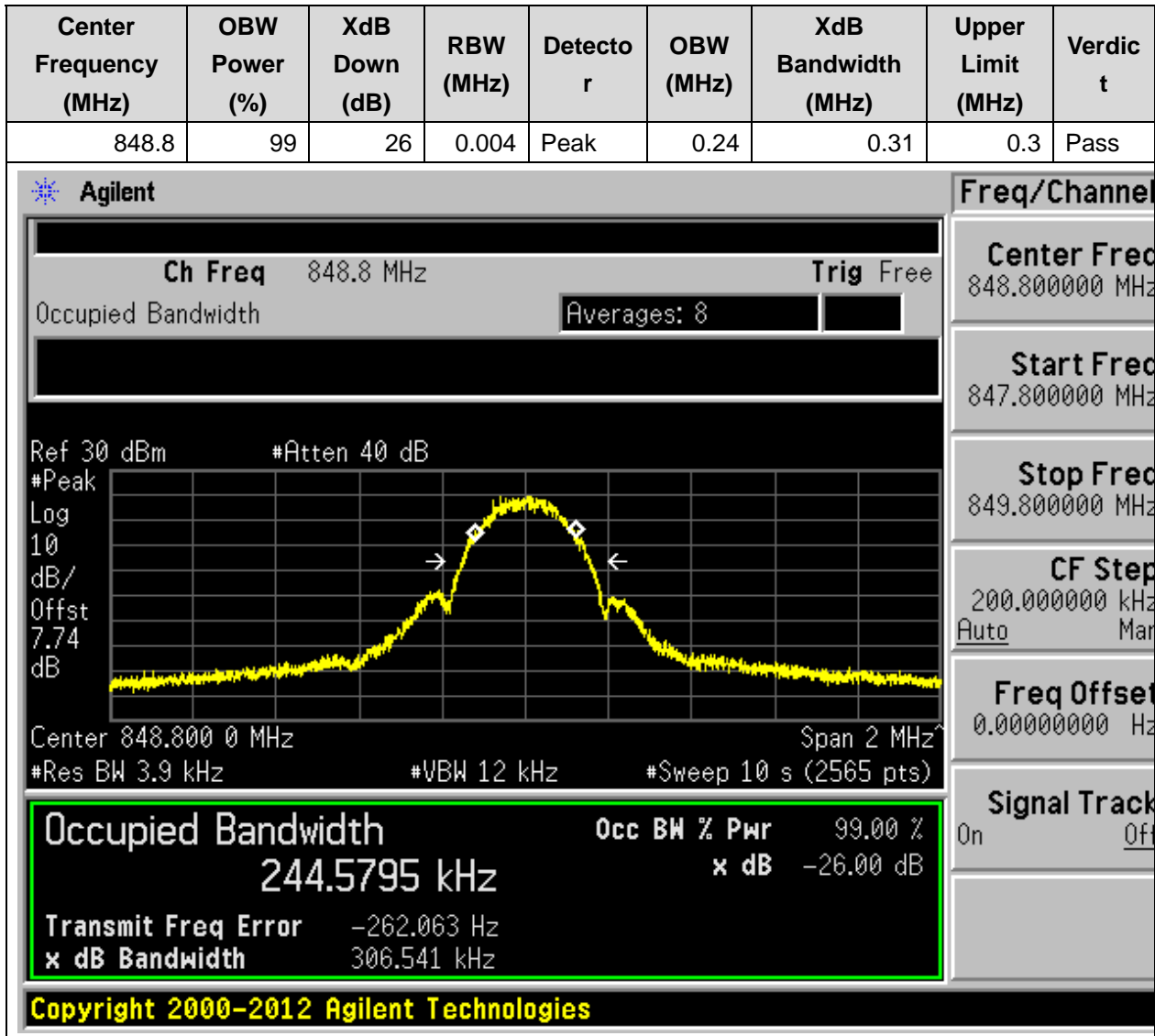
3.1. EGPRS Occupied Bandwidth(NTNV)(Channel:128)



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

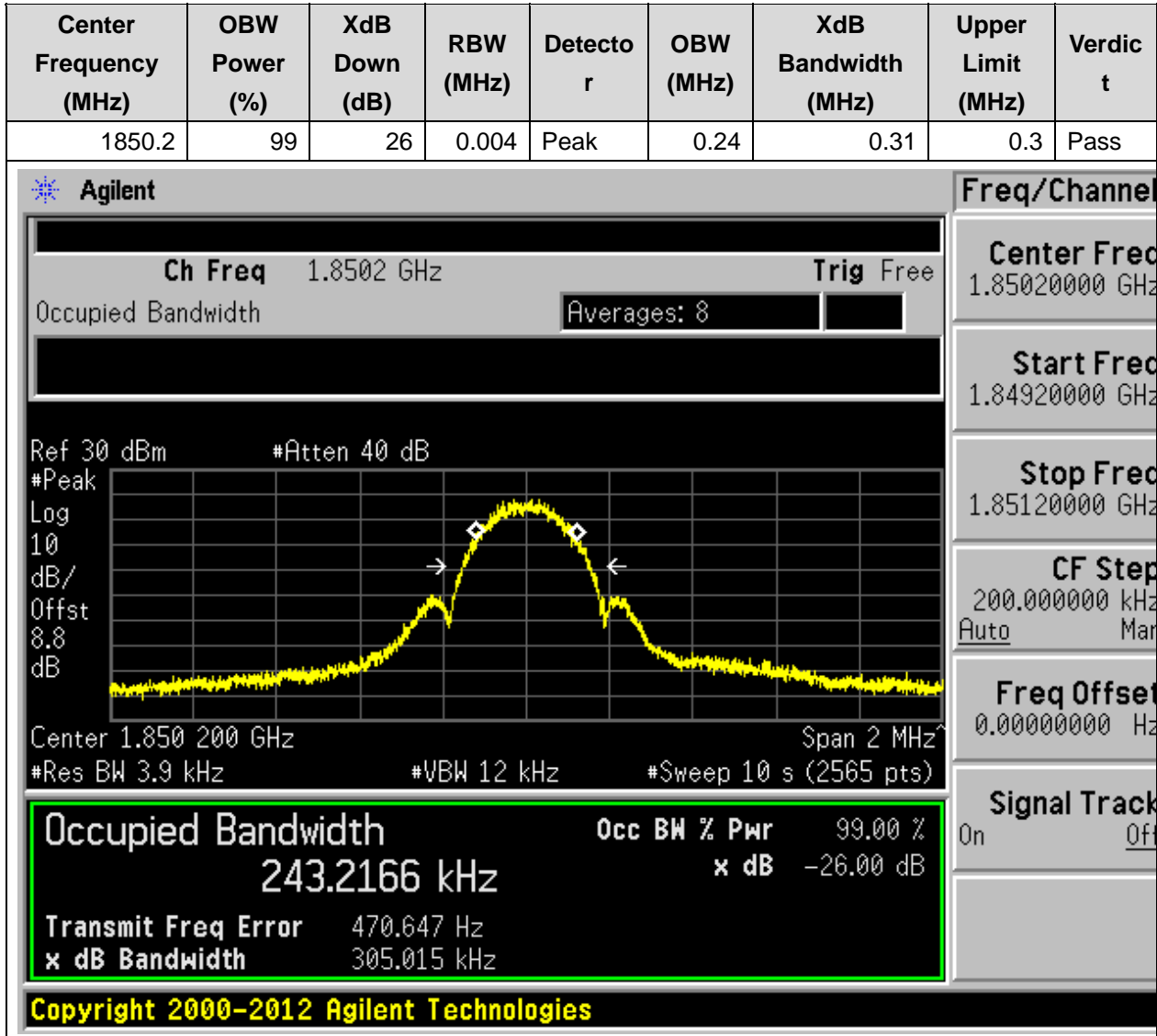


3.3. EGPRS Occupied Bandwidth(NTNV)(Channel:251)

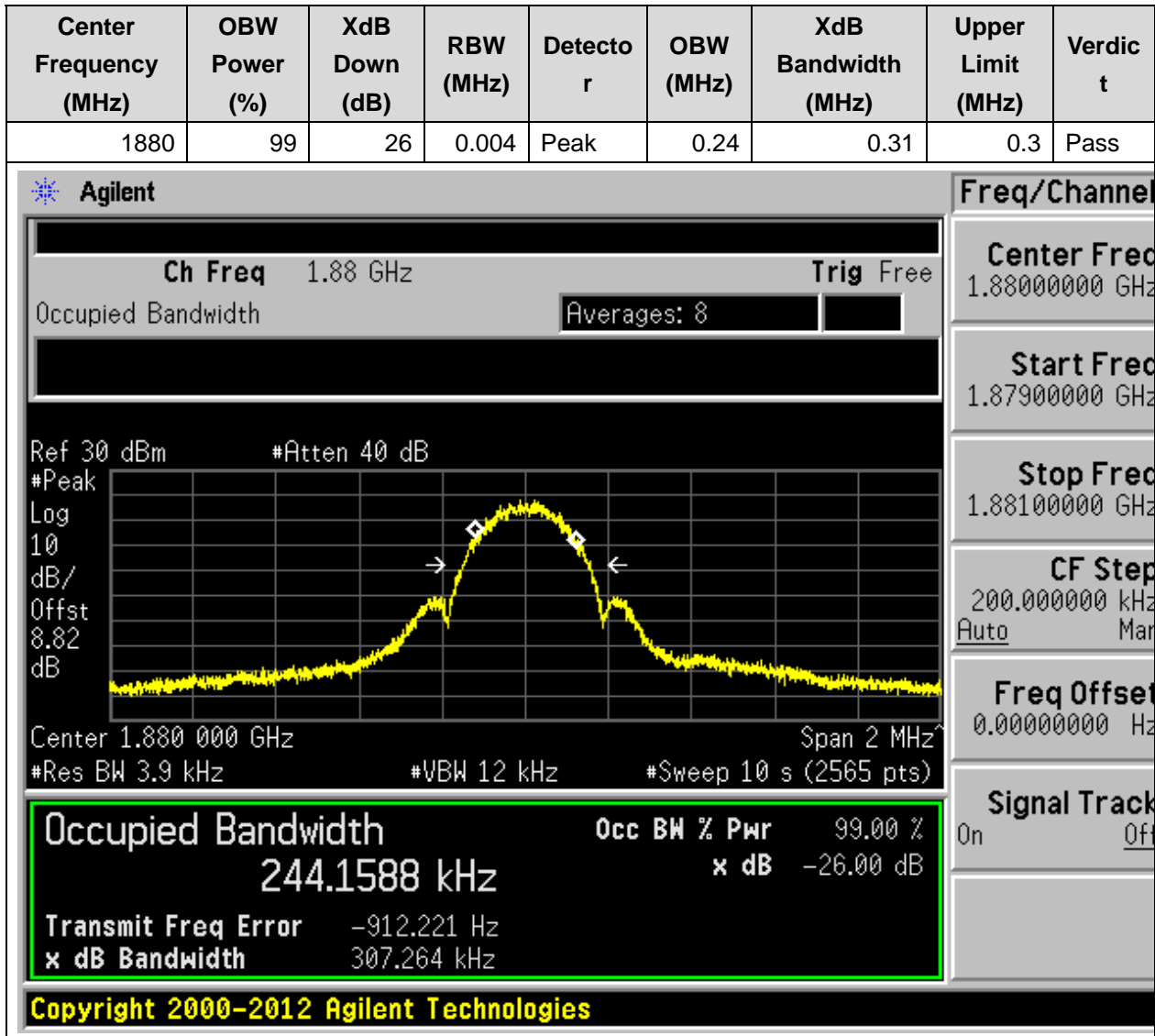


4. EGPRS_PCS

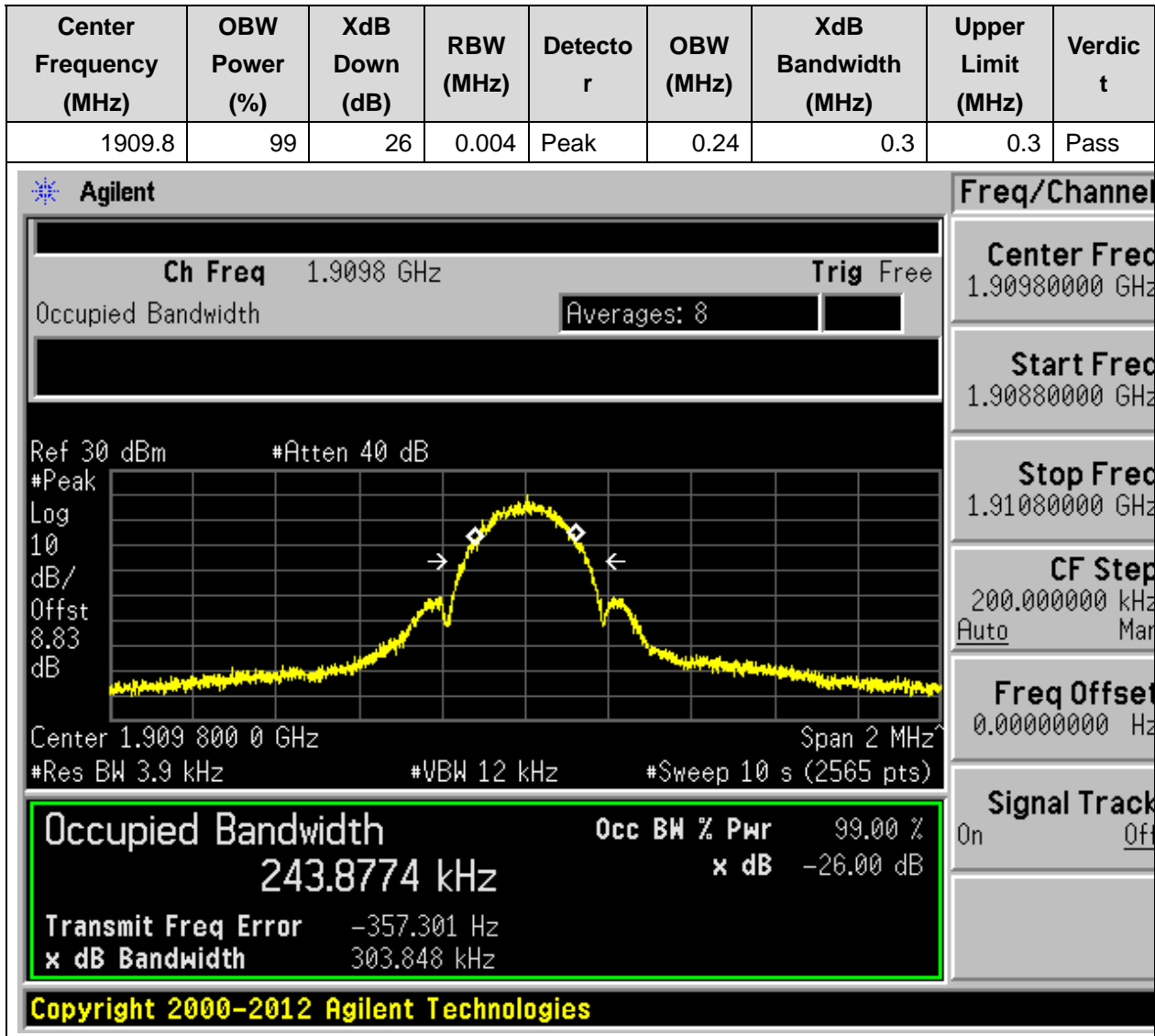
4.1. EGPRS Occupied Bandwidth(NTNV)(Channel:512)



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



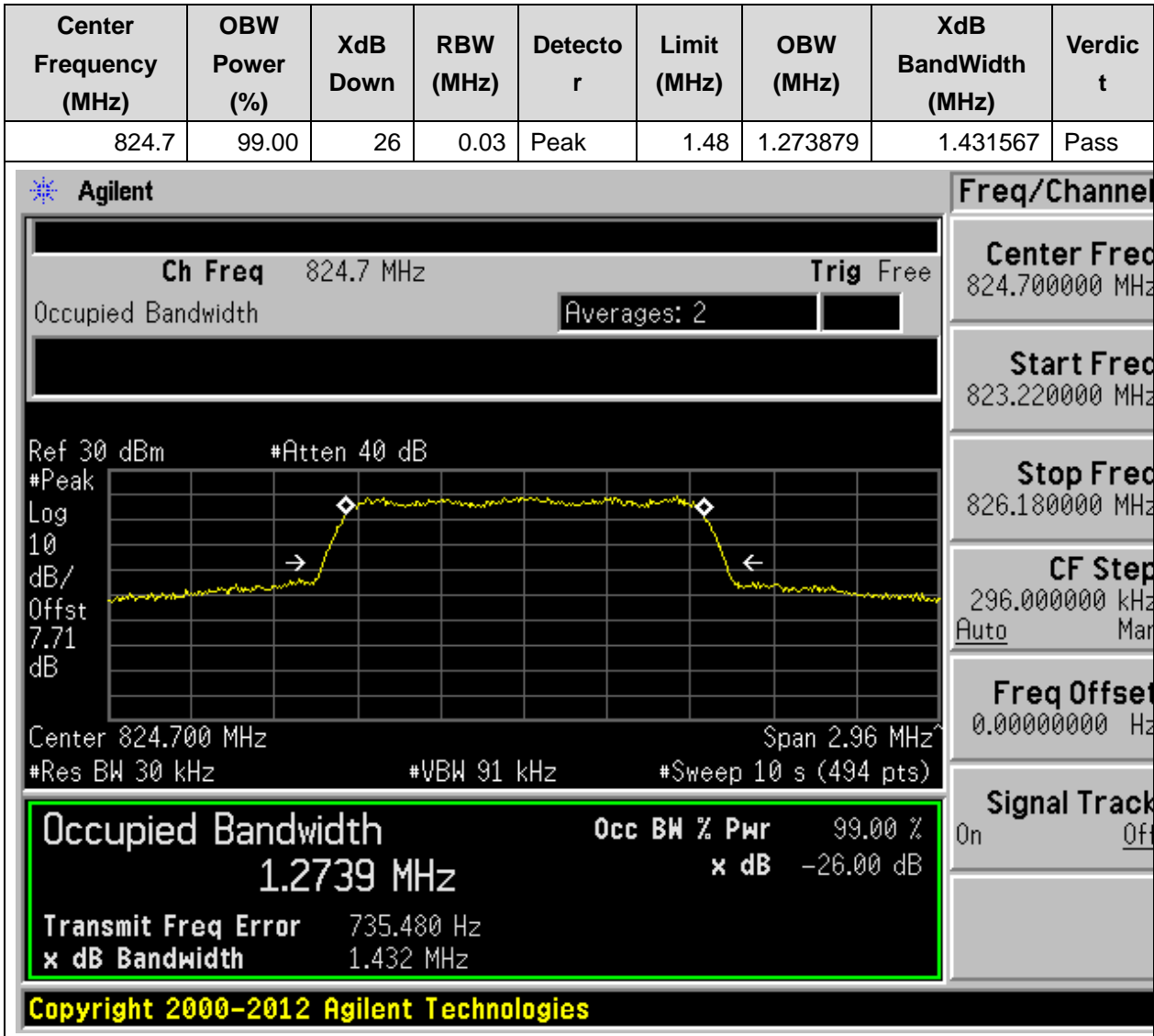
4.3. EGPRS Occupied Bandwidth(NTNV)(Channel:810)



CDMA

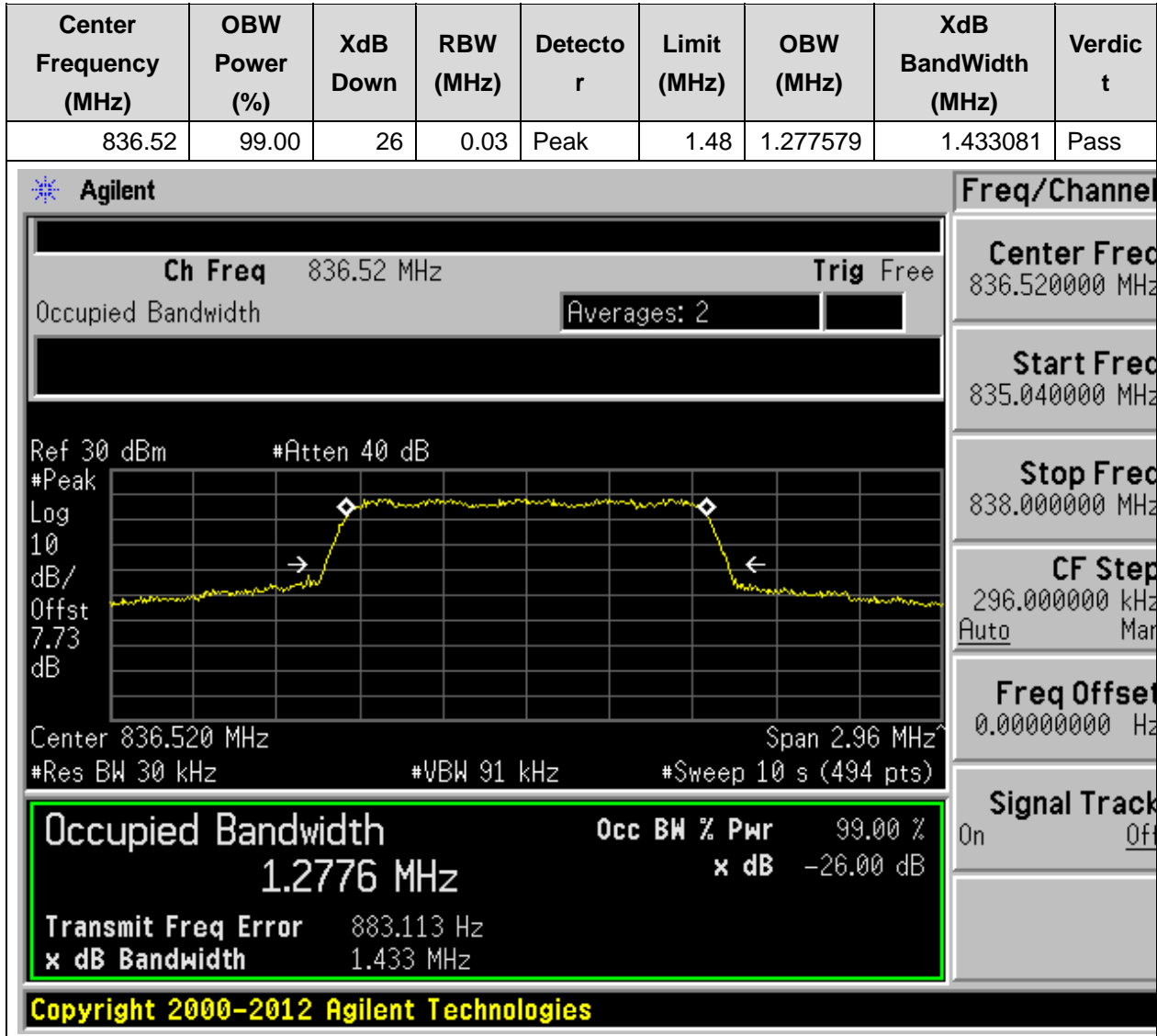
5. CDMA BC0_CH1013(FCC)

5.1. Occupied Bandwidth(NTNV)



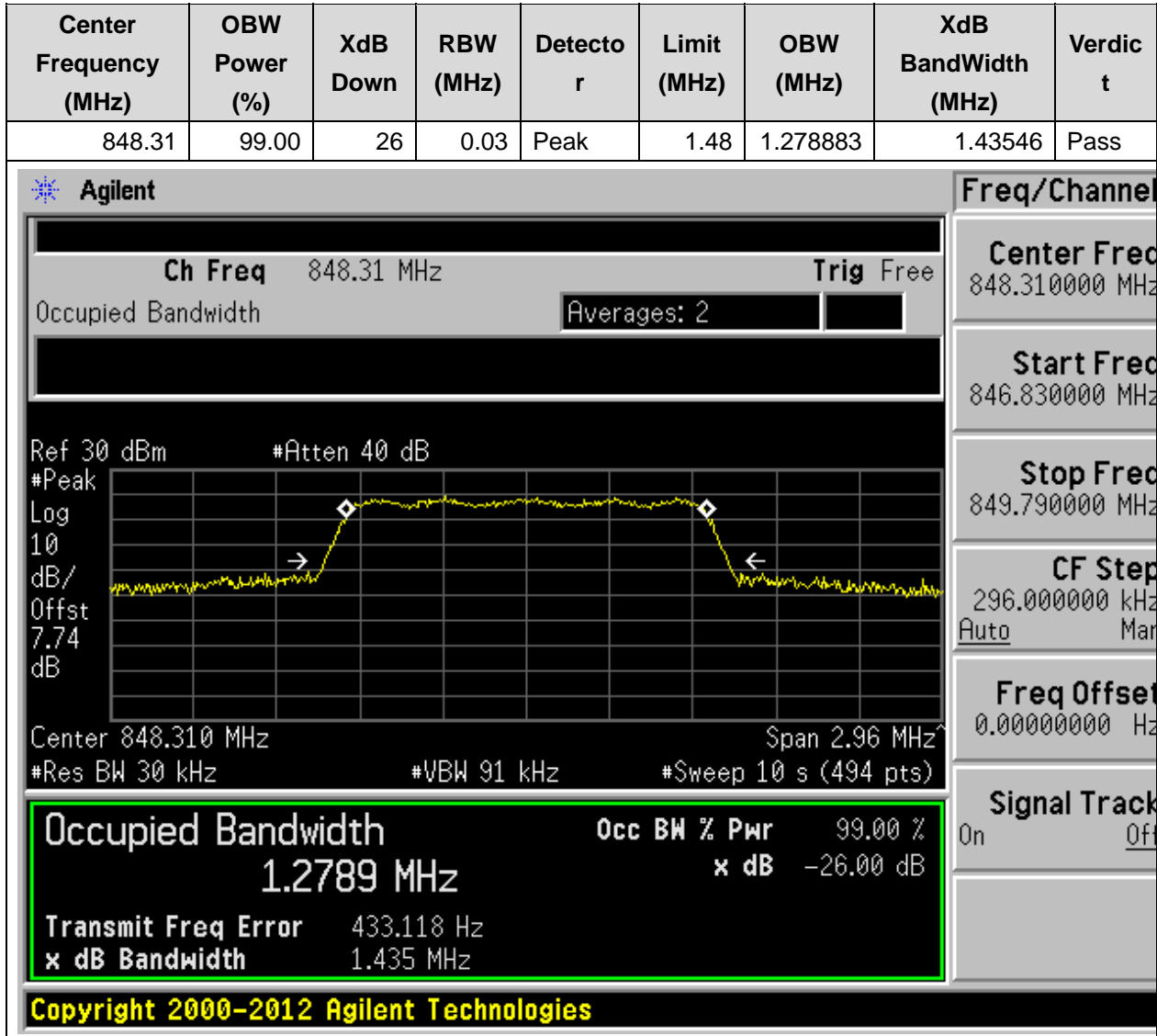
6. CDMA BC0_CH384(FCC)

6.1. Occupied Bandwidth(NTNV)



7. CDMA BC0_CH777(FCC)

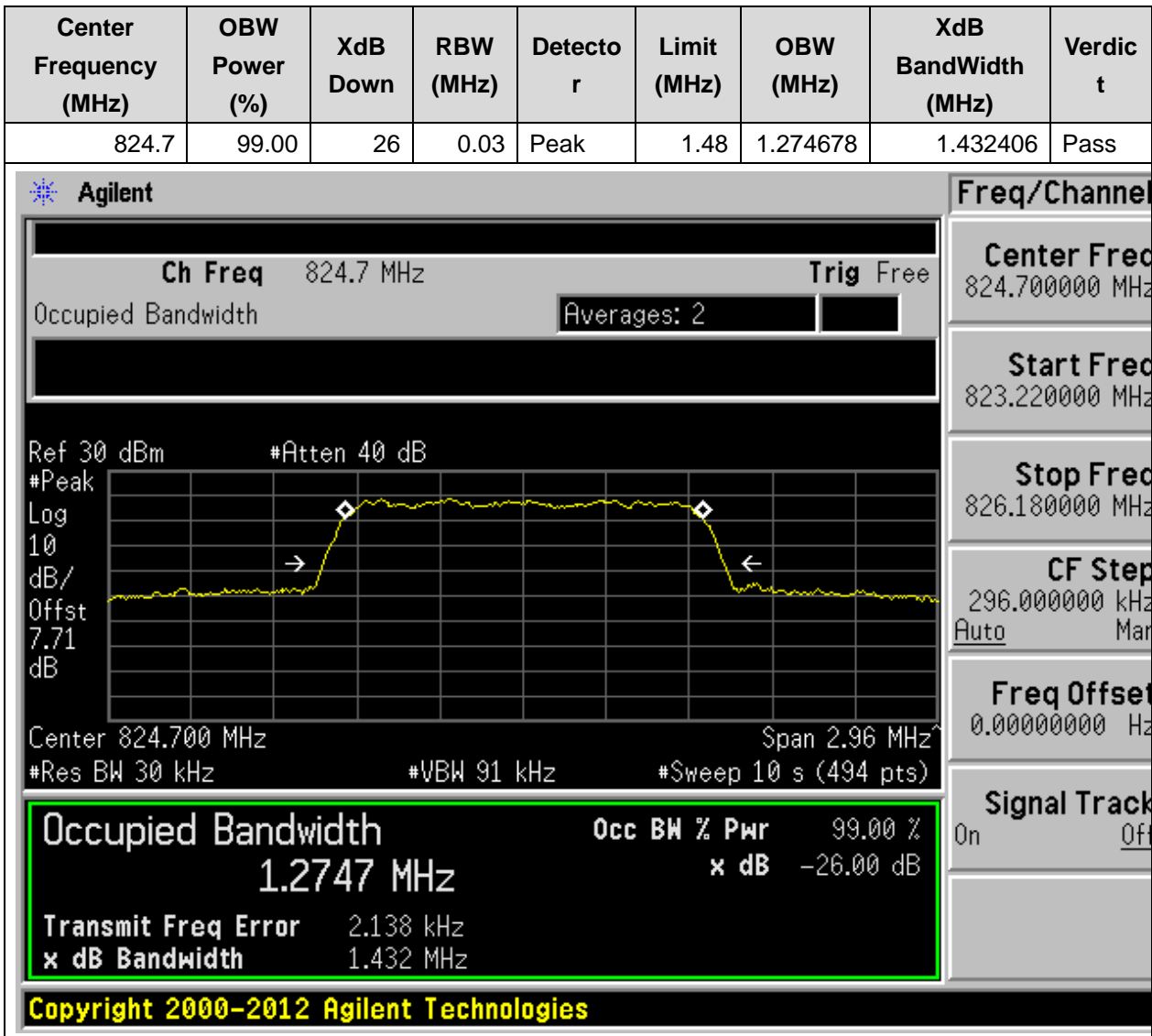
7.1. Occupied Bandwidth(NTNV)



EVDO

8. EVDO BC0_CH1013(FCC)

8.1. Occupied Bandwidth(NTNV)



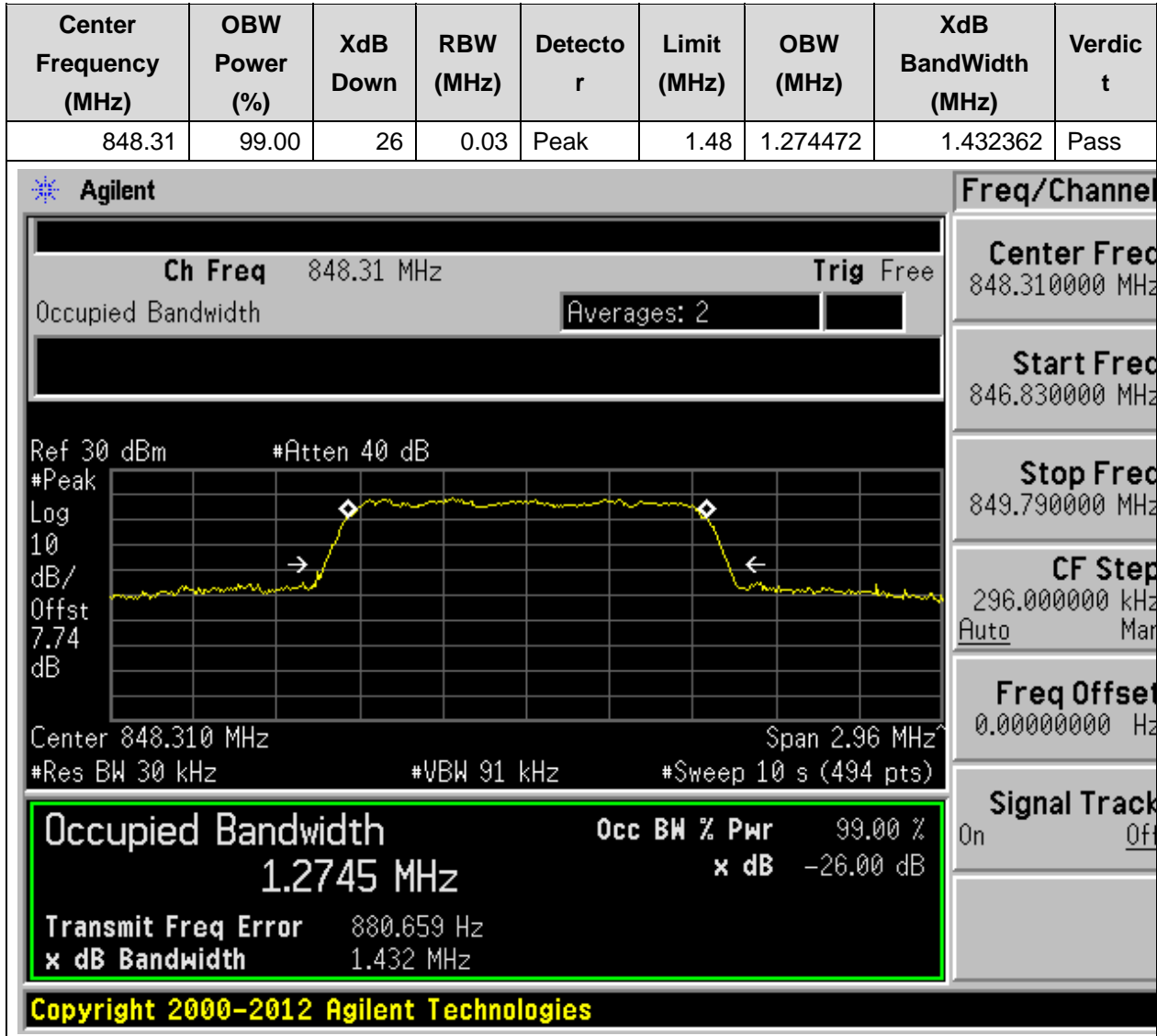
9. EVDO BC0_CH384(FCC)

9.1. Occupied Bandwidth(NTNV)



10. EVDO BC0_CH777(FCC)

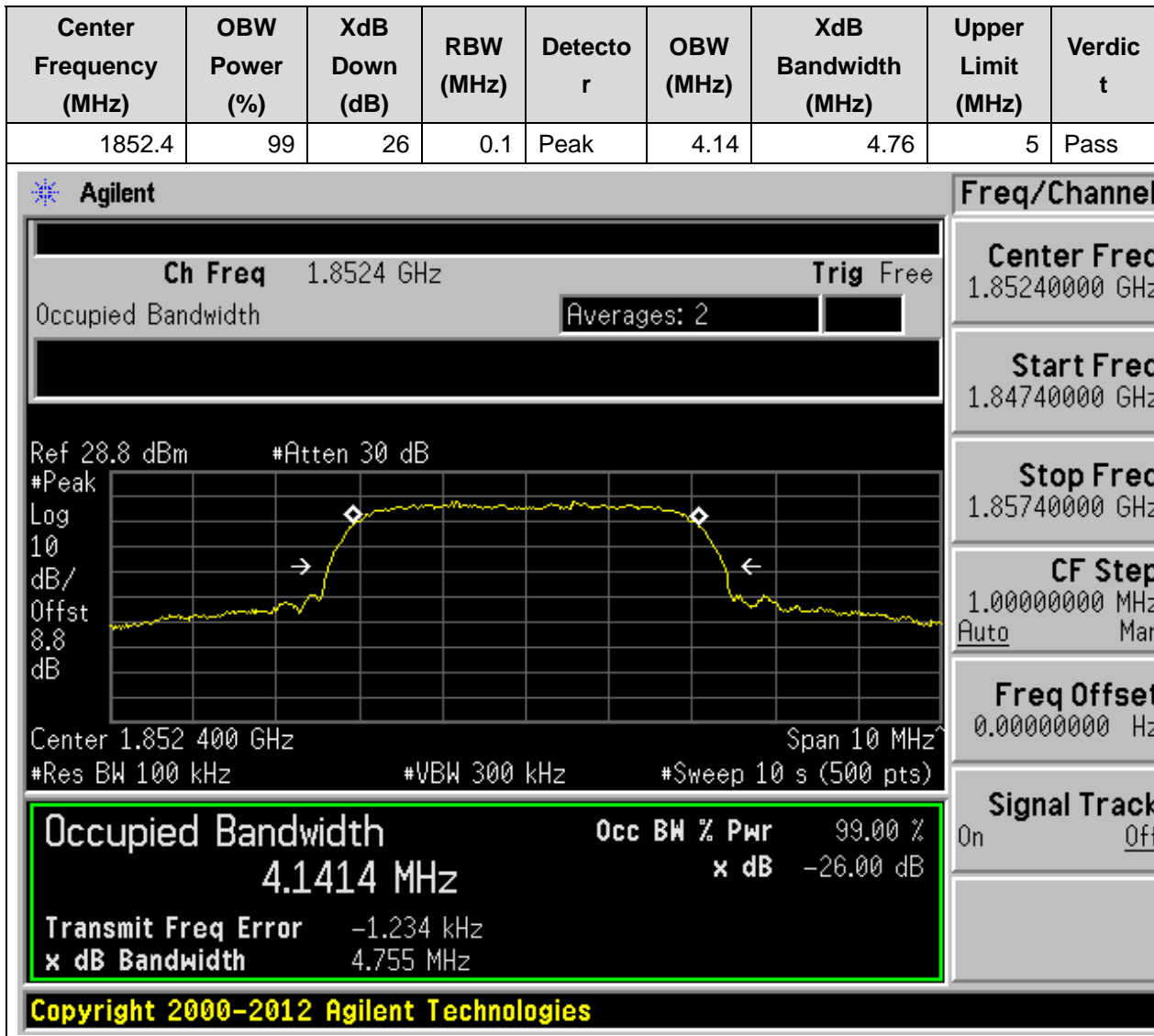
10.1. Occupied Bandwidth(NTNV)



WCDMA

11. WCDMA_Band2

11.1. WCDMA Occupied Bandwidth(NTNV)(Channel:9262)



11.2. WCDMA Occupied Bandwidth(NTNV)(Channel:9400)

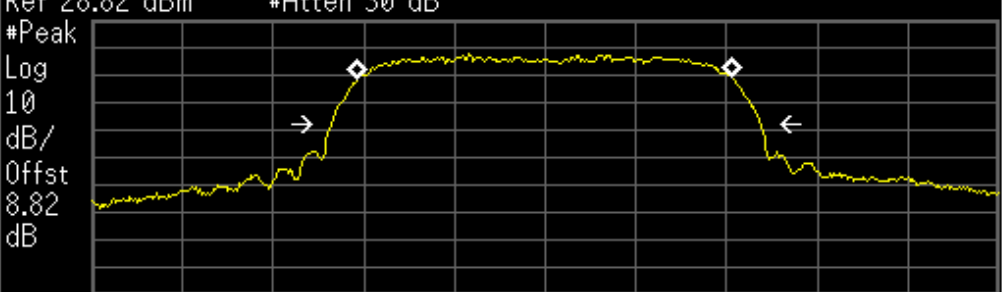
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.1	Peak	4.13	4.73	5	Pass

Agilent Freq/Channel

Ch Freq 1.88 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.82 dBm #Atten 30 dB



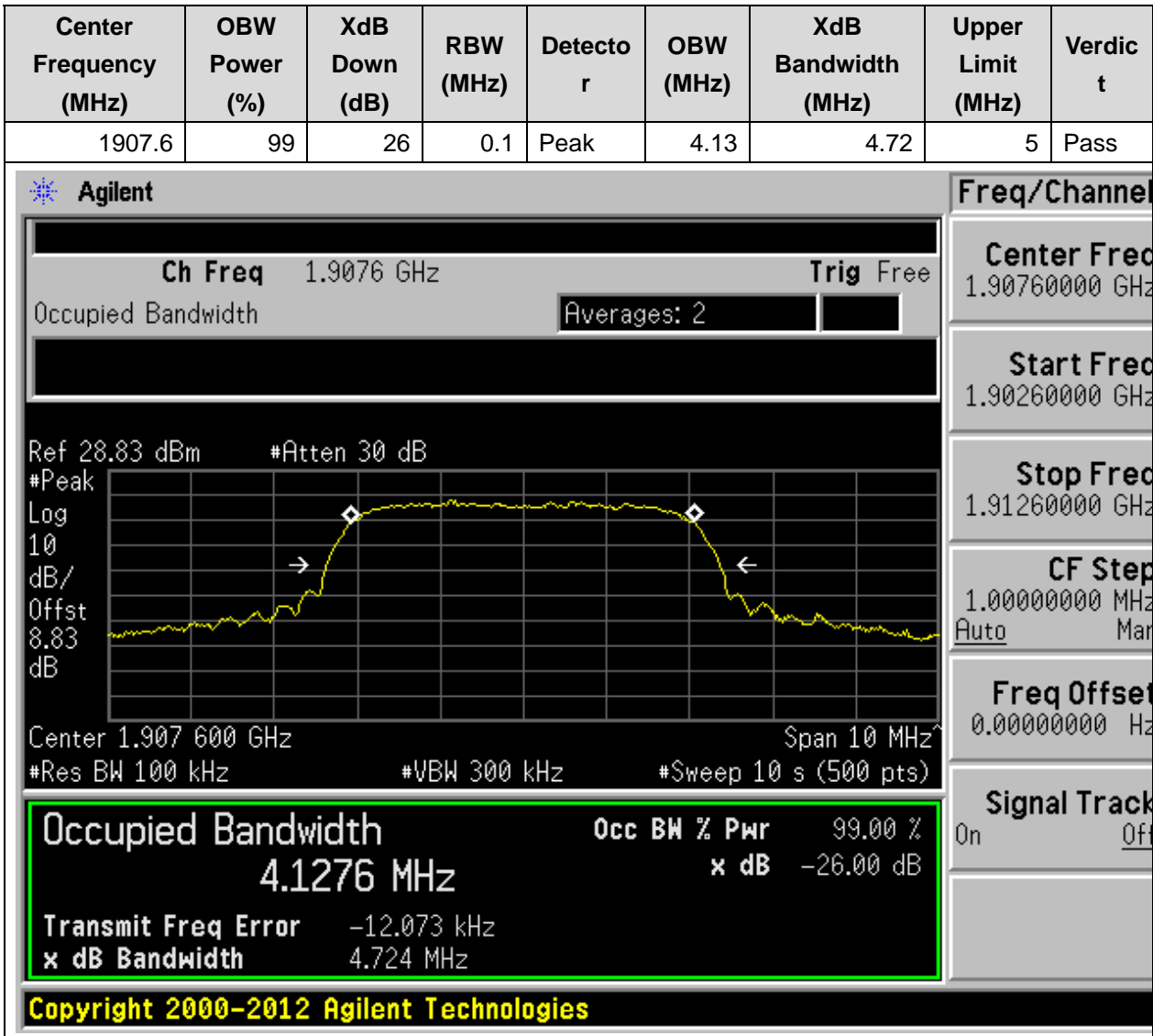
Center 1.880 000 GHz Span 10 MHz

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

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.1288 MHz	x dB	-26.00 dB
Transmit Freq Error		-548.446 mHz
x dB Bandwidth		4.728 MHz

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11.3. WCDMA Occupied Bandwidth(NTNV)(Channel:9538)

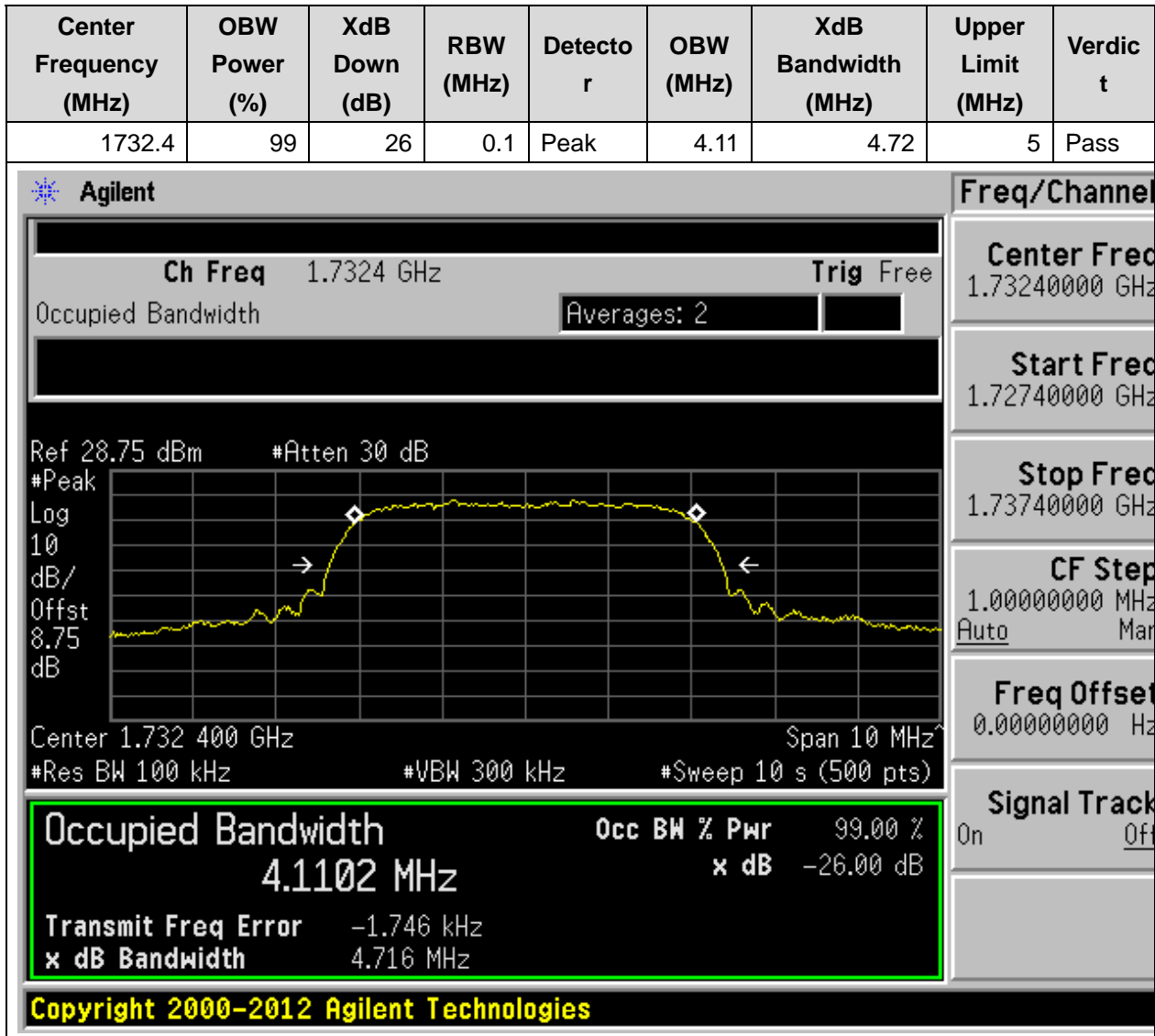


12. WCDMA_Band4

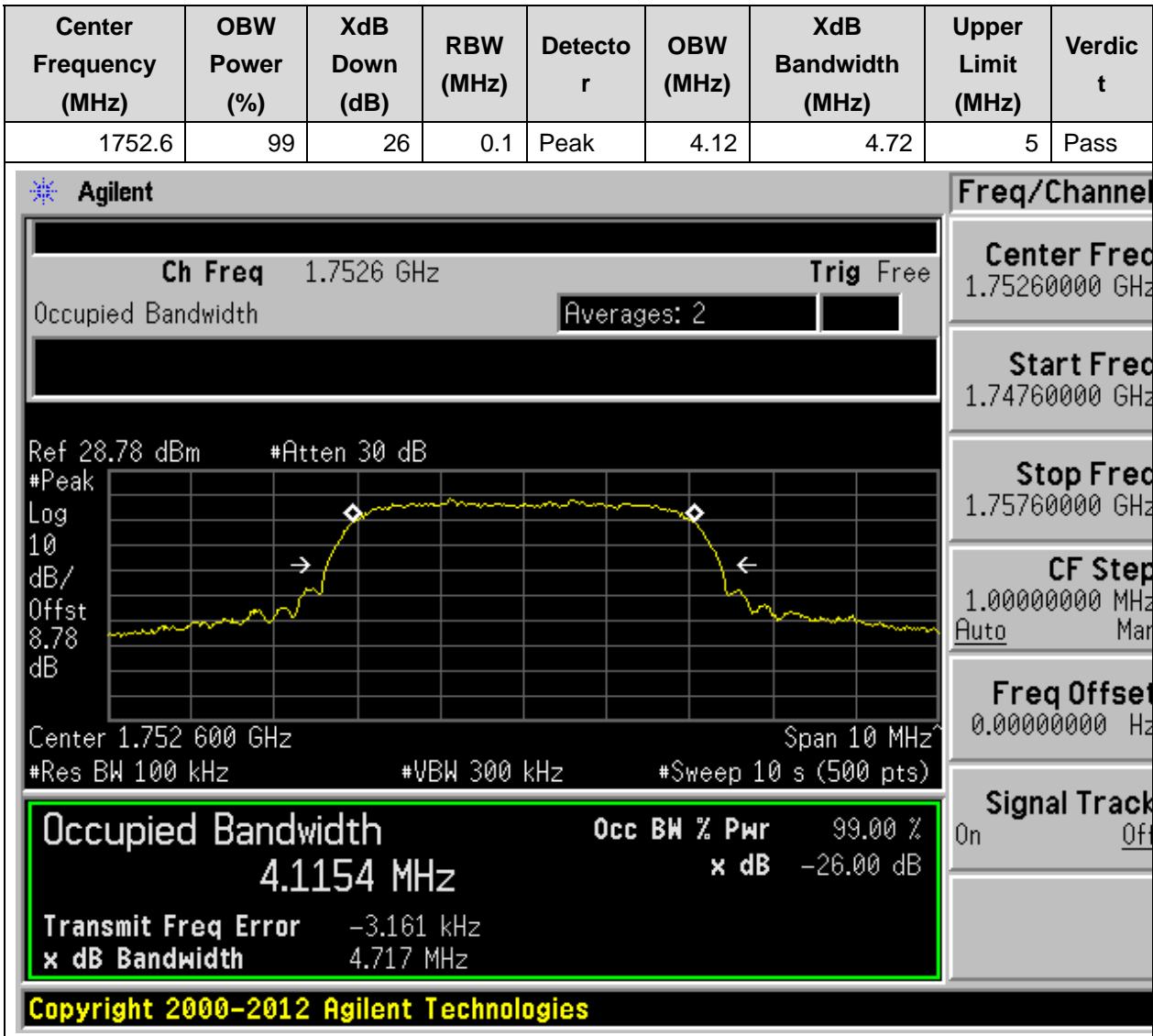
12.1. WCDMA Occupied Bandwidth(NTNV)(Channel:1312)



