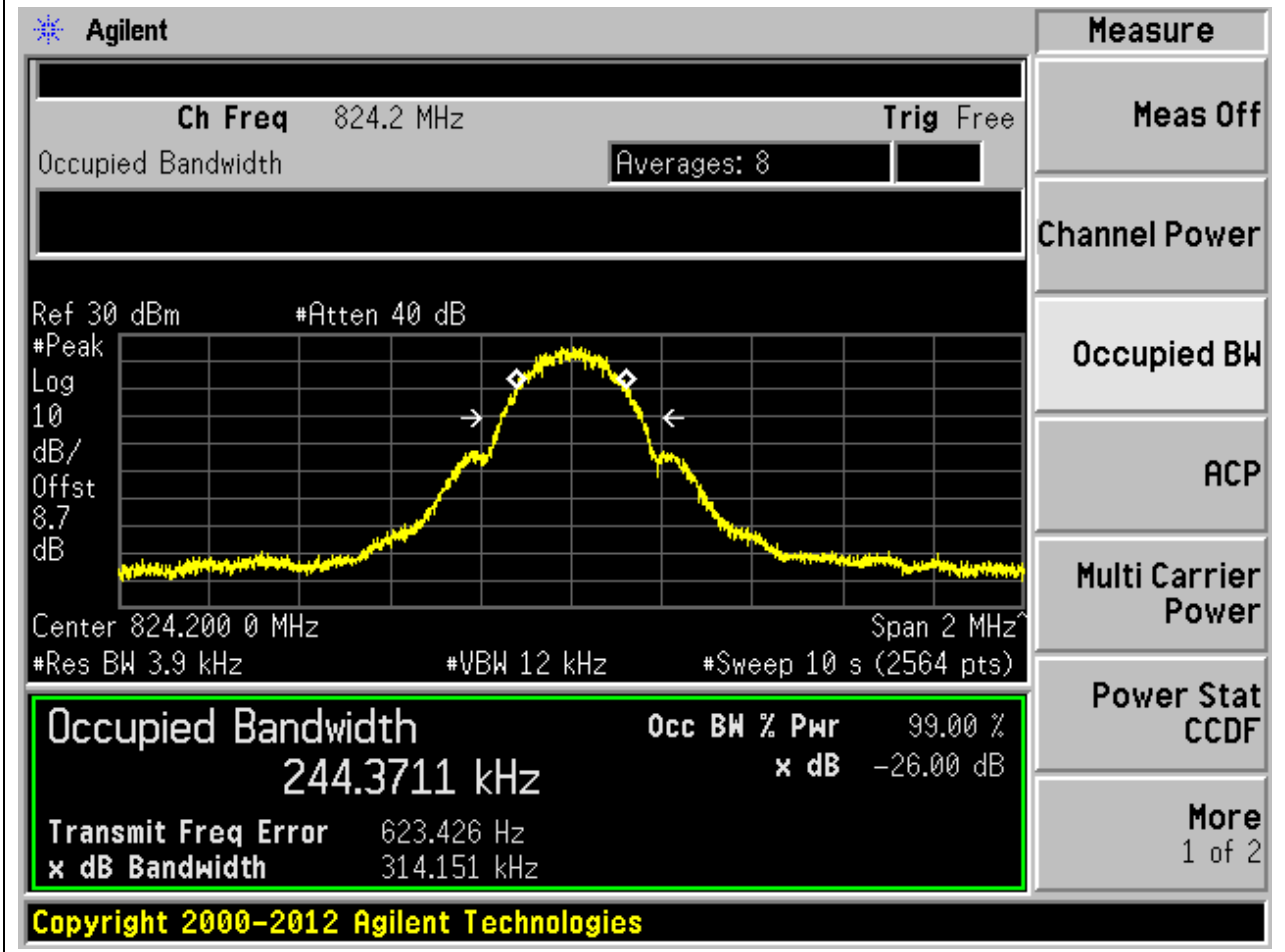


Annex C. Occupied Bandwidth

1. GPRS_GSM850

1.1. GPRS 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 | 0.244 | 0.314 | 0.3 | Pass |



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

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 836.6 | 99 | 26 | 0.004 | Peak | 0.244 | 0.314 | 0.3 | Pass |

Agilent

Ch Freq 836.6 MHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

#Peak Log 10 dB/ Offst 8.73 dB

Center 836.600 0 MHz Span 2 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

243.5350 kHz x dB -26.00 dB

Transmit Freq Error -399.825 Hz

x dB Bandwidth 313.975 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

1.3. GPRS 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 | 0.245 | 0.308 | 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 8.76 dB

Center 848.800 MHz Span 2 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

244.7149 kHz x dB -26.00 dB

Transmit Freq Error 1.018 kHz

x dB Bandwidth 307.843 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

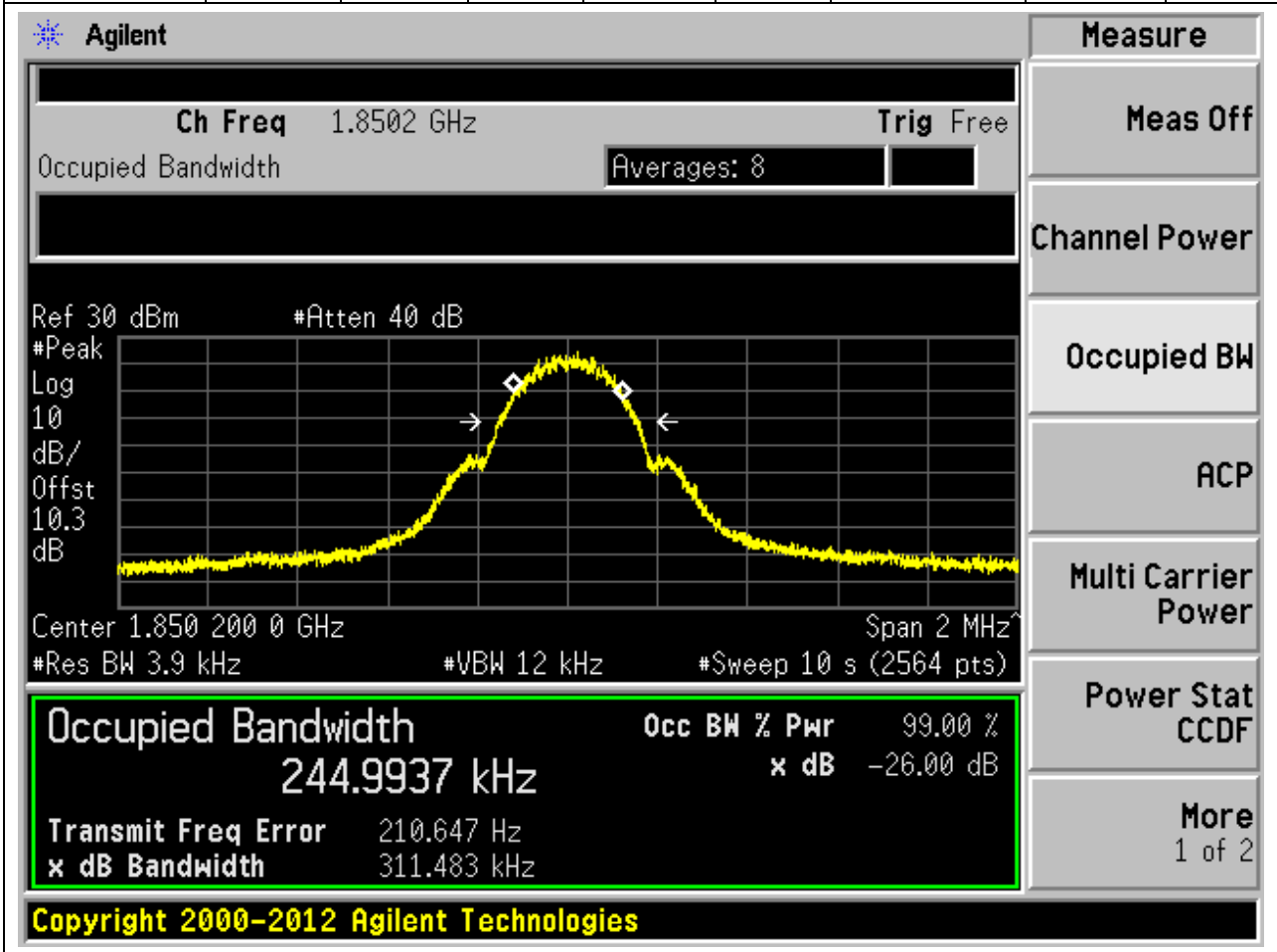
Power Stat CCDF

More 1 of 2

2. GPRS_PCS

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

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1850.2 | 99 | 26 | 0.004 | Peak | 0.245 | 0.311 | 0.3 | Pass |



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

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1880 | 99 | 26 | 0.004 | Peak | 0.244 | 0.314 | 0.3 | Pass |

Agilent

Measure
 Meas Off
 Channel Power
 Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 1.88 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

#Peak Log 10 dB/Offst 10.3 dB

Center 1.880 000 0 GHz Span 2 MHz

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

| | |
|--|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 243.5233 kHz | x dB -26.00 dB |
| Transmit Freq Error -426.713 Hz | |
| x dB Bandwidth 313.542 kHz | |

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

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1909.8 | 99 | 26 | 0.004 | Peak | 0.243 | 0.311 | 0.3 | Pass |

Agilent

Measure
 Meas Off
 Channel Power
 Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 1.9098 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

Center 1.909 800 0 GHz Span 2 MHz

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

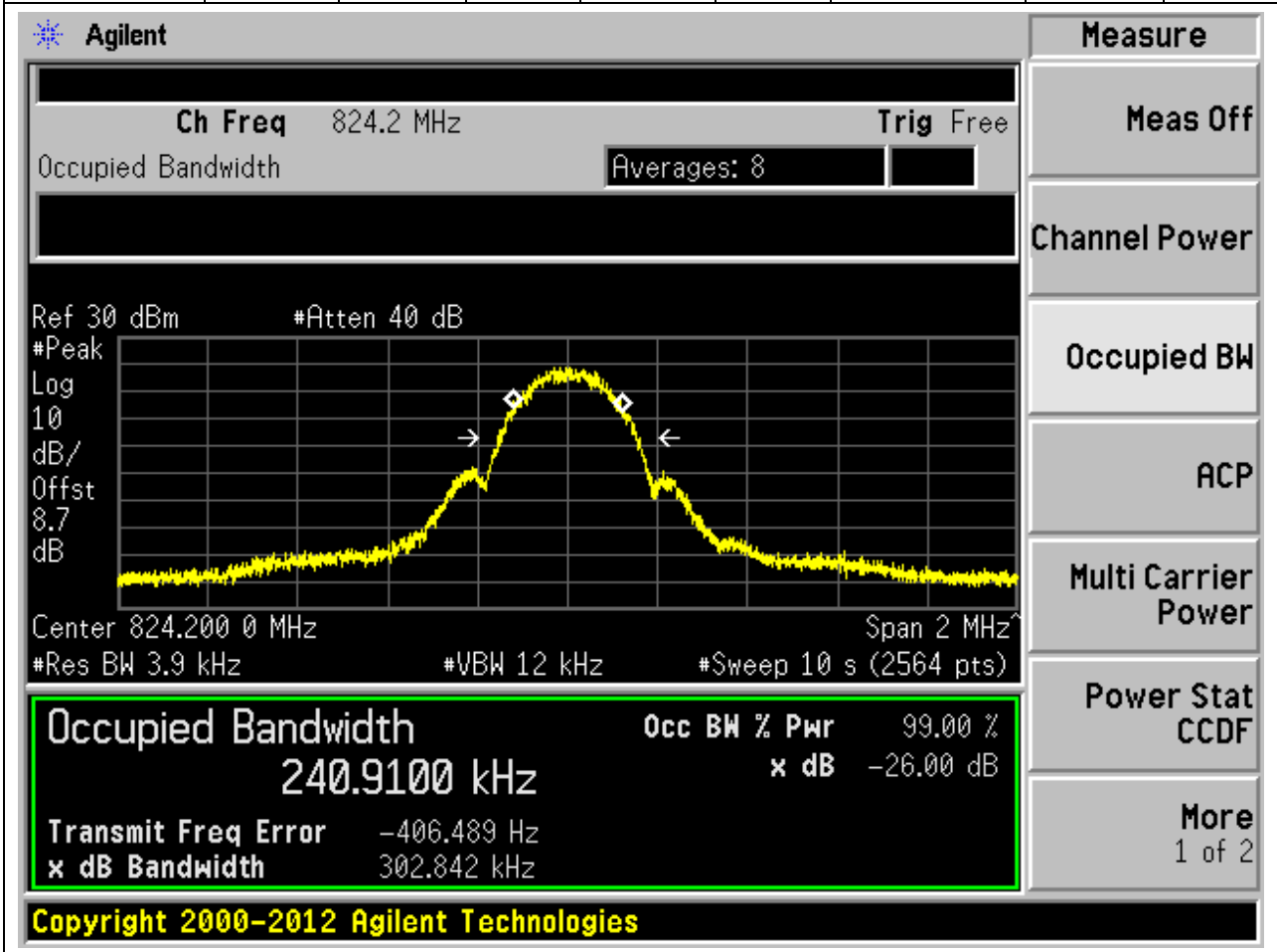
| | |
|---------------------------------------|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 242.6400 kHz | x dB -26.00 dB |
| Transmit Freq Error 711.393 Hz | |
| x dB Bandwidth 311.466 kHz | |

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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 | 0.241 | 0.303 | 0.3 | Pass |



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

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 836.6 | 99 | 26 | 0.004 | Peak | 0.243 | 0.307 | 0.3 | Pass |

Agilent

Ch Freq 836.6 MHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

Center 836.6000 MHz Span 2 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

242.5974 kHz x dB -26.00 dB

Transmit Freq Error 105.274 Hz

x dB Bandwidth 306.766 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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3.3. EGPRS 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 | 0.247 | 0.308 | 0.3 | Pass |