12.2. WCDMA Occupied Bandwidth(NTNV)(Channel:1412)



12.3. WCDMA Occupied Bandwidth(NTNV)(Channel:1513)

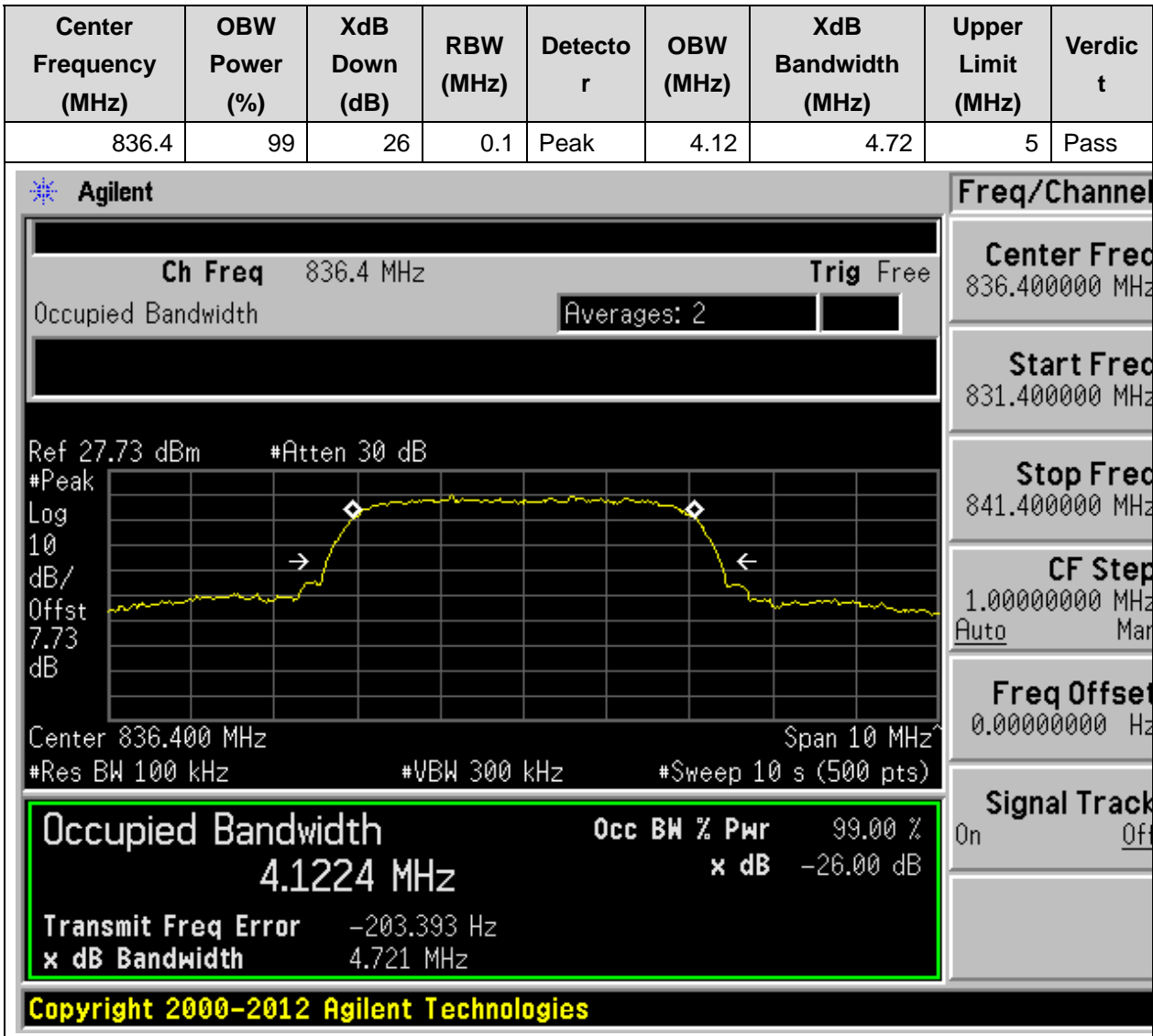


13. WCDMA_Band5

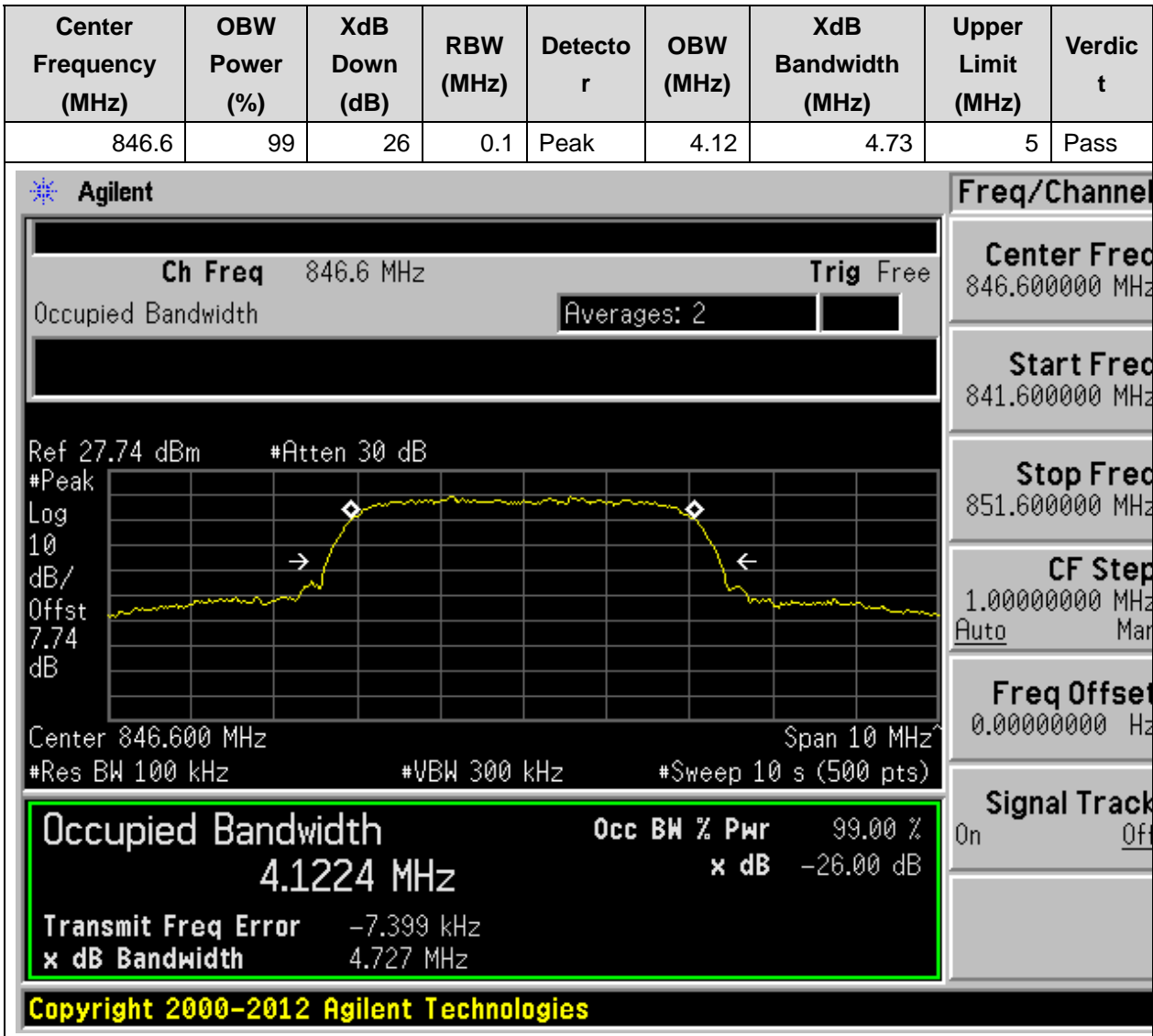
13.1. WCDMA Occupied Bandwidth(NTNV)(Channel:4132)



13.2. WCDMA Occupied Bandwidth(NTNV)(Channel:4182)



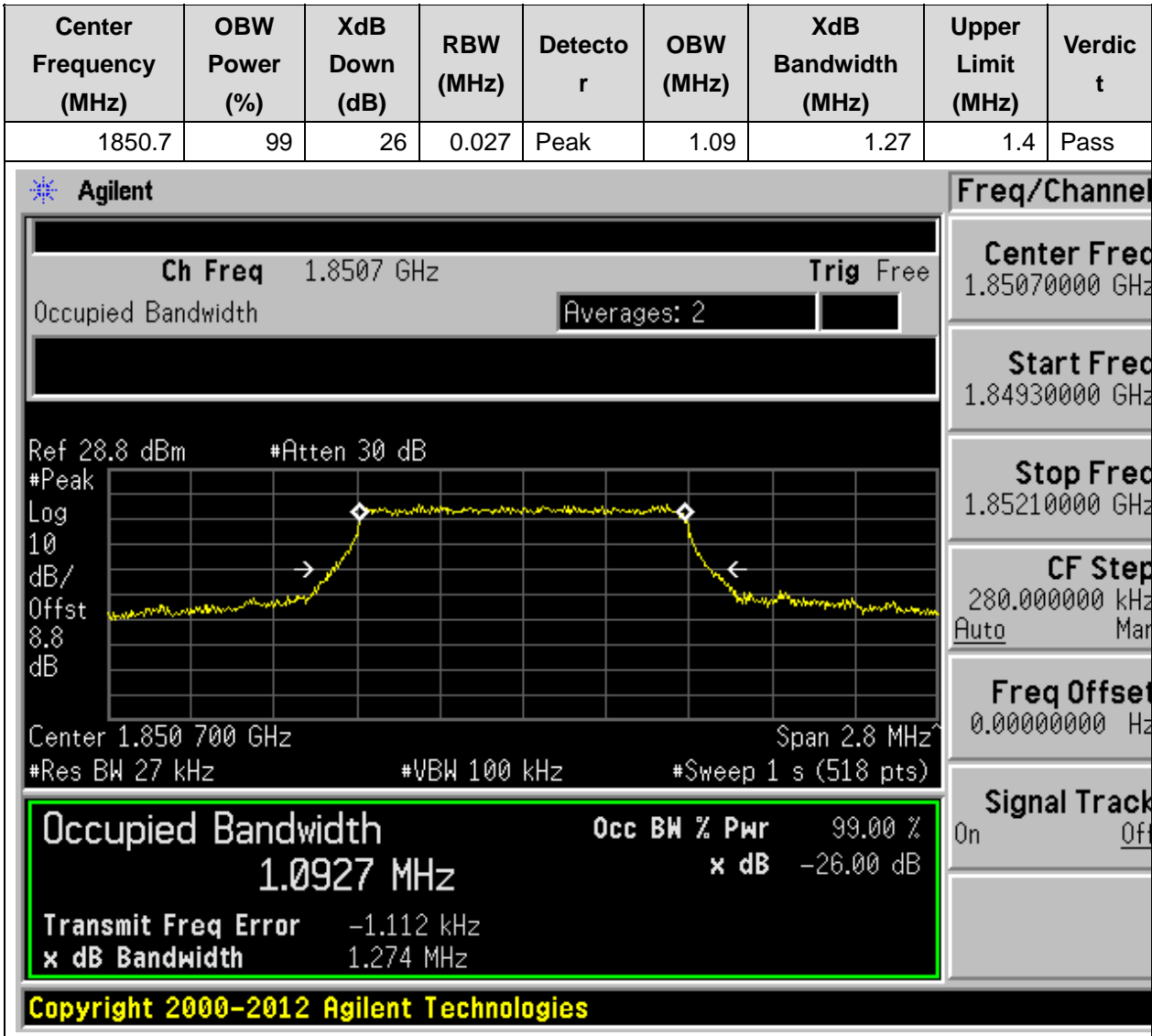
13.3. WCDMA Occupied Bandwidth(NTNV)(Channel:4233)



LTE

14. LTE_Band2

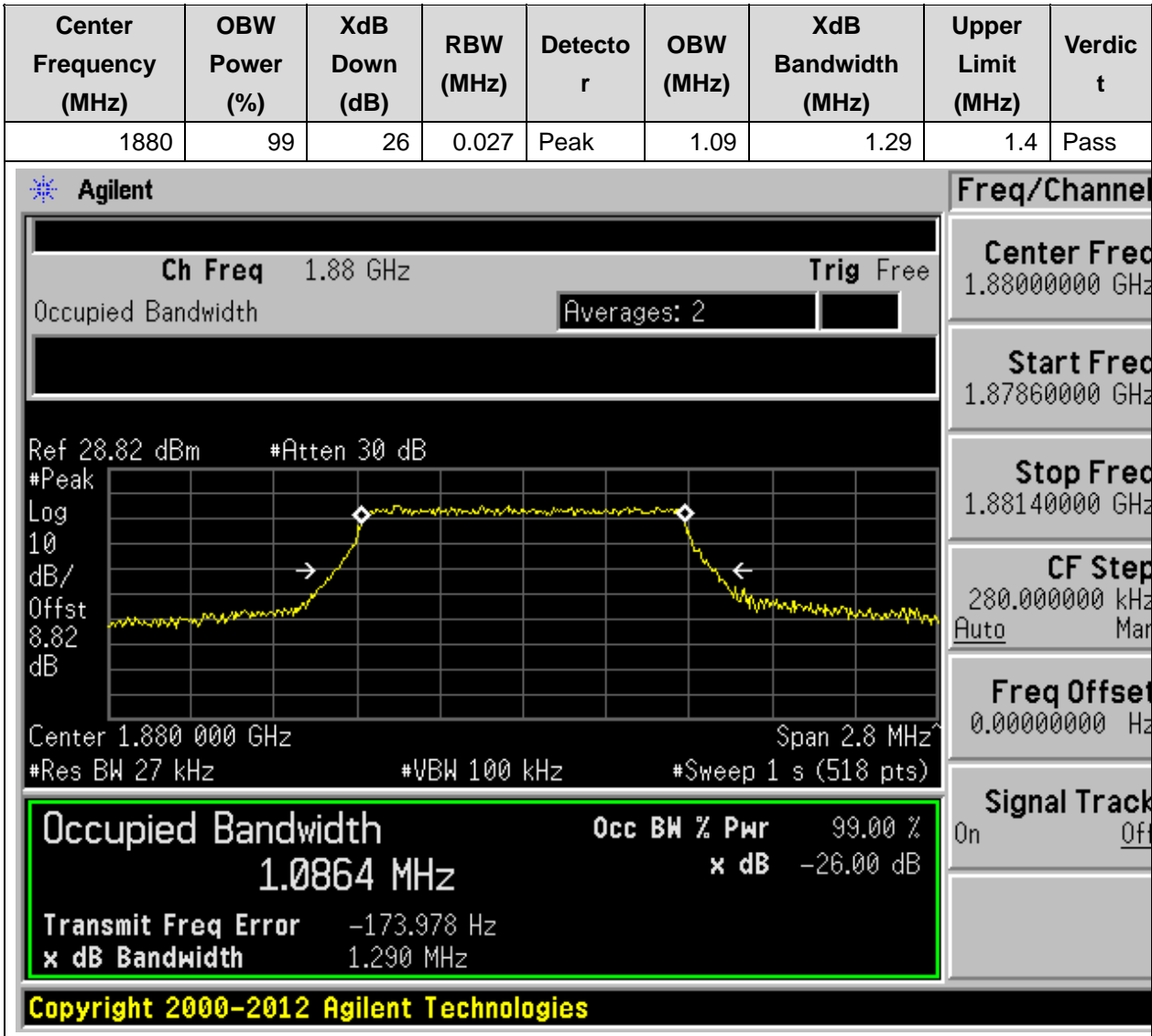
14.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:18607, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



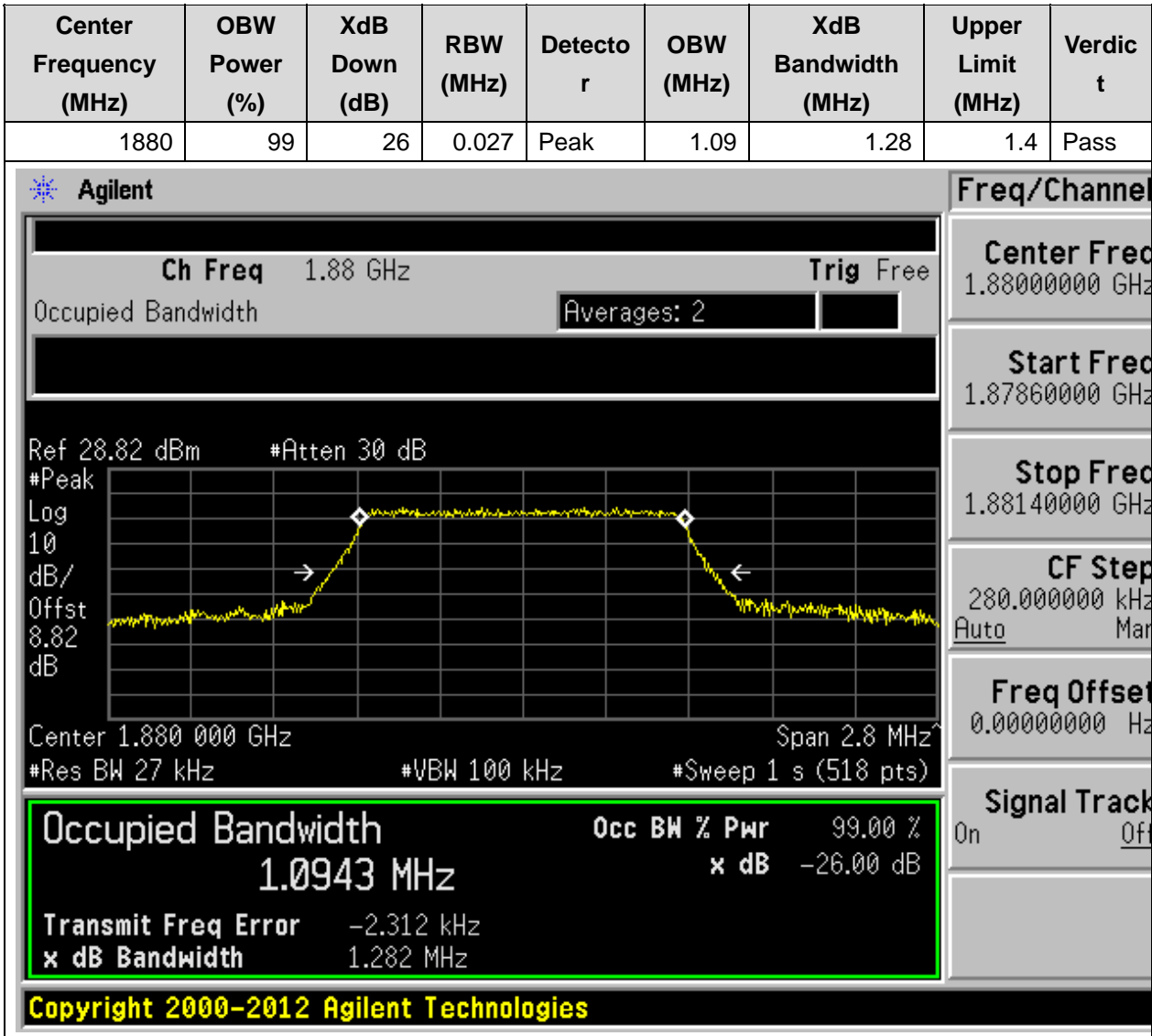
14.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:18607, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)



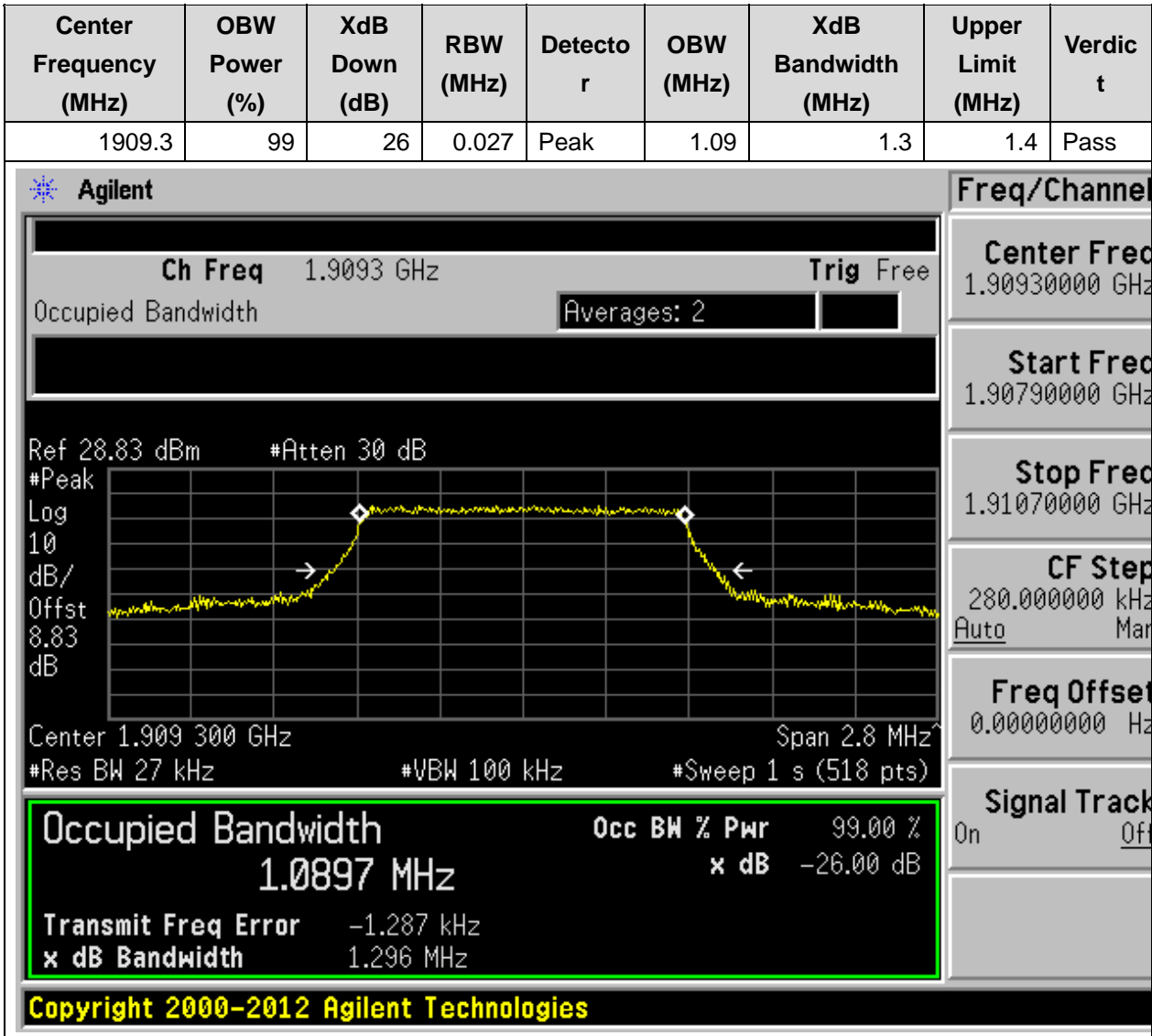
14.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:18900, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



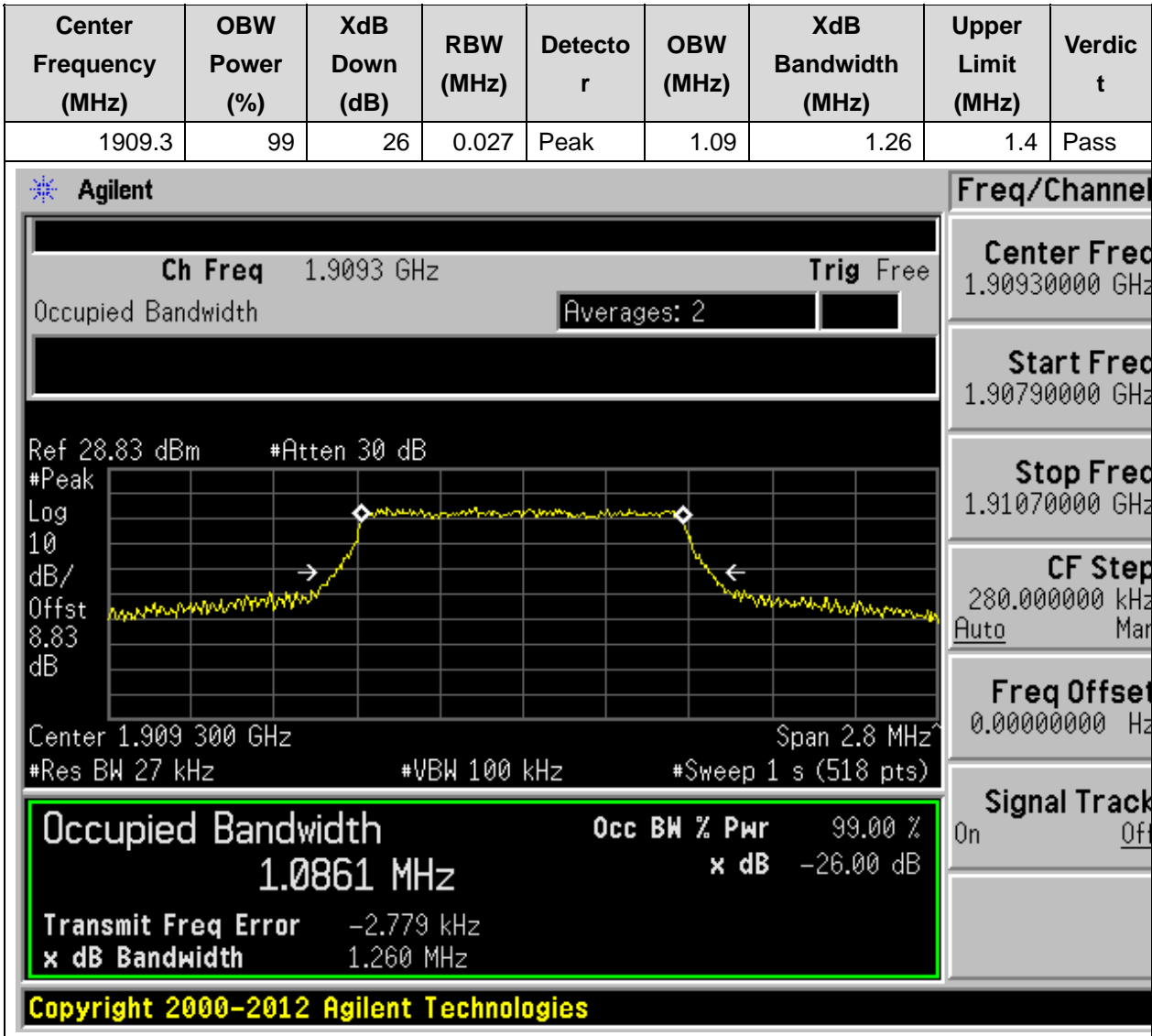
14.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:18900, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)



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



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



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



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



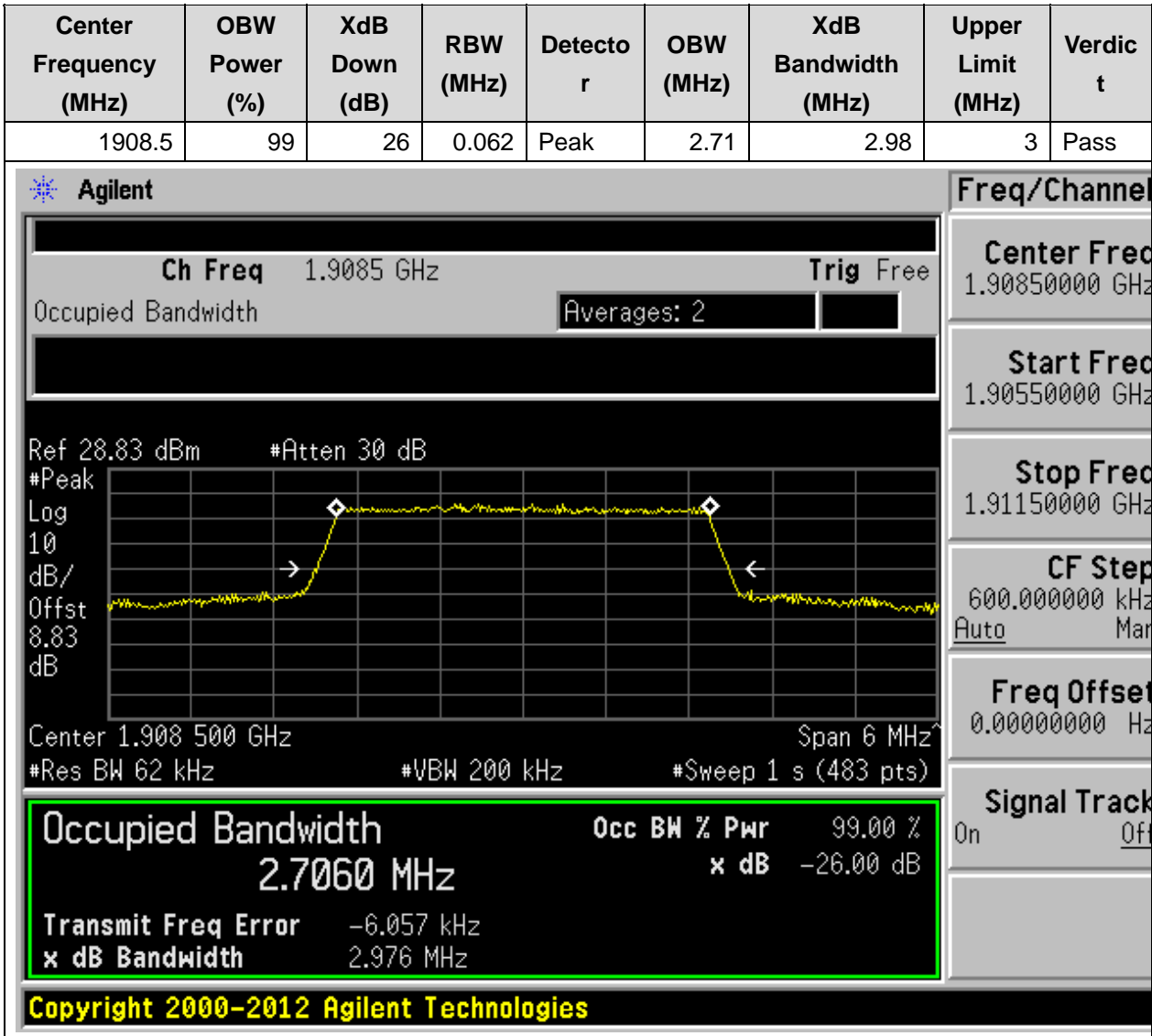
14.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:18900, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)



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



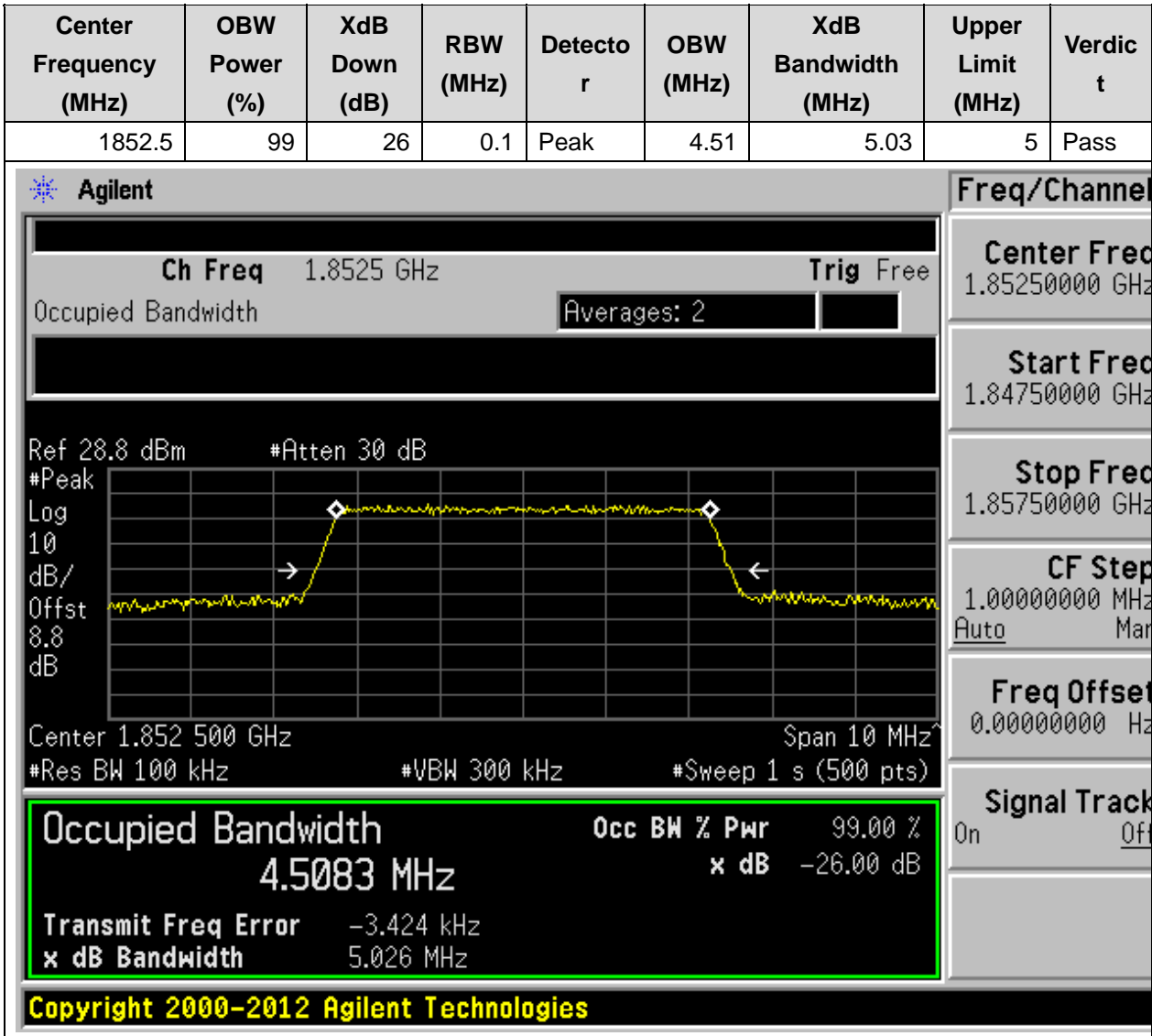
14.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:19185, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)



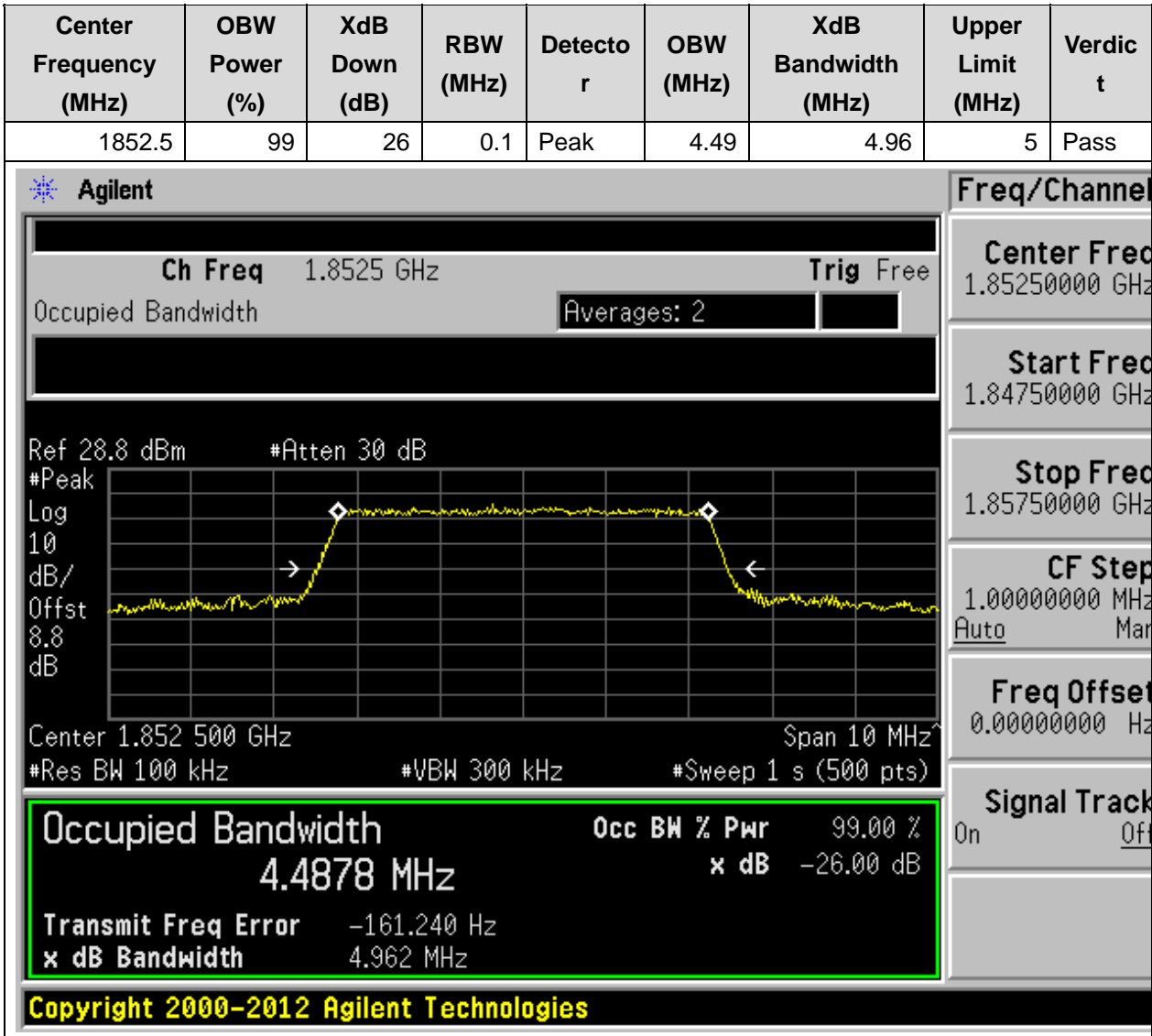
14.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:19185, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)



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



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



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



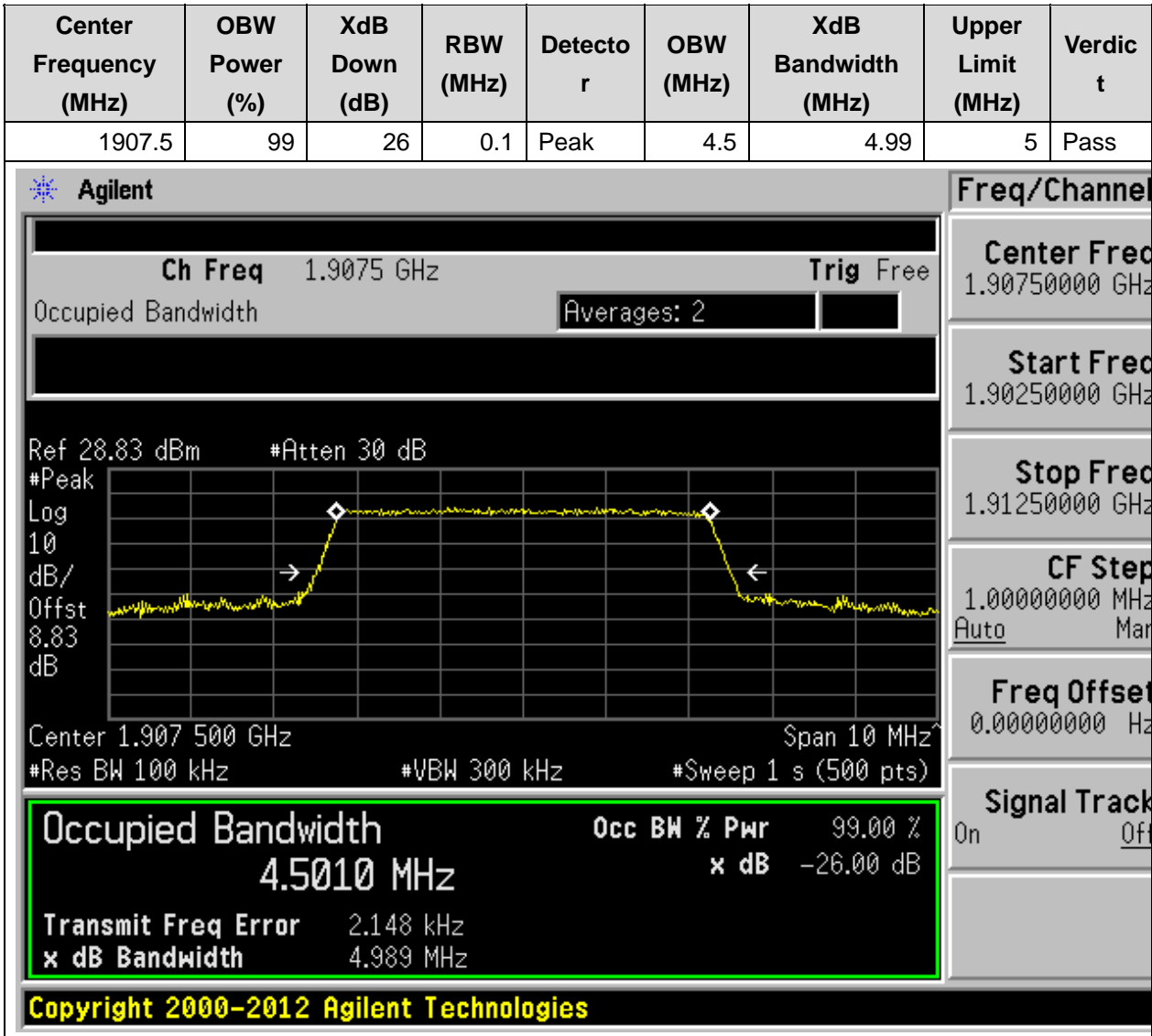
14.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:18900, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



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



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



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



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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1855	99	26	0.2	Peak	8.98	9.83	10	Pass



Agilent

Ch Freq 1.855 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.81 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.81 dB

Center 1.855 00 GHz Span 20 MHz

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

Occupied Bandwidth 8.9800 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

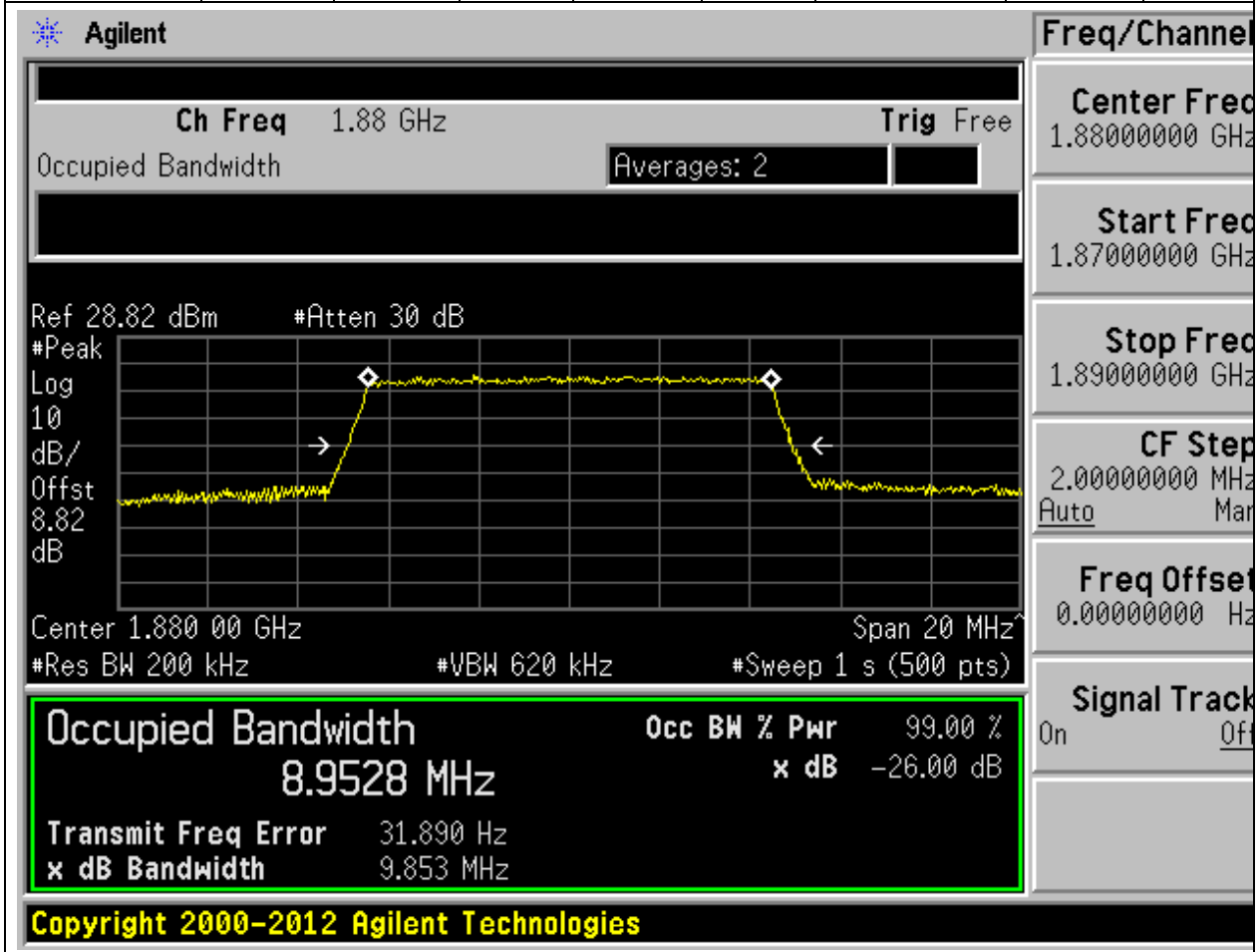
Transmit Freq Error 2.345 kHz

x dB Bandwidth 9.832 MHz

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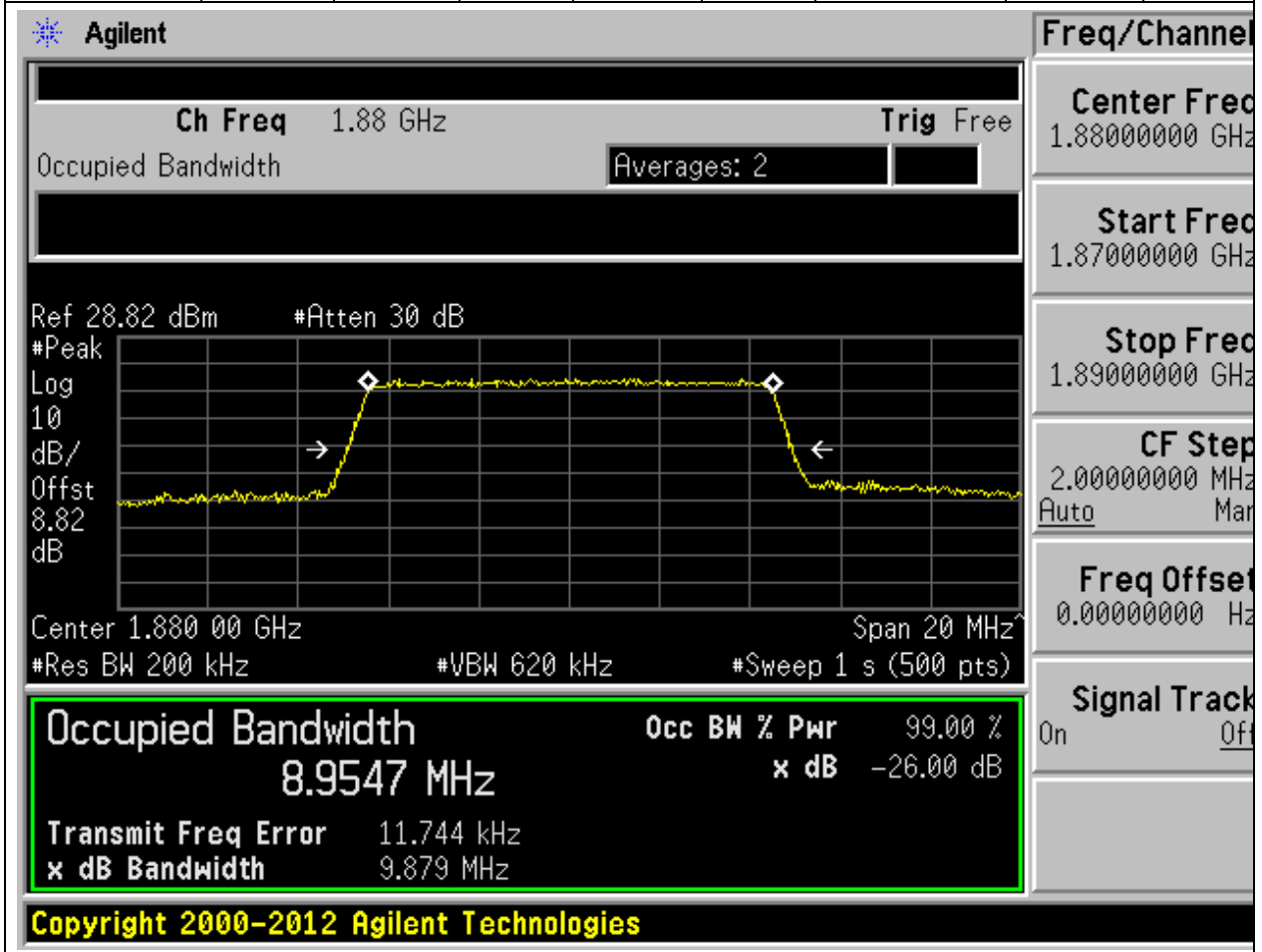
14.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:18900, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.2	Peak	8.95	9.85	10	Pass