Agilent

Measure

Ch Freq 848.8 MHz
Trig Free

Occupied Bandwidth
Averages: 8

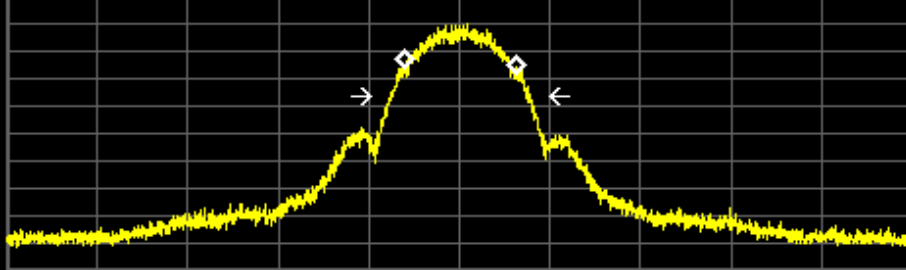
Ref 30 dBm
#Atten 40 dB

#Peak
Log

10
dB/

Offst
8.76

dB



Center 848.800 0 MHz
Span 2 MHz

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

Occupied Bandwidth

247.2214 kHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -396.359 Hz

x dB Bandwidth 307.623 kHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

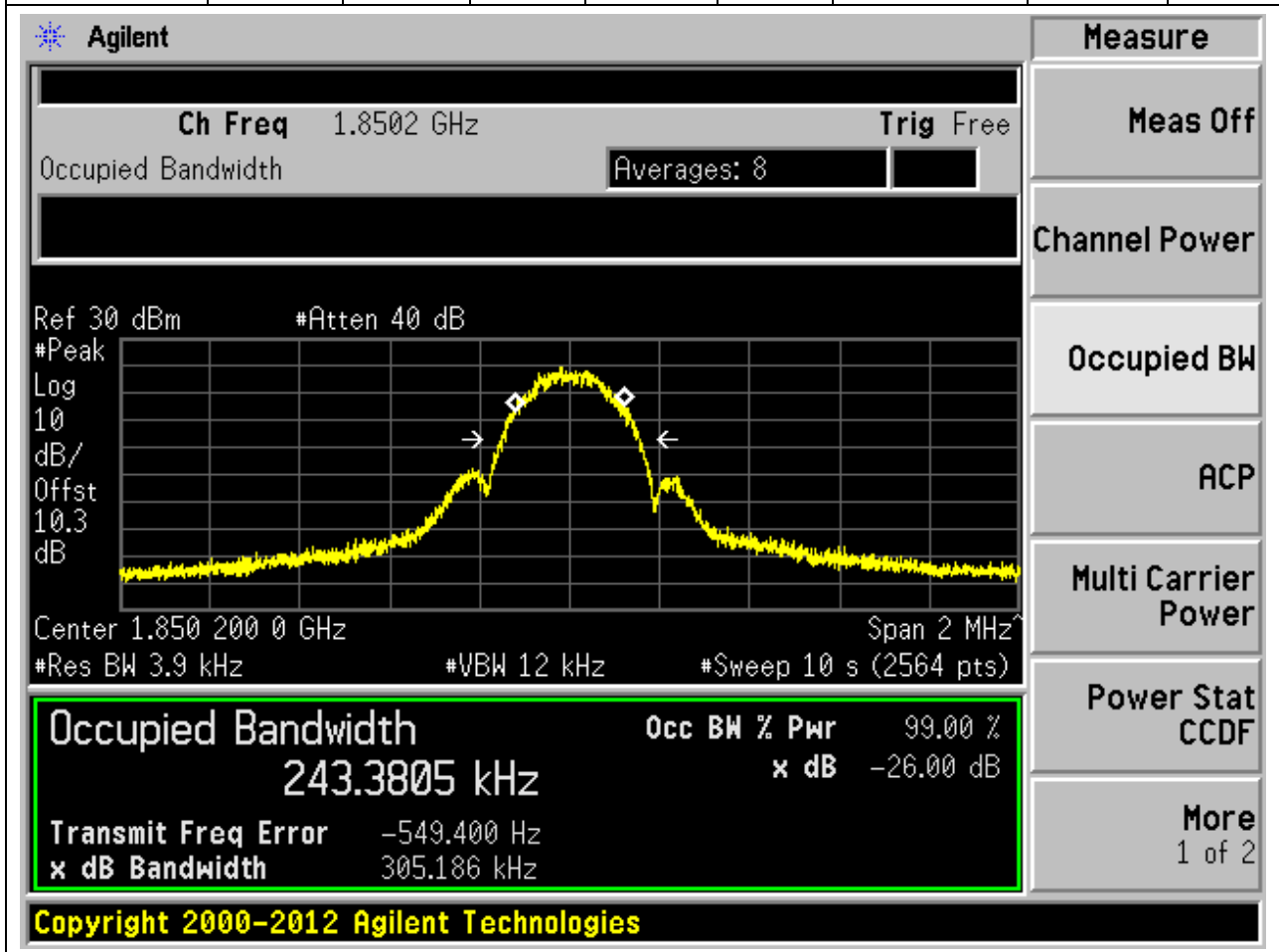
Power Stat CCDF

More
1 of 2

4. EGPRS_PCS

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

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1850.2 | 99 | 26 | 0.004 | Peak | 0.243 | 0.305 | 0.3 | Pass |



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

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1880 | 99 | 26 | 0.004 | Peak | 0.245 | 0.309 | 0.3 | Pass |

Agilent

Measure
 Meas Off
 Channel Power
 Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 1.88 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

Center 1.880 000 0 GHz Span 2 MHz

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

| | |
|--|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 244.8278 kHz | x dB -26.00 dB |
| Transmit Freq Error -454.756 Hz | |
| x dB Bandwidth 309.229 kHz | |

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

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1909.8 | 99 | 26 | 0.004 | Peak | 0.244 | 0.304 | 0.3 | Pass |

Agilent

Ch Freq 1.9098 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 40 dB

#Peak Log 10 dB/Offst 10.4 dB

Center 1.909 800 0 GHz Span 2 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