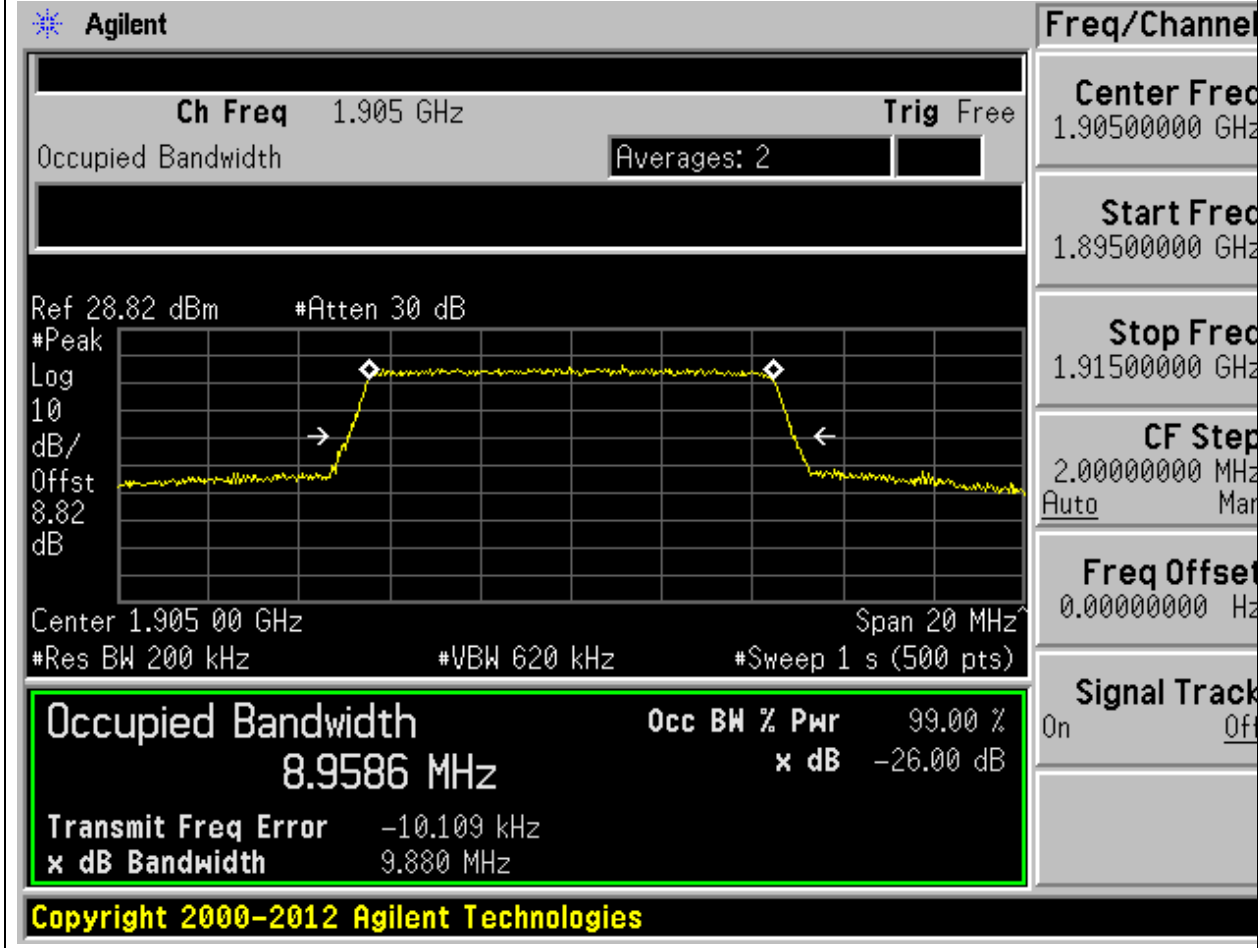
14.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:18900, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1880	99	26	0.2	Peak	8.95	9.88	10	Pass

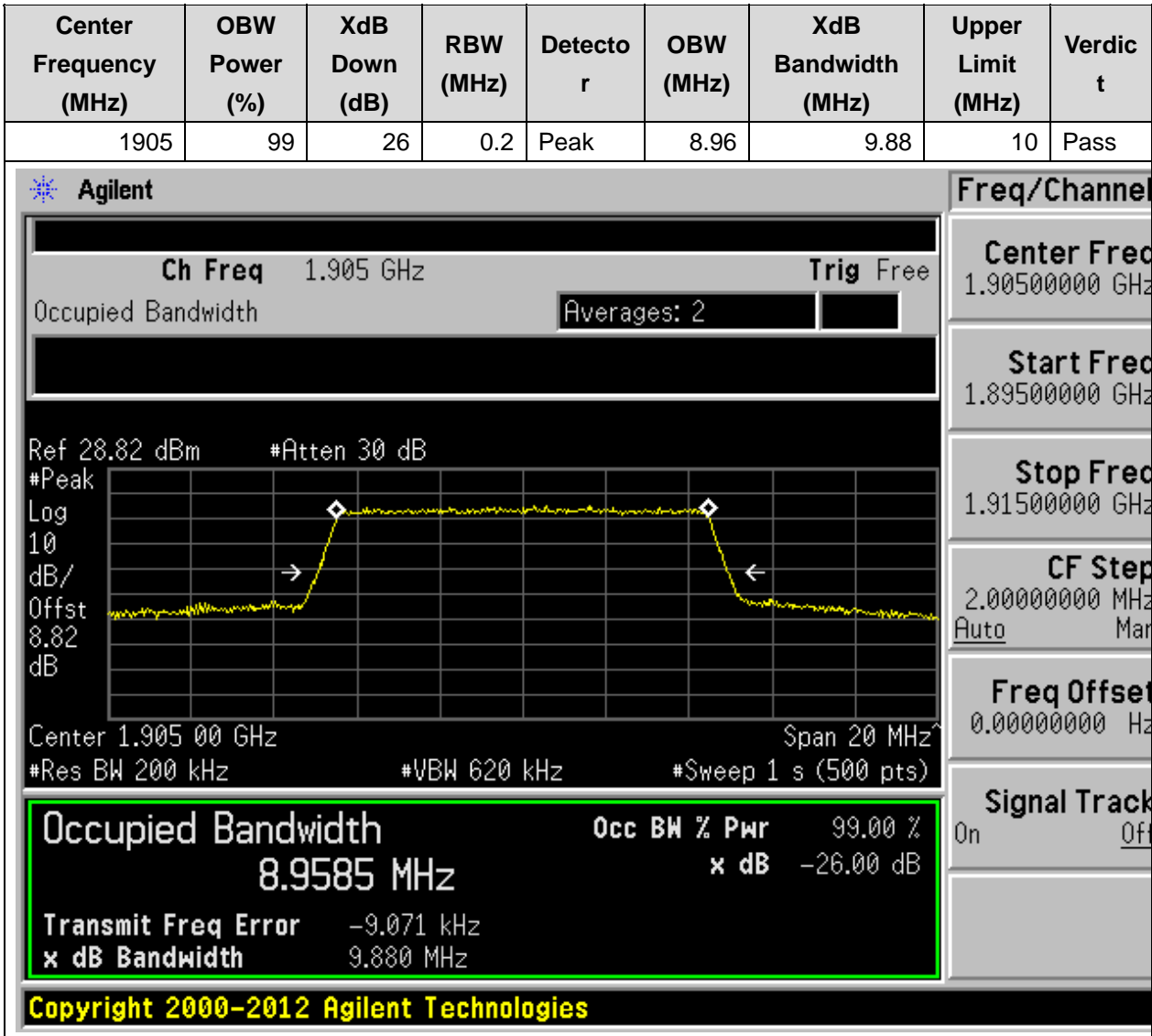


14.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:19150, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

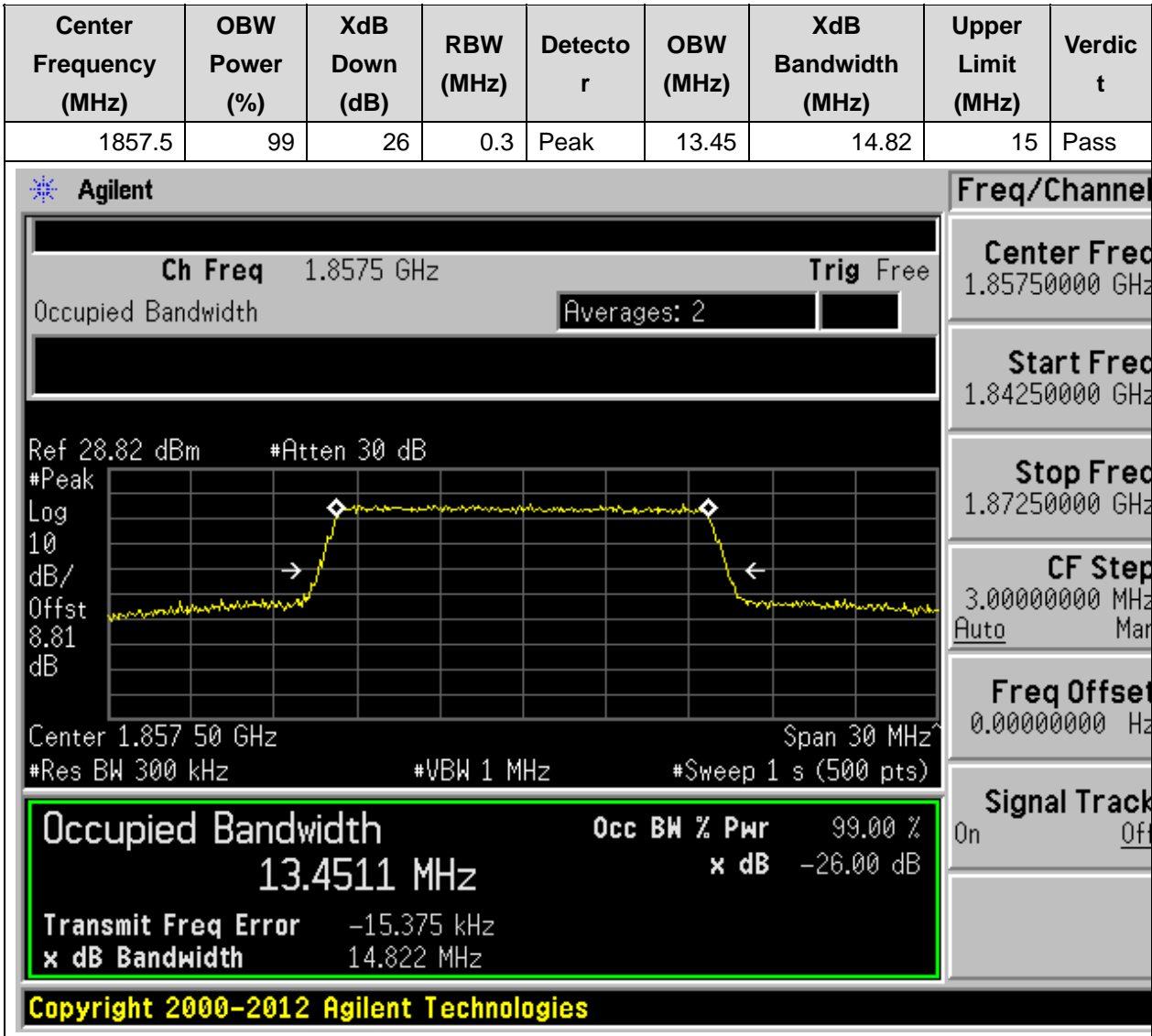
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1905	99	26	0.2	Peak	8.96	9.88	10	Pass



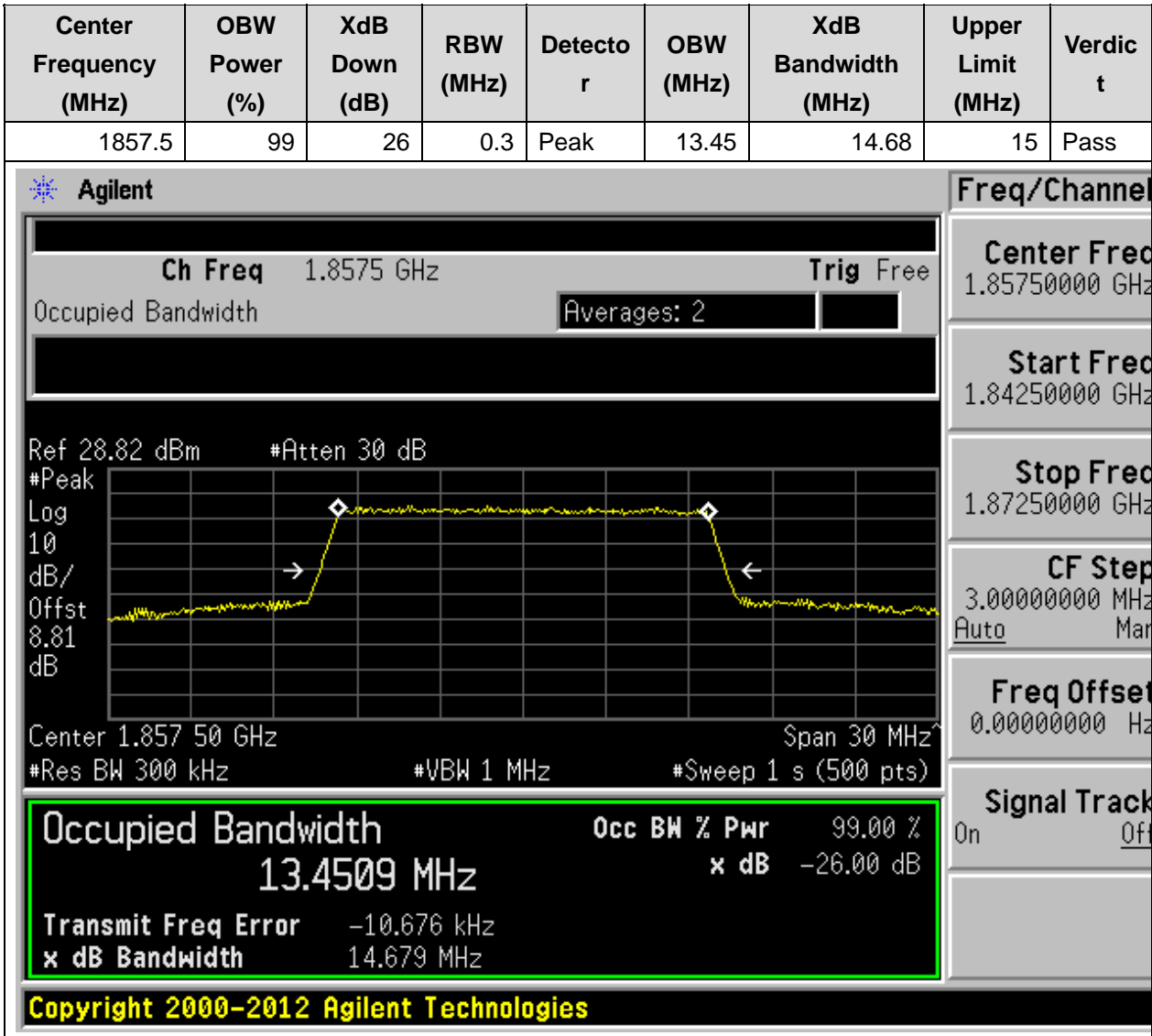
14.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:19150, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



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



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



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



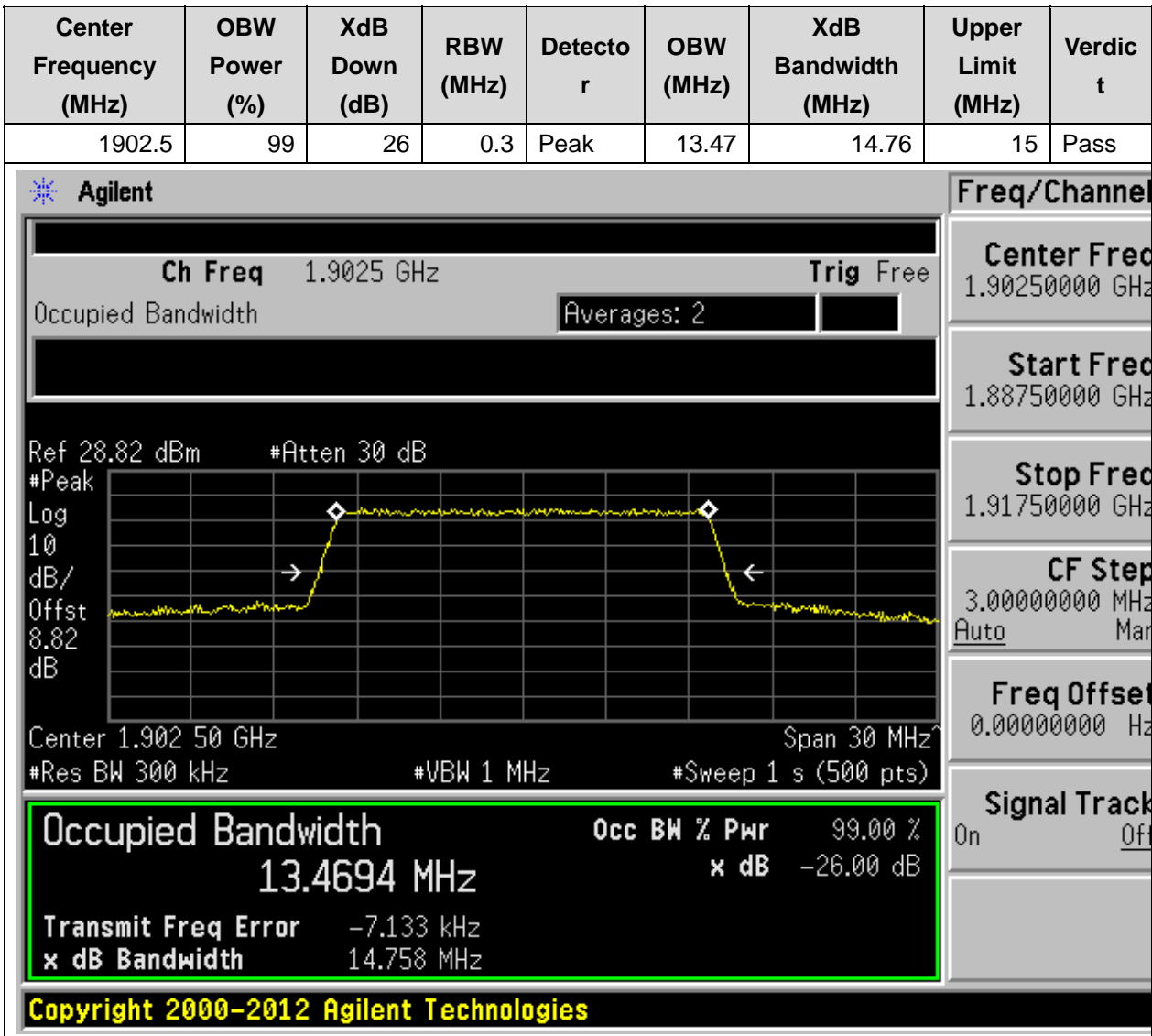
14.28. LTE Occupied Bandwidth(NTNV)(Subtest:28, Channel:18900, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



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



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



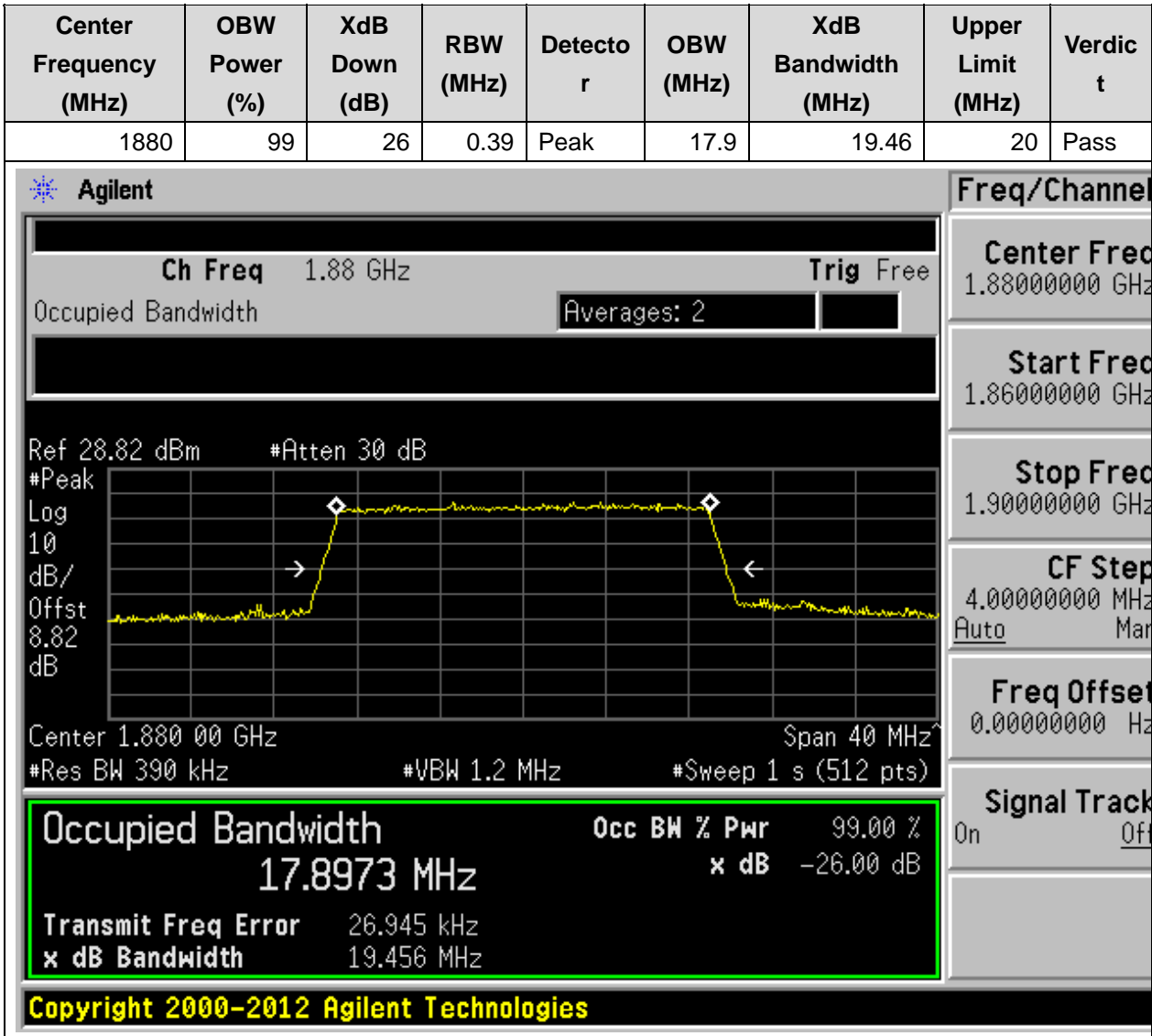
14.31. LTE Occupied Bandwidth(NTNV)(Subtest:31, Channel:18700, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



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



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



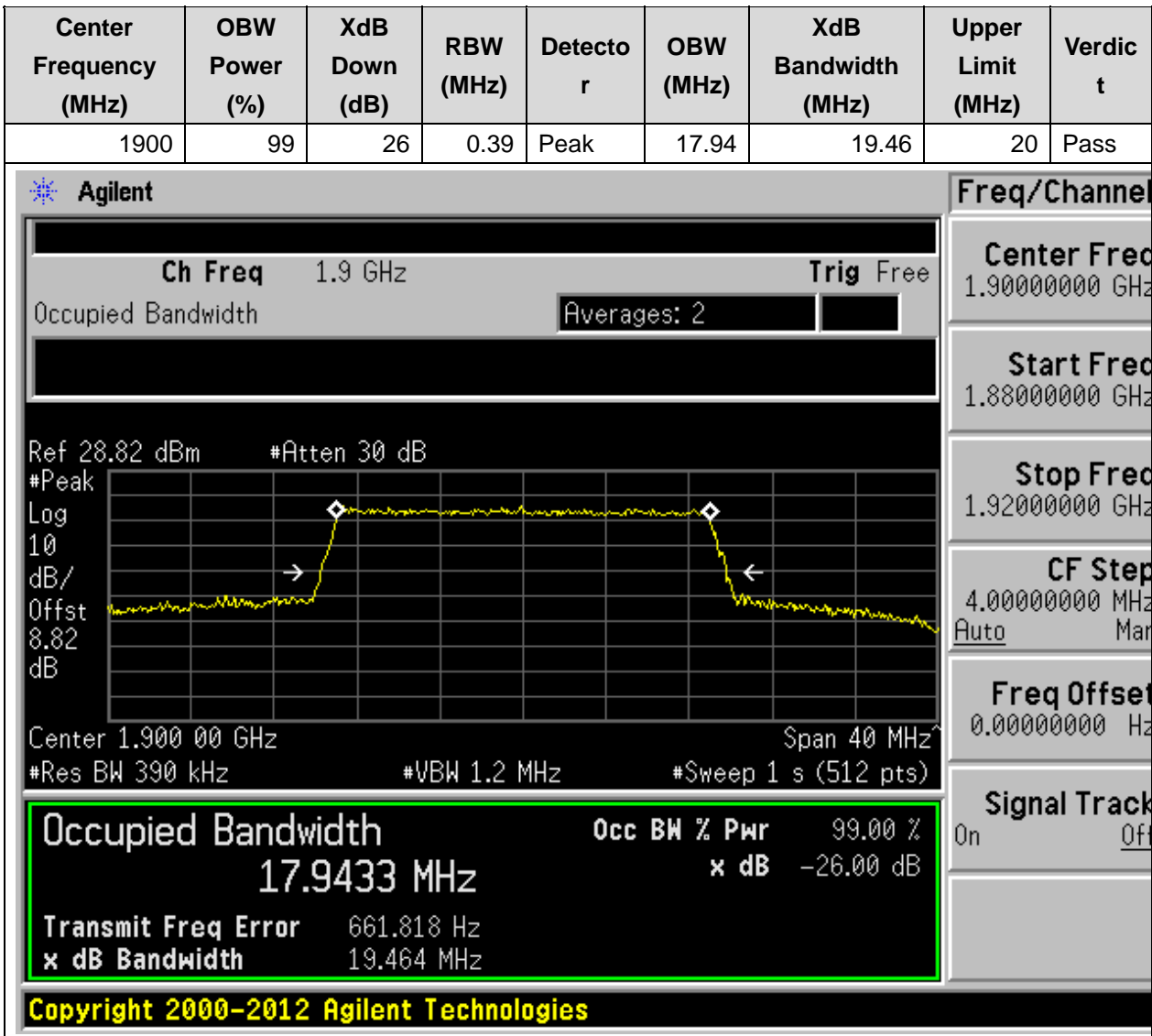
14.34. LTE Occupied Bandwidth(NTNV)(Subtest:34, Channel:18900, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



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

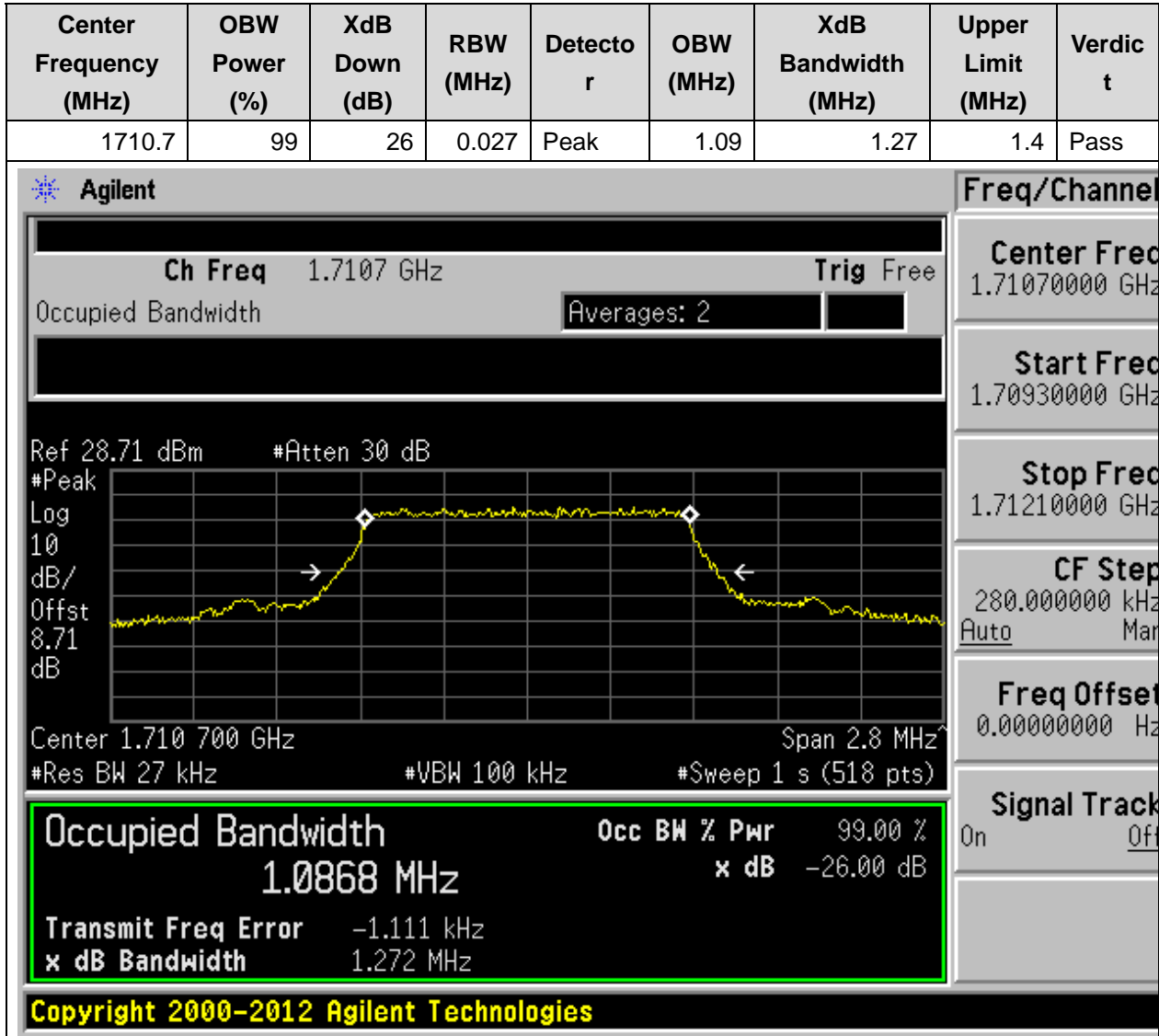


14.36. LTE Occupied Bandwidth(NTNV)(Subtest:36, Channel:19100, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



15. LTE_Band4

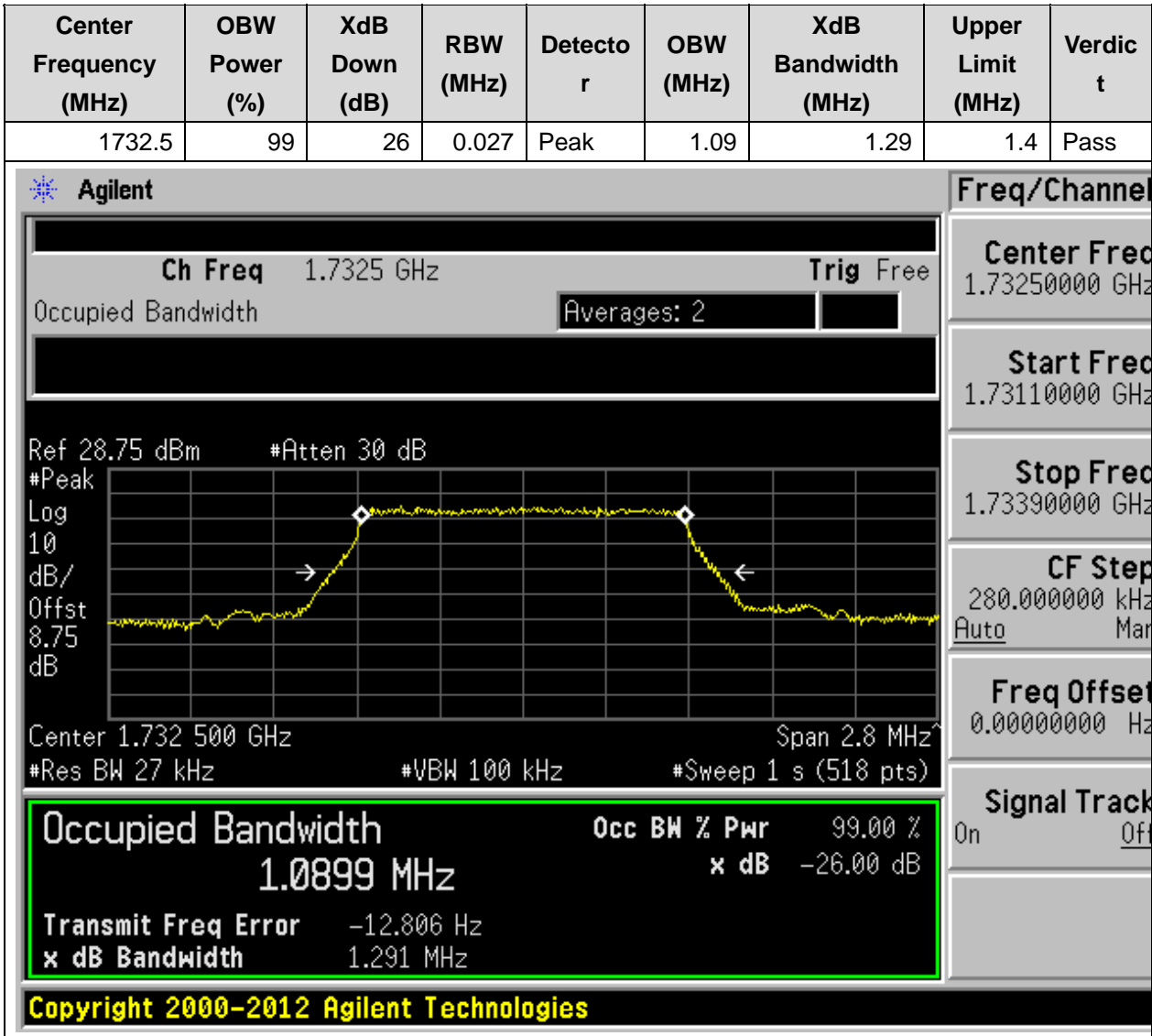
15.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:19957, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



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



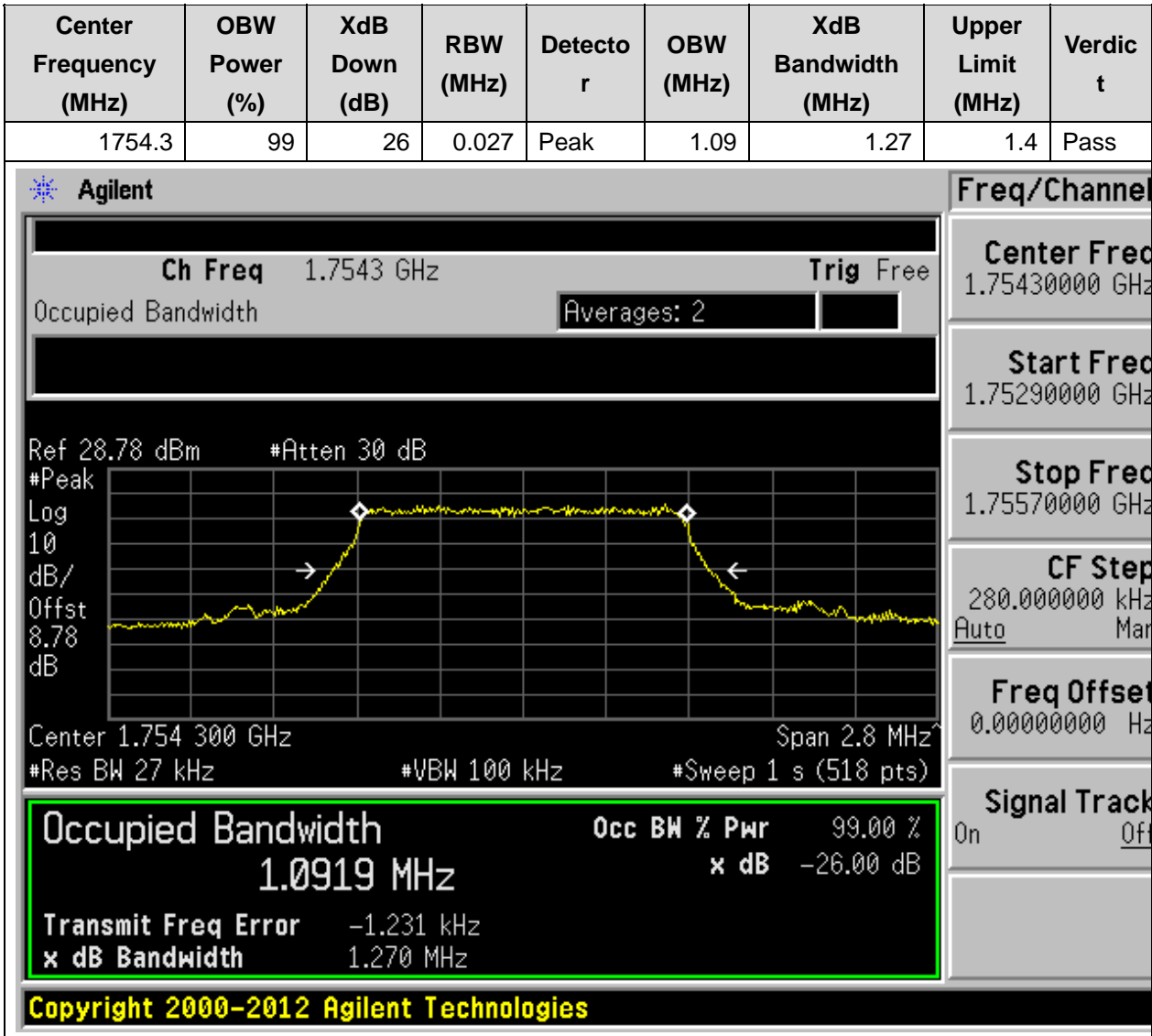
15.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:20175, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



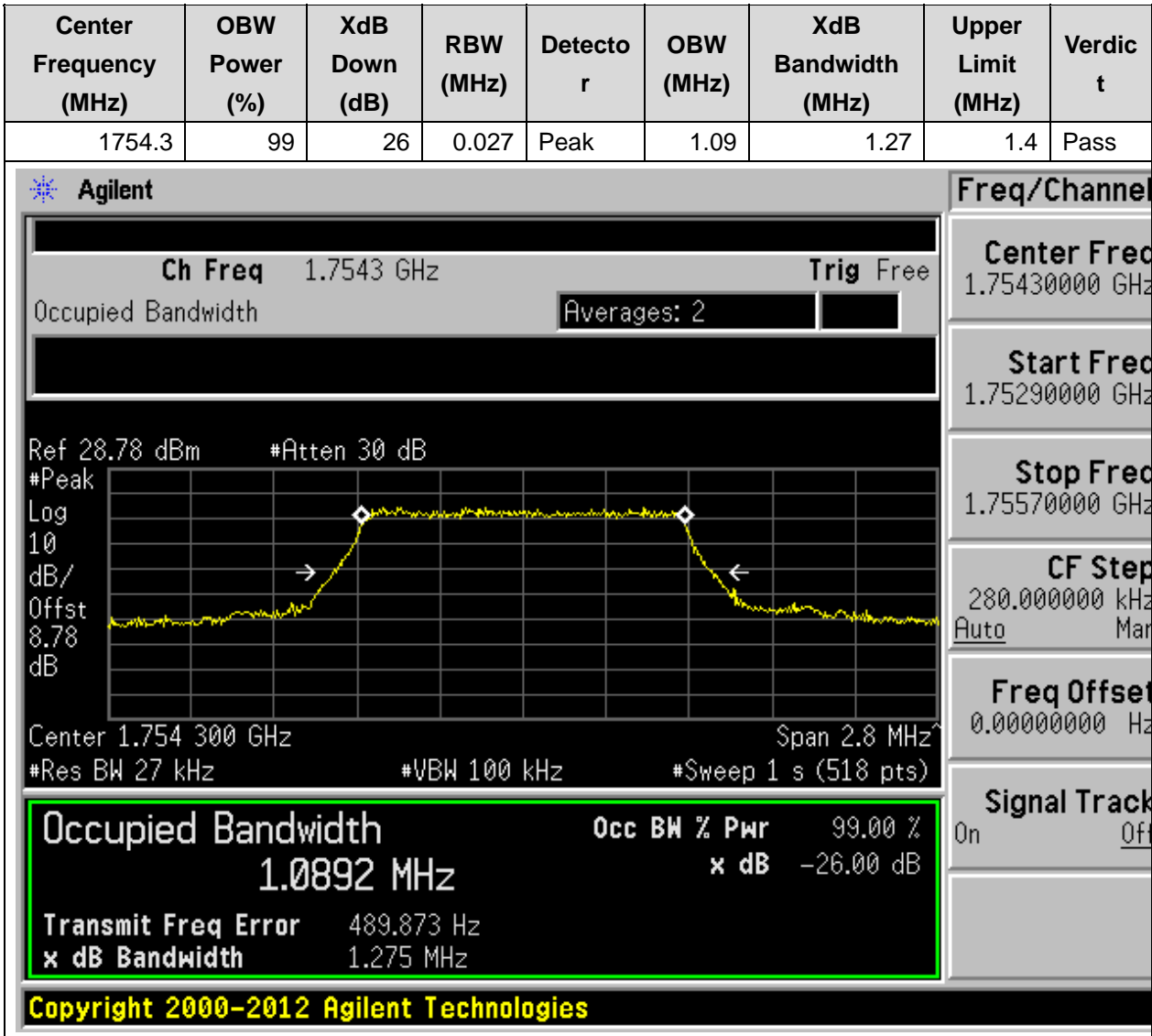
15.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:20175, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)



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



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



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



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



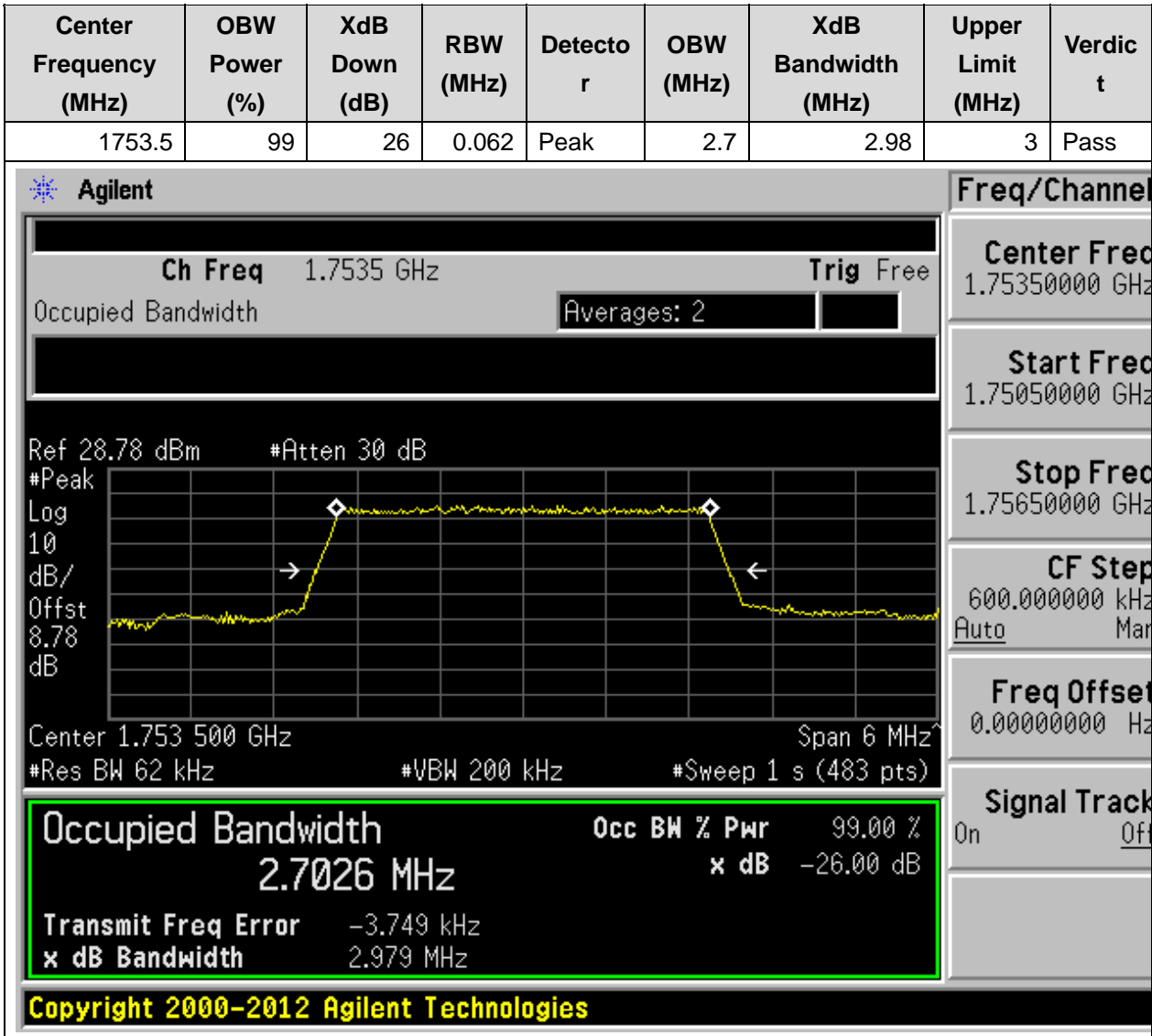
15.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:20175, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)