243.7618 kHz x dB -26.00 dB

Transmit Freq Error -1.046 kHz

x dB Bandwidth 304.225 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

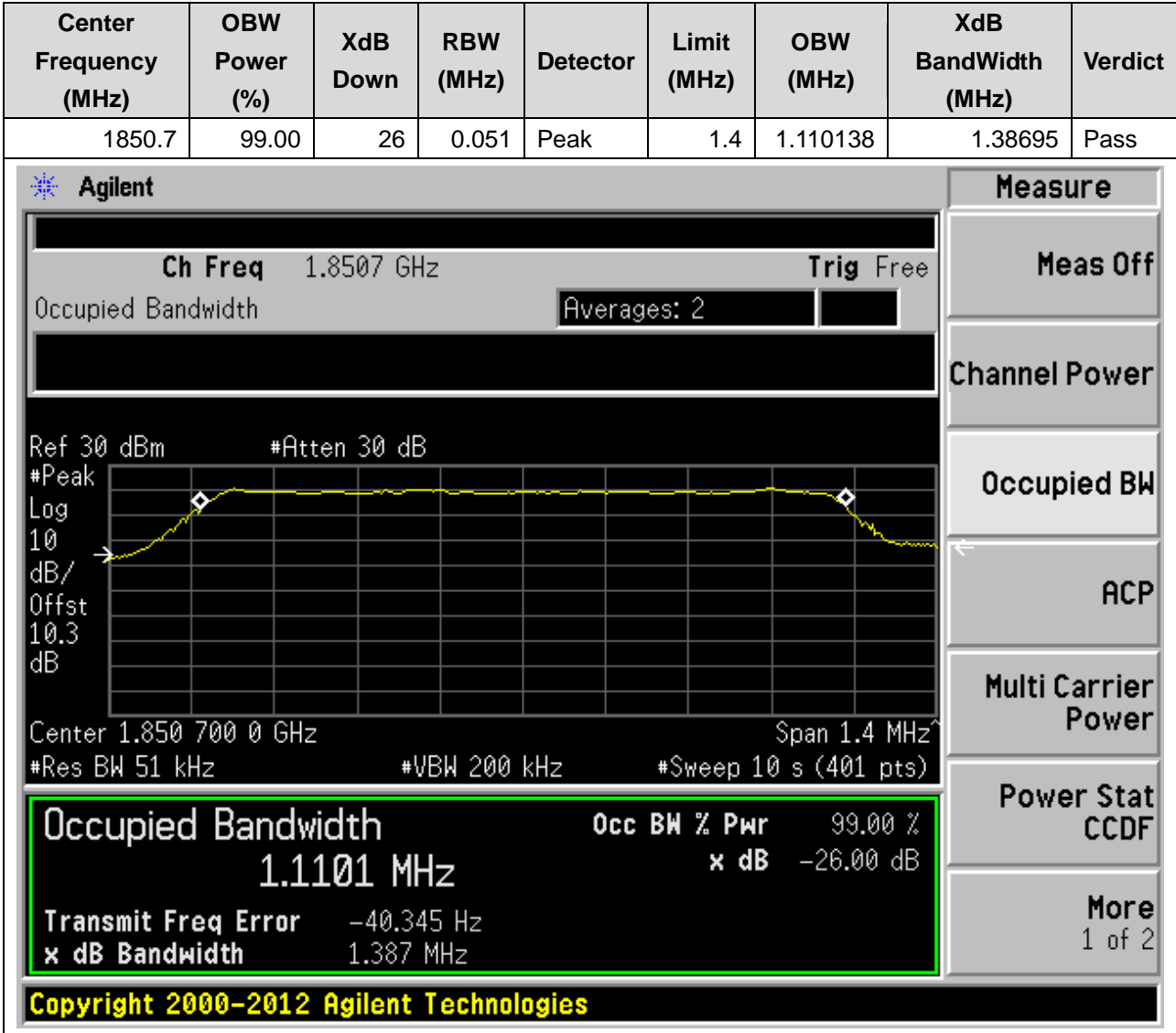
Multi Carrier Power

Power Stat CCDF

More 1 of 2

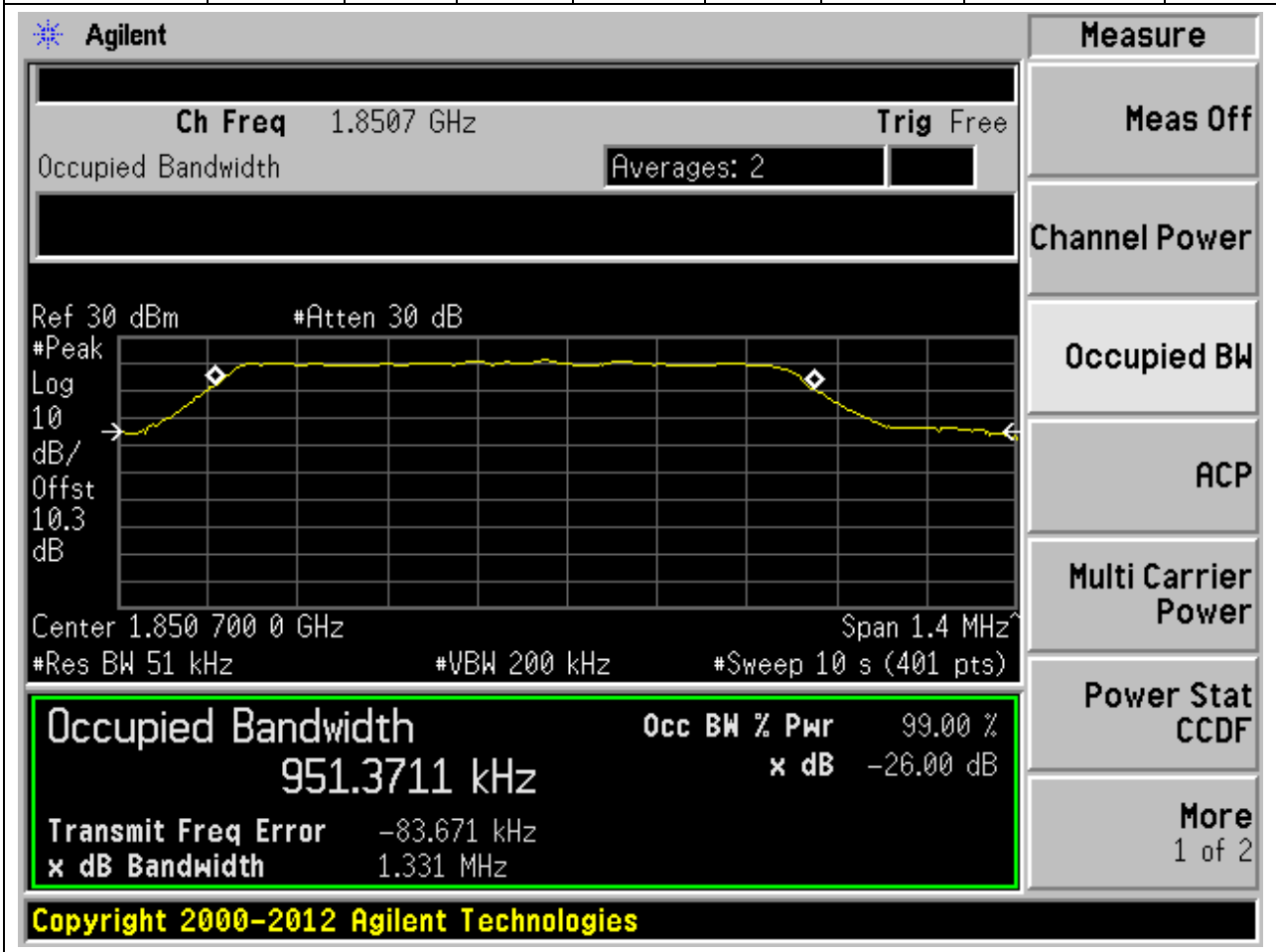
5. LTE-M1 Band2

5.1. LTE-M1 Occupied Bandwidth(NTNV)_Band2_QPSK_1.4MHz_6@0_Index low_Low



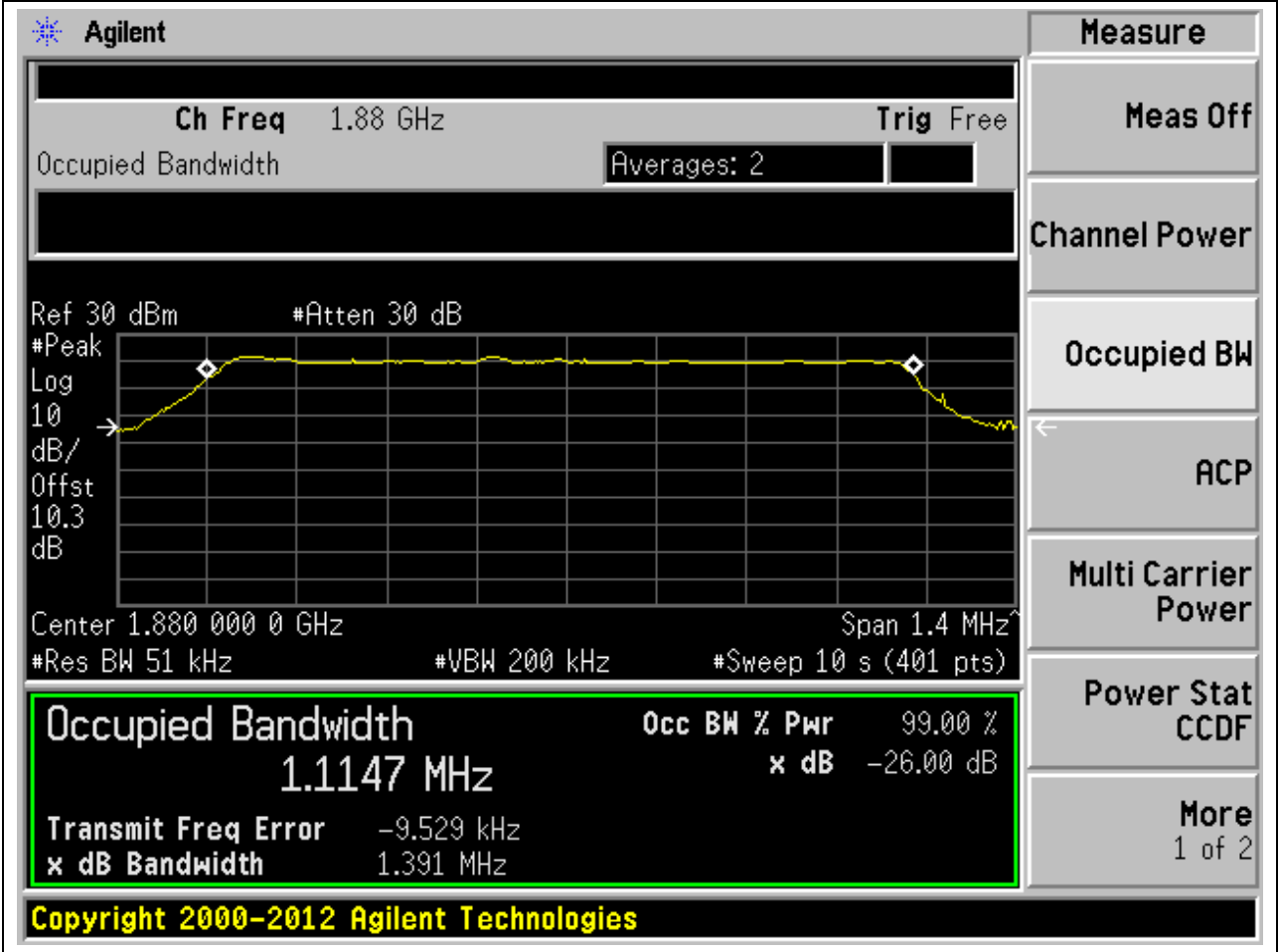
5.2. LTE-M1 Occupied Bandwidth(NTNV)_Band2_16QAM_1.4MHz_5@0_Index low_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1850.7 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.951371 | 1.330866 | Pass |



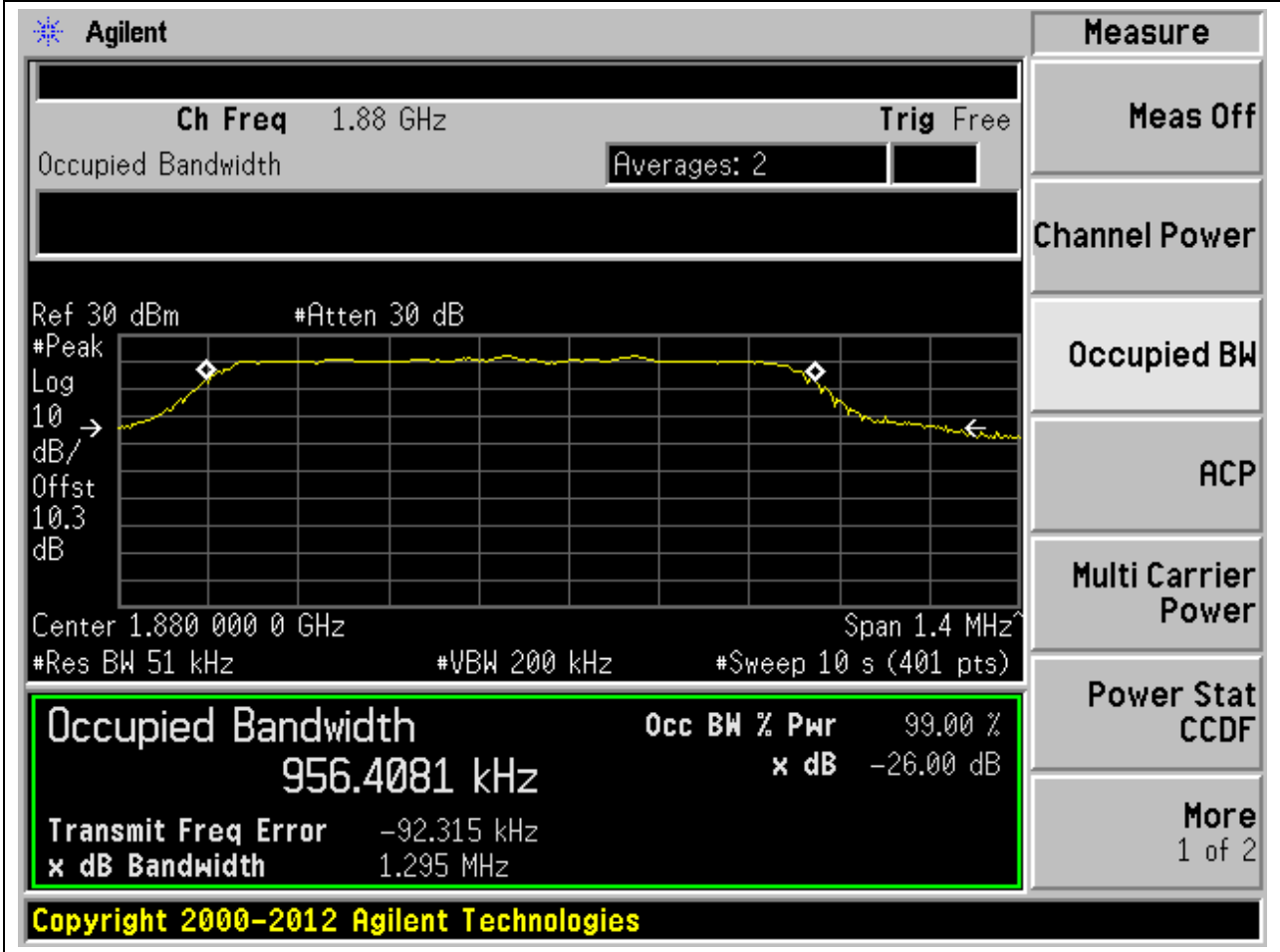
5.3. LTE-M1 Occupied Bandwidth(NTNV)_Band2_QPSK_1.4MHz_6@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1880 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.114727 | 1.391016 | Pass |



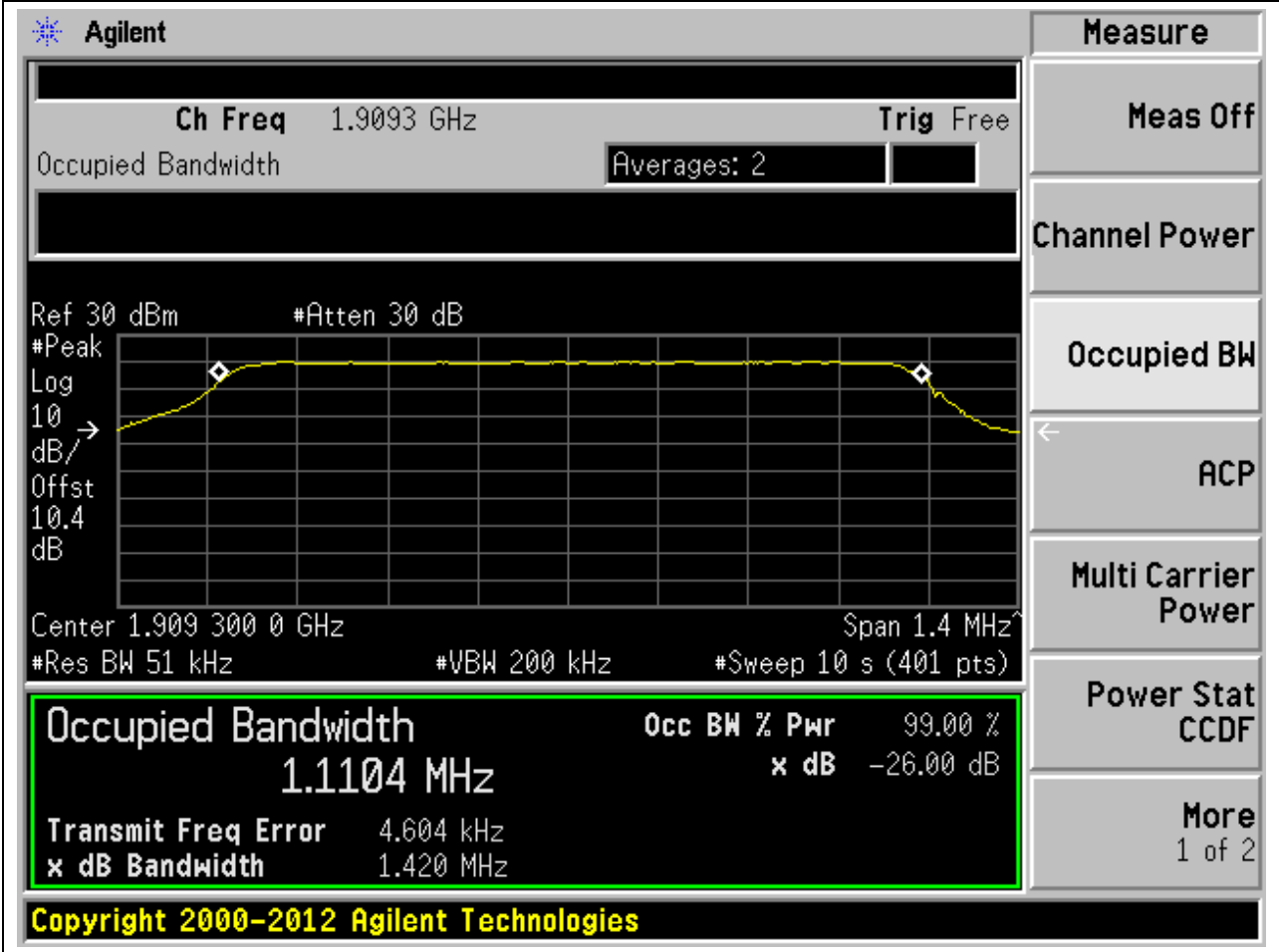
5.4. LTE-M1 Occupied Bandwidth(NTNV)_Band2_16QAM_1.4MHz_5@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1880 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.956408 | 1.295013 | Pass |



5.5. LTE-M1 Occupied Bandwidth(NTNV)_Band2_QPSK_1.4MHz_6@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1909.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.110377 | 1.420001 | Pass |



5.6. LTE-M1 Occupied Bandwidth(NTNV)_Band2_16QAM_1.4MHz_5@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1909.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.951727 | 1.393823 | Pass |

Agilent

Ch Freq 1.9093 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.4 dB

Center 1.909 300 0 GHz Span 1.4 MHz

#Res BW 51 kHz #VBW 200 kHz #Sweep 10 s (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