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



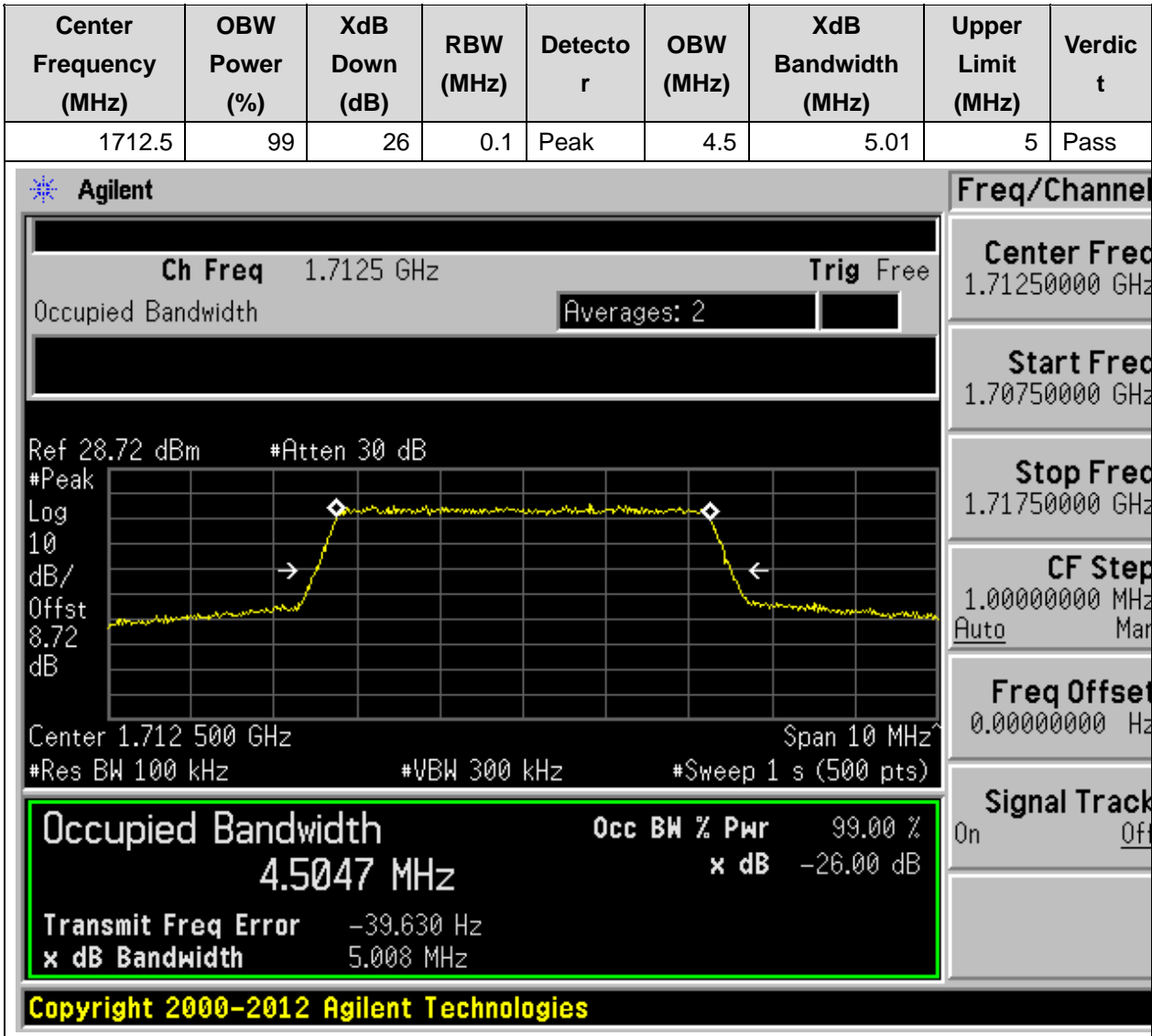
15.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:20385, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)



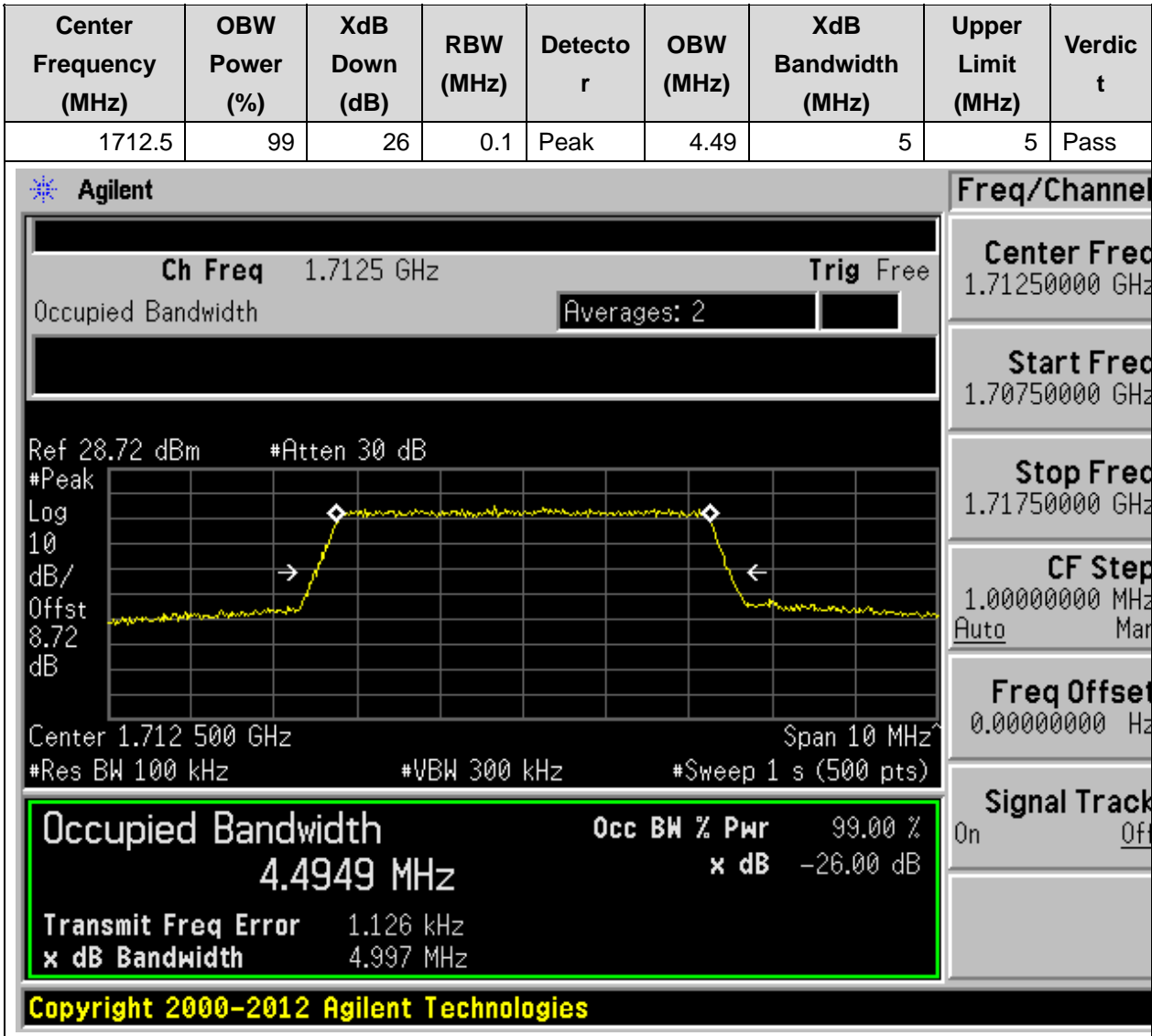
15.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:20385, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)



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



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



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



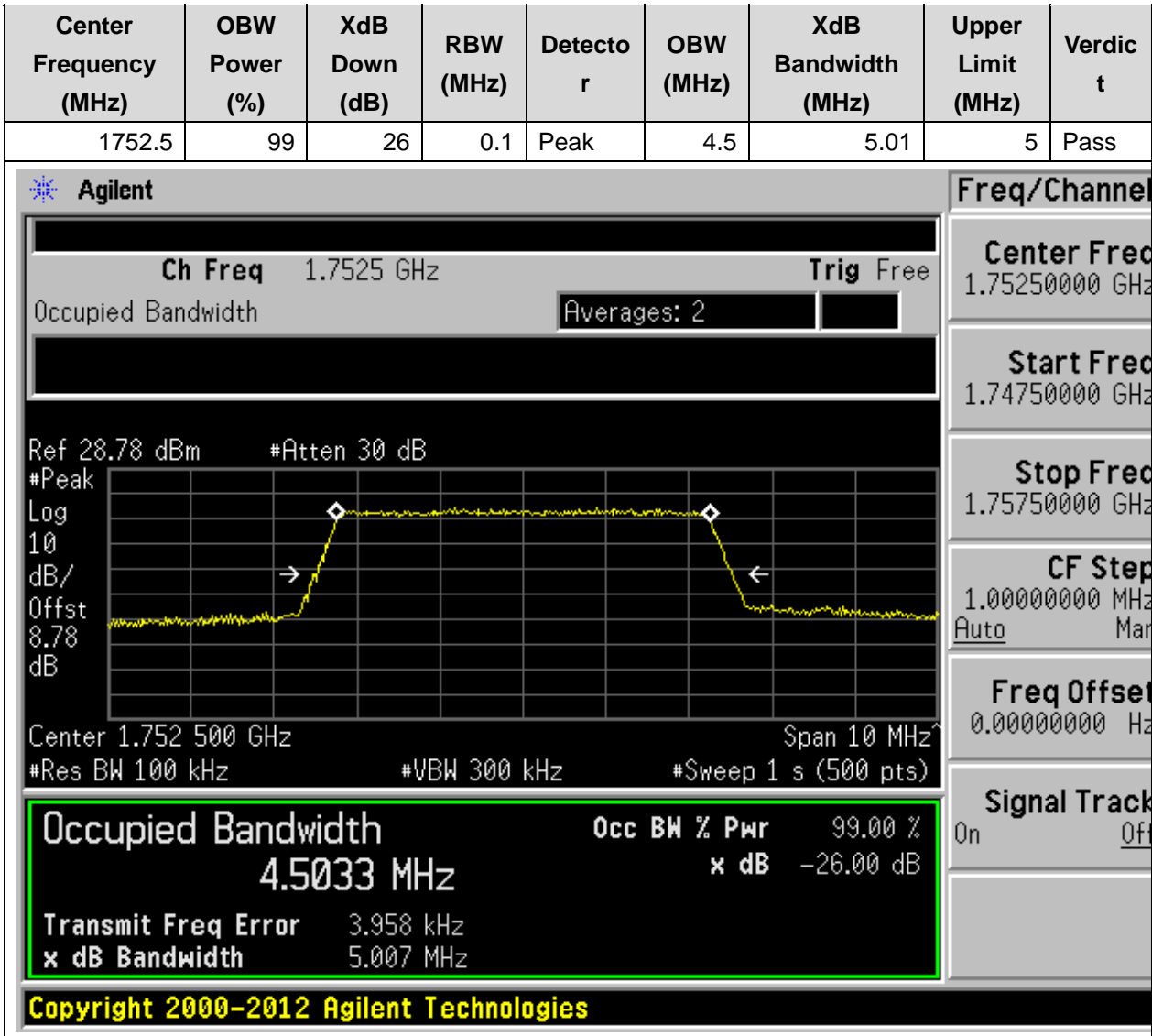
15.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:20175, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



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



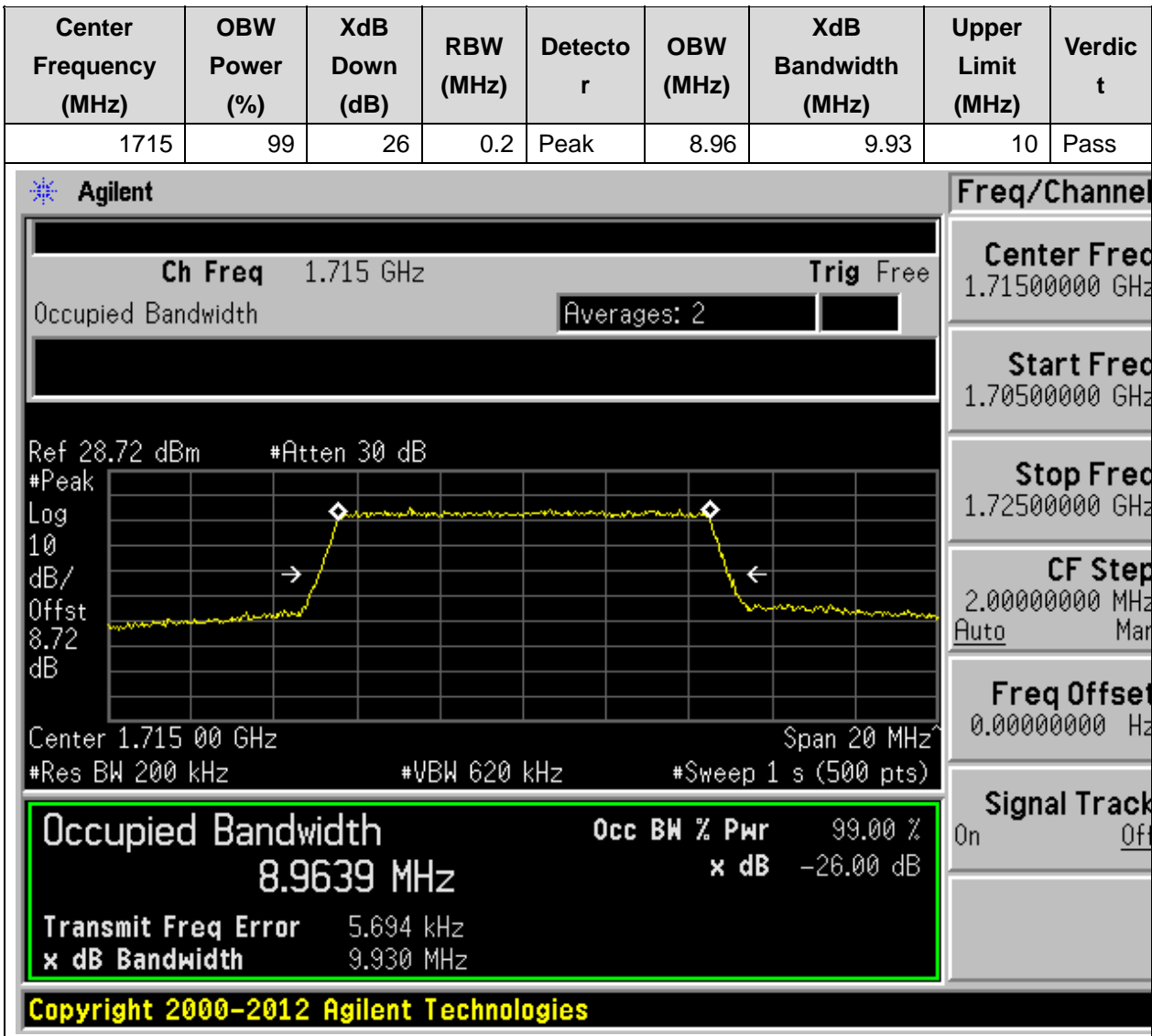
15.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:20375, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



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



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



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

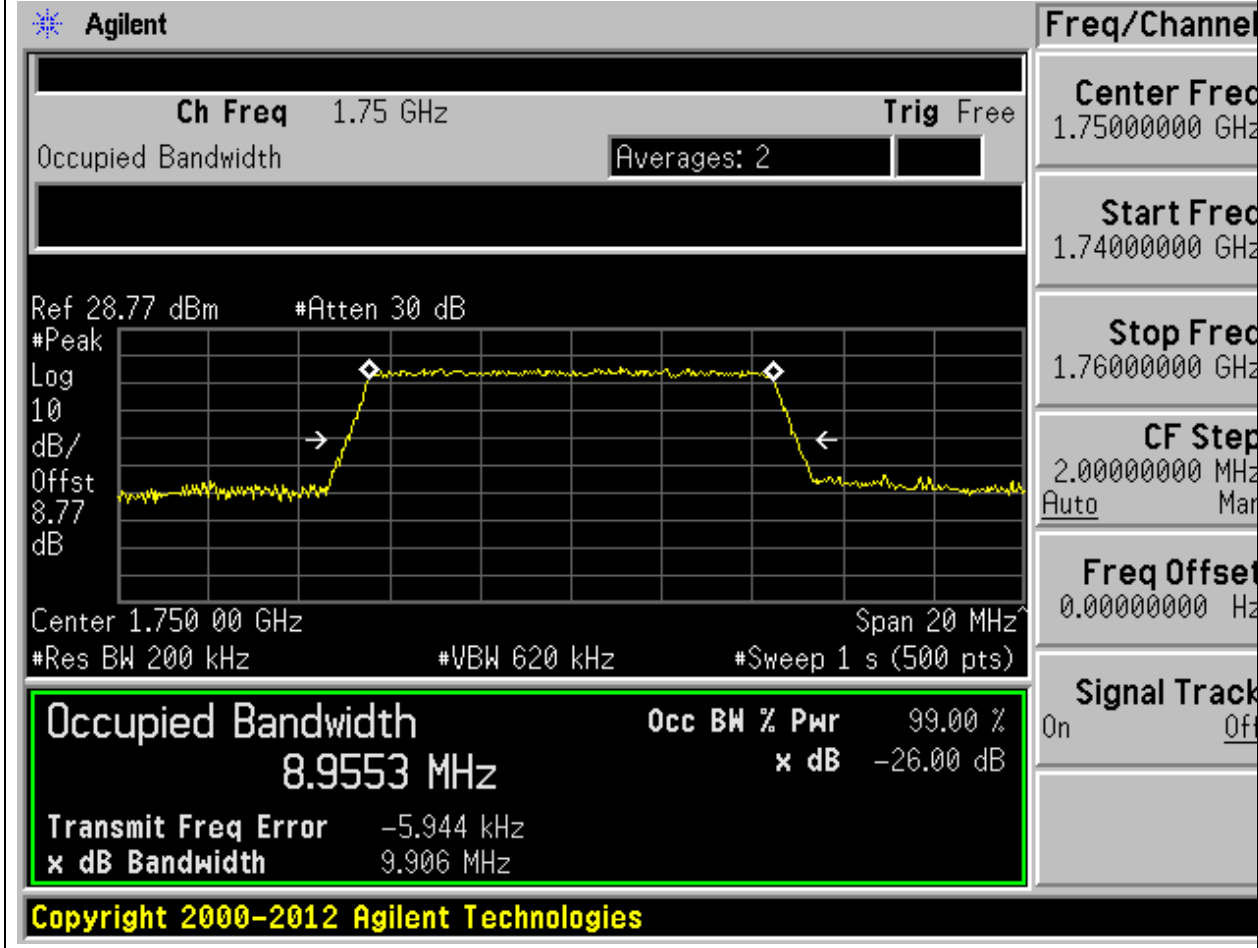


15.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:20175, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



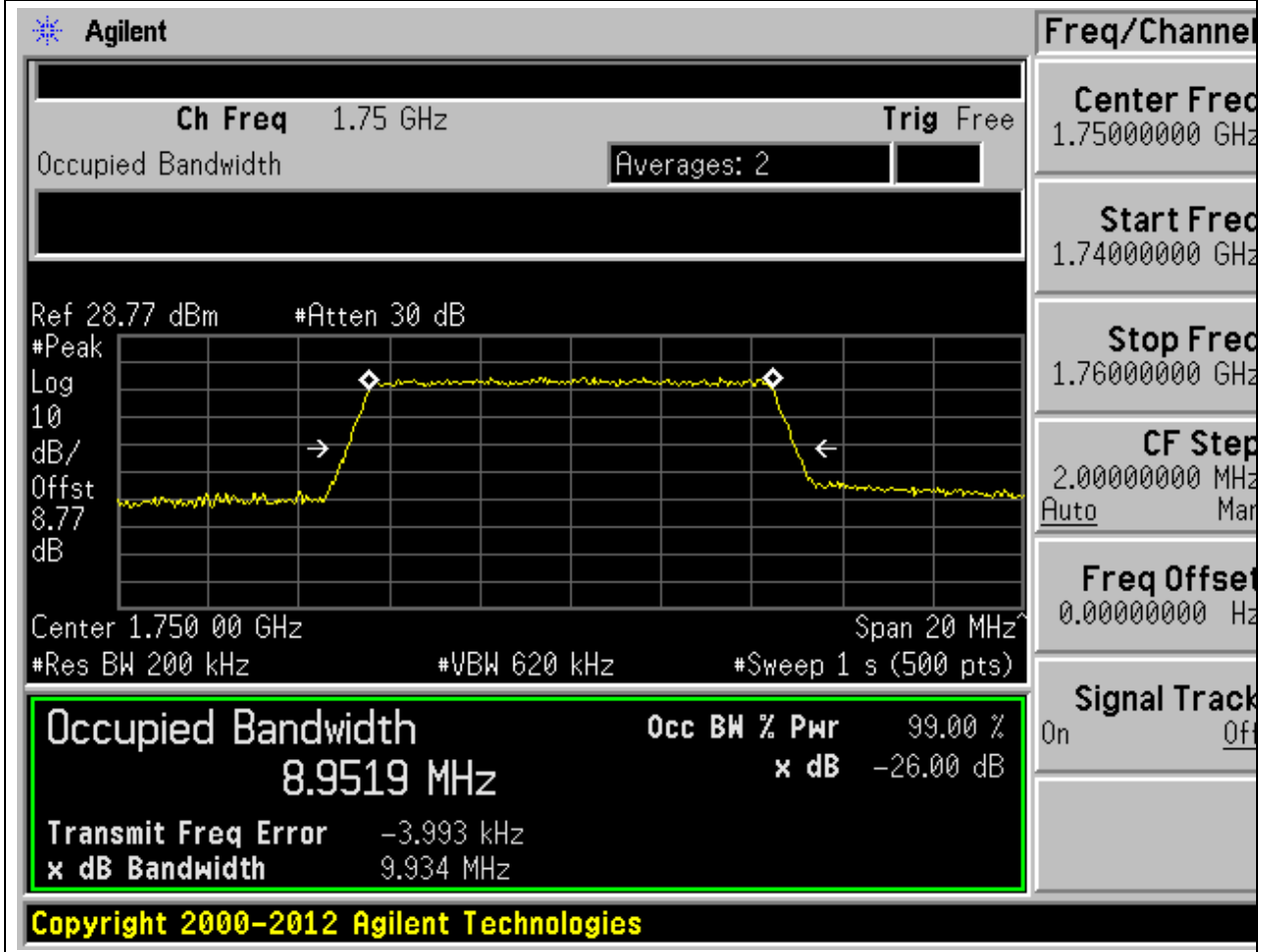
15.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:20350, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1750	99	26	0.2	Peak	8.96	9.91	10	Pass



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

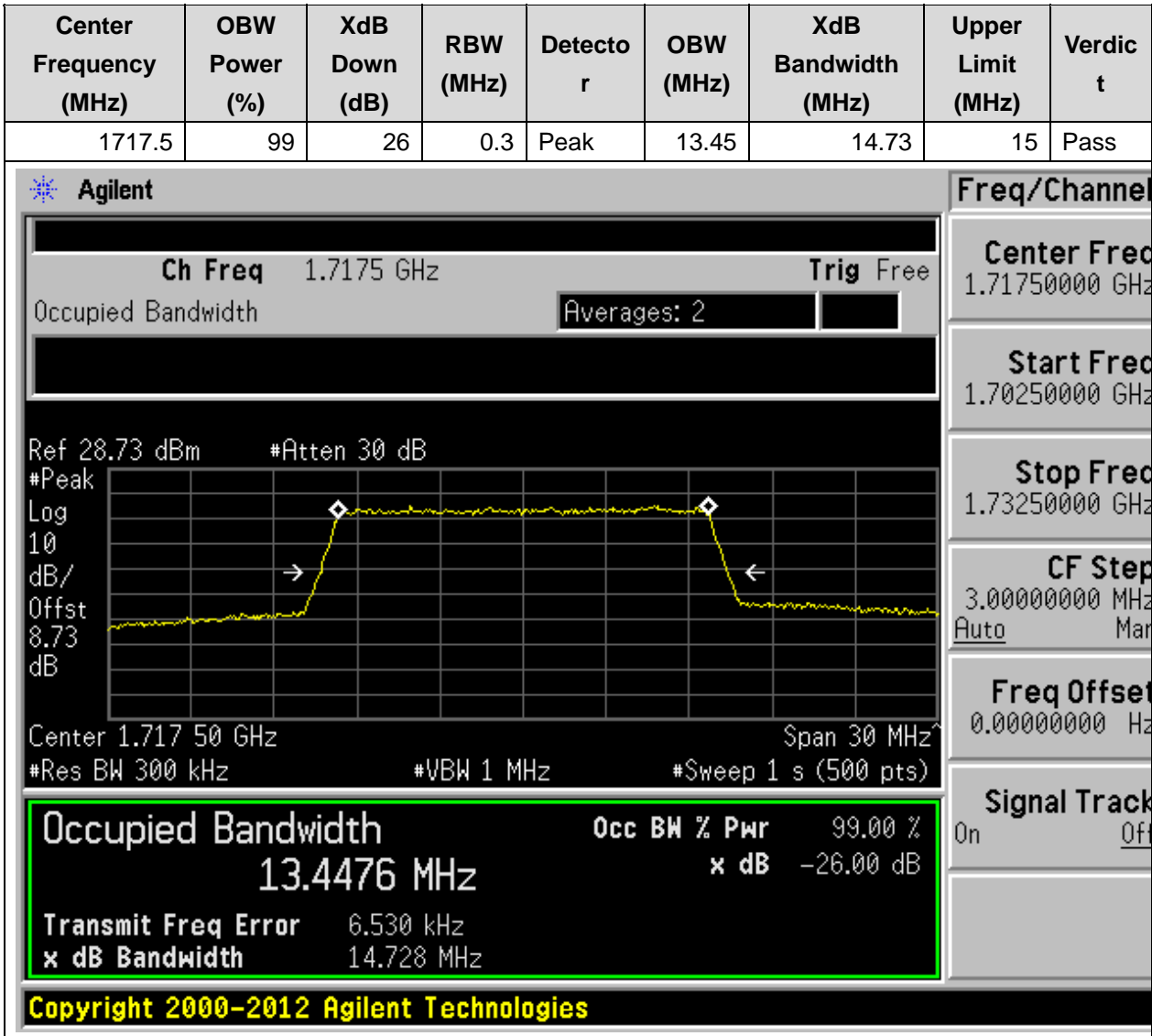
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1750	99	26	0.2	Peak	8.95	9.93	10	Pass



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



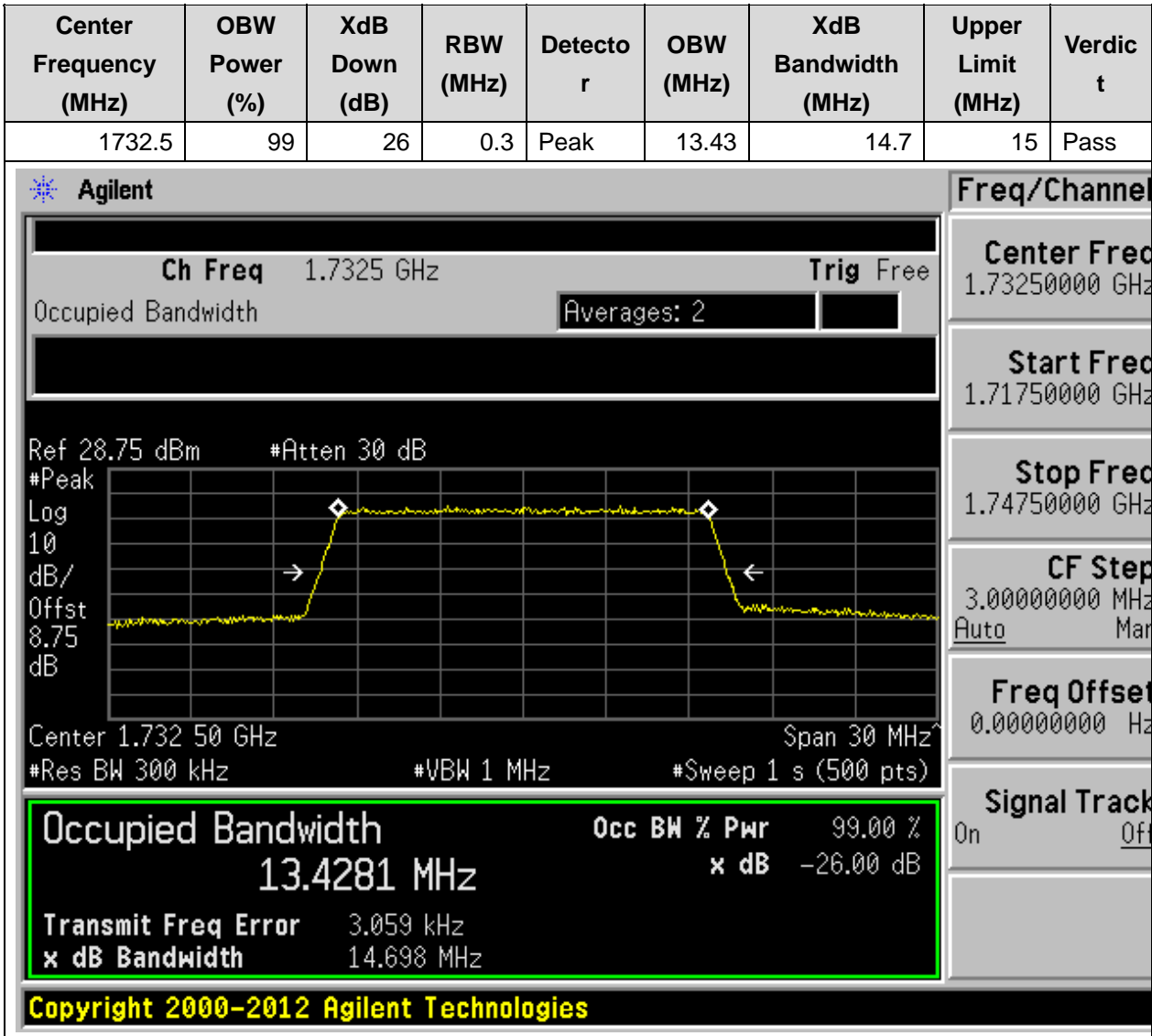
15.26. LTE Occupied Bandwidth(NTNV)(Subtest:26, Channel:20025, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



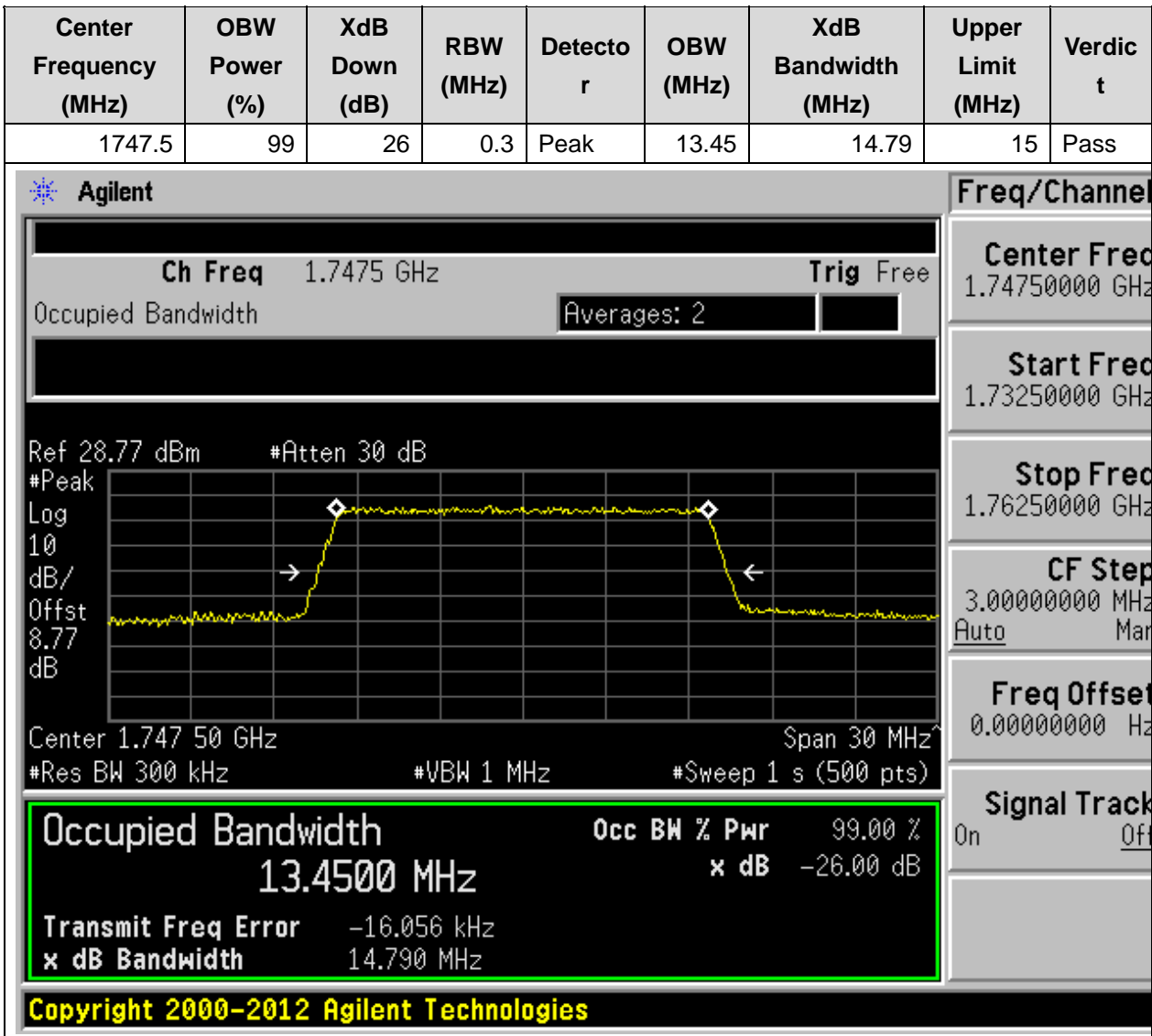
15.27. LTE Occupied Bandwidth(NTNV)(Subtest:27, Channel:20175, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)



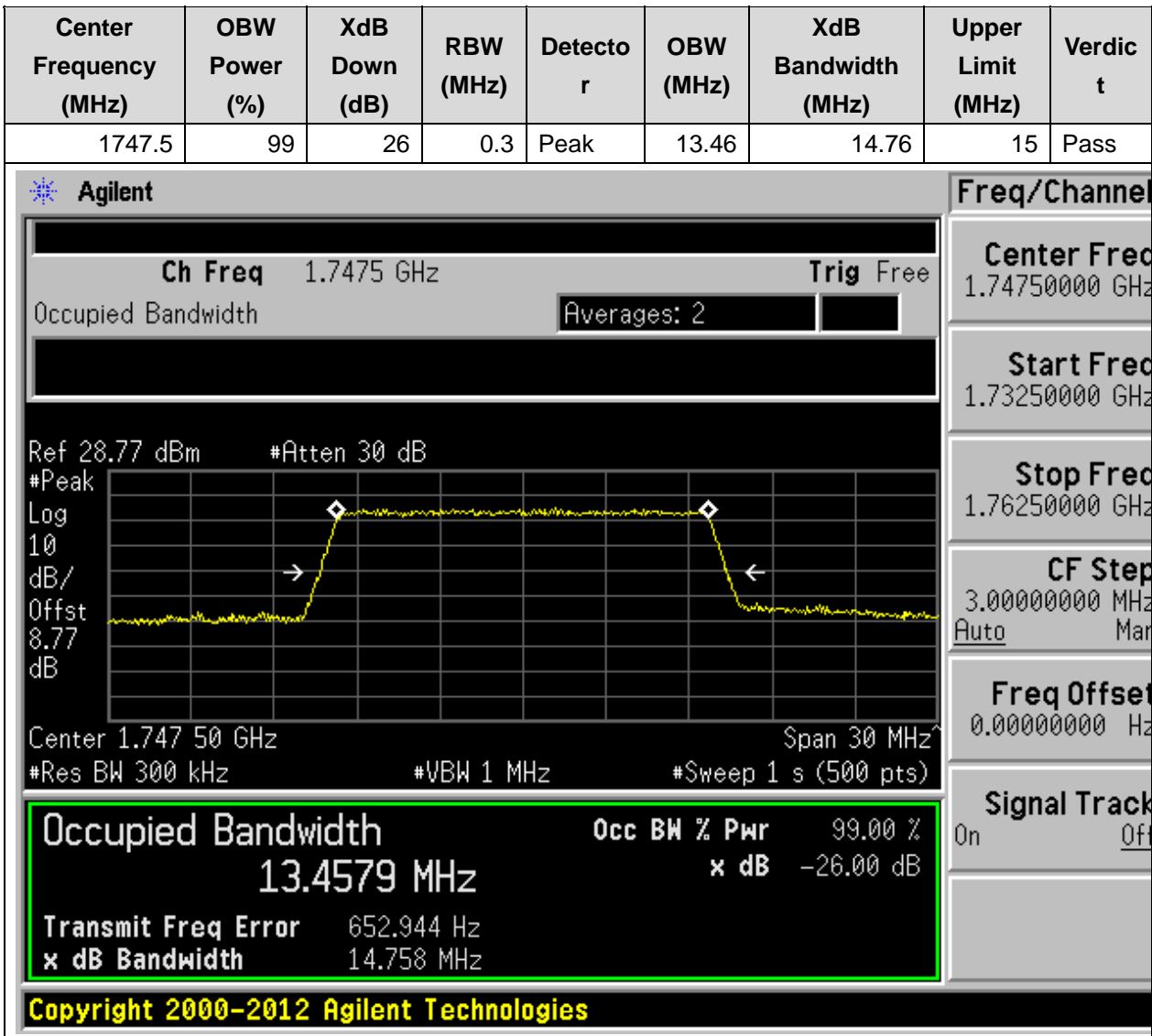
15.28. LTE Occupied Bandwidth(NTNV)(Subtest:28, Channel:20175, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



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



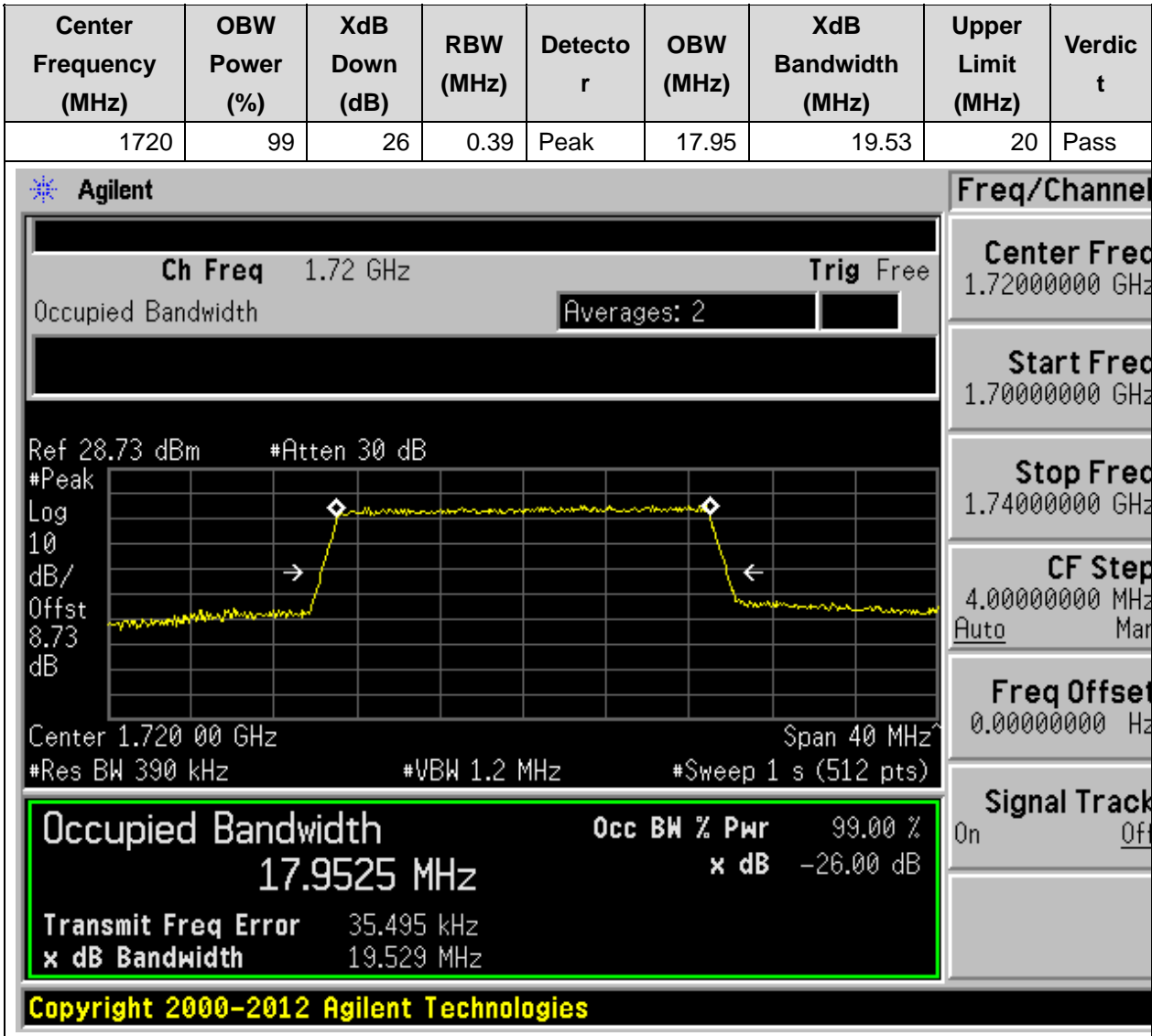
15.30. LTE Occupied Bandwidth(NTNV)(Subtest:30, Channel:20325, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



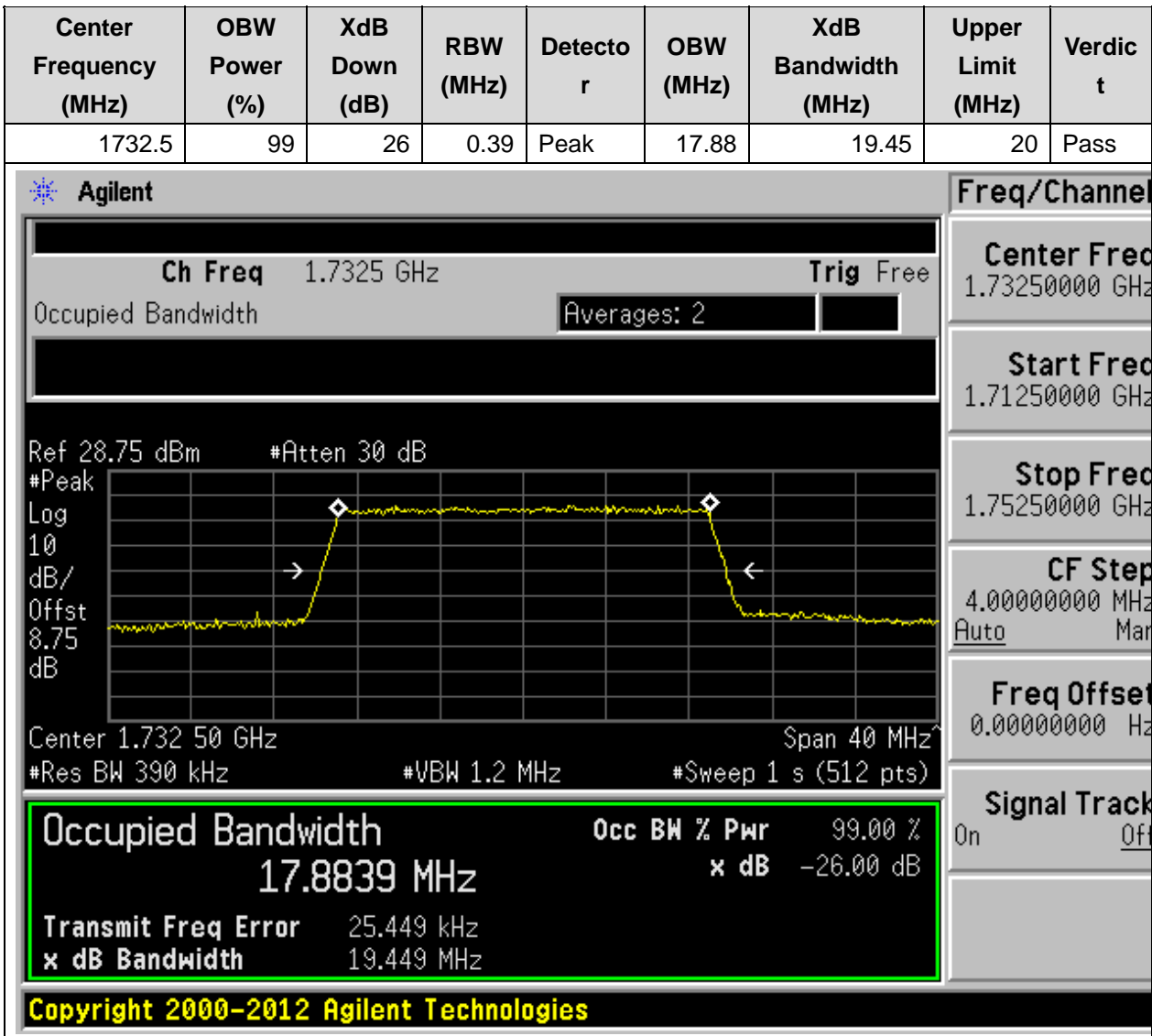
15.31. LTE Occupied Bandwidth(NTNV)(Subtest:31, Channel:20050, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