951.7265 kHz x dB -26.00 dB

Transmit Freq Error -84.167 kHz

x dB Bandwidth 1.394 MHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

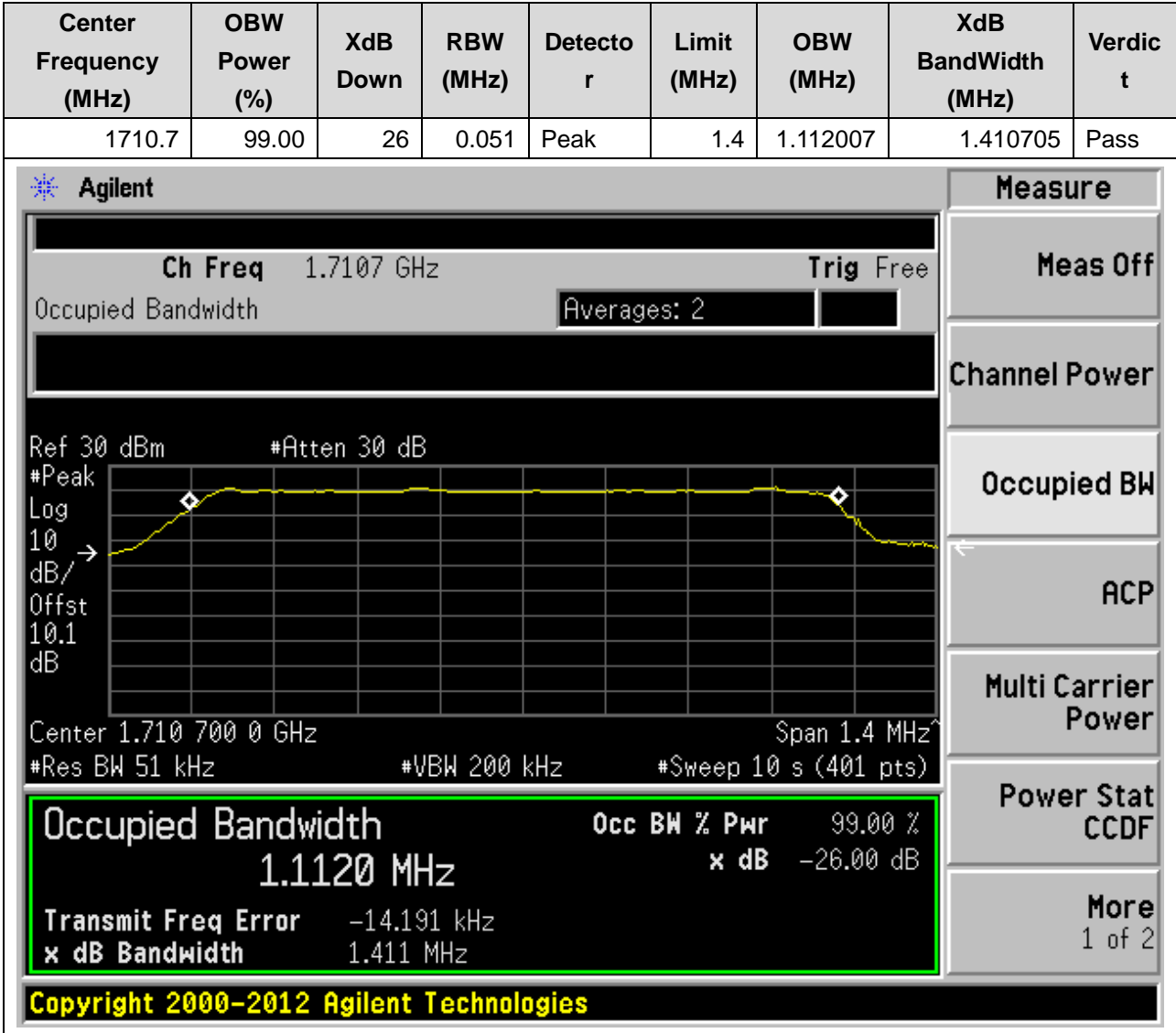
Multi Carrier Power

Power Stat CCDF

More 1 of 2

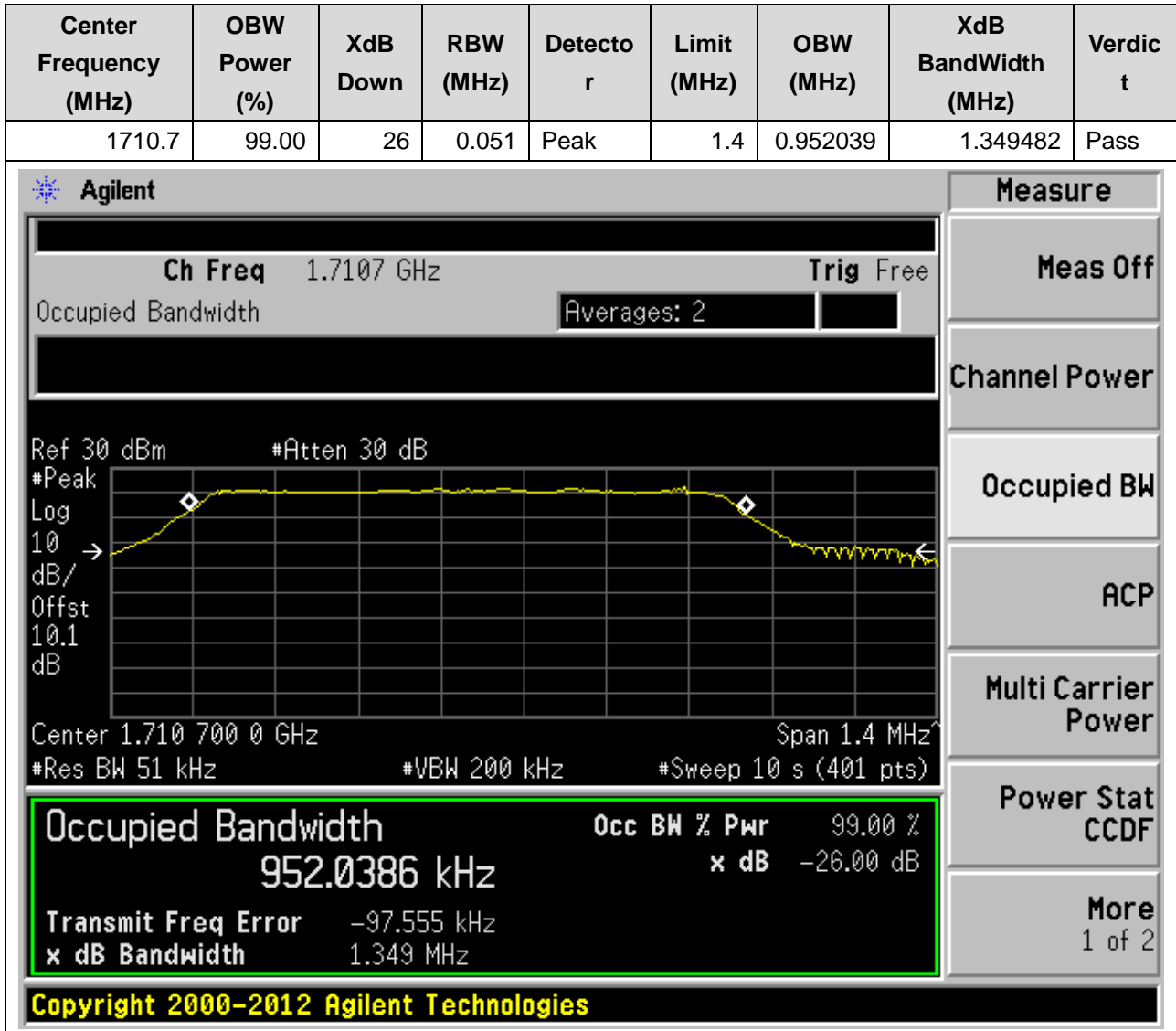
6. LTE-M1 Band4

6.1. LTE-M1 Occupied Bandwidth(NTNV)_Band4_QPSK_1.4MHz_6@0_Index low_Low



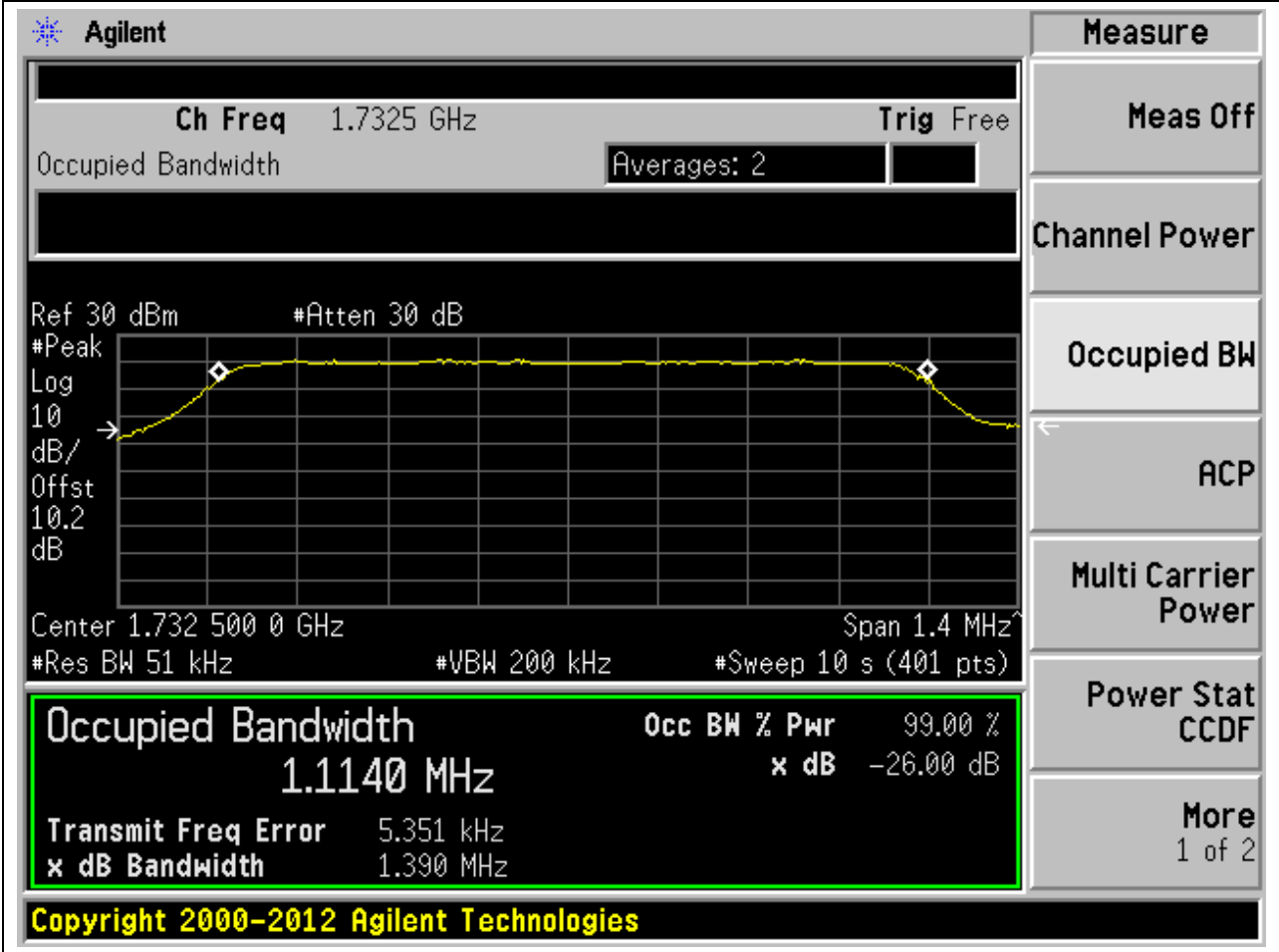
6.2. LTE-M1 Occupied

Bandwidth(NTNV)_Band4_16QAM_1.4MHz_5@0_Index low_Low



6.3. LTE-M1 Occupied Bandwidth(NTNV)_Band4_QPSK_1.4MHz_6@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1732.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.114002 | 1.390114 | Pass |



6.4. LTE-M1 Occupied Bandwidth(NTNV)_Band4_16QAM_1.4MHz_5@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1732.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.951196 | 1.381396 | Pass |

Agilent

Ch Freq 1.7325 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.2 dB

Center 1.732 500 0 GHz Span 1.4 MHz

#Res BW 51 kHz #VBW 200 kHz #Sweep 10 s (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

951.1956 kHz x dB -26.00 dB

Transmit Freq Error -85.052 kHz

x dB Bandwidth 1.381 MHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

6.5 LTE-M1 Occupied Bandwidth(NTNV)_Band4_QPSK_1.4MHz_6@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1754.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.110396 | 1.399746 | Pass |

Agilent

Ch Freq 1.7543 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.2 dB

Center 1.754 300 0 GHz Span 1.4 MHz

#Res BW 51 kHz #VBW 200 kHz #Sweep 10 s (401 pts)

Occupied Bandwidth 1.1104 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 3.197 kHz

x dB Bandwidth 1.400 MHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

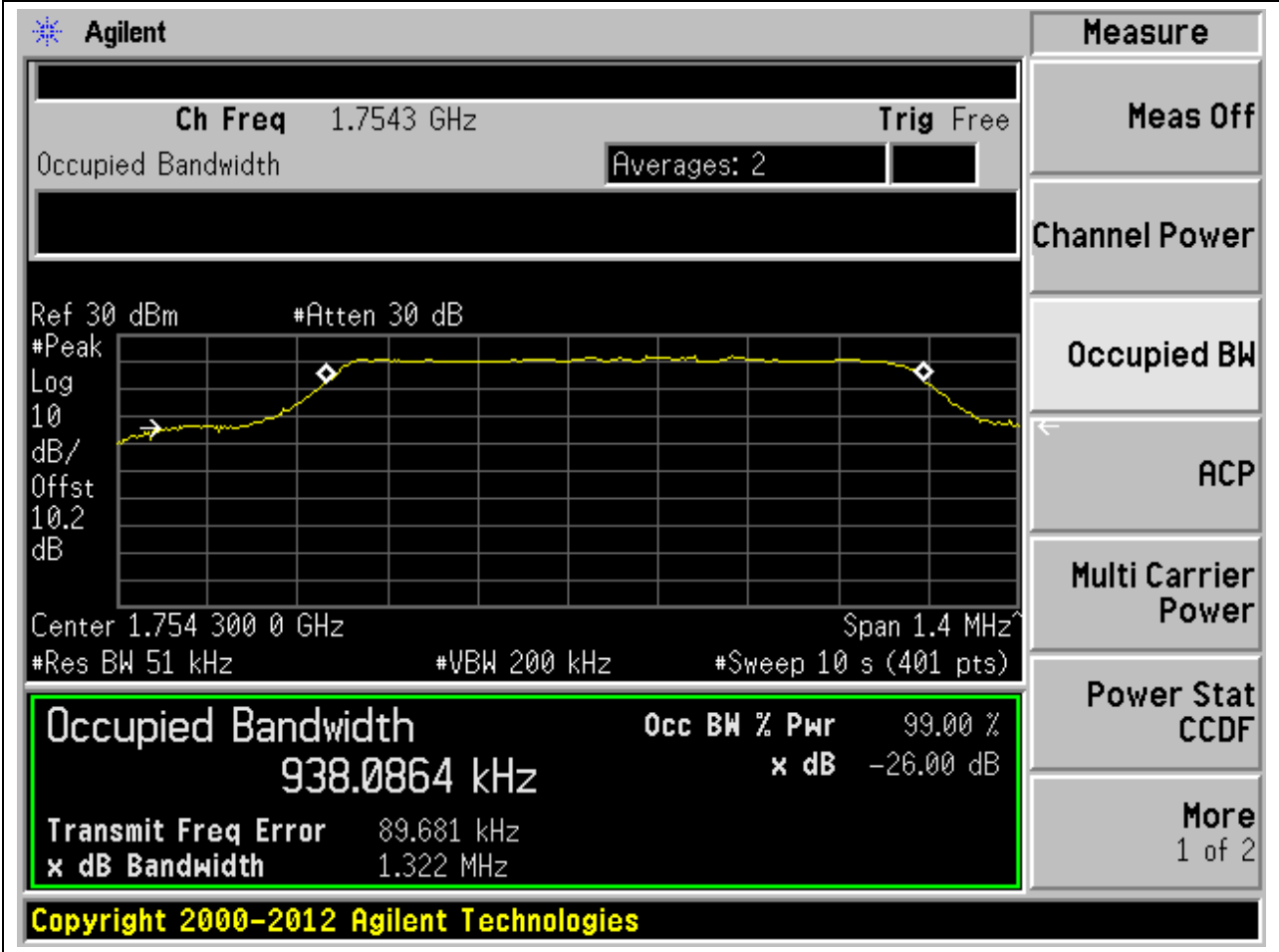
Multi Carrier Power

Power Stat CCDF

More 1 of 2

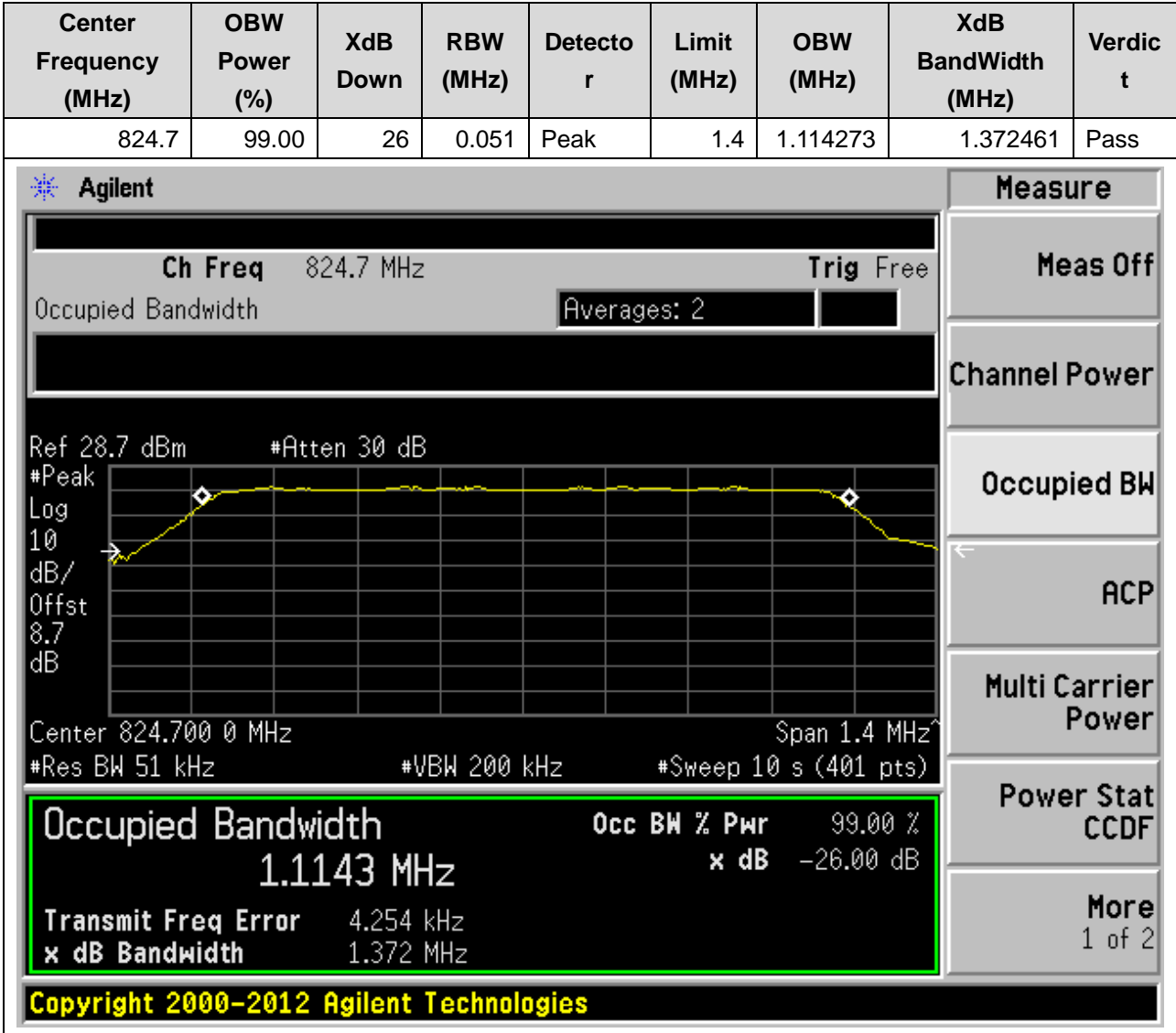
6.6. LTE-M1 Occupied Bandwidth(NTNV)_Band4_16QAM_1.4MHz_5@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1754.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.938086 | 1.322253 | Pass |



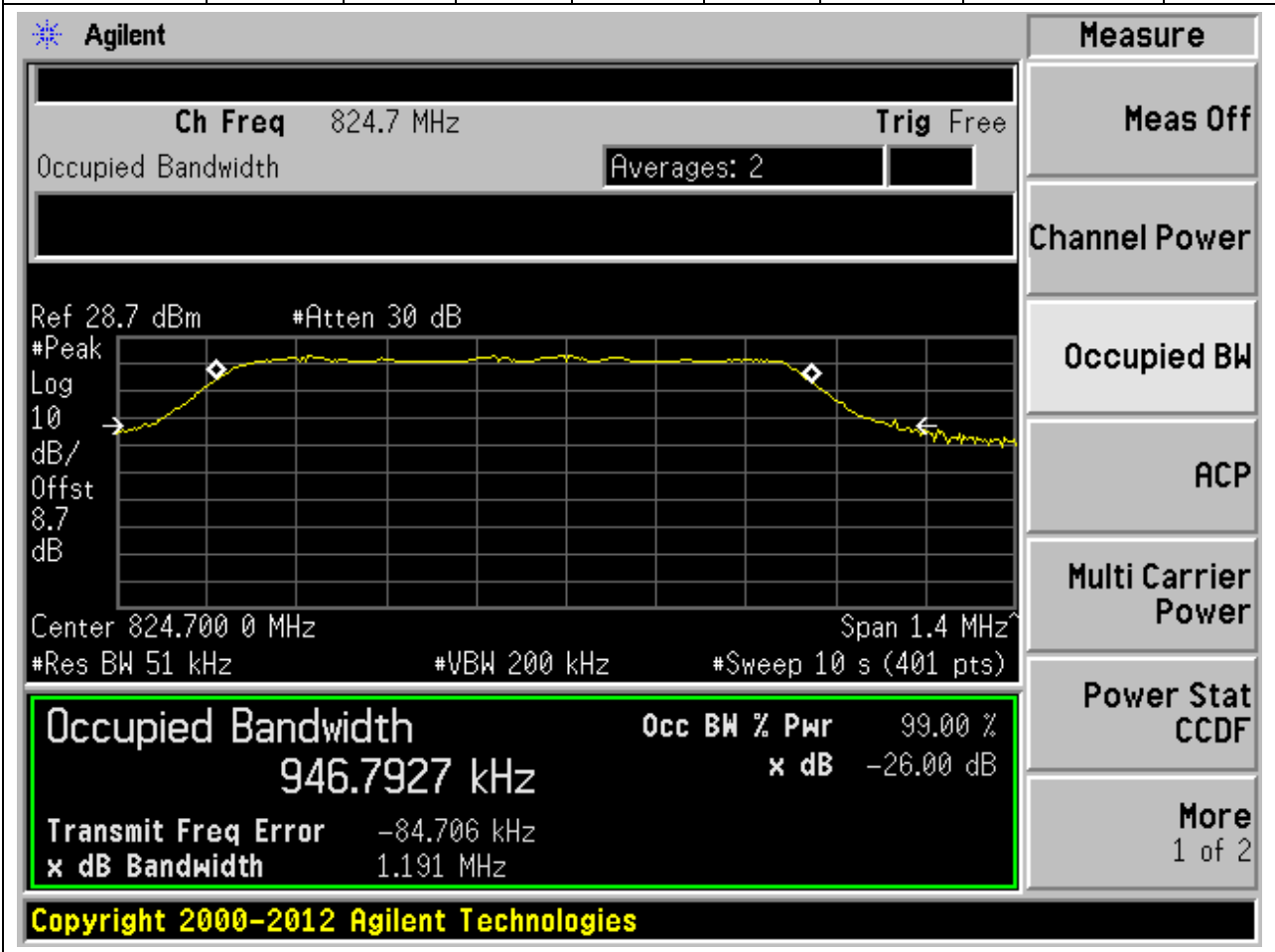
7. LTE-M1 Band5

7.1. LTE-M1 Occupied Bandwidth(NTNV)_Band5_QPSK_1.4MHz_6@0_Index low_Low

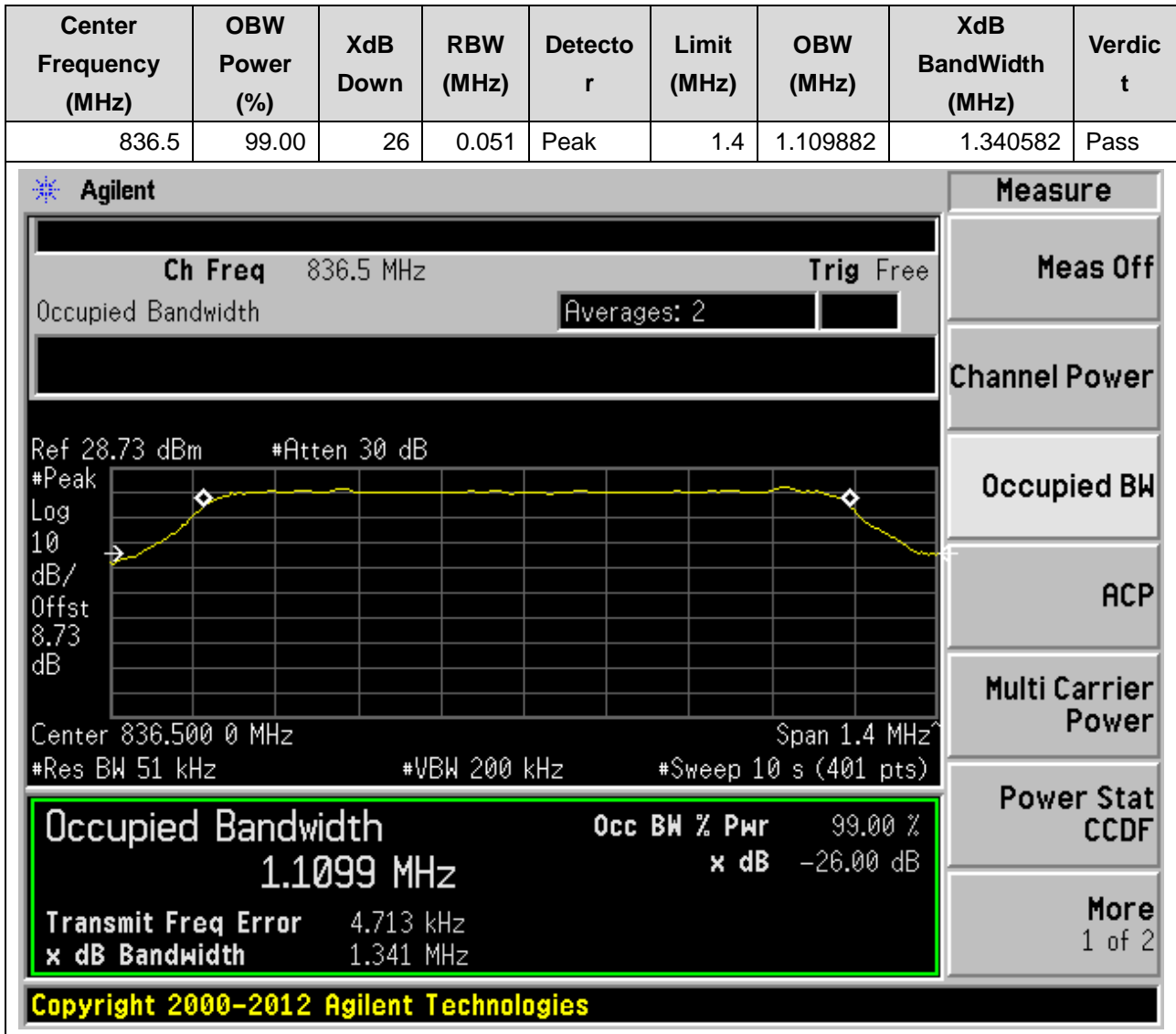


7.2. LTE-M1 Occupied Bandwidth(NTNV)_Band5_16QAM_1.4MHz_5@0_Index low_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 824.7 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.946793 | 1.190936 | Pass |