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



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



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



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



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

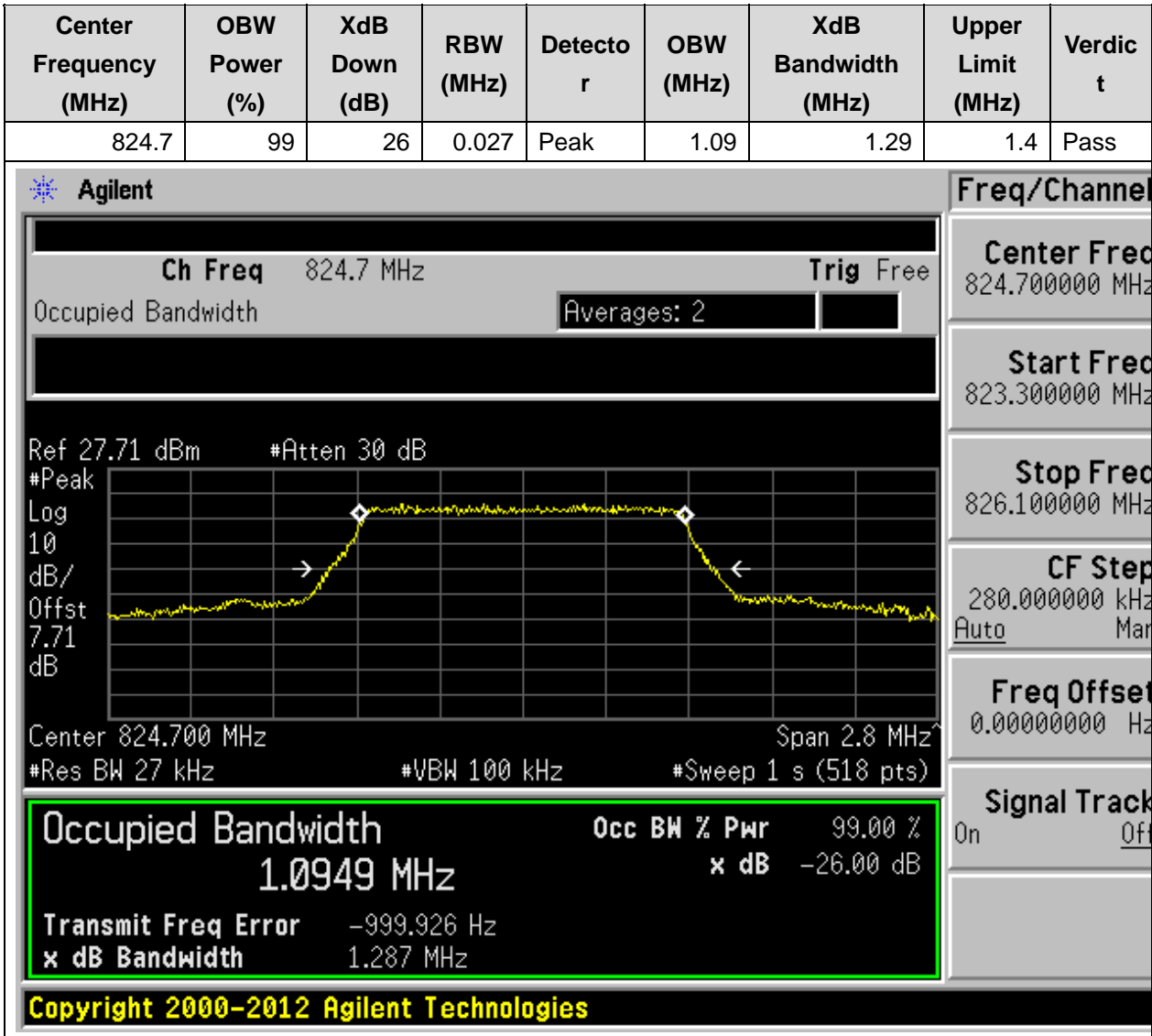


16. LTE_Band5

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



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



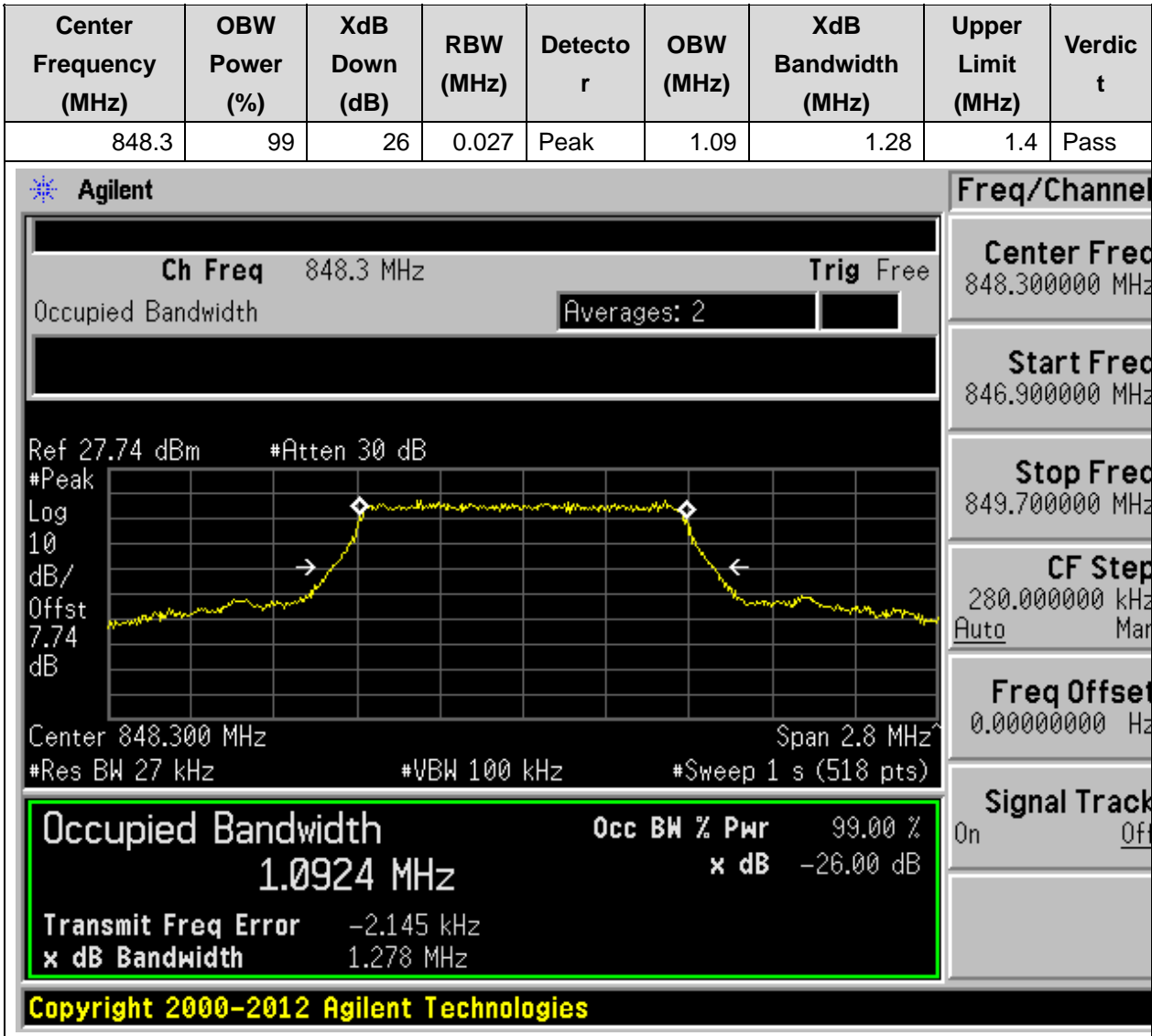
16.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:20525, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



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



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



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



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



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



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



16.10. 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	2.7	2.99	3	Pass

Agilent Freq/Channel

Ch Freq 836.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 27.73 dBm #Atten 30 dB

Center 836.500 MHz Span 6 MHz

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

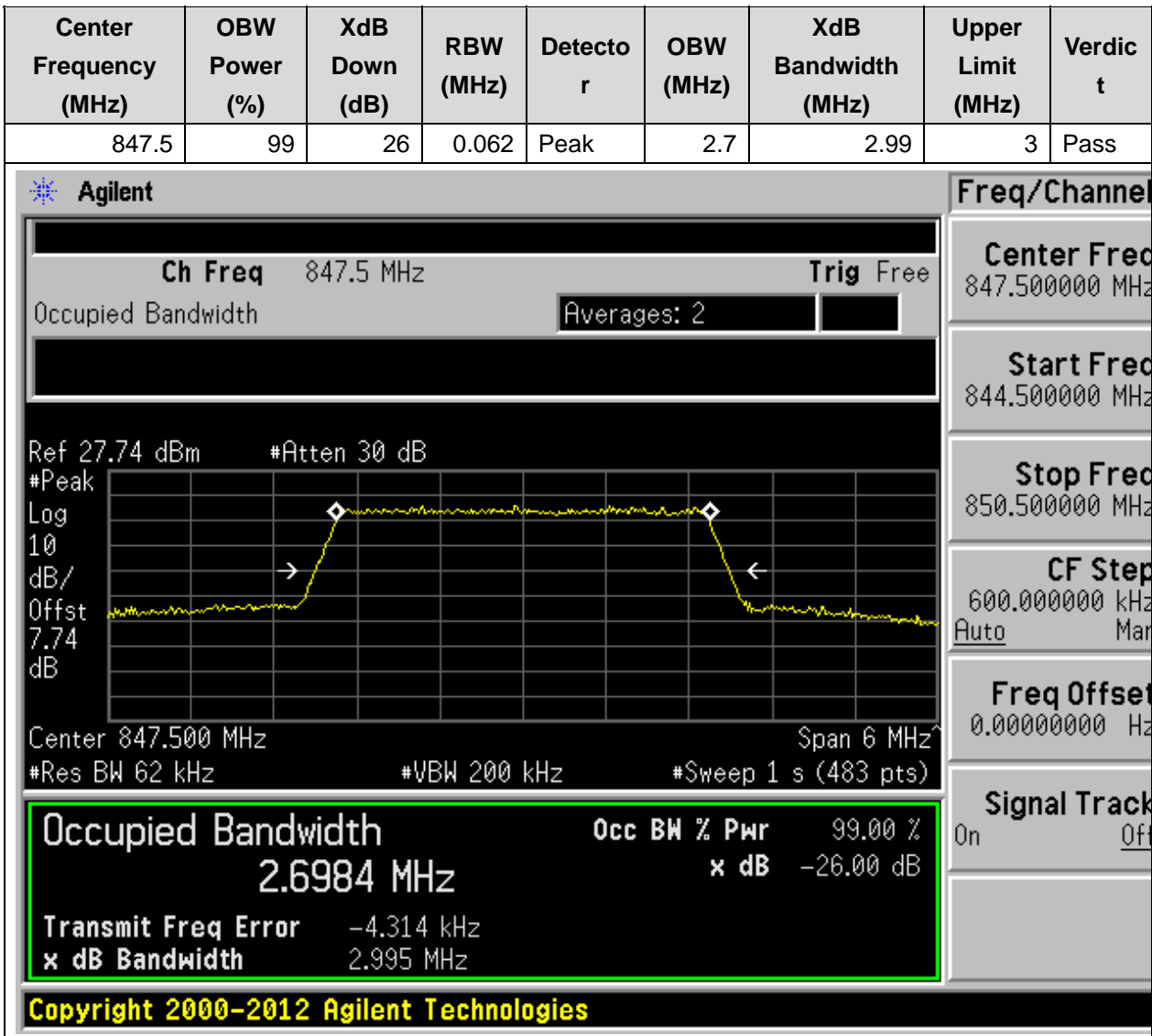
Occupied Bandwidth	Occ BW % Pwr	99.00 %
2.6989 MHz	x dB	-26.00 dB
Transmit Freq Error	-3.992 kHz	
x dB Bandwidth	2.992 MHz	

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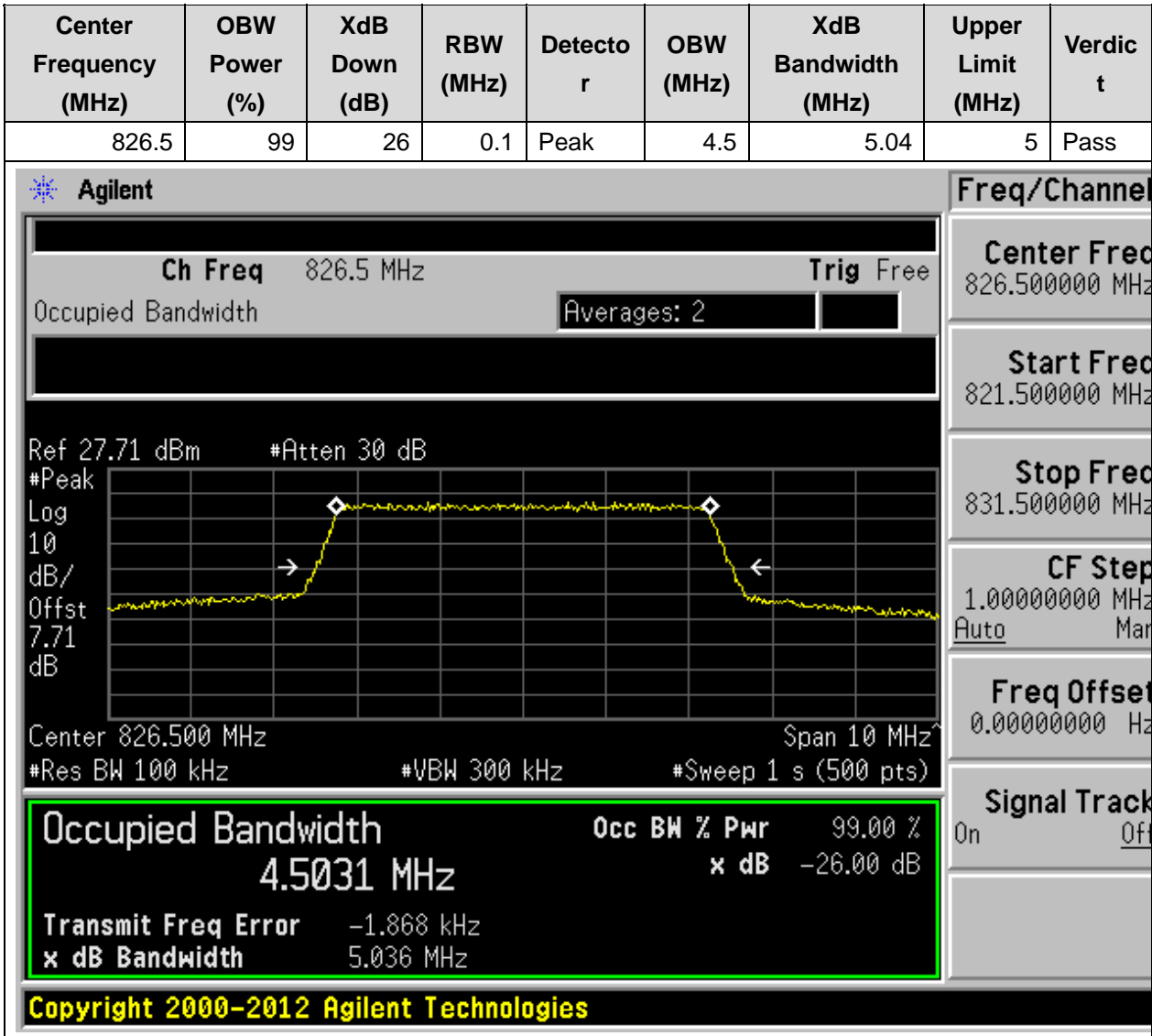
16.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:20635, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)



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



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



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



16.15. 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	5	5	Pass



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



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



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



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



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



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



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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.2	Peak	8.97	9.91	10	Pass

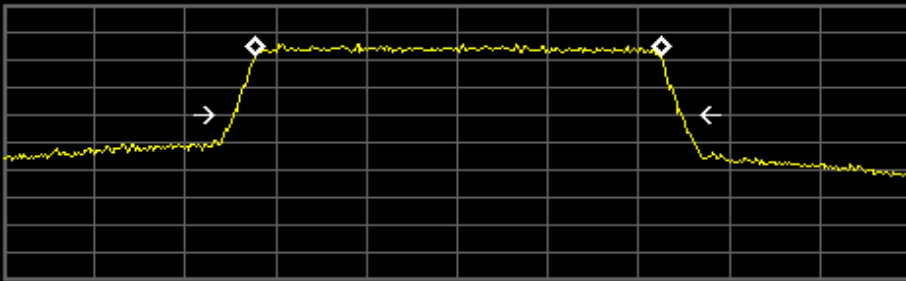
Agilent

Ch Freq 836.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 27.73 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 7.73 dB



Center 836.50 MHz Span 20 MHz

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

Occupied Bandwidth		Occ BW % Pwr	99.00 %
8.9719 MHz		x dB	-26.00 dB
Transmit Freq Error	3.313 kHz		
x dB Bandwidth	9.913 MHz		

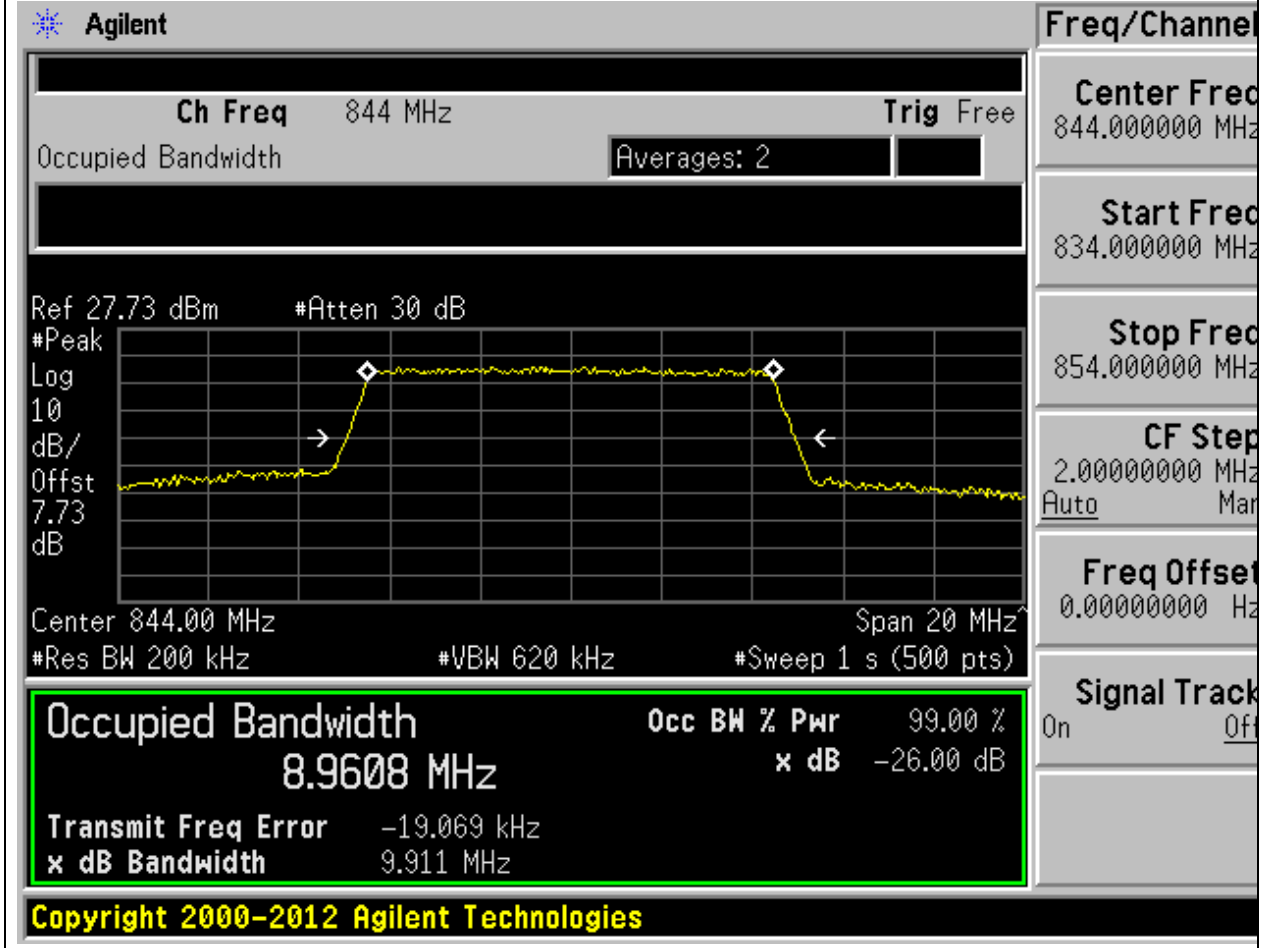
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16.23. LTE Occupied Bandwidth(NTNV)(Subtest:23, Channel:20600, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



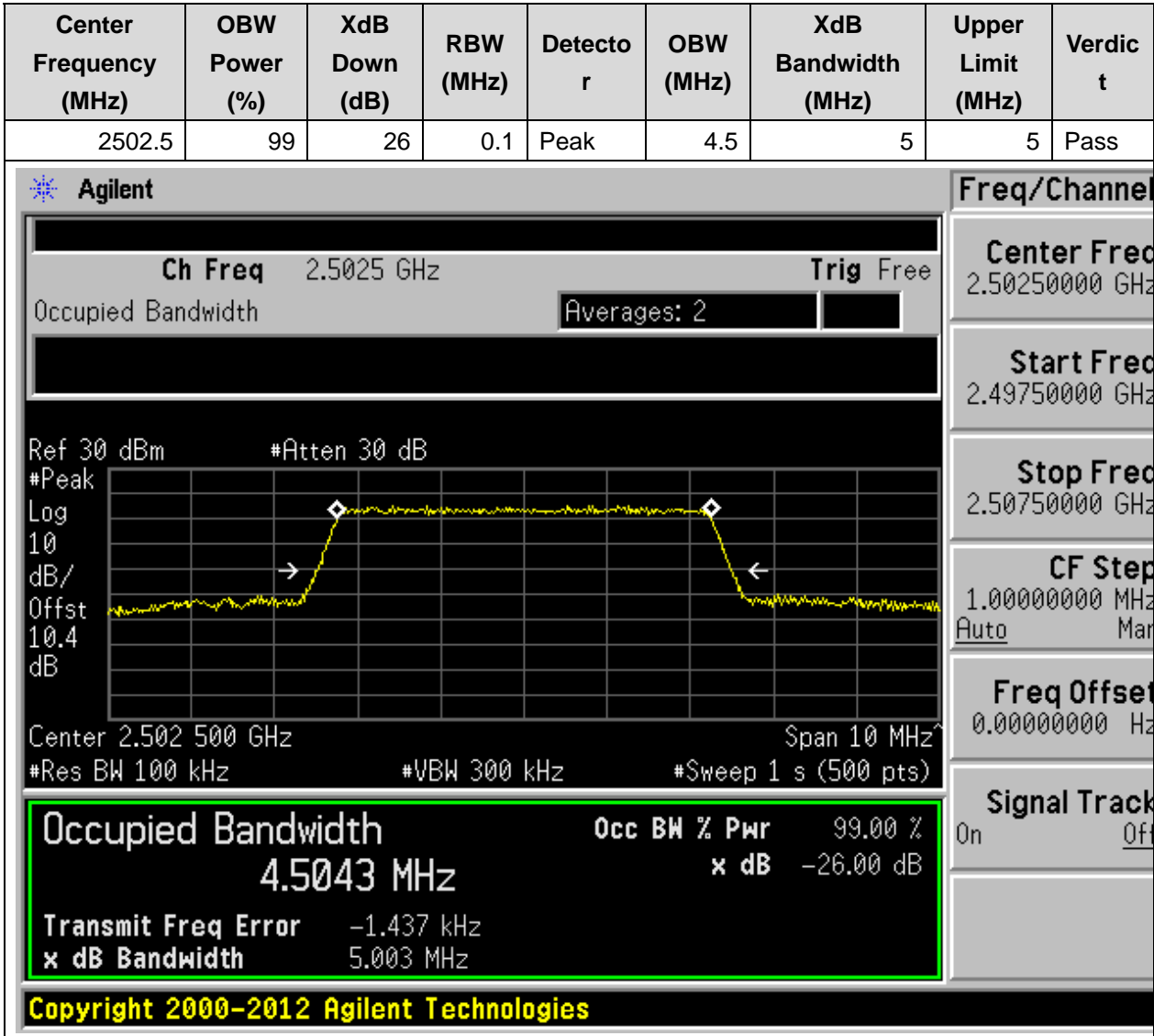
16.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:20600, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
844	99	26	0.2	Peak	8.96	9.91	10	Pass

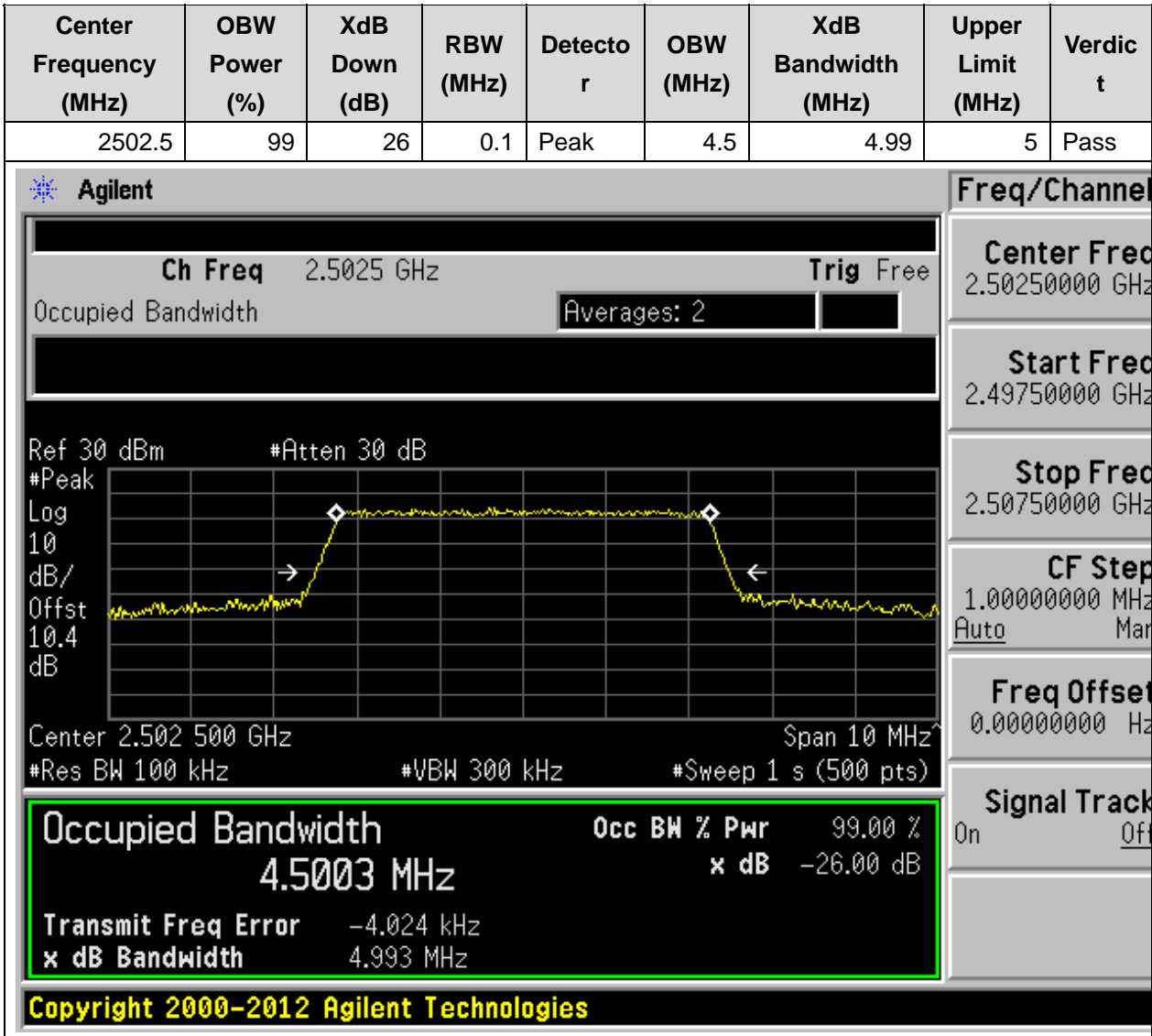


17. LTE_Band7

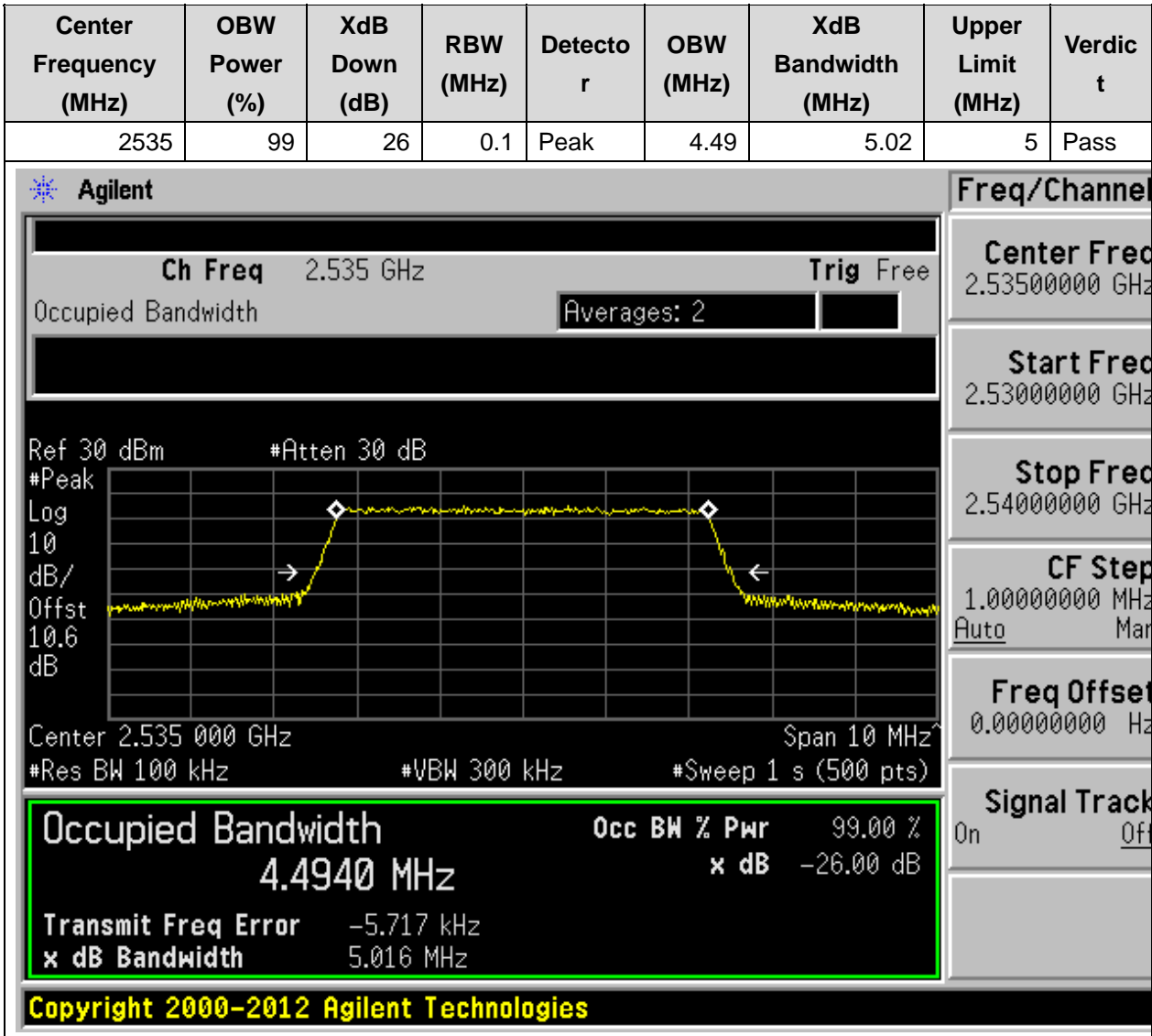
17.1. LTE Occupied Bandwidth(NTNV)(Subtest:1, Channel:20775, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



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



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



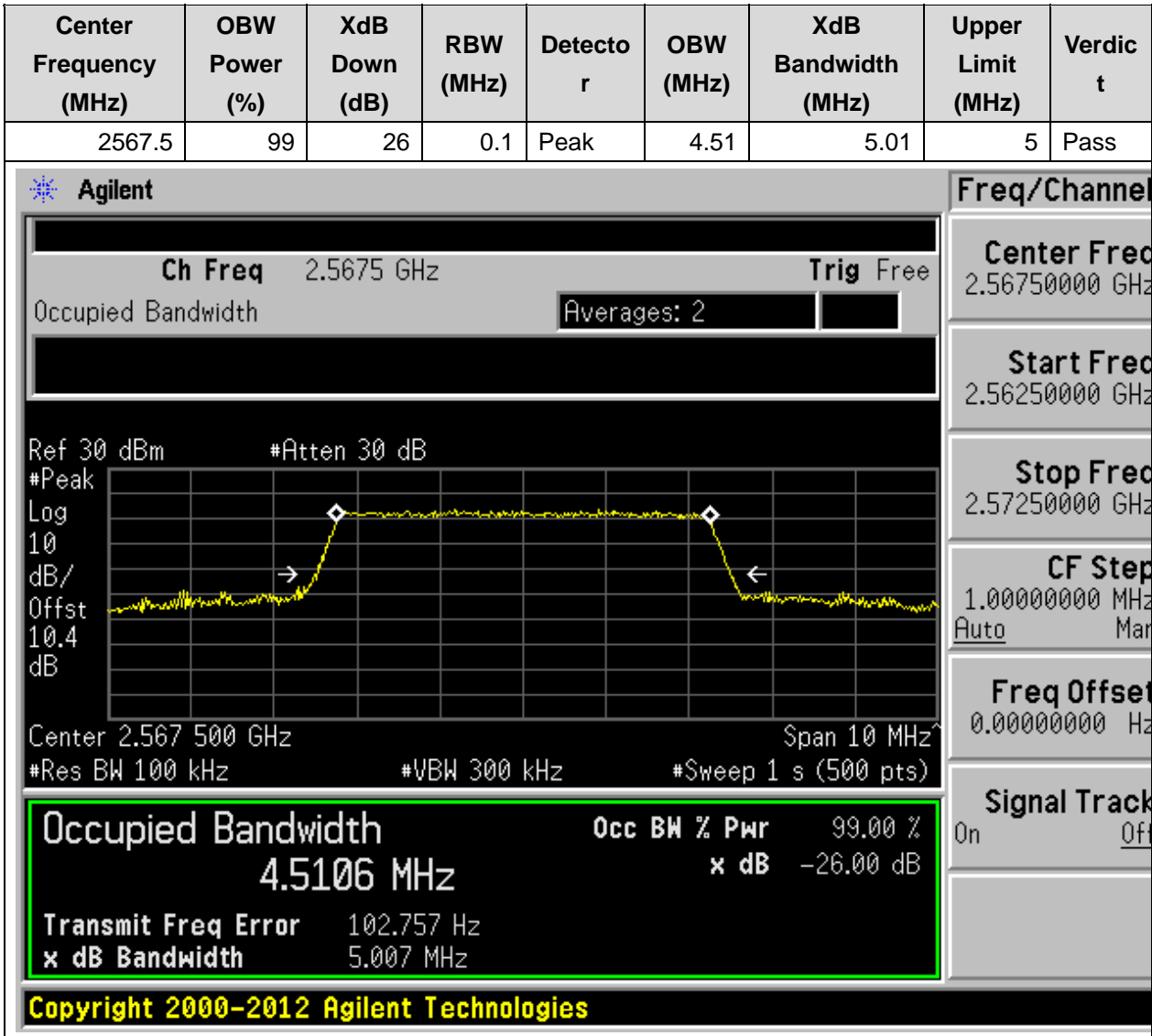
17.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:21100, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



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

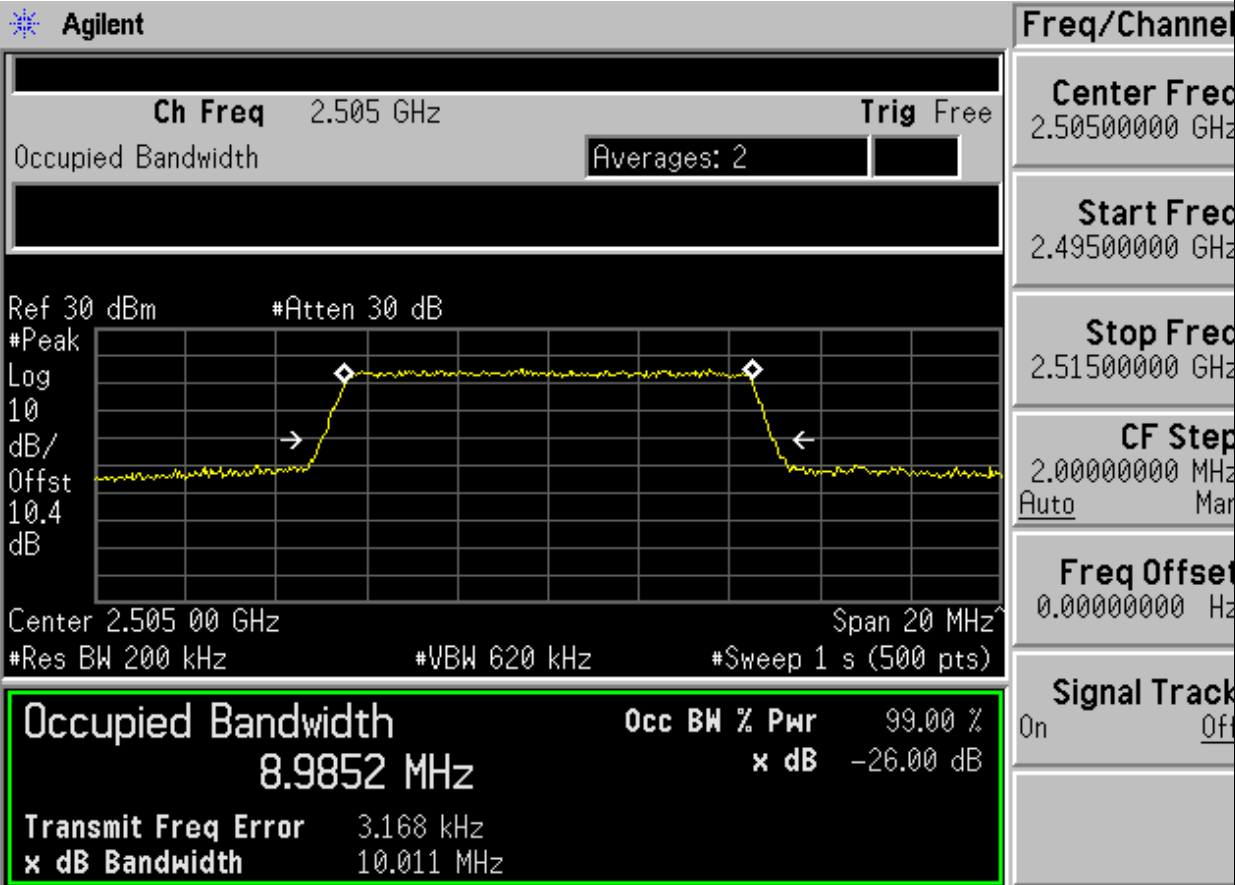


17.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:21425, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2505	99	26	0.2	Peak	8.99	10.01	10	Pass



Agilent

Ch Freq 2.505 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.4 dB

Center 2.505 00 GHz Span 20 MHz

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

Occupied Bandwidth	Occ BW % Pwr	99.00 %
8.9852 MHz	x dB	-26.00 dB
Transmit Freq Error	3.168 kHz	
x dB Bandwidth	10.011 MHz	

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Right Panel Parameters:

- Freq/Channel: Center Freq 2.50500000 GHz
- Start Freq 2.49500000 GHz
- Stop Freq 2.51500000 GHz
- CF Step 2.00000000 MHz
- Freq Offset 0.00000000 Hz
- Signal Track On

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

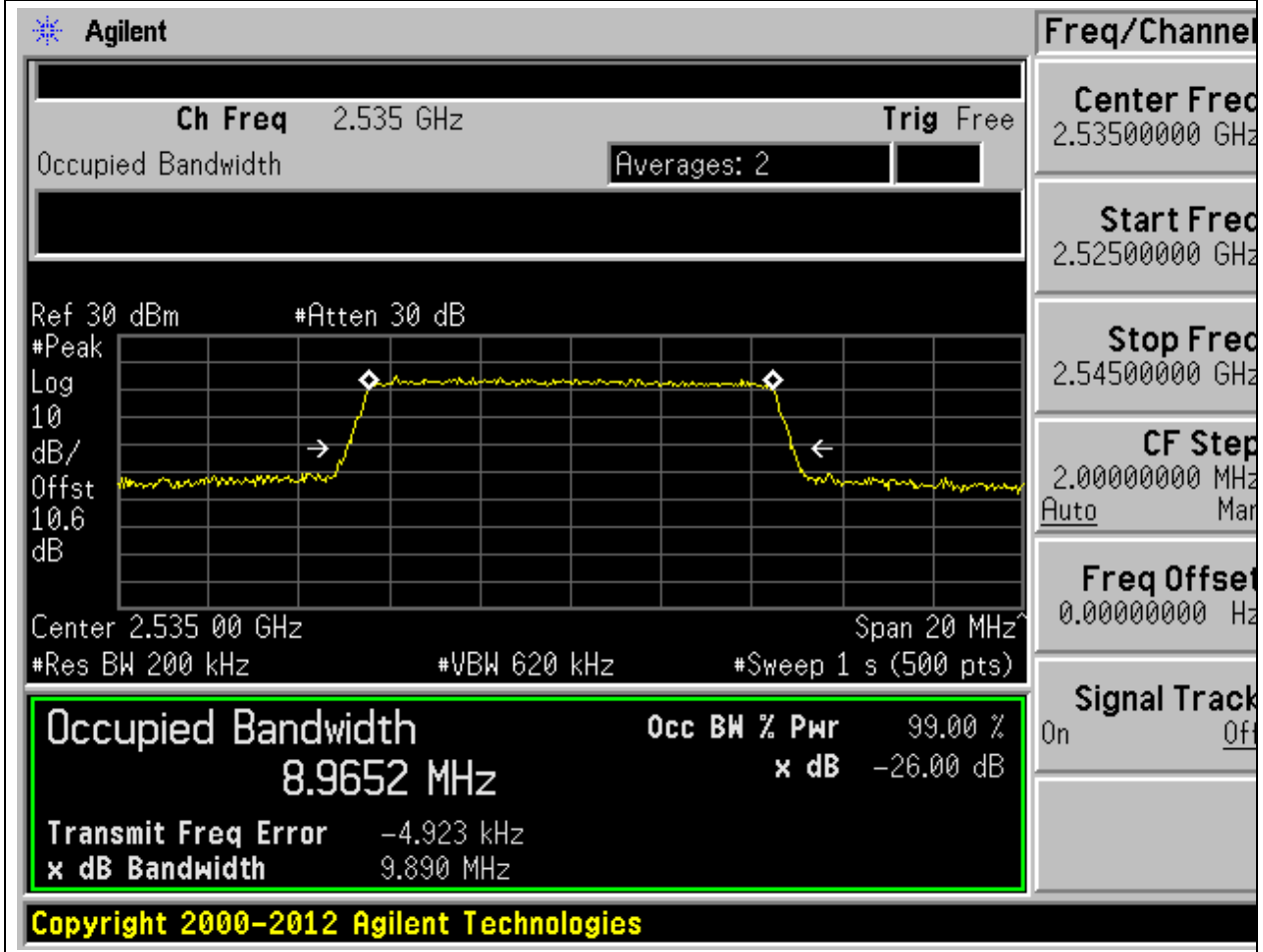


17.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:21100, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

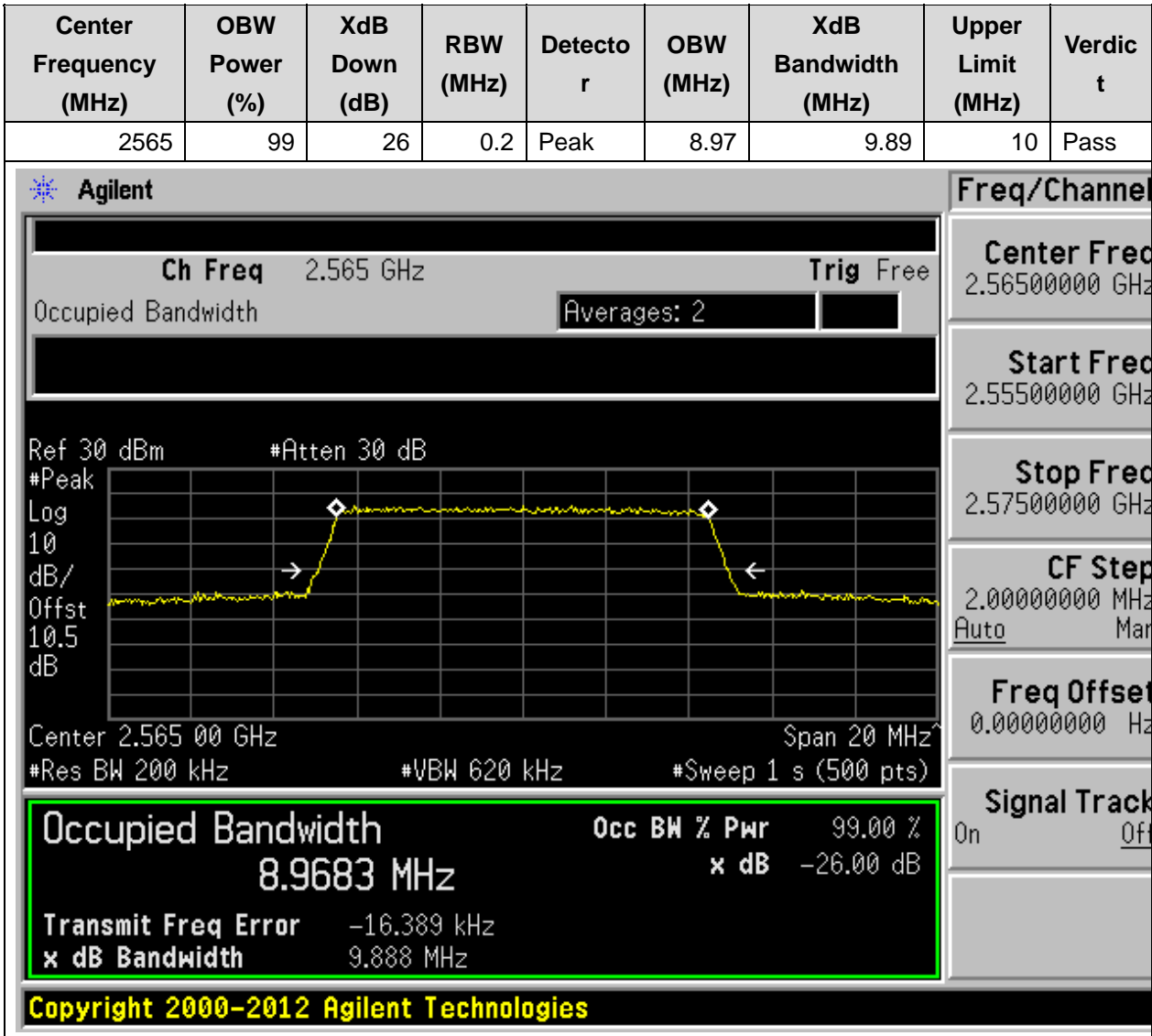


17.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:21100, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

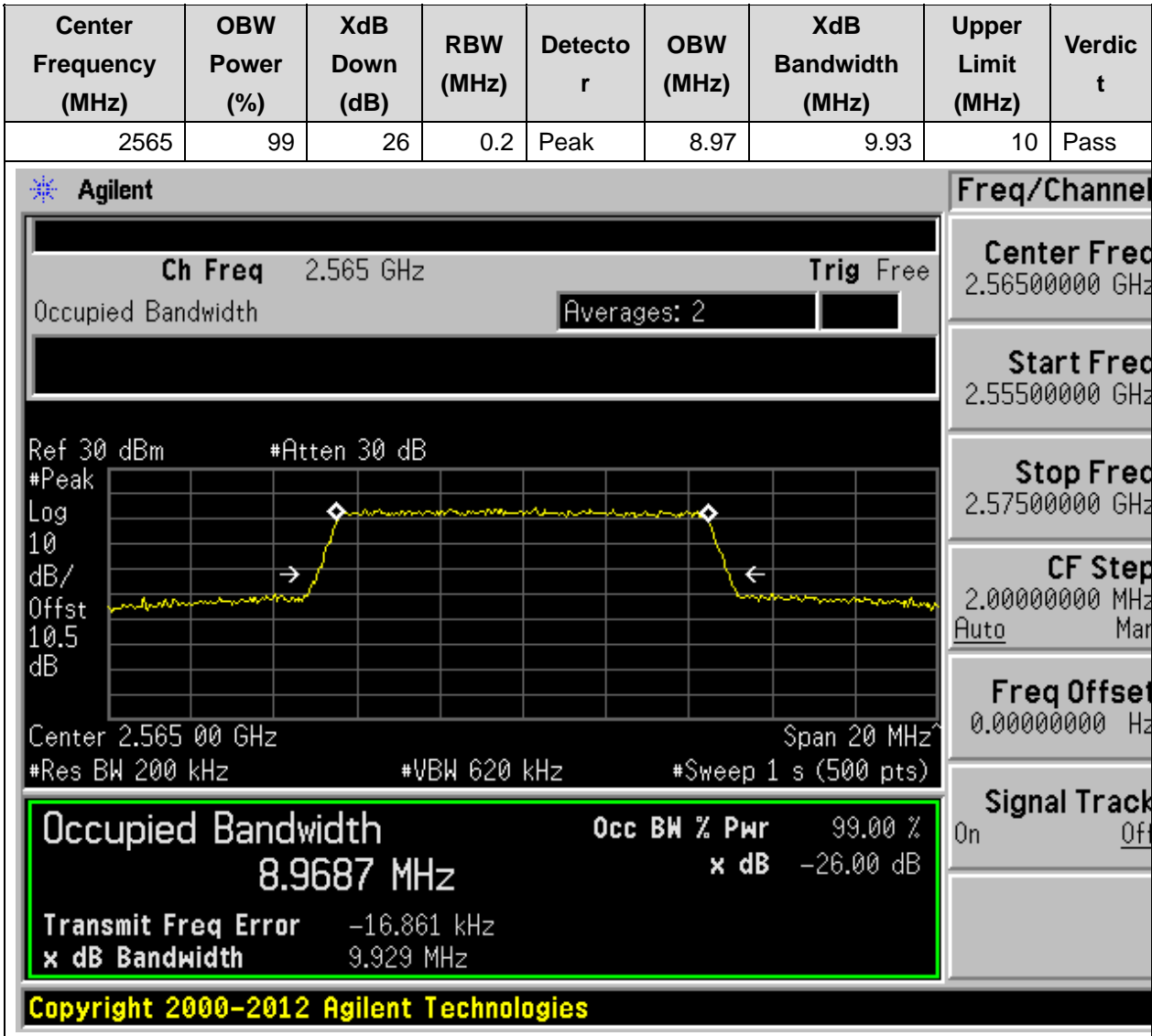
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.2	Peak	8.97	9.89	10	Pass



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



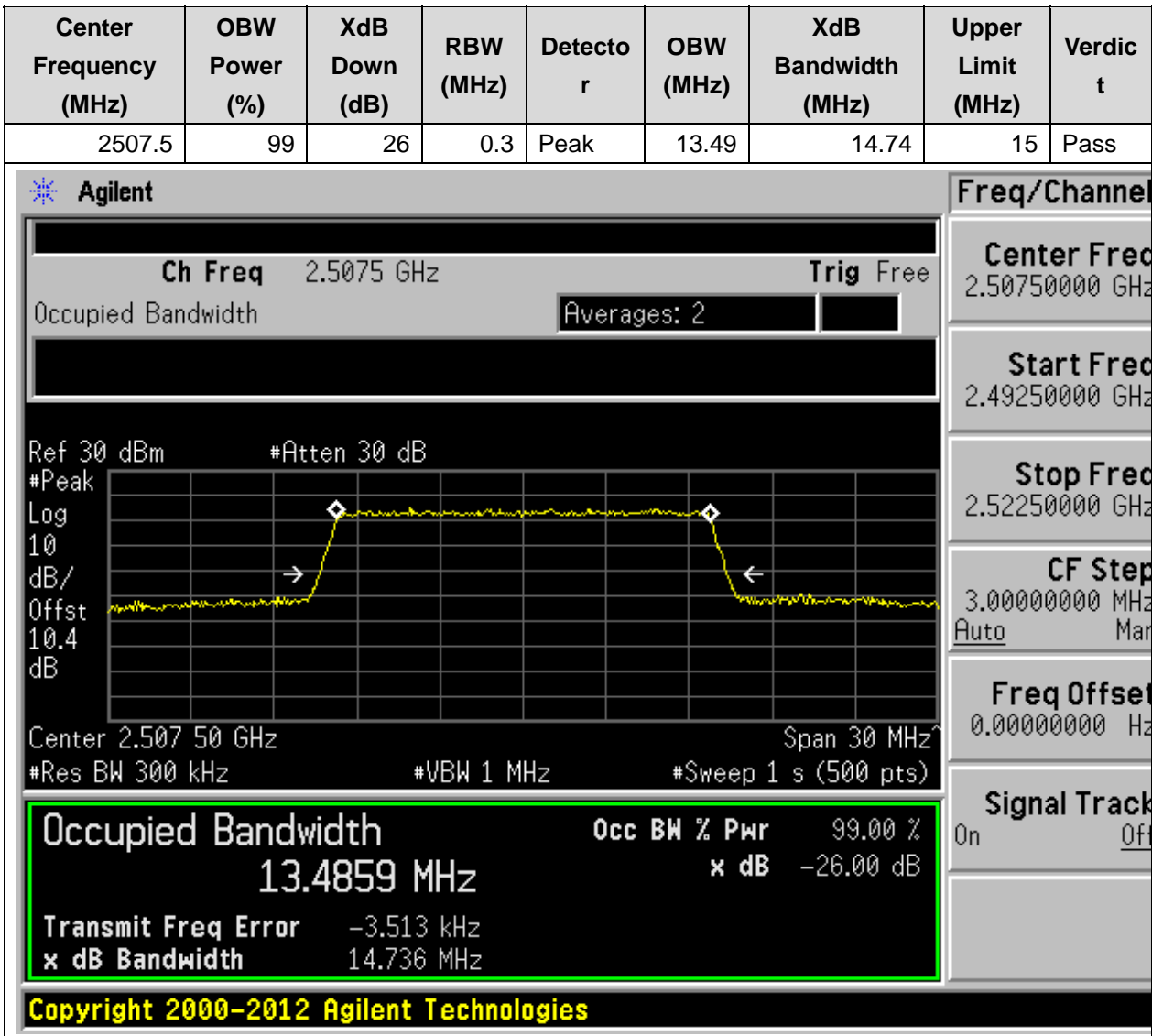
17.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:21400, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



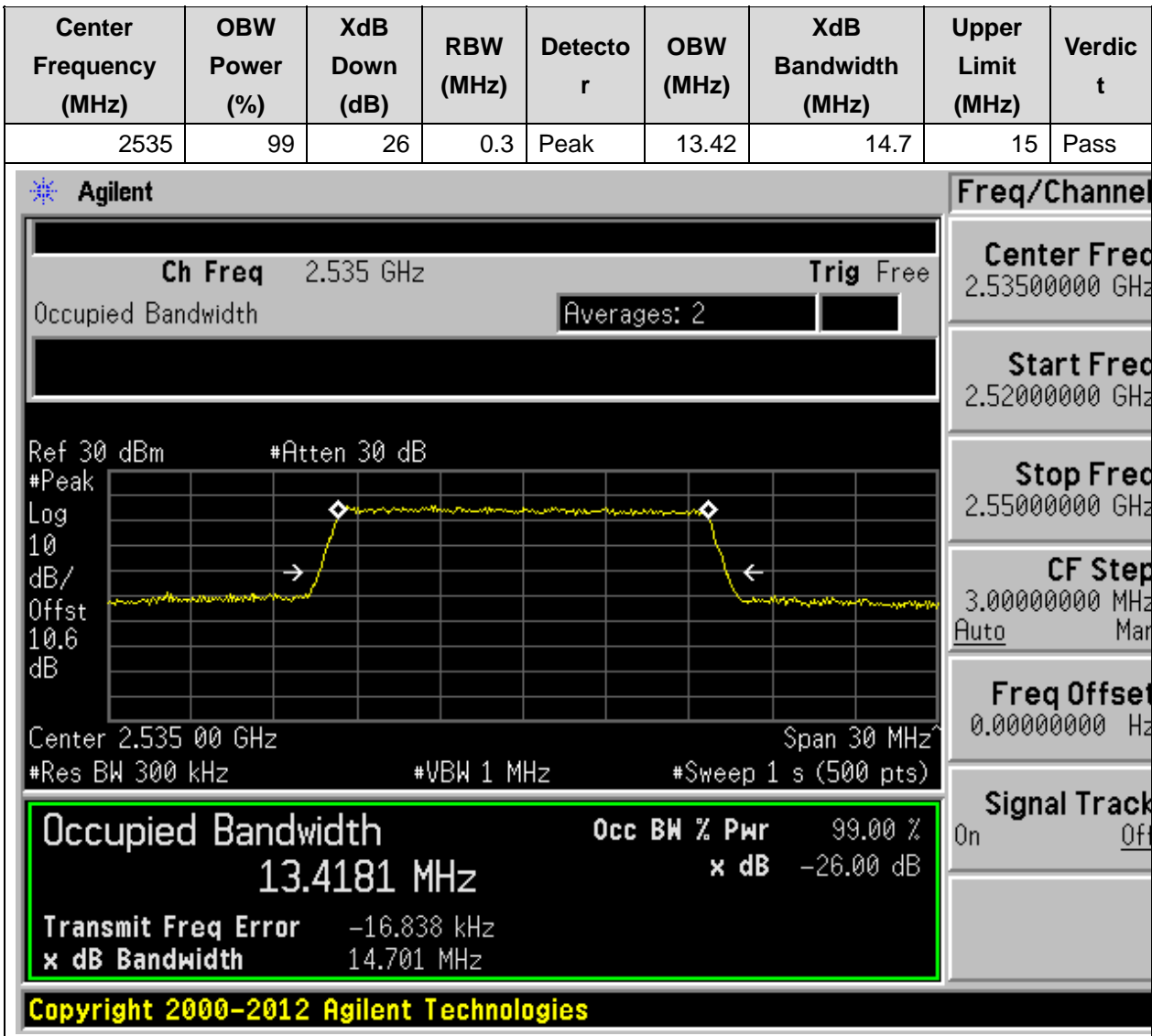
17.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:20825, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)



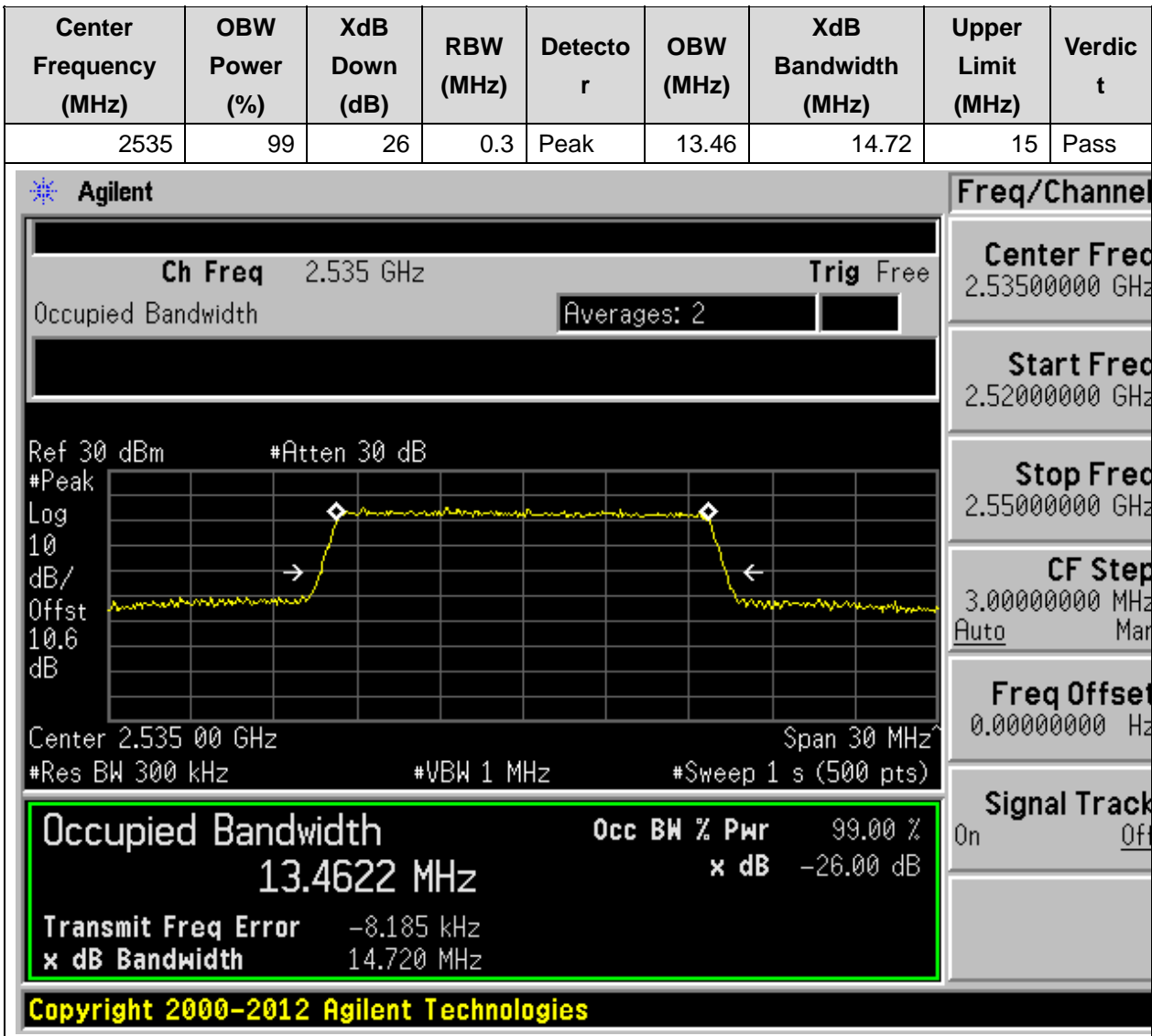
17.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:20825, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



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



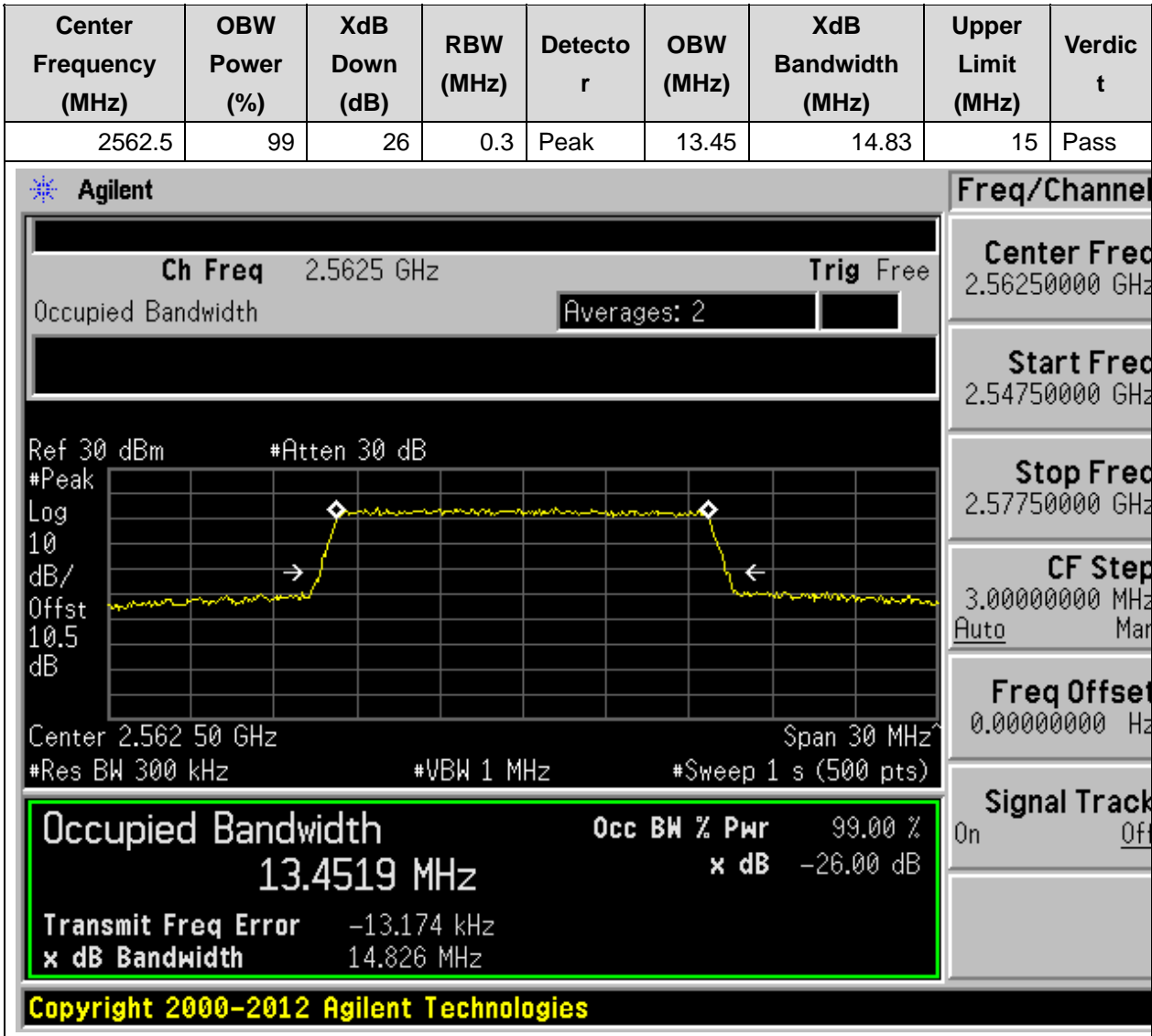
17.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:21100, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



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



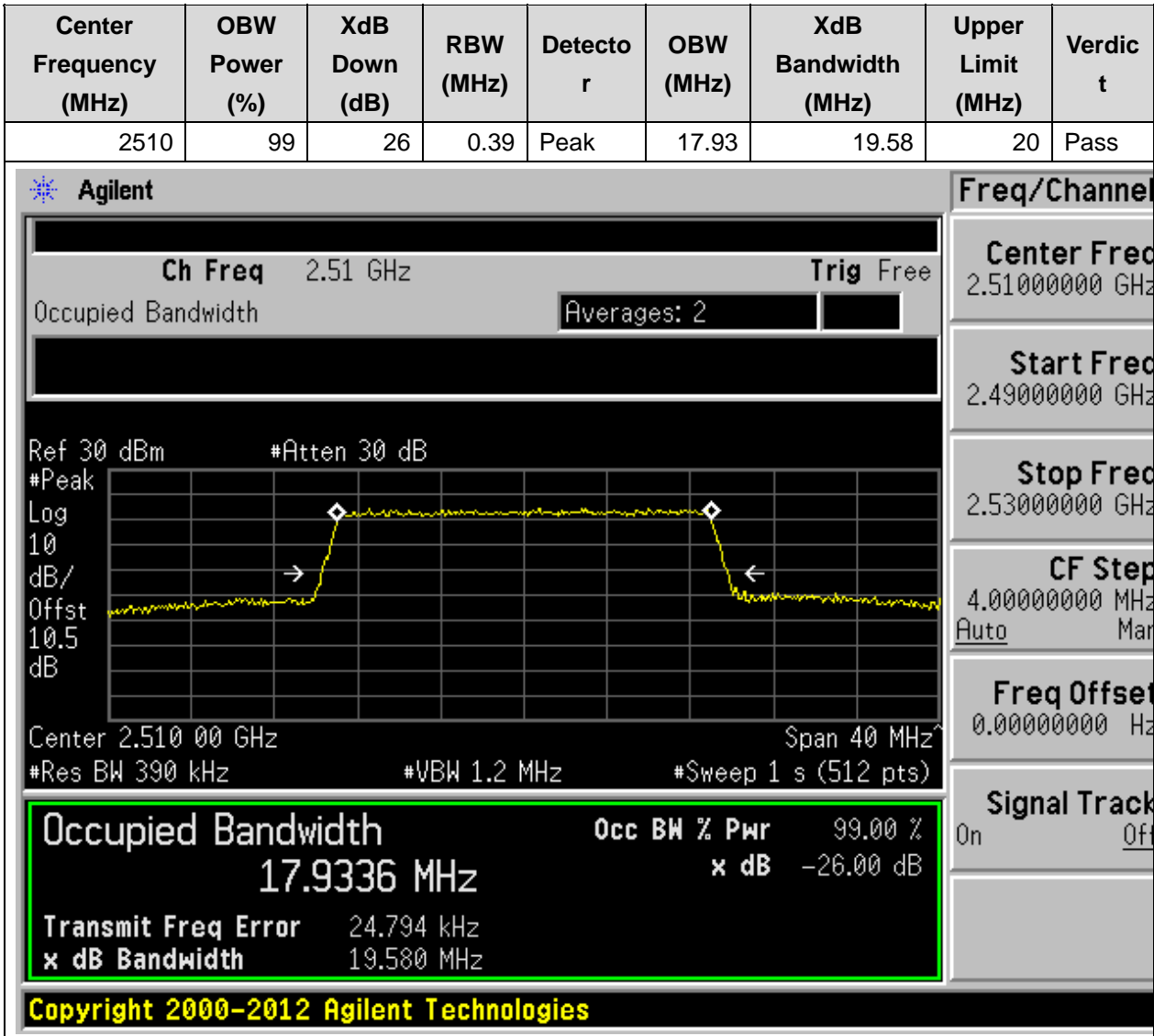
17.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:21375, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



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



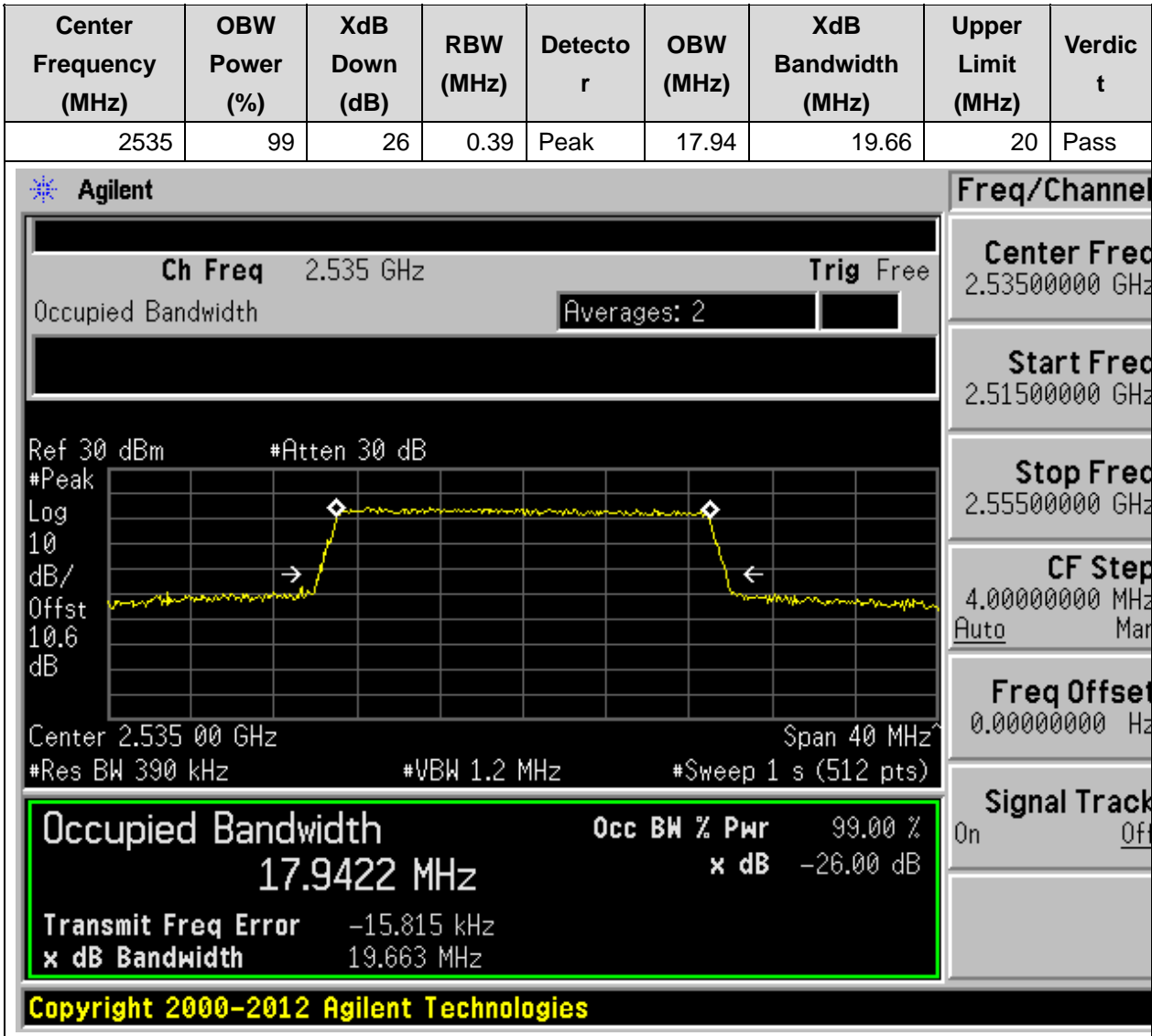
17.20. LTE Occupied Bandwidth(NTNV)(Subtest:20, Channel:20850, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



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



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



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

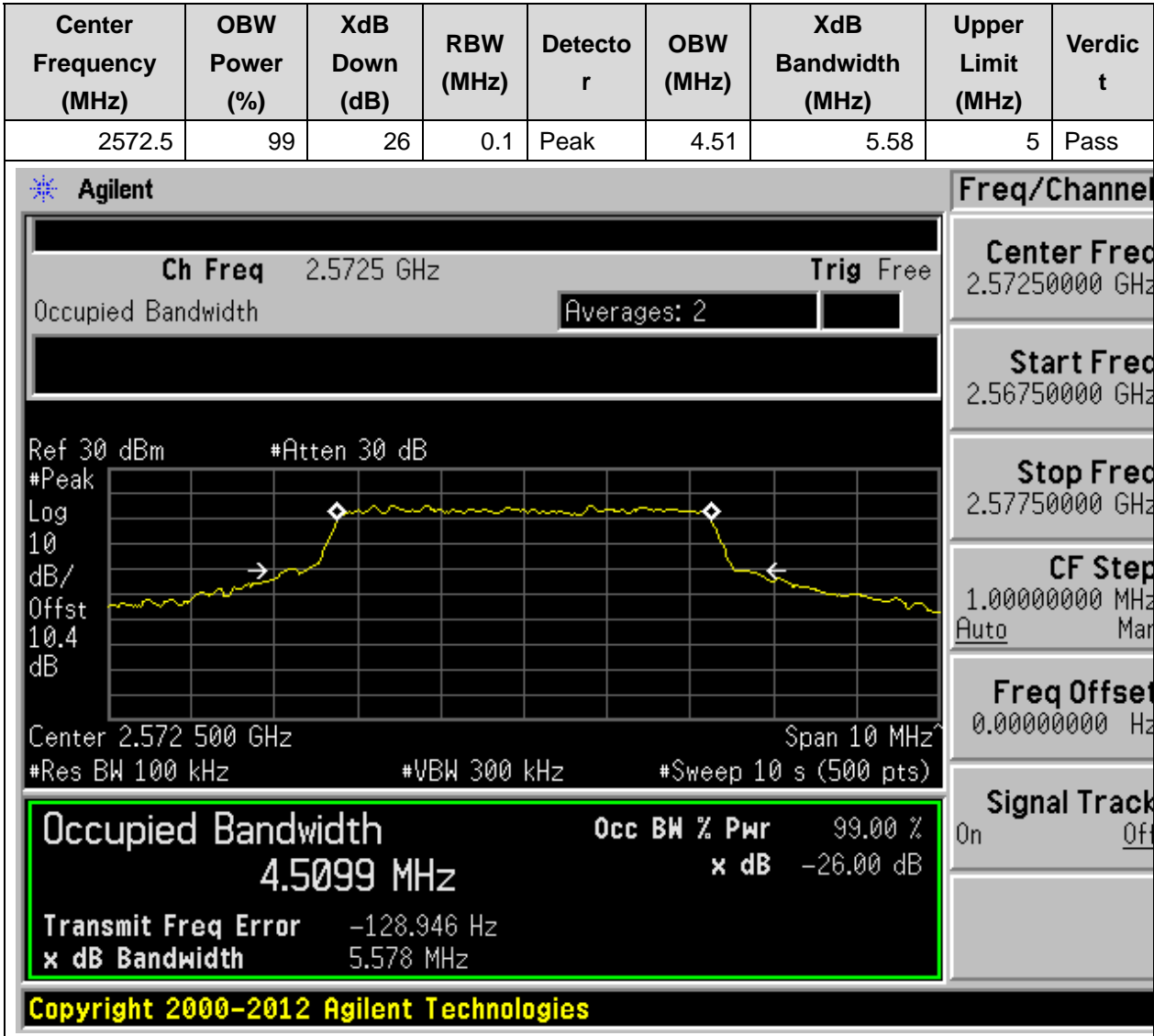


17.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:21350, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

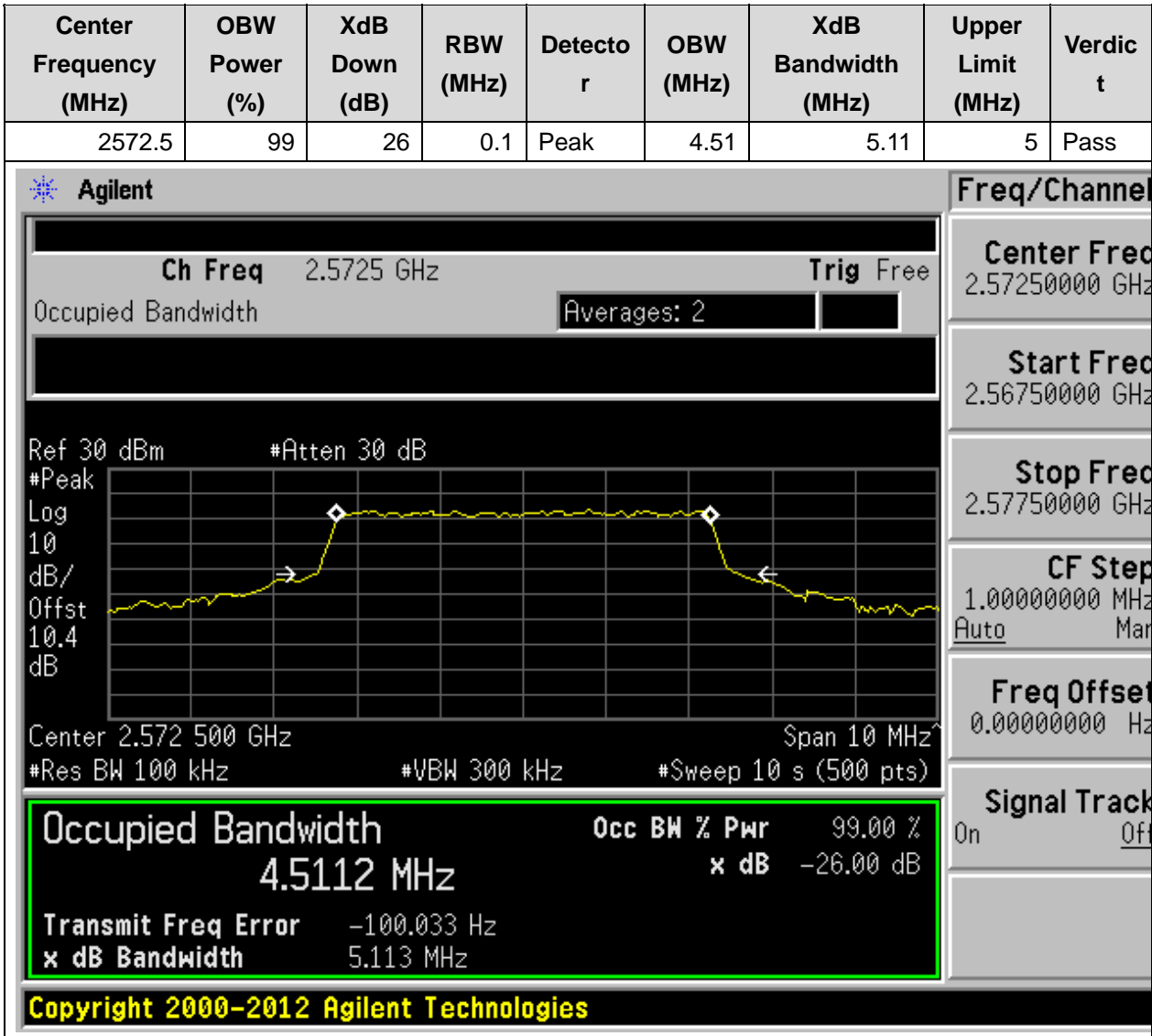


18. LTE_Band38

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



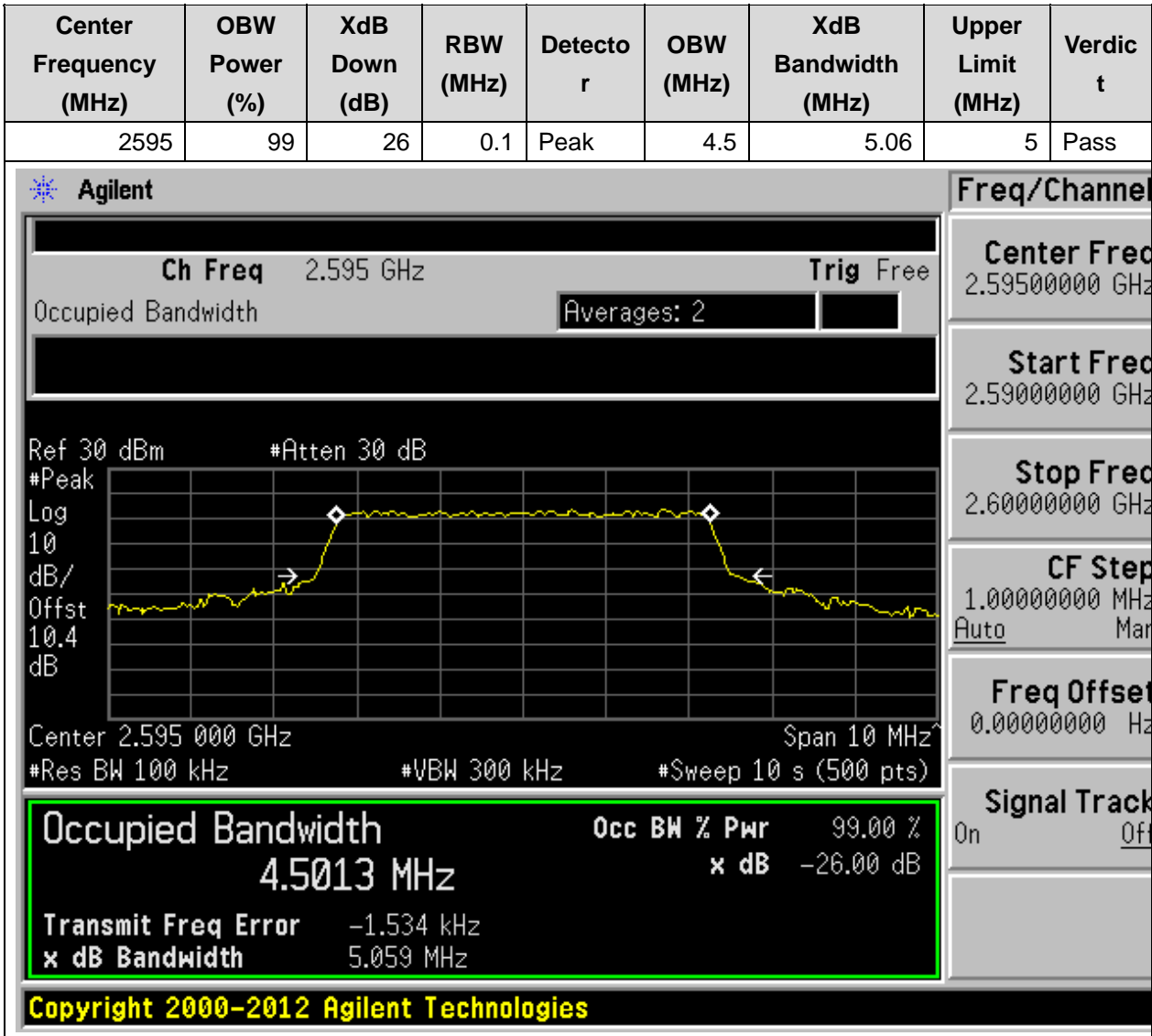
18.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:37775, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



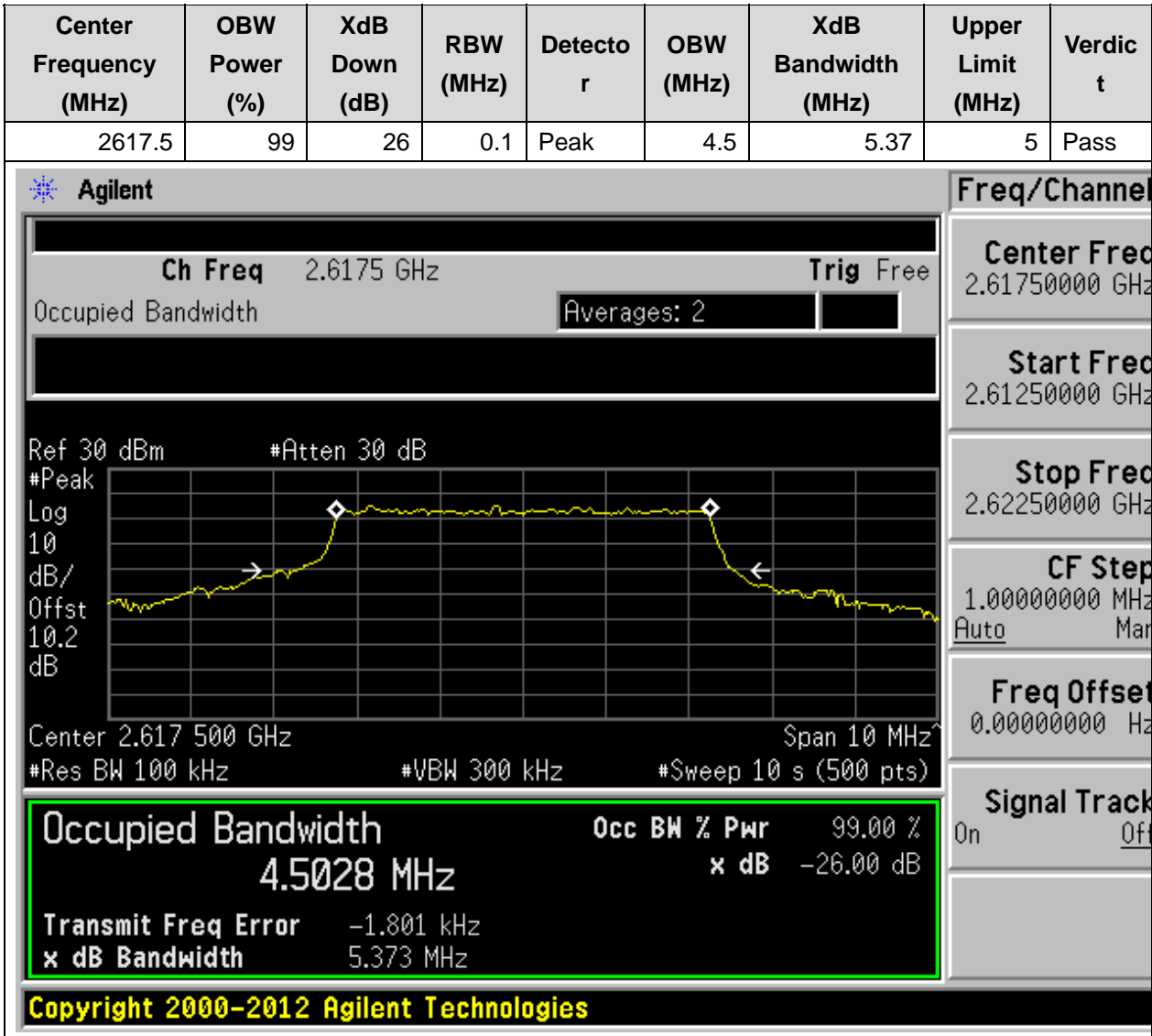
18.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:38000, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



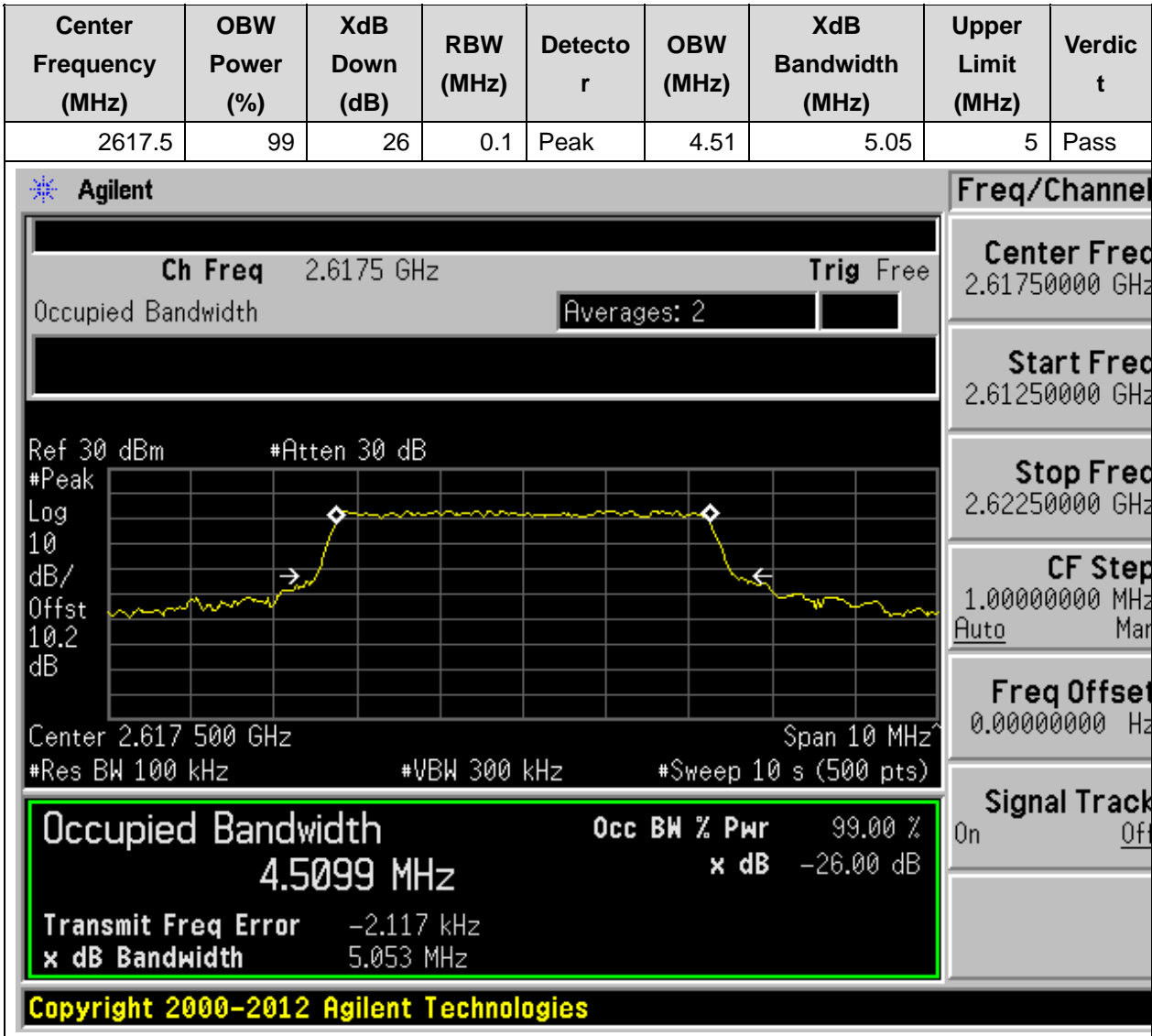
18.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:38000, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



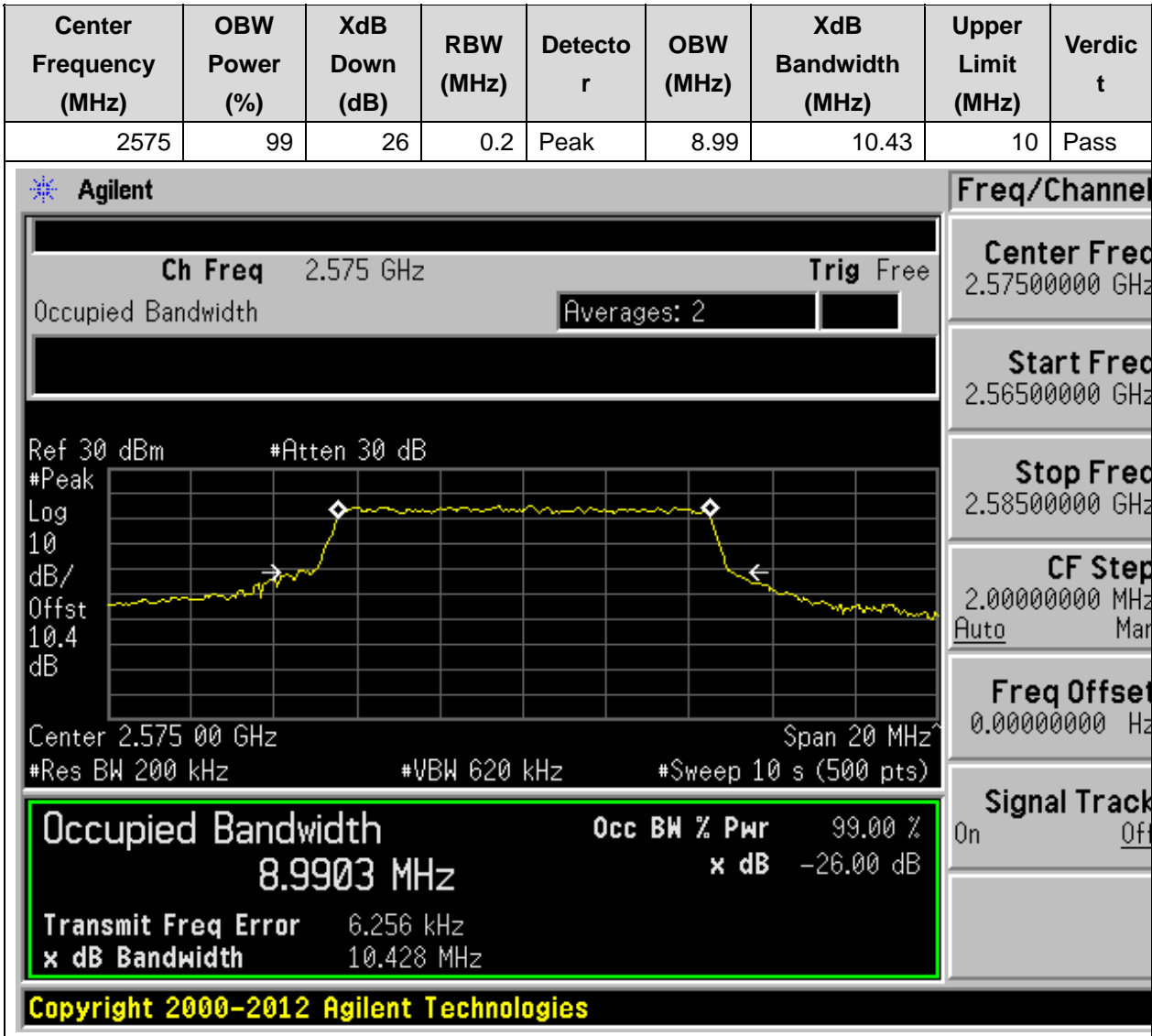
18.5. LTE Occupied Bandwidth(NTNV)(Subtest:5, Channel:38225, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



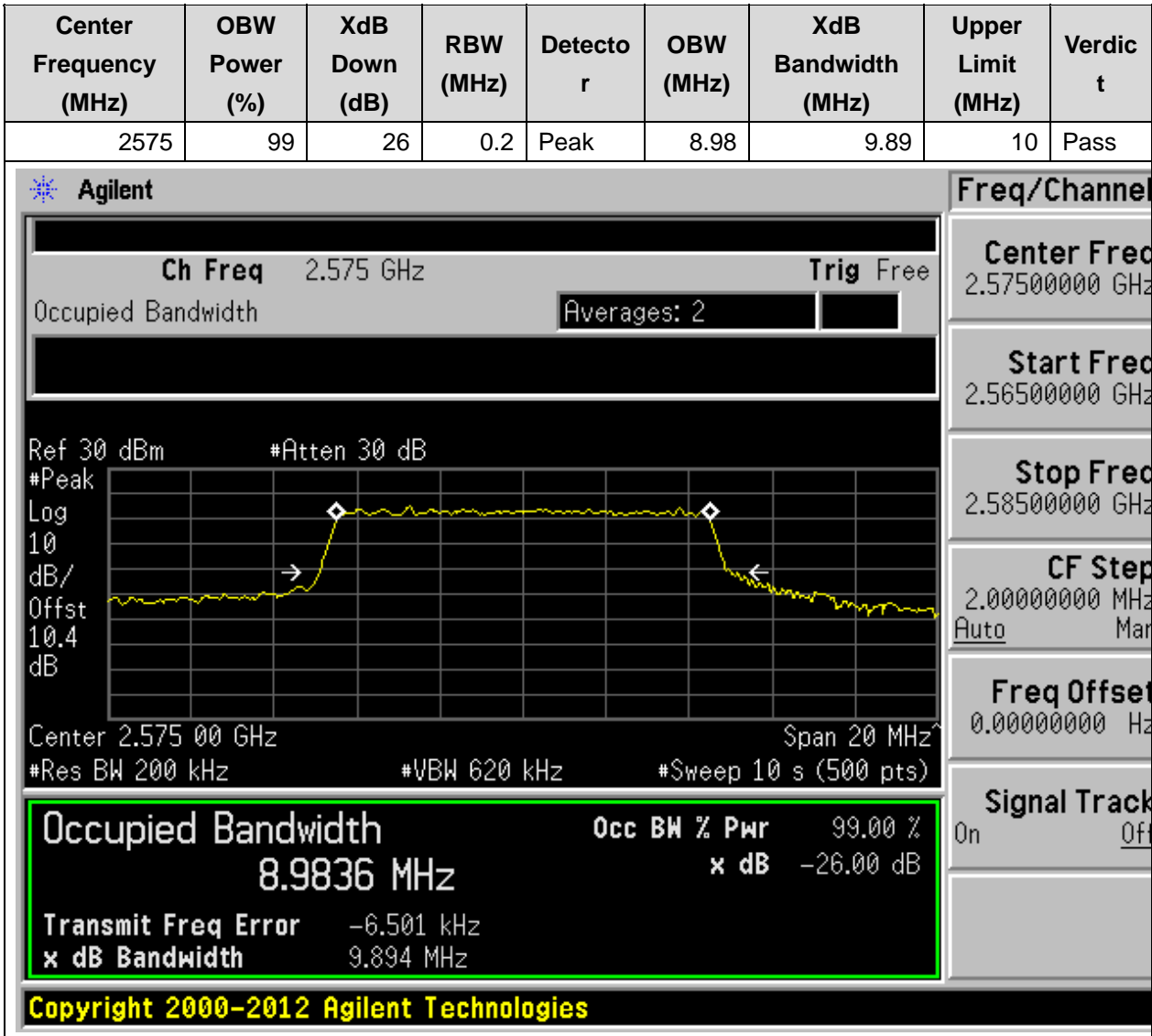
18.6. LTE Occupied Bandwidth(NTNV)(Subtest:6, Channel:38225, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