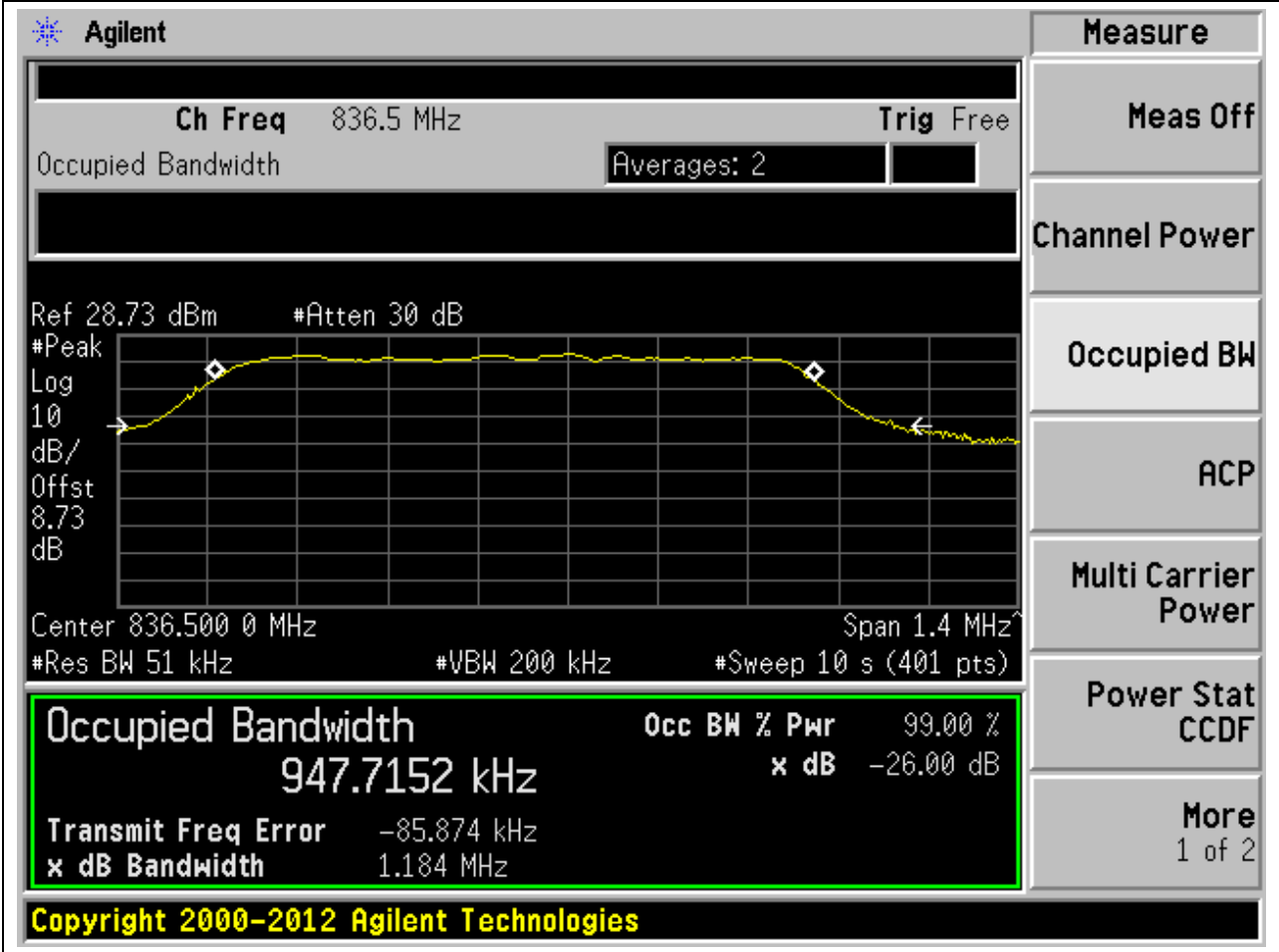


7.3. LTE-M1 Occupied Bandwidth(NTNV)_Band5_QPSK_1.4MHz_6@0_Index low_Mid



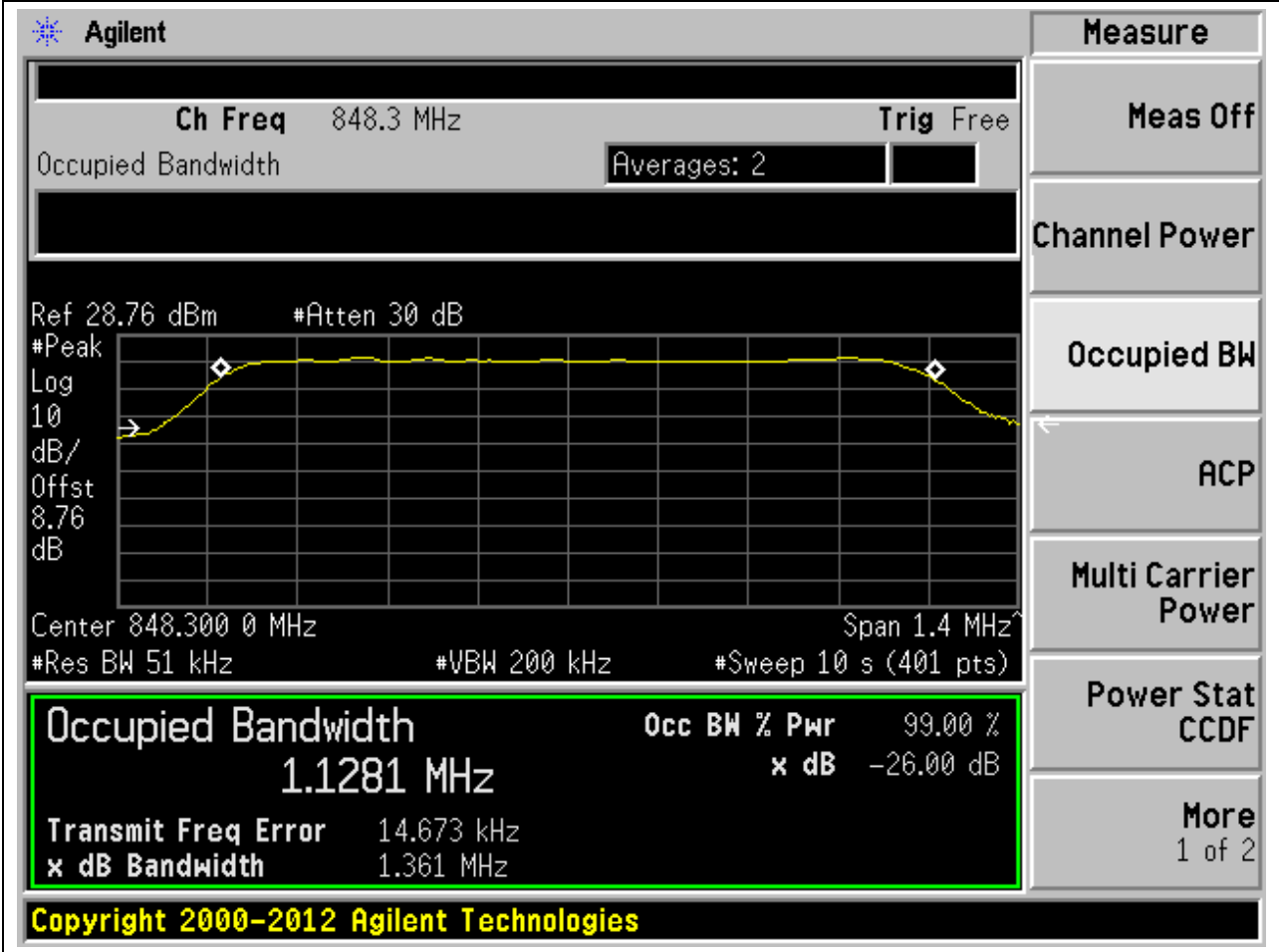
7.4. LTE-M1 Occupied Bandwidth(NTNV)_Band5_16QAM_1.4MHz_5@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.947715 | 1.184098 | Pass |



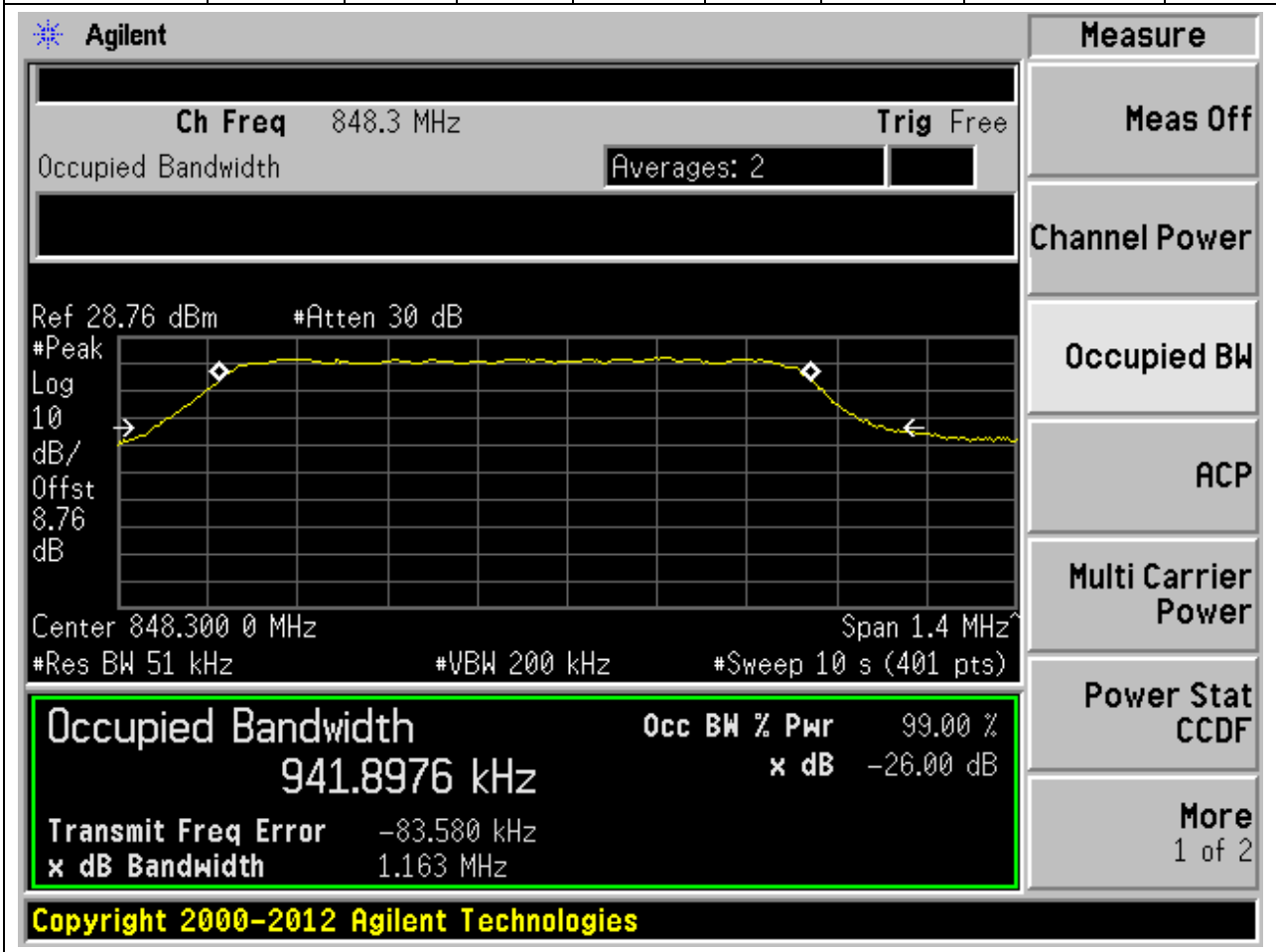
7.5. LTE-M1 Occupied Bandwidth(NTNV)_Band5_QPSK_1.4MHz_6@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.128073 | 1.361123 | Pass |