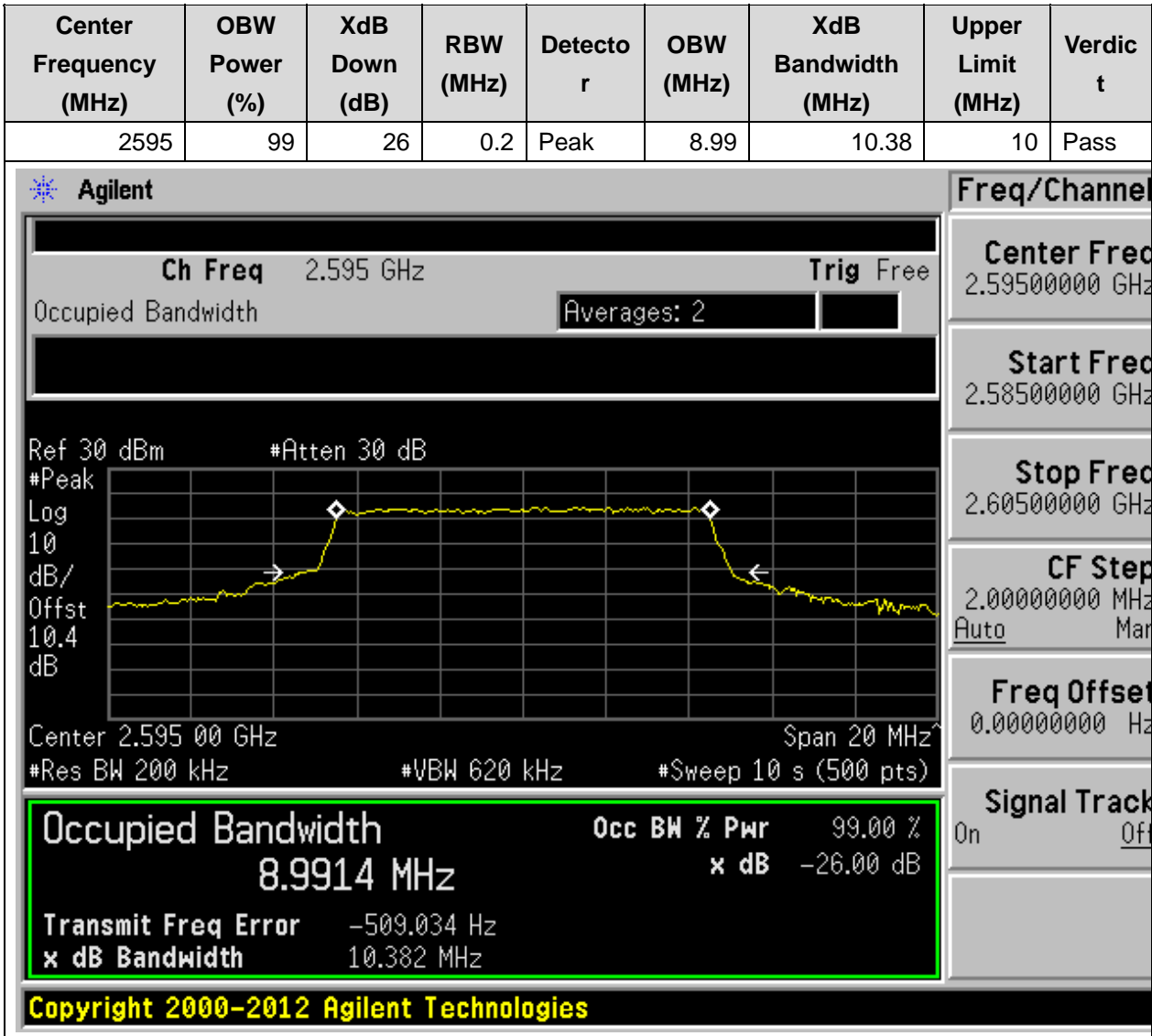
18.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:37800, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



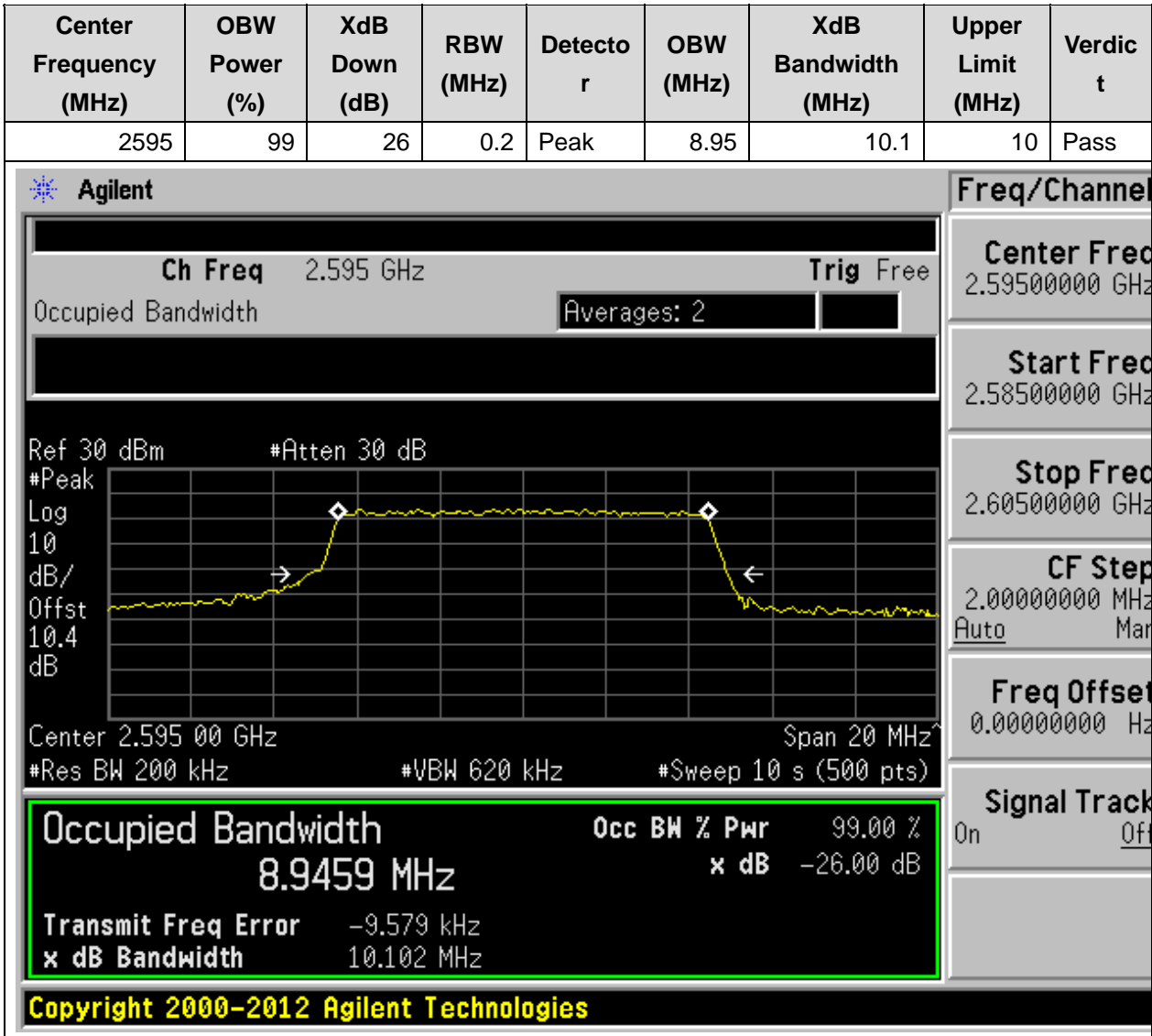
18.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:37800, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



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

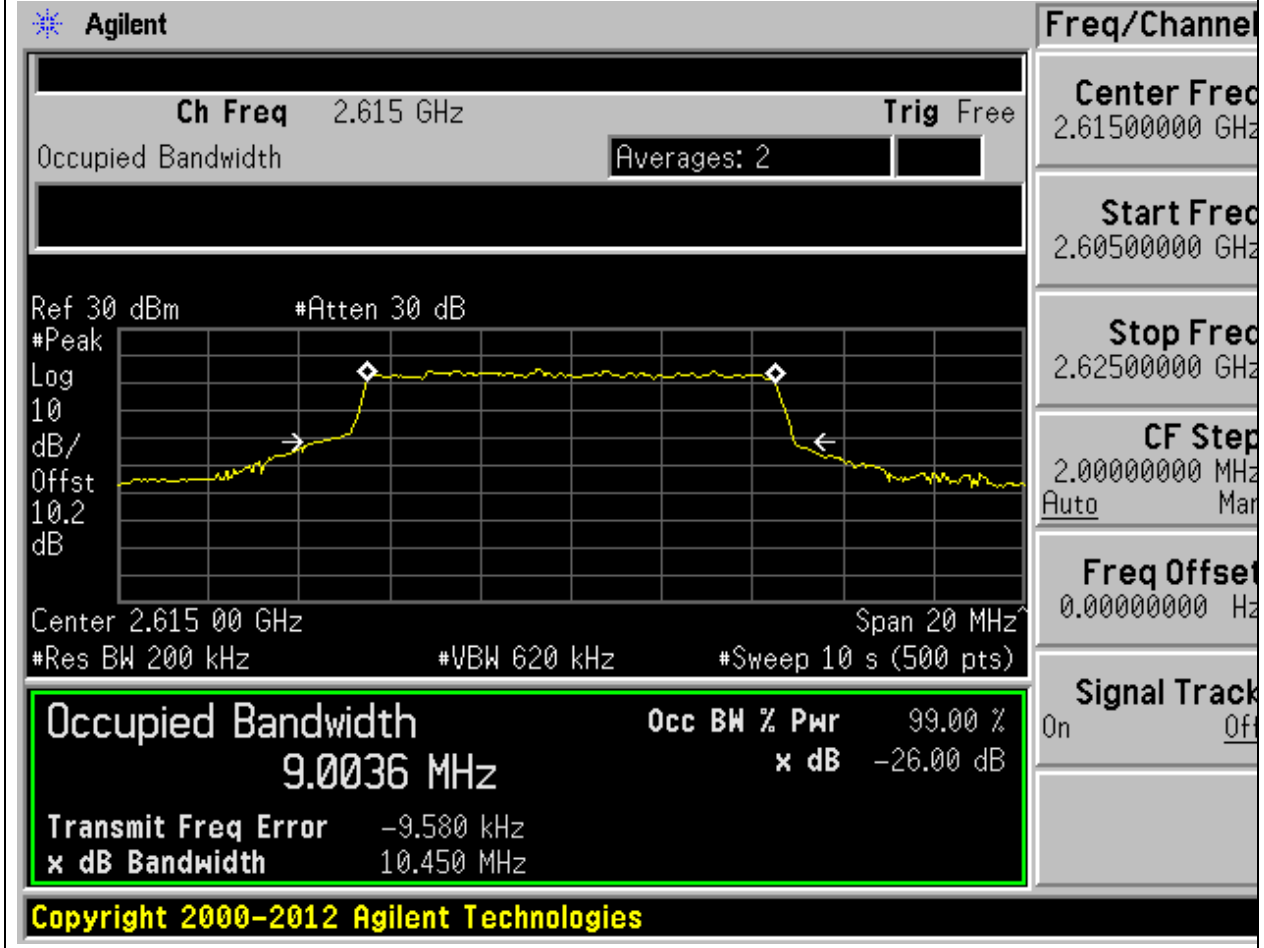


18.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:38000, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



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

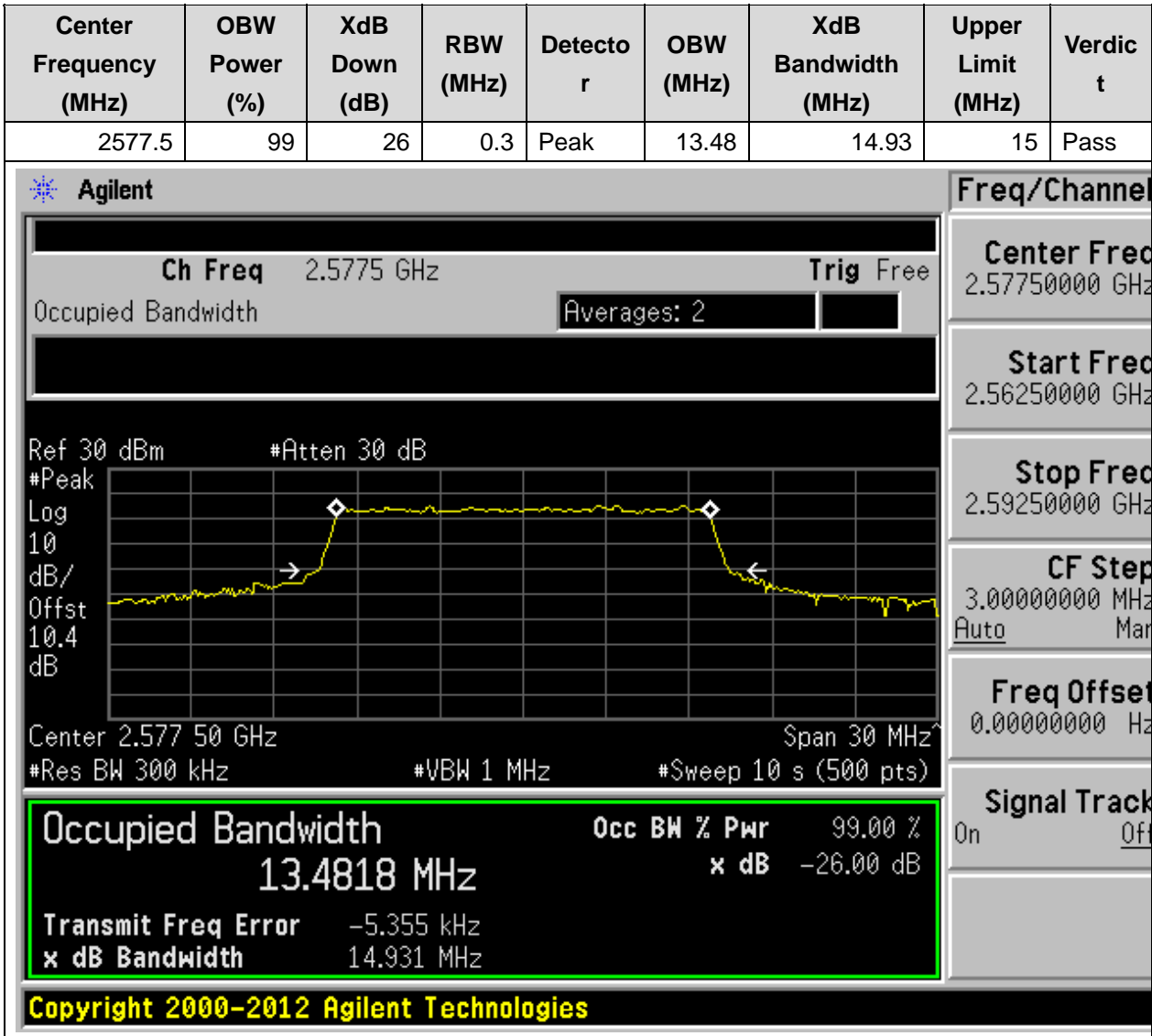
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2615	99	26	0.2	Peak	9	10.45	10	Pass



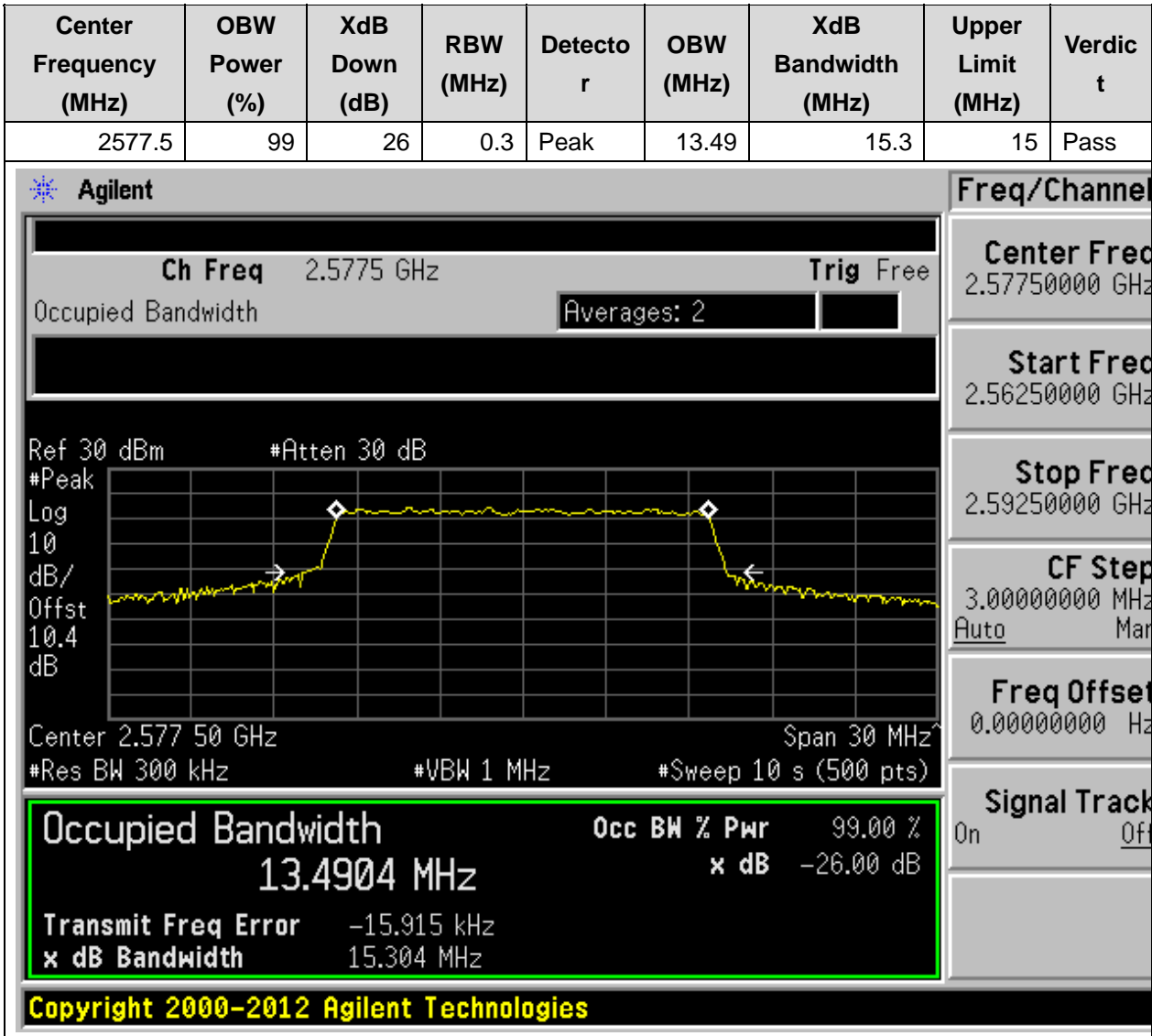
18.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:38200, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



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



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



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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.3	Peak	13.44	14.77	15	Pass

Occupied Bandwidth 13.4383 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 12.406 kHz
x dB Bandwidth 14.774 MHz

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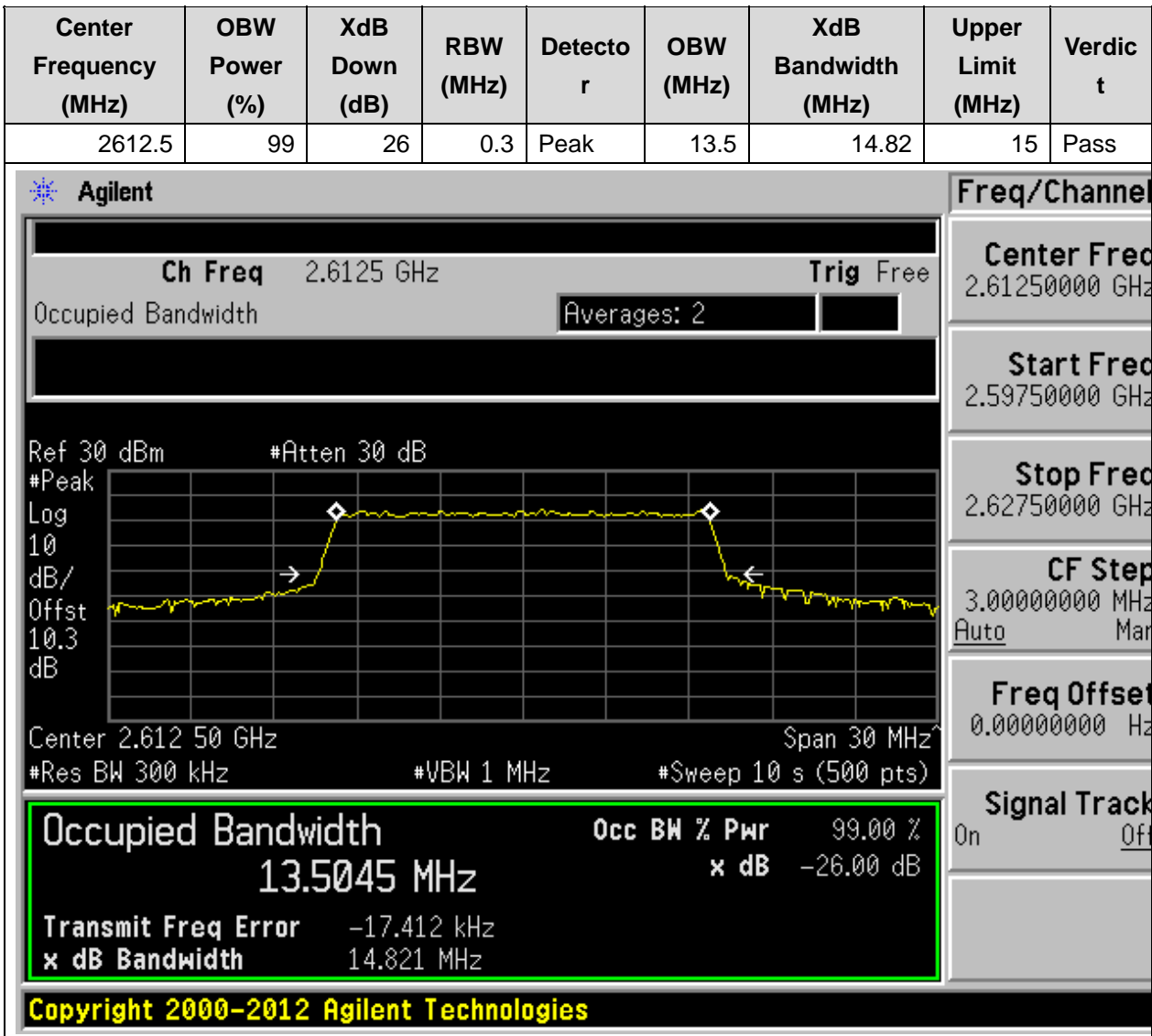
18.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:38000, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



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



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



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



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



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

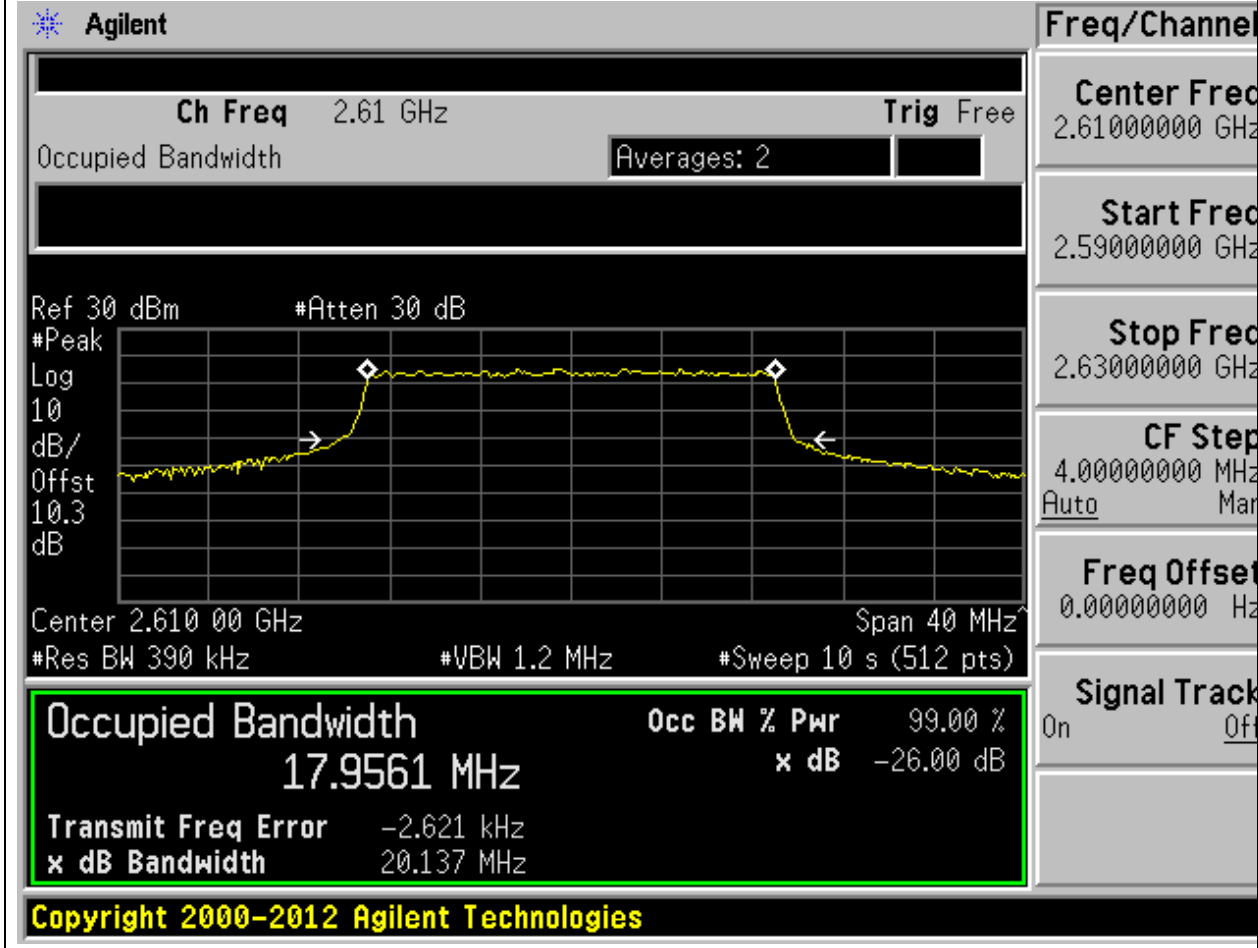


18.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:38000, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



18.23. 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	17.96	20.14	20	Pass

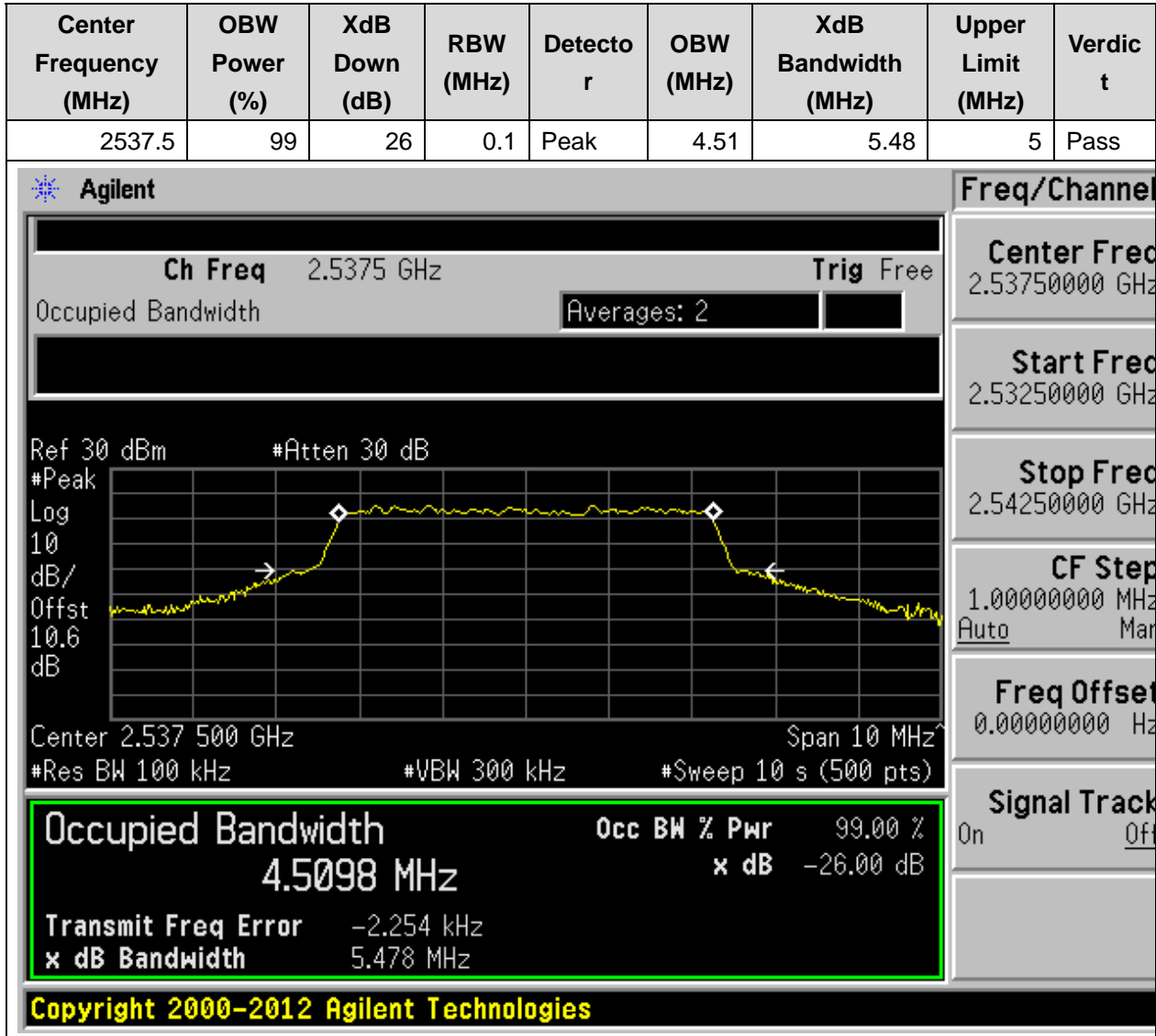


18.24. LTE Occupied Bandwidth(NTNV)(Subtest:24, Channel:38150, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

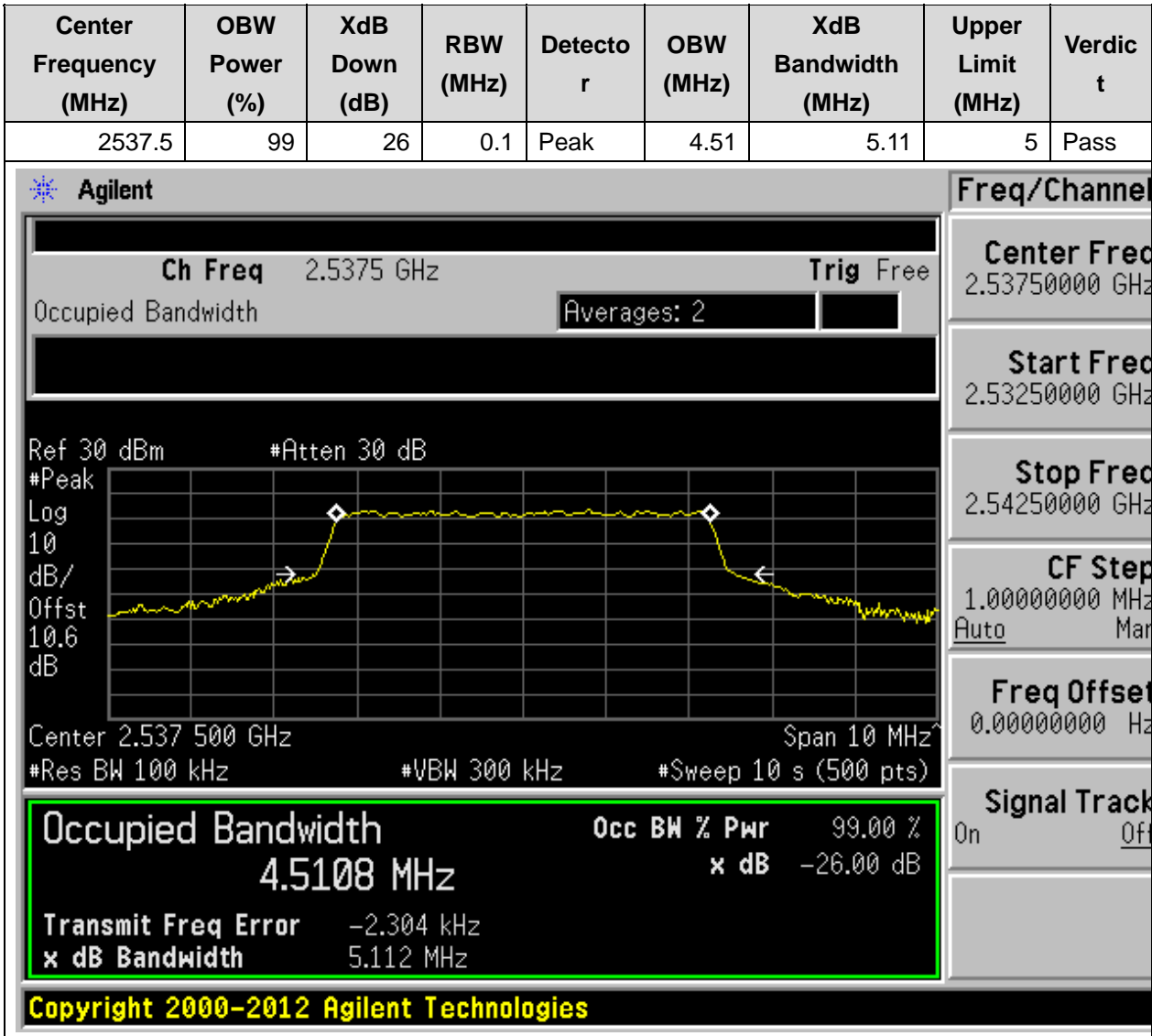


19. LTE_Band41 120M

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



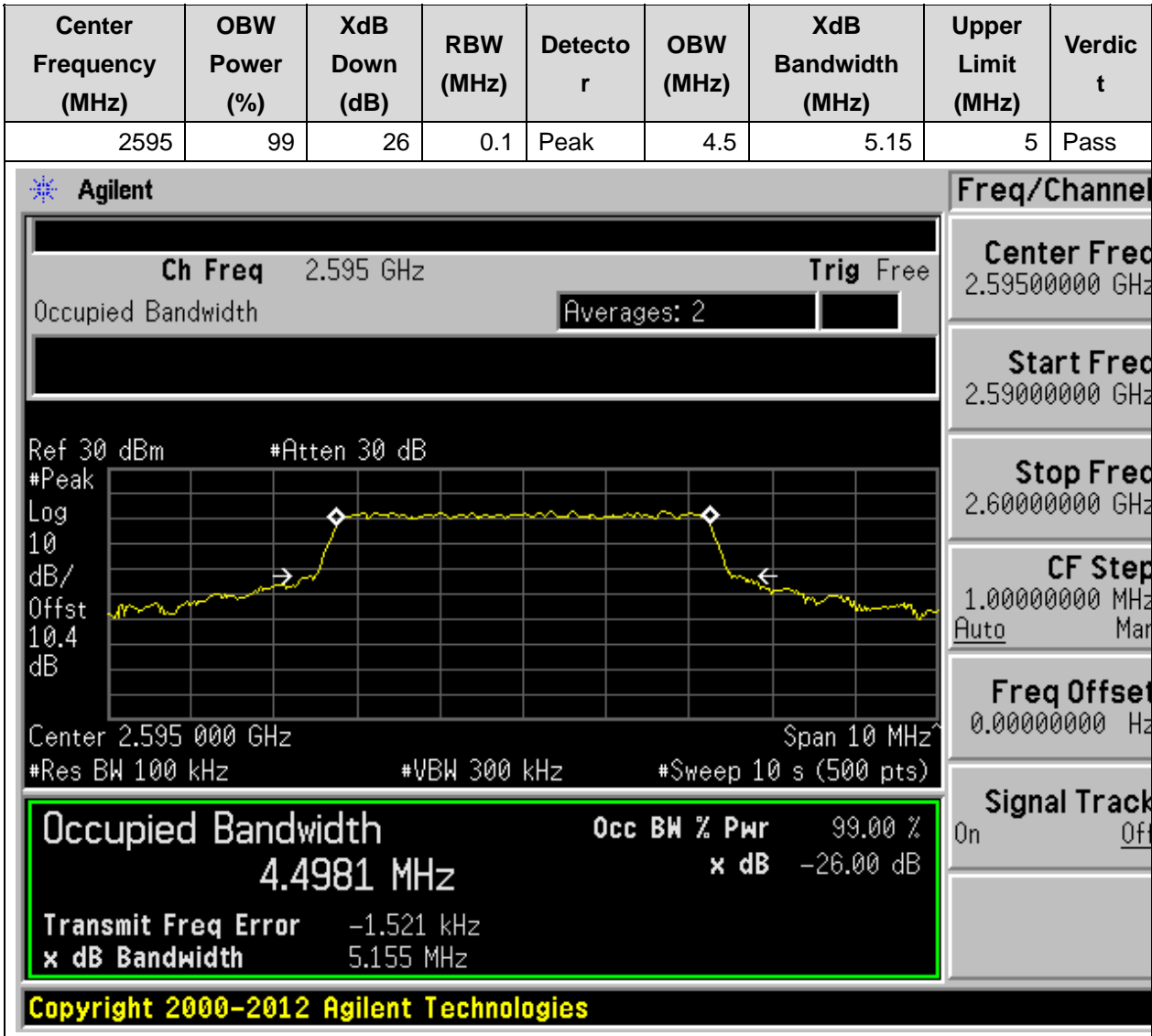
19.2. LTE Occupied Bandwidth(NTNV)(Subtest:2, Channel:40065, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



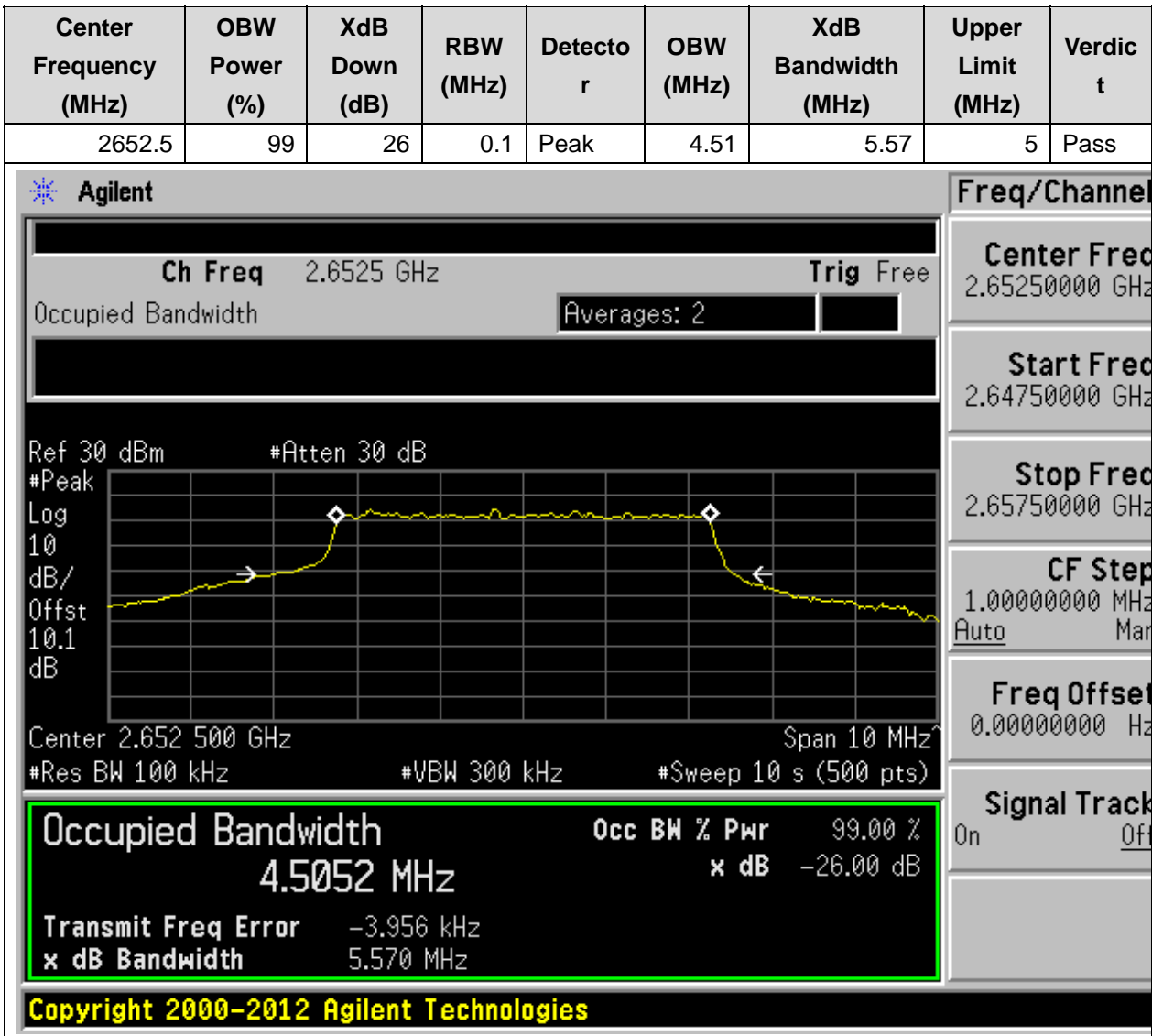
19.3. LTE Occupied Bandwidth(NTNV)(Subtest:3, Channel:40640, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



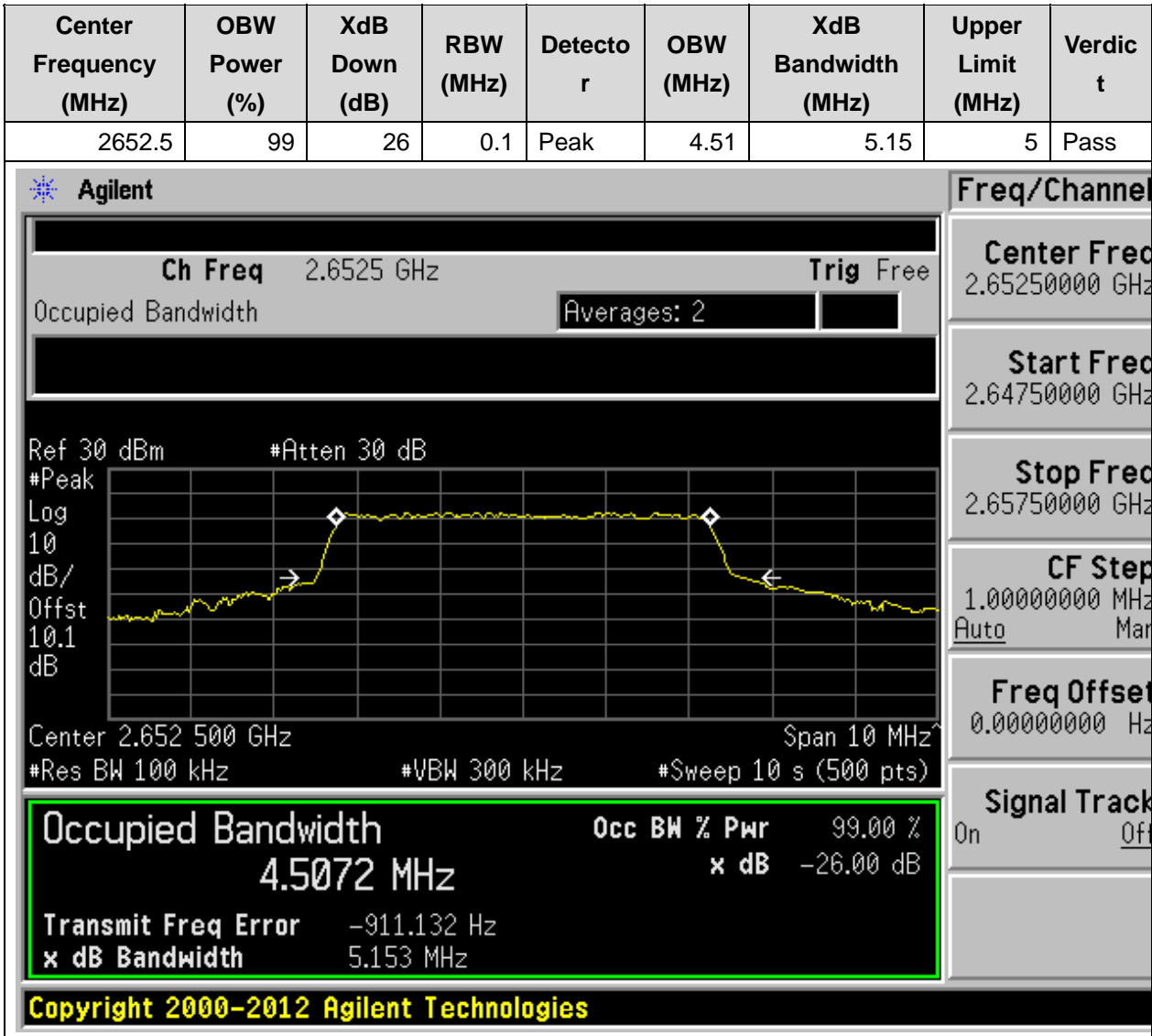
19.4. LTE Occupied Bandwidth(NTNV)(Subtest:4, Channel:40640, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



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



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



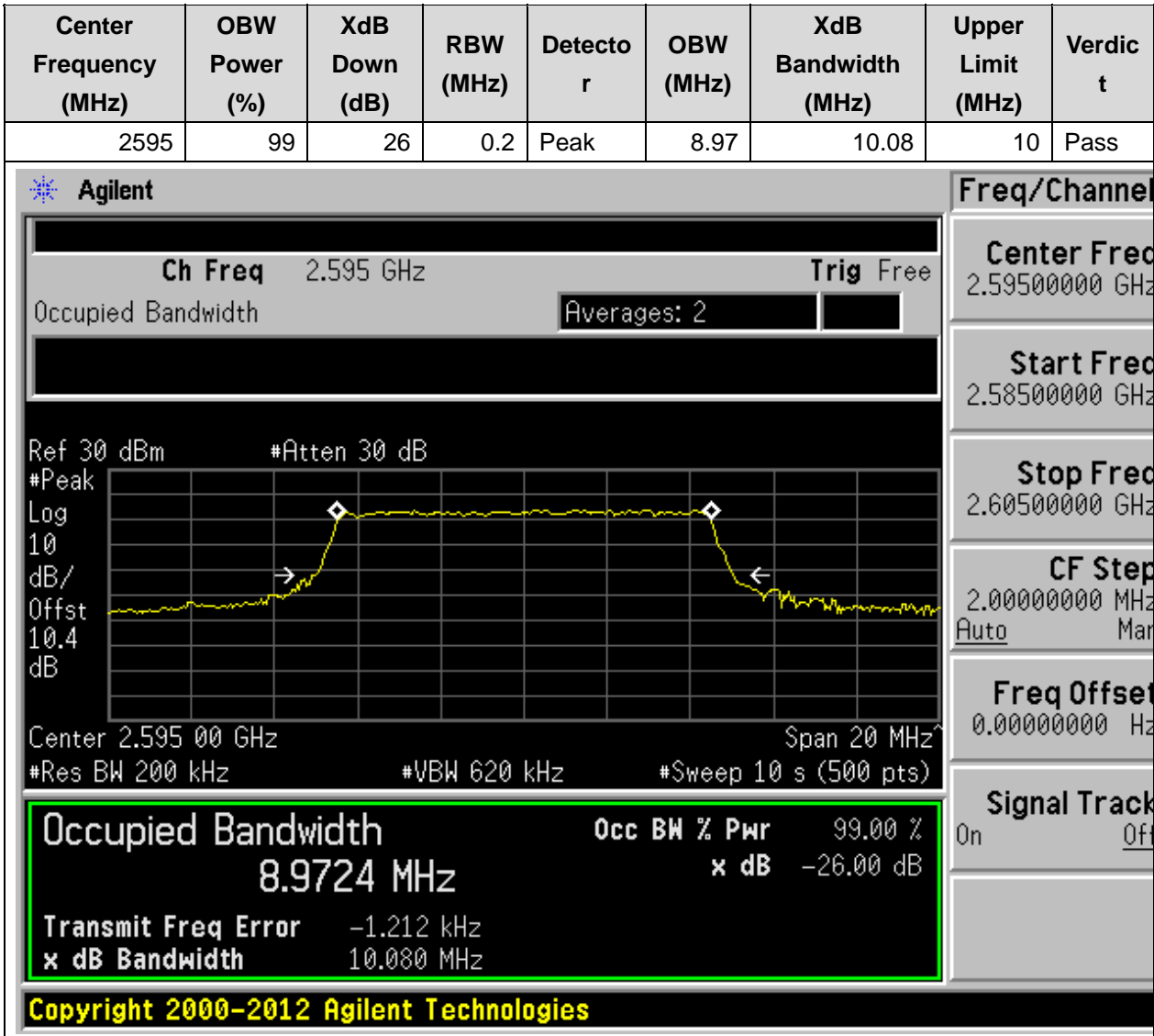
19.7. LTE Occupied Bandwidth(NTNV)(Subtest:7, Channel:40090, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



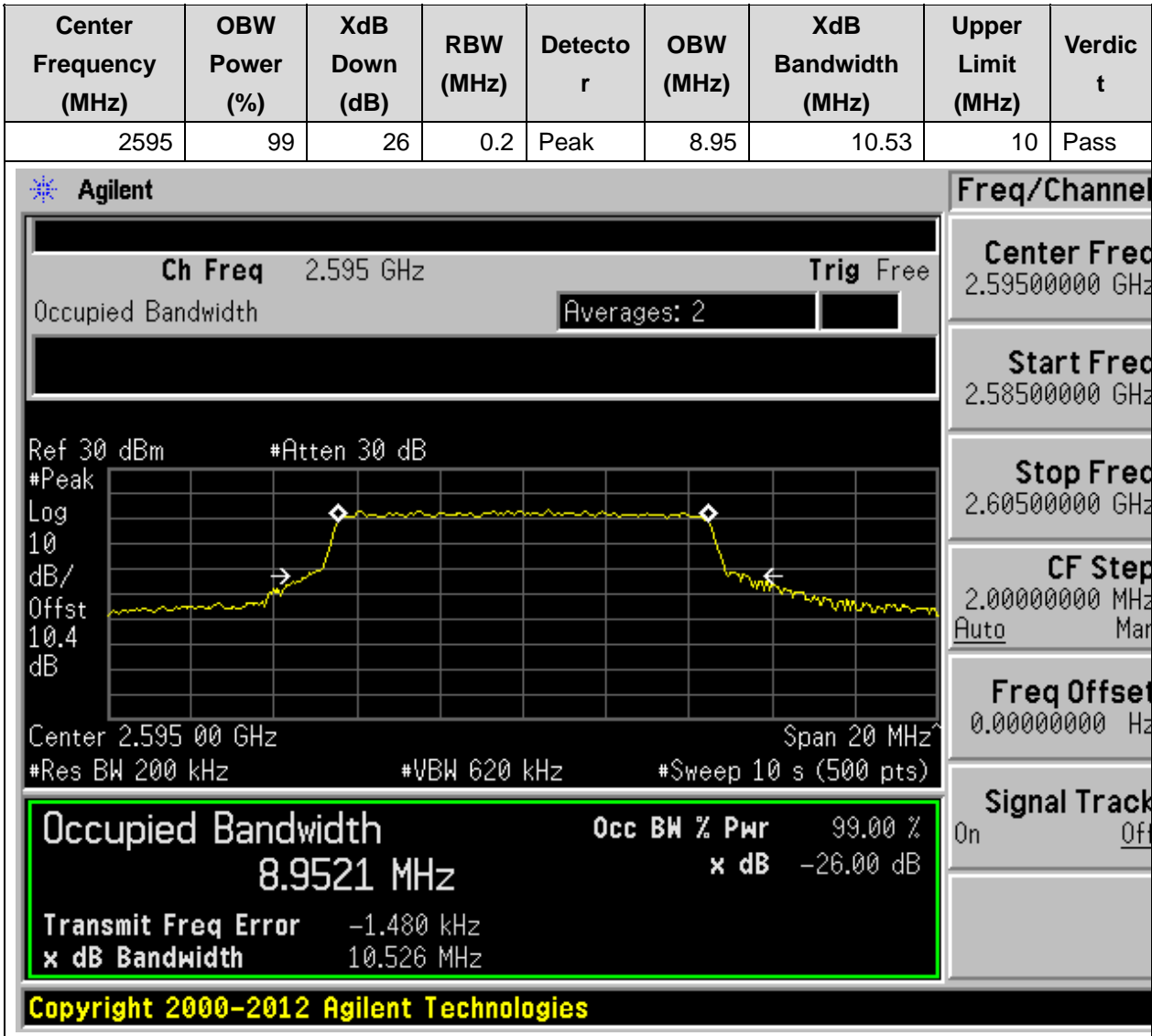
19.8. LTE Occupied Bandwidth(NTNV)(Subtest:8, Channel:40090, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



19.9. LTE Occupied Bandwidth(NTNV)(Subtest:9, Channel:40640, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

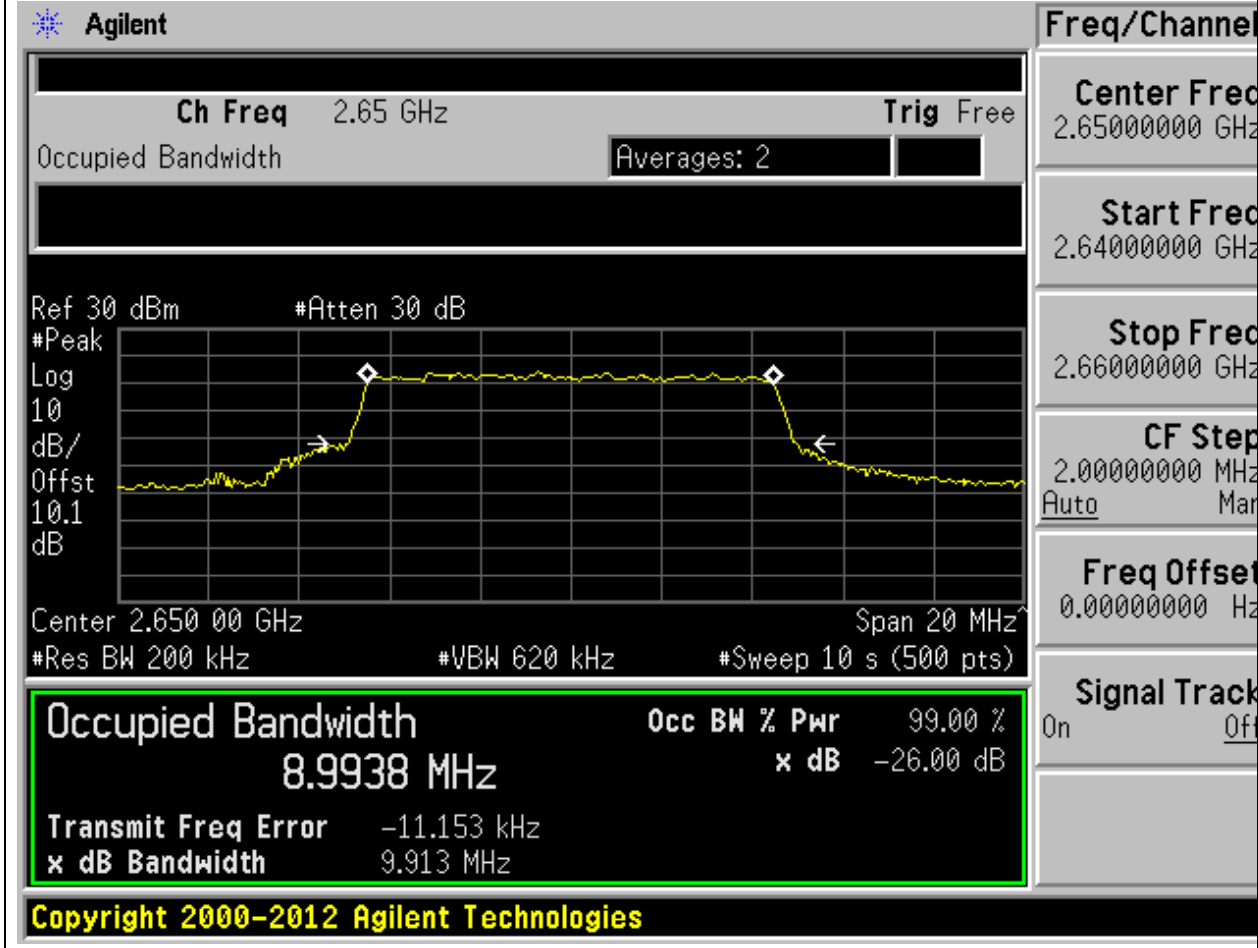


19.10. LTE Occupied Bandwidth(NTNV)(Subtest:10, Channel:40640, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

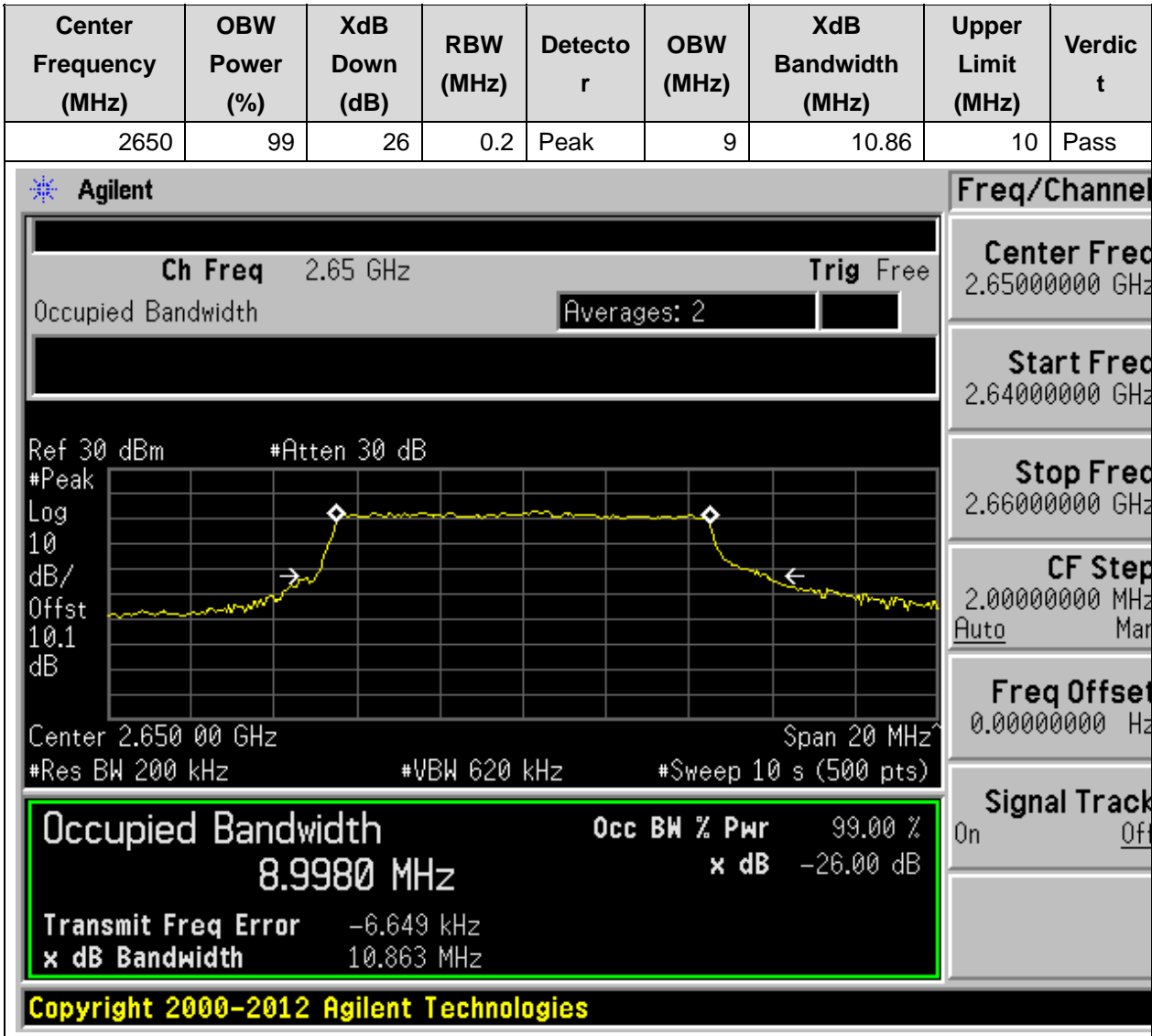


19.11. LTE Occupied Bandwidth(NTNV)(Subtest:11, Channel:41190, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

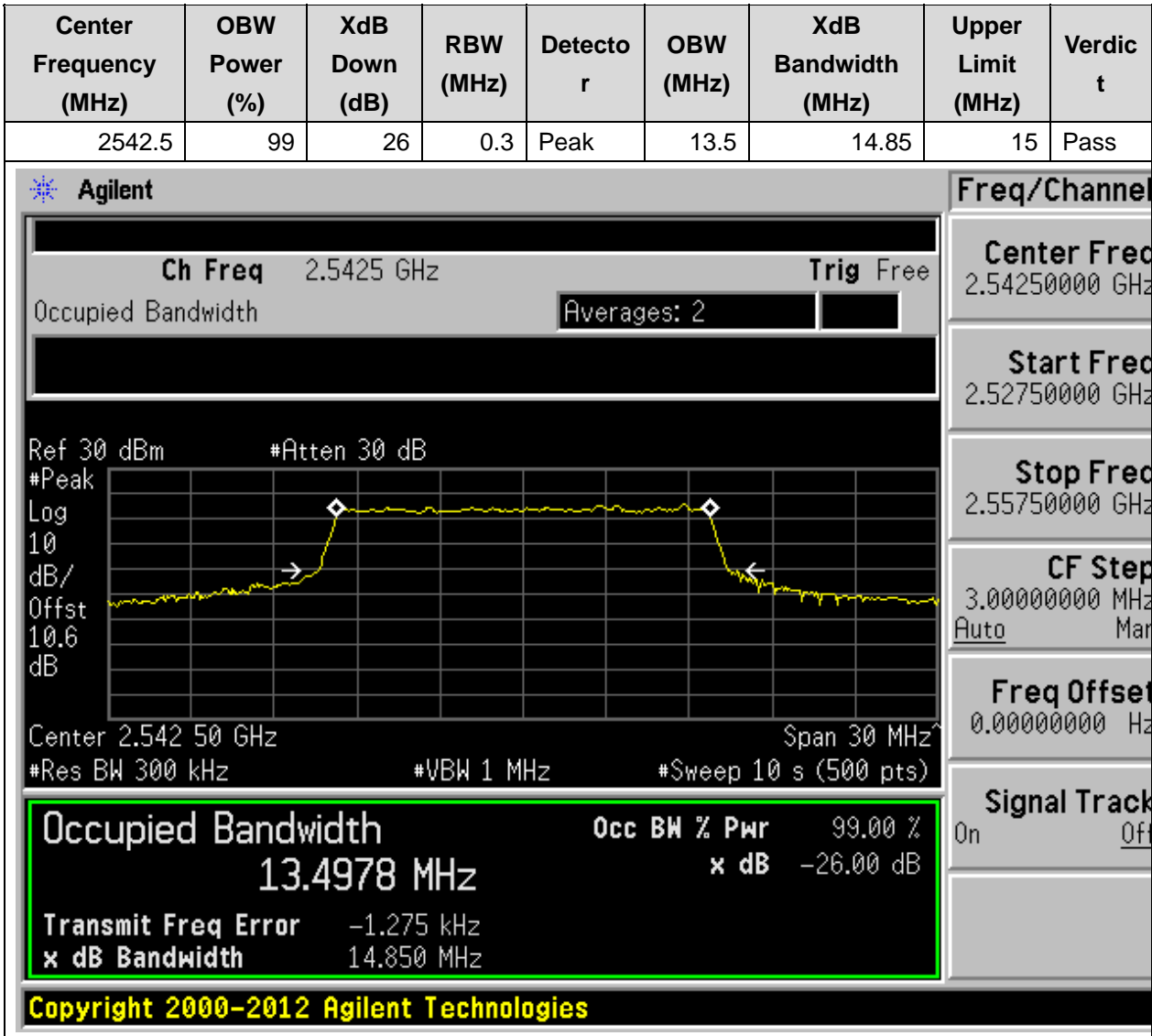
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2650	99	26	0.2	Peak	8.99	9.91	10	Pass



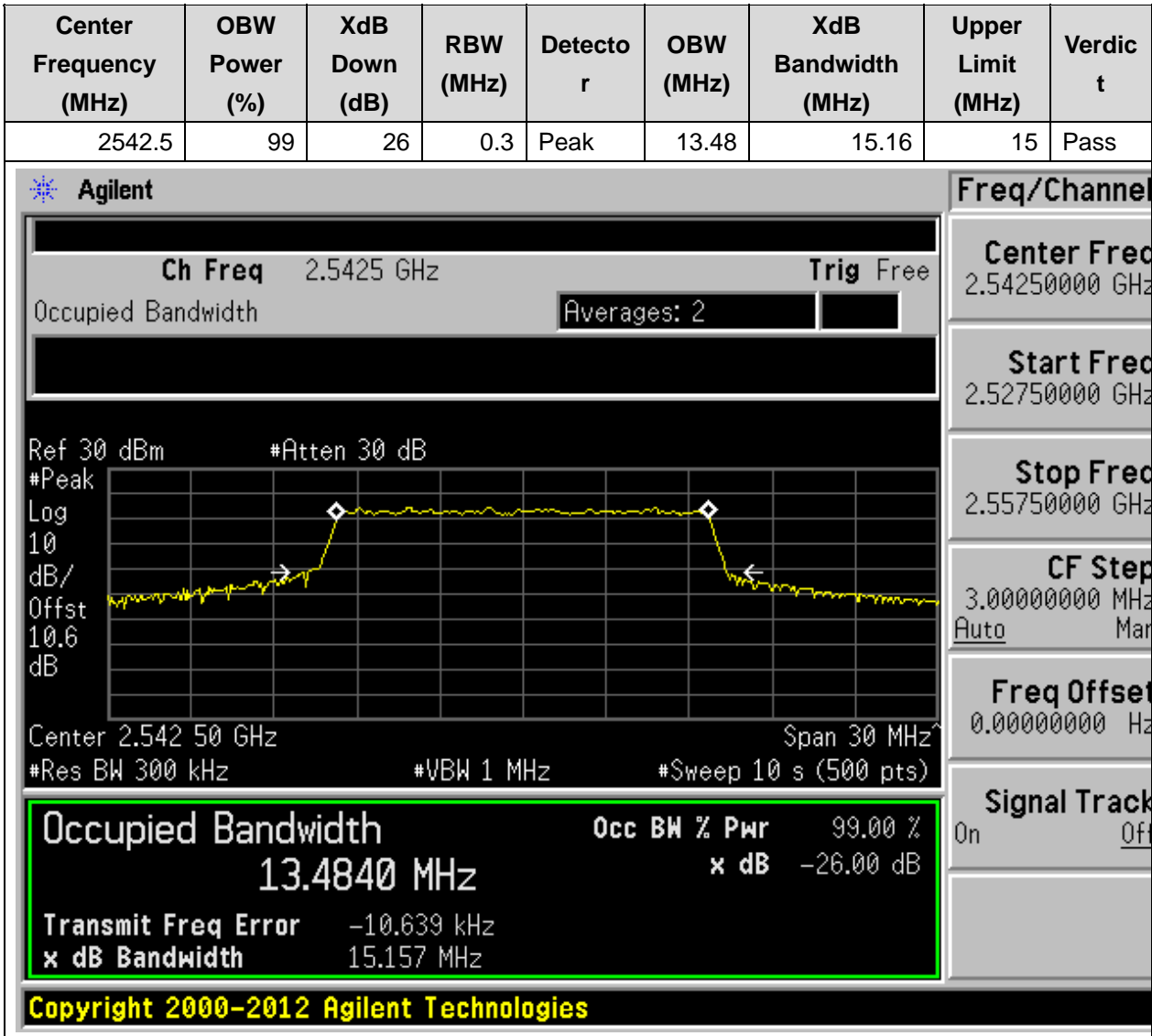
19.12. LTE Occupied Bandwidth(NTNV)(Subtest:12, Channel:41190, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



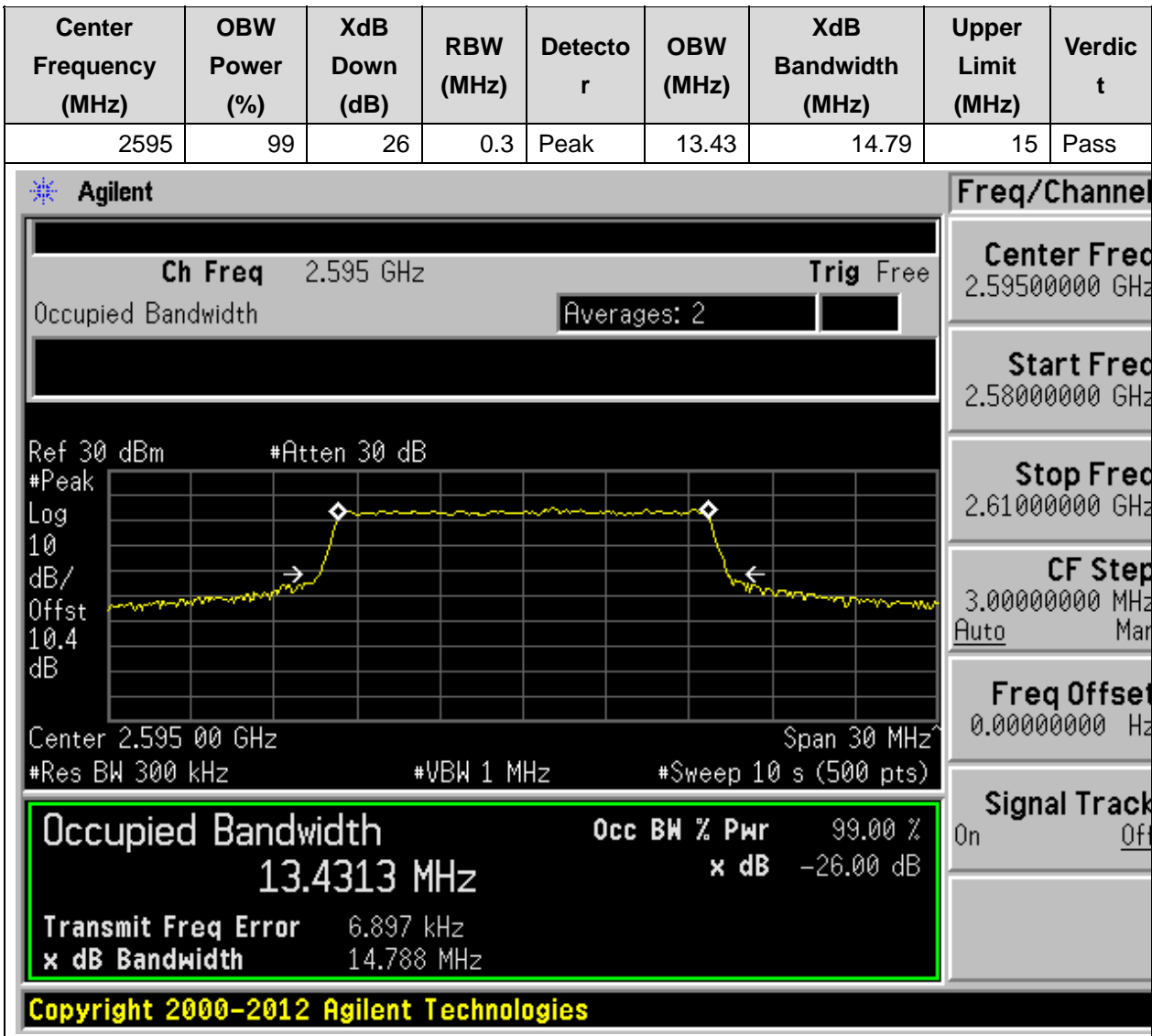
19.13. LTE Occupied Bandwidth(NTNV)(Subtest:13, Channel:40115, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)



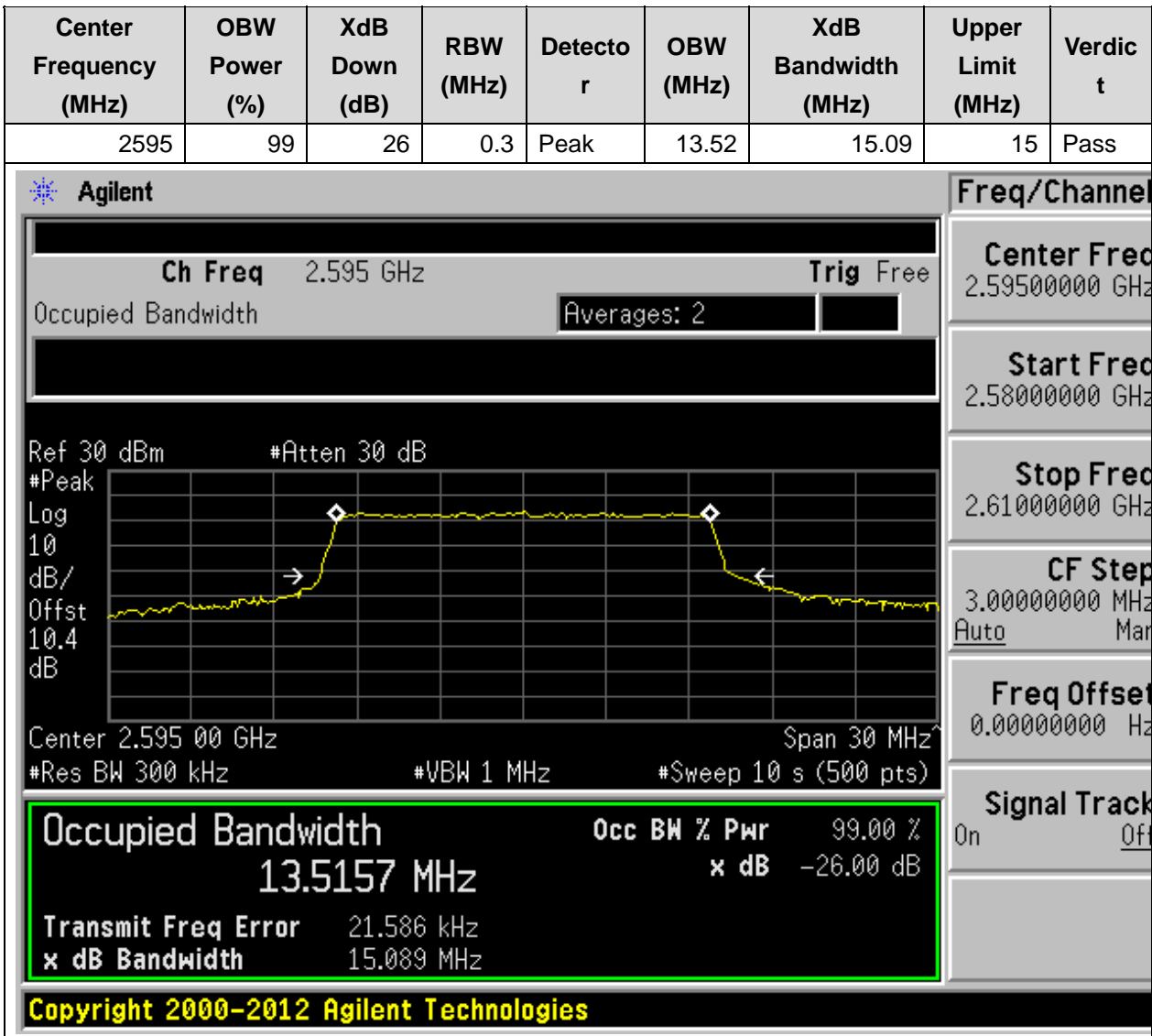
19.14. LTE Occupied Bandwidth(NTNV)(Subtest:14, Channel:40115, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



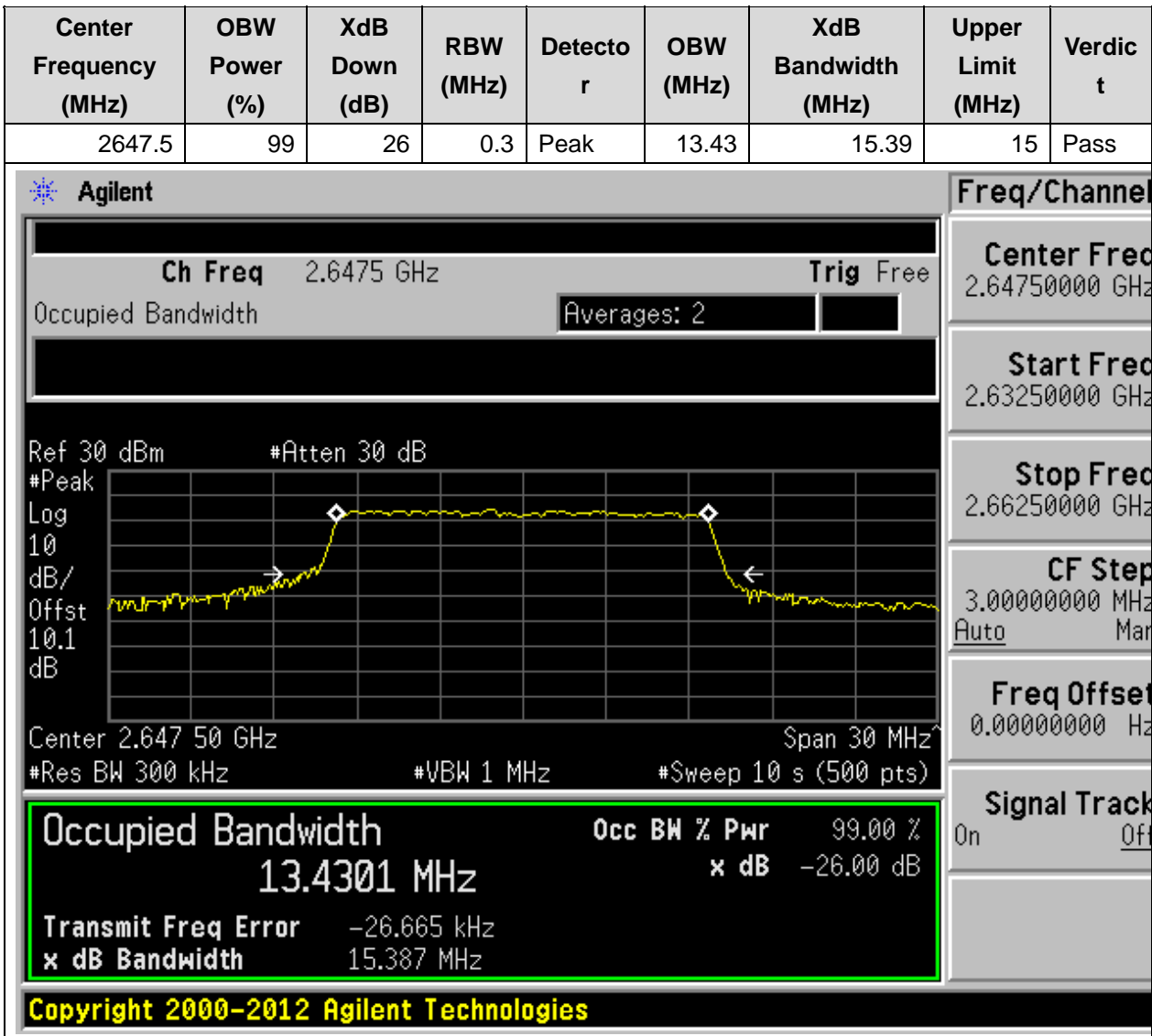
19.15. LTE Occupied Bandwidth(NTNV)(Subtest:15, Channel:40640, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)



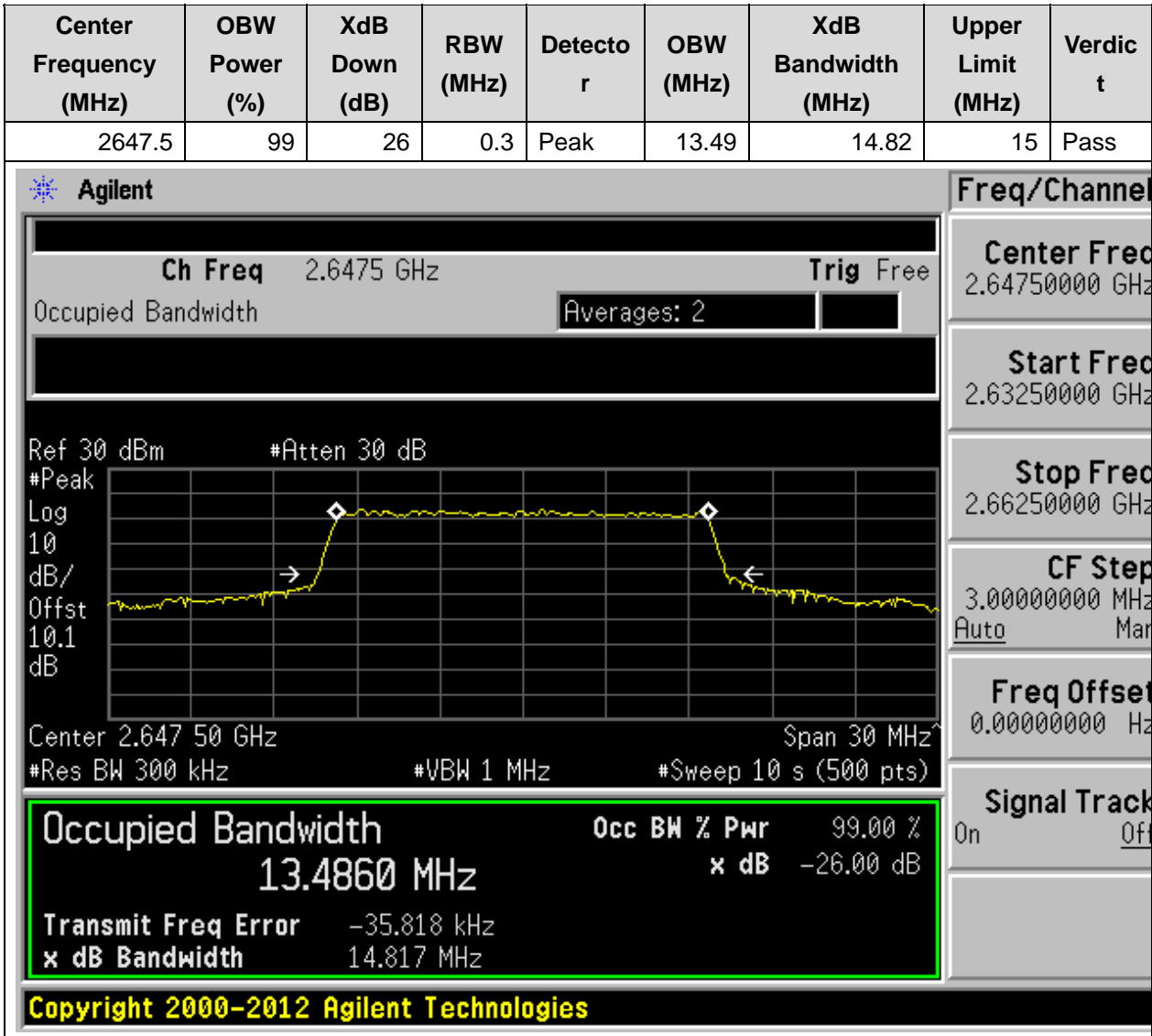
19.16. LTE Occupied Bandwidth(NTNV)(Subtest:16, Channel:40640, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



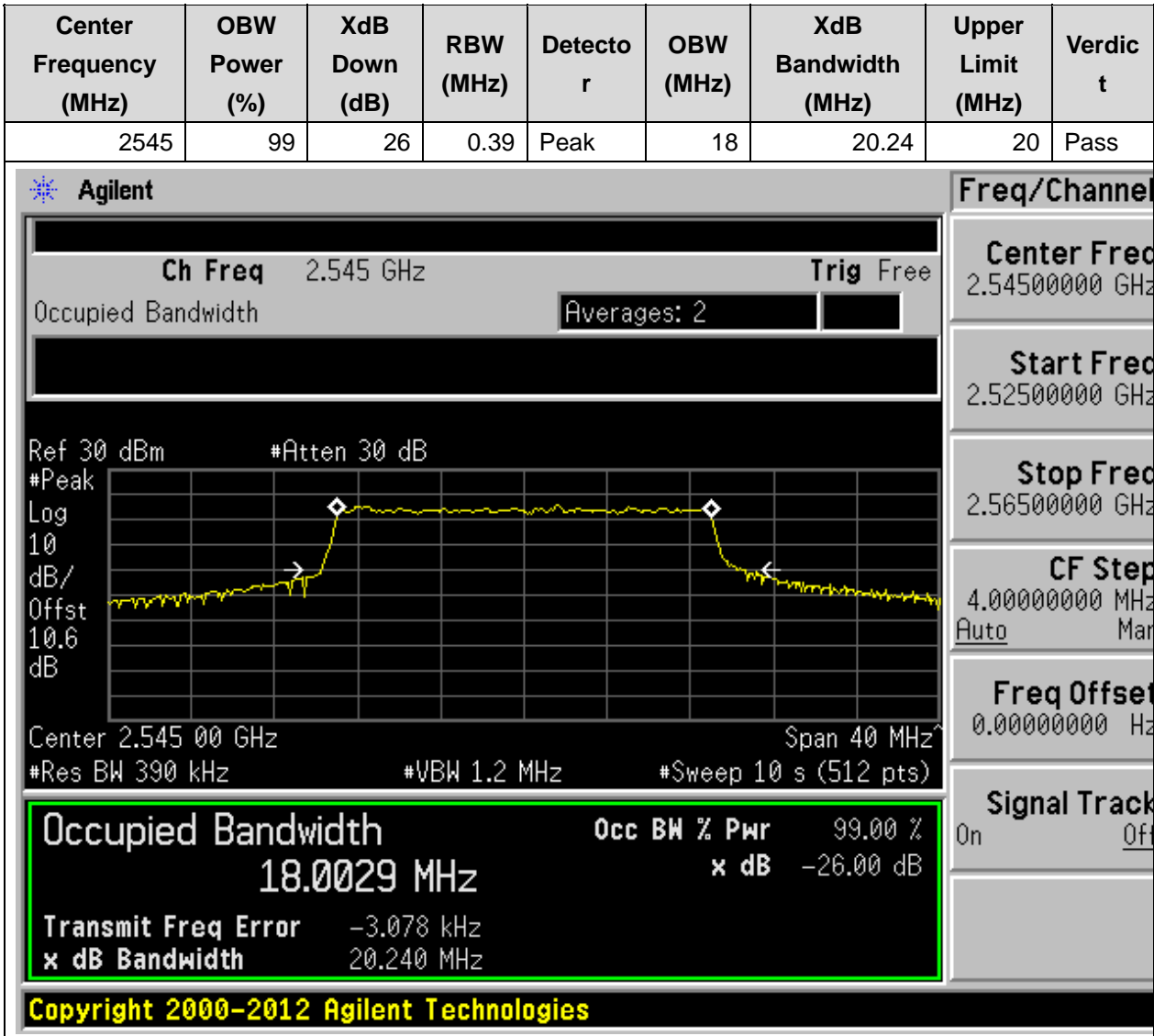
19.17. LTE Occupied Bandwidth(NTNV)(Subtest:17, Channel:41165, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)



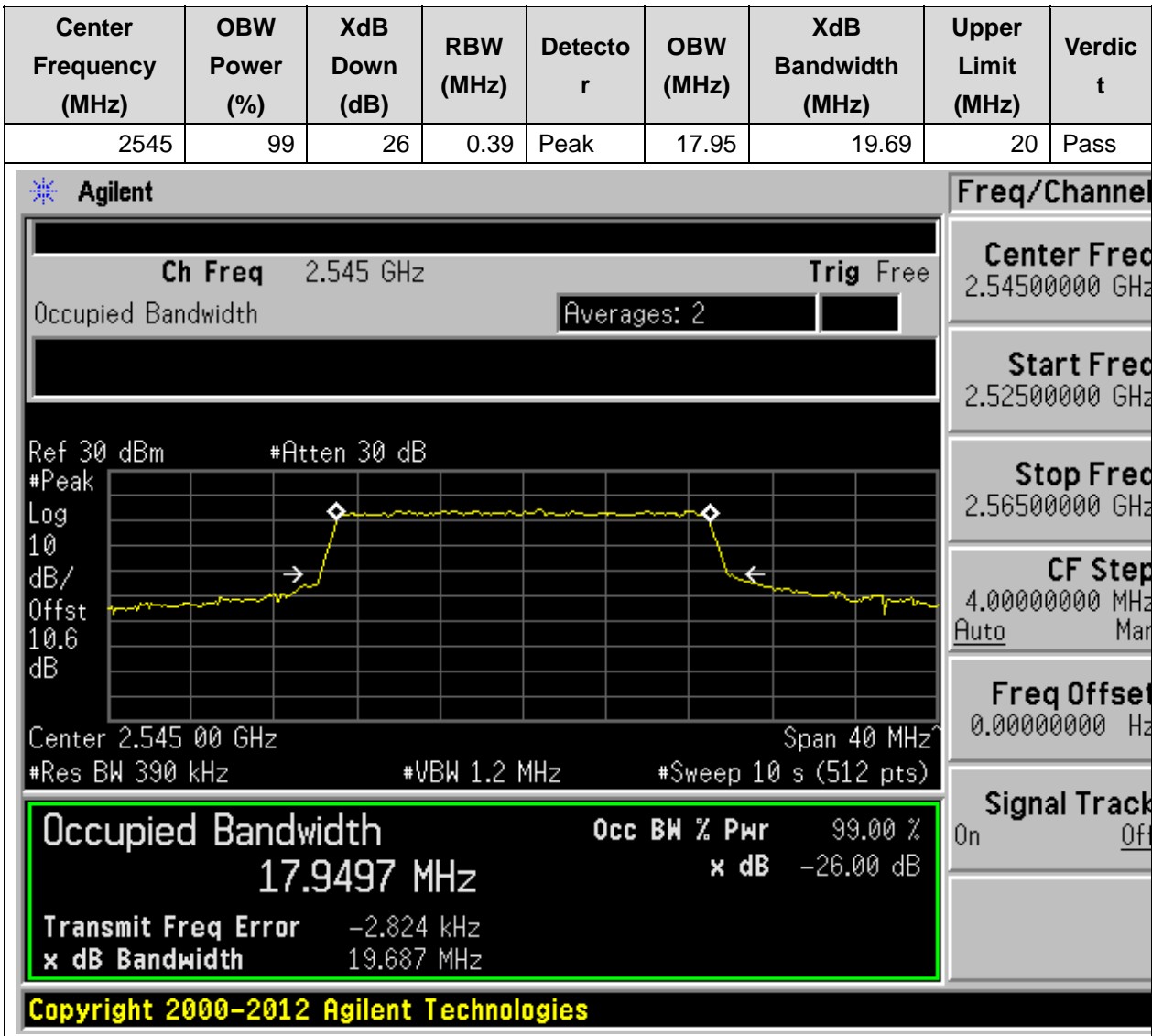
19.18. LTE Occupied Bandwidth(NTNV)(Subtest:18, Channel:41165, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



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



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



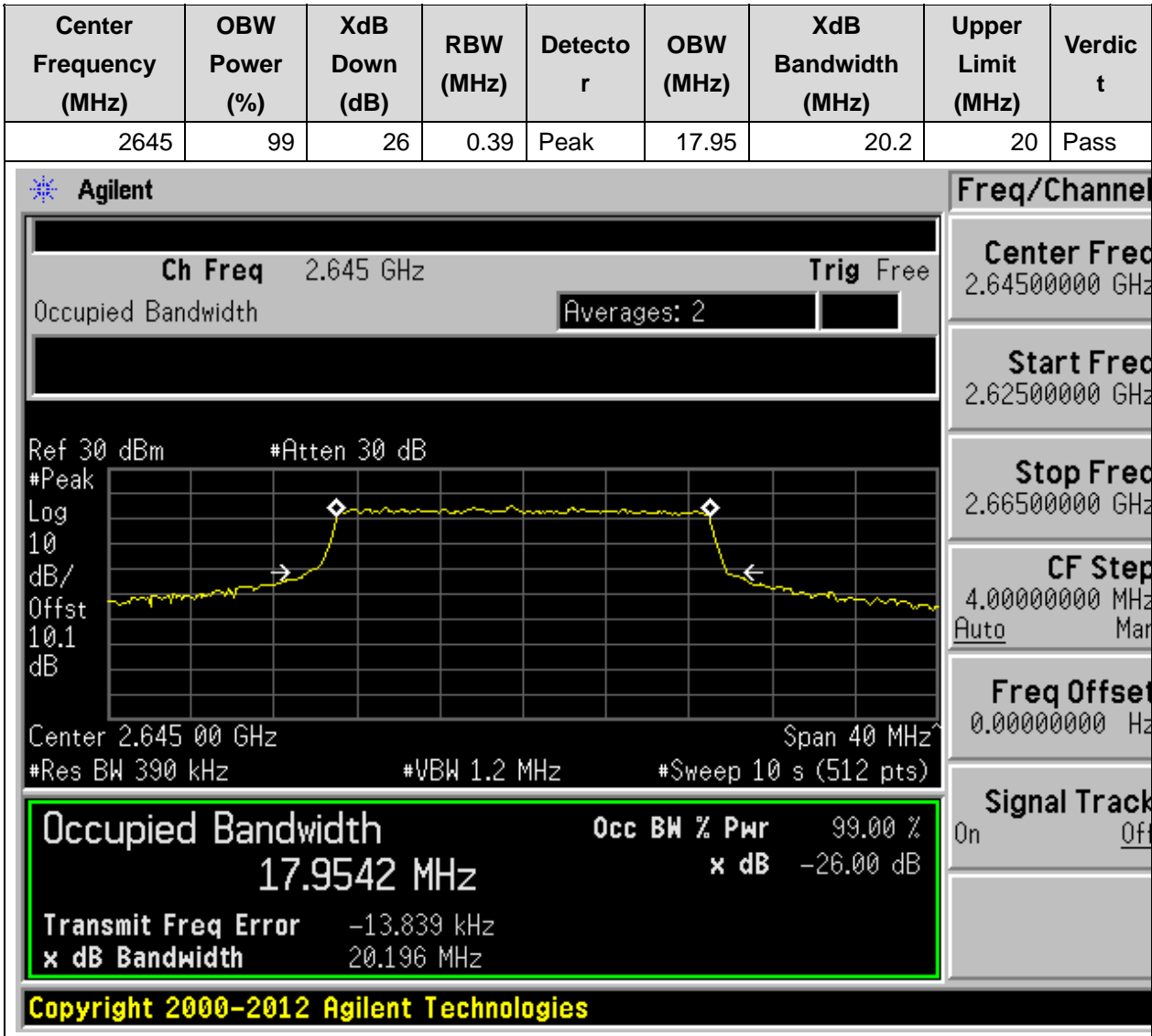
19.21. LTE Occupied Bandwidth(NTNV)(Subtest:21, Channel:40640, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



19.22. LTE Occupied Bandwidth(NTNV)(Subtest:22, Channel:40640, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)



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



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



END