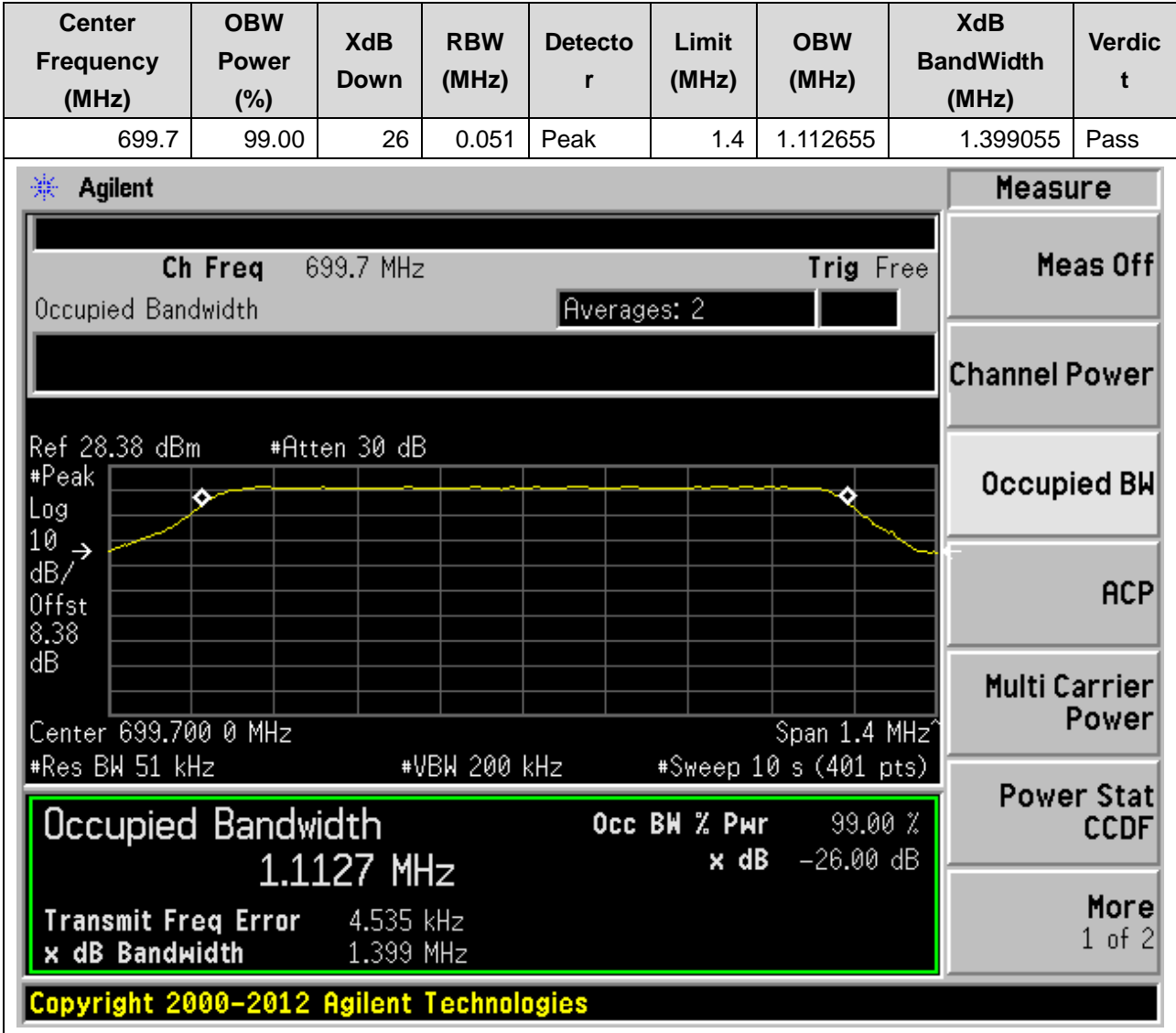
7.6. LTE-M1 Occupied Bandwidth(NTNV)_Band5_16QAM_1.4MHz_5@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.941898 | 1.163444 | Pass |



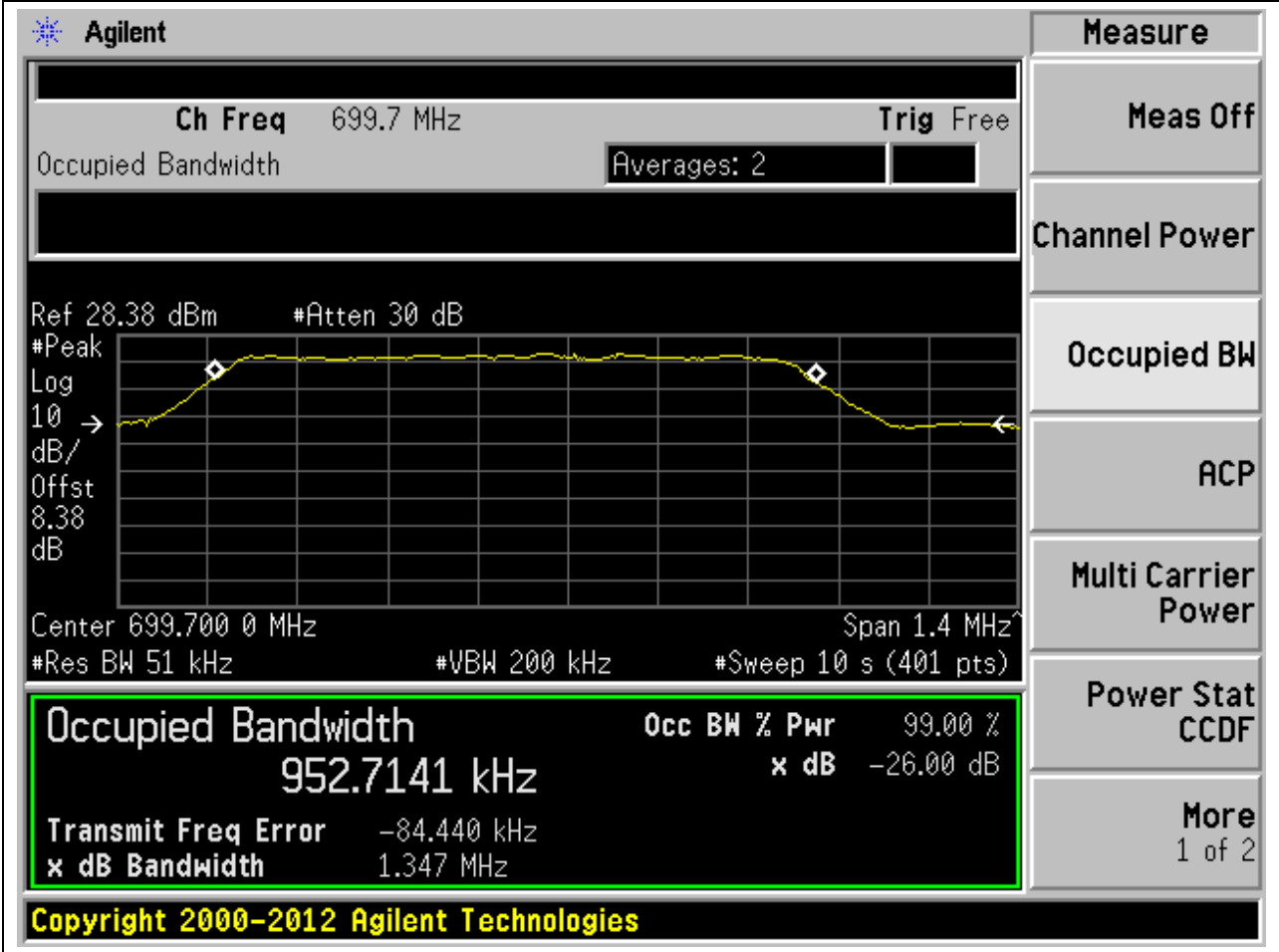
8. LTE-M1 Band12

8.1. LTE-M1 Occupied Bandwidth(NTNV)_Band12_QPSK_1.4MHz_6@0_Index low_Low



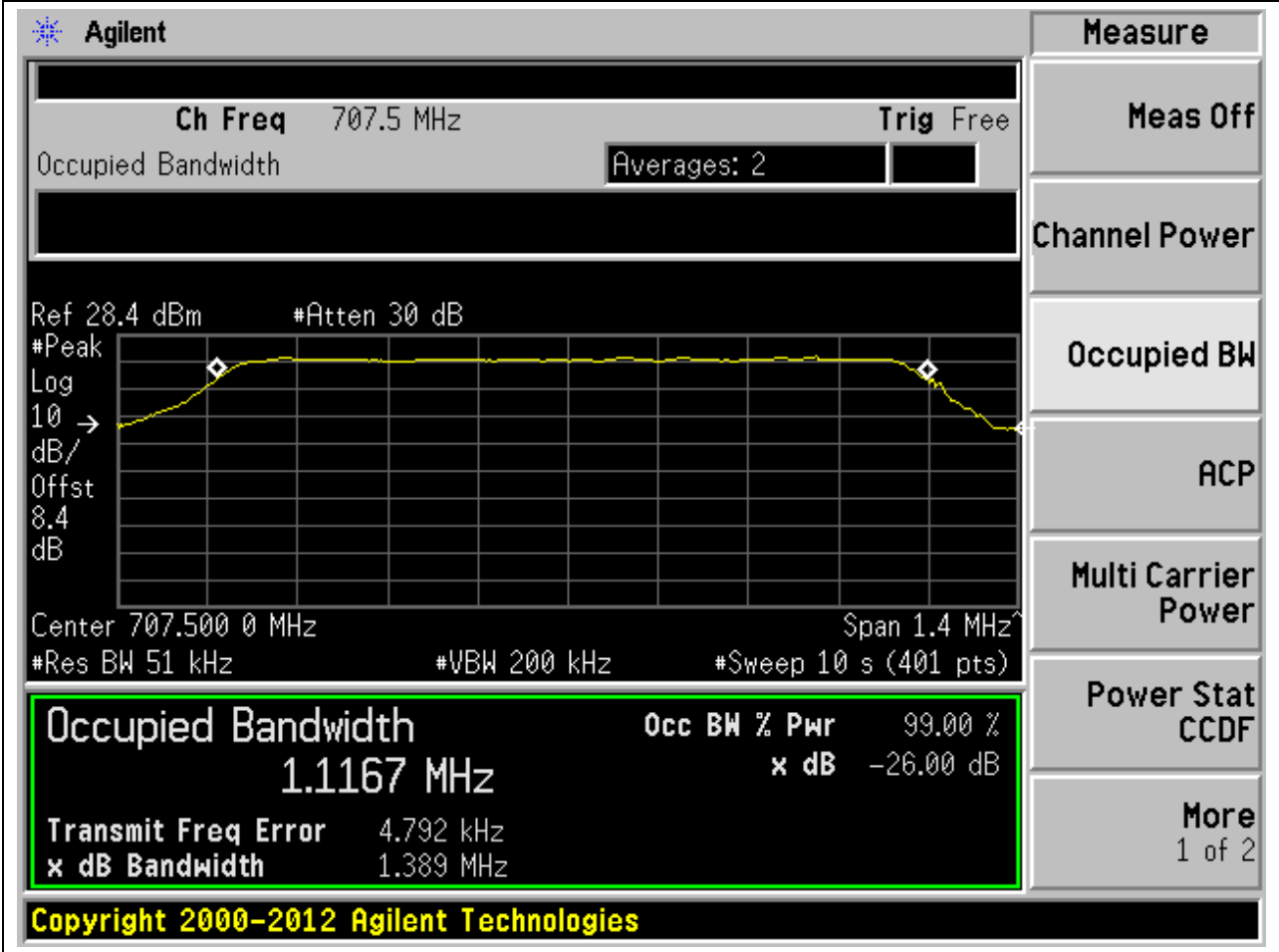
8.2. LTE-M1 Occupied Bandwidth(NTNV)_Band12_16QAM_1.4MHz_5@0_Index low_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 699.7 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.952714 | 1.347282 | Pass |



8.3. LTE-M1 Occupied Bandwidth(NTNV)_Band12_QPSK_1.4MHz_6@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 707.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.116733 | 1.389432 | Pass |



The screenshot displays the Agilent Spectrum Analyzer interface for an Occupied Bandwidth measurement. The main display shows a spectral plot with a yellow trace. The measurement results are summarized in a table at the bottom of the screen:

| Occupied Bandwidth | Occ BW % Pwr | x dB |
|--------------------|--------------|-----------|
| 1.1167 MHz | 99.00 % | -26.00 dB |

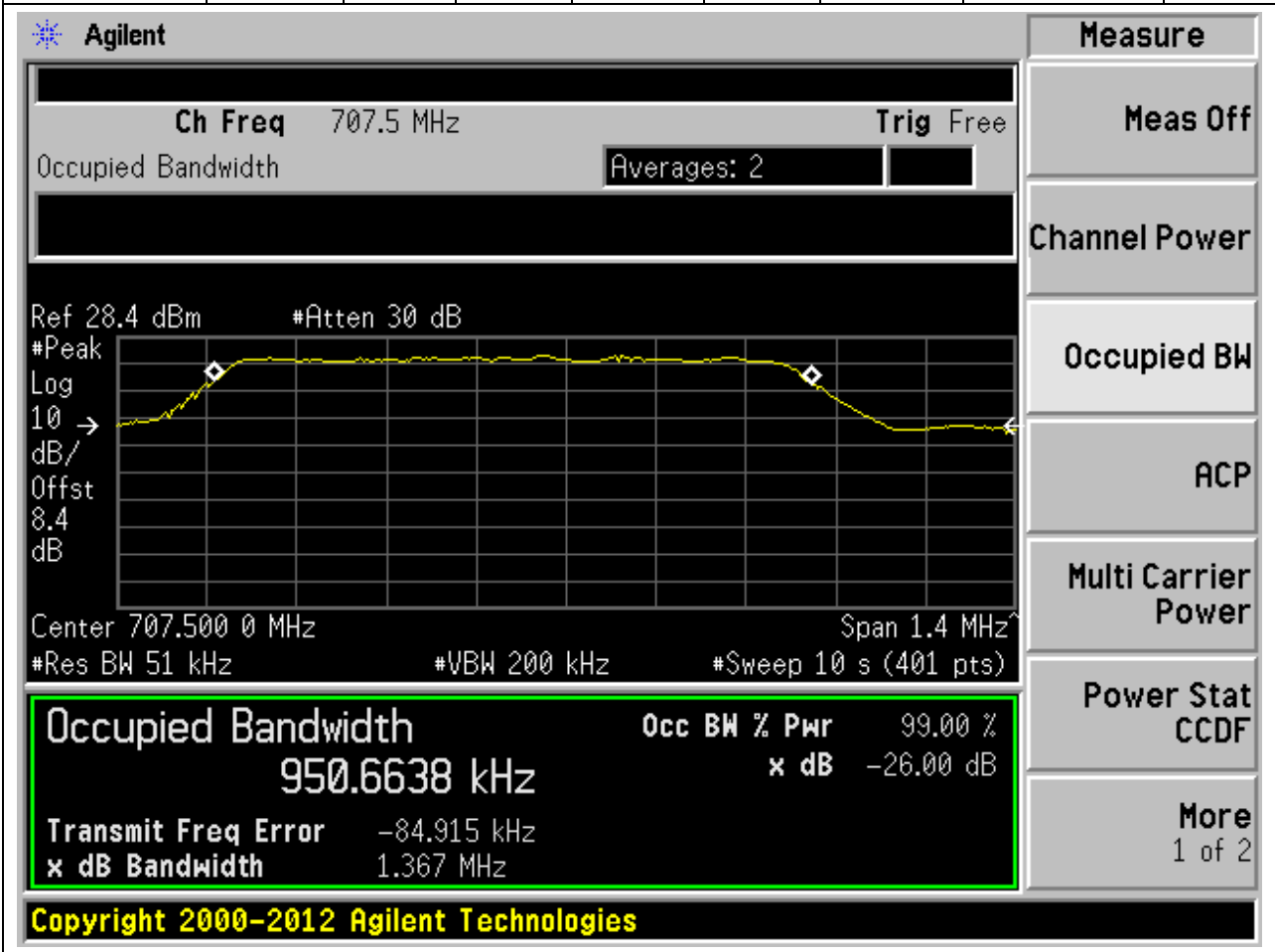
Additional parameters shown in the interface include:

- Center Freq: 707.5 MHz
- Span: 1.4 MHz
- Res BW: 51 kHz
- VBW: 200 kHz
- Sweep: 10 s (401 pts)
- Ref: 28.4 dBm
- Atten: 30 dB
- Trig: Free
- Averages: 2
- Transmit Freq Error: 4.792 kHz
- x dB Bandwidth: 1.389 MHz

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8.4. LTE-M1 Occupied Bandwidth(NTNV)_Band12_16QAM_1.4MHz_5@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 707.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.950664 | 1.367272 | Pass |



8.5. LTE-M1 Occupied Bandwidth(NTNV)_Band12_QPSK_1.4MHz_6@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 715.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.11922 | 1.388666 | Pass |

Agilent

Ch Freq 715.3 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.39 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.39 dB

Center 715.300 0 MHz Span 1.4 MHz

#Res BW 51 kHz #VBW 200 kHz #Sweep 10 s (401 pts)

Occupied Bandwidth 1.1192 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

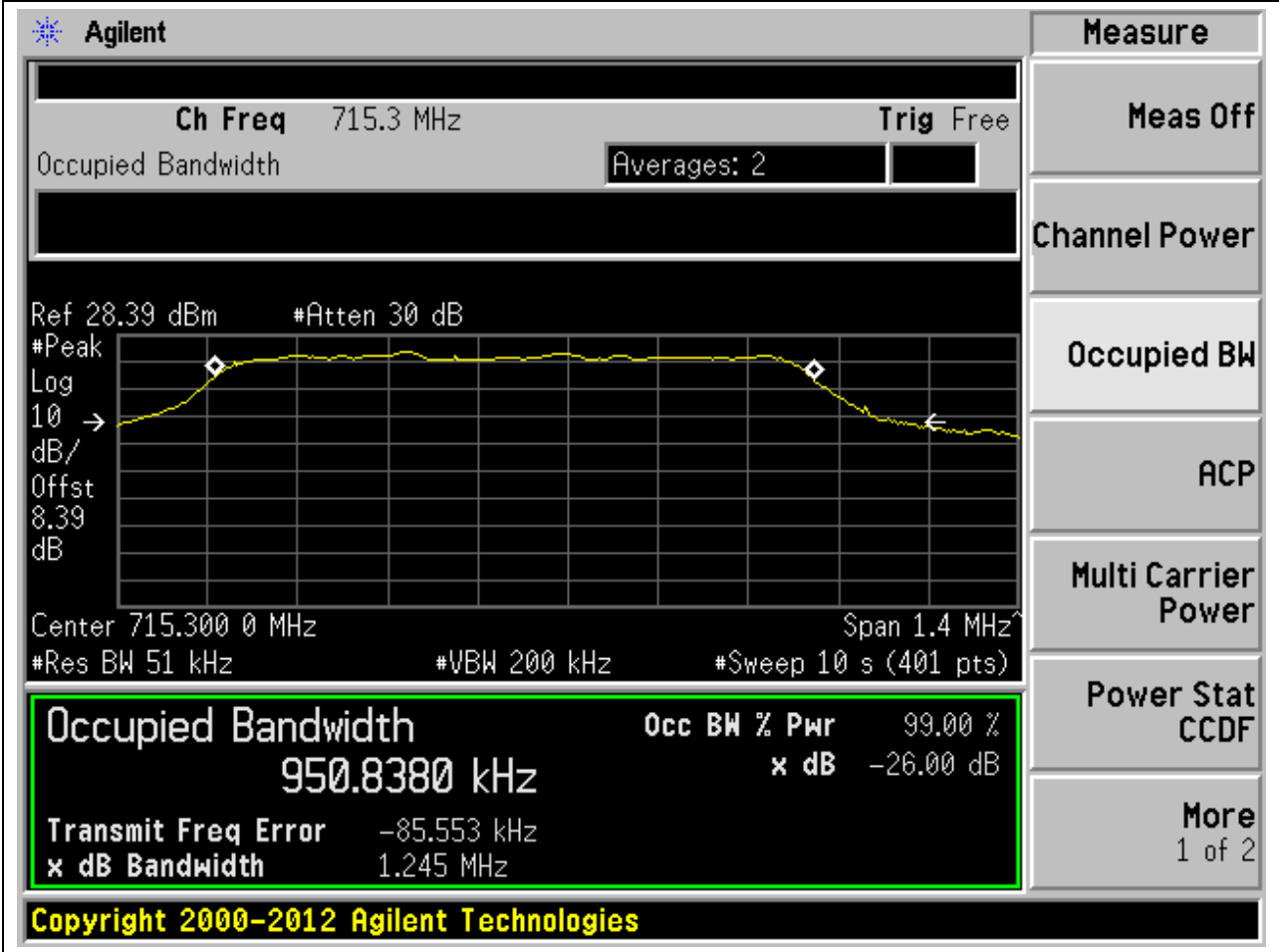
Transmit Freq Error 14.130 kHz
x dB Bandwidth 1.389 MHz

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Measure
Meas Off
Channel Power
Occupied BW
ACP
Multi Carrier Power
Power Stat CCDF
More 1 of 2

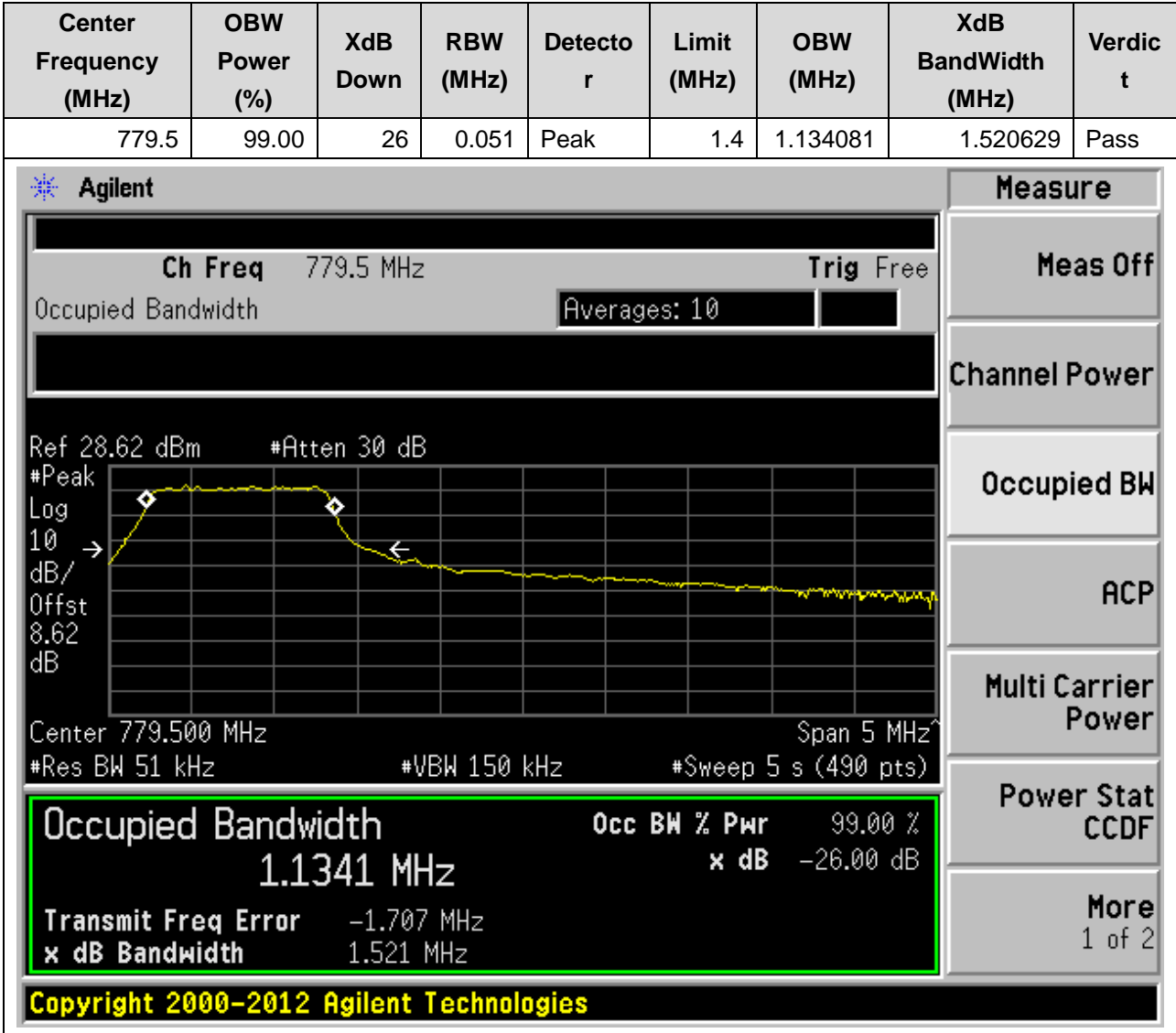
8.6. LTE-M1 Occupied Bandwidth(NTNV)_Band12_16QAM_1.4MHz_5@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 715.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.950838 | 1.245456 | Pass |



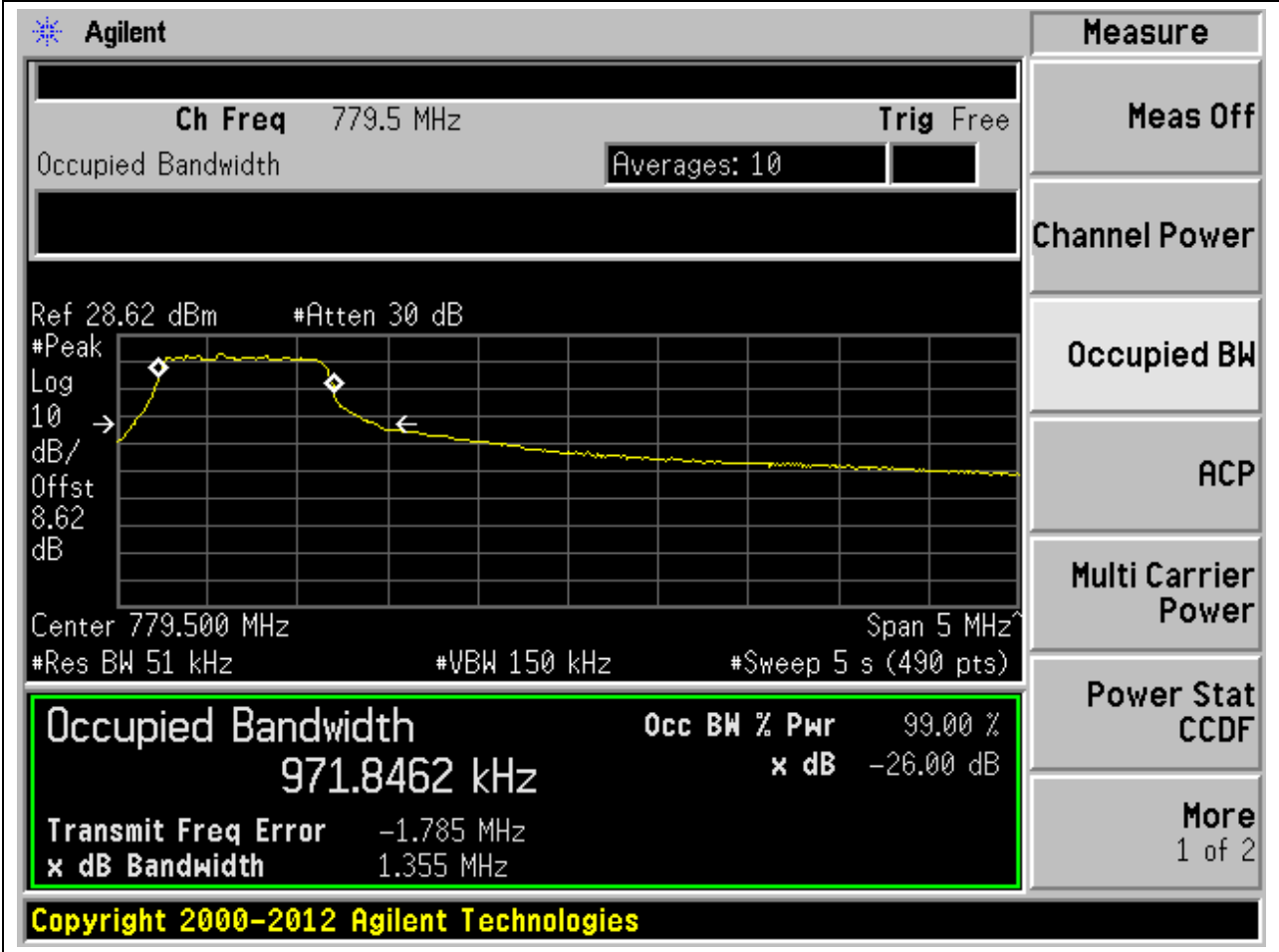
9. LTE-M1 Band13

9.1. LTE-M1 Occupied Bandwidth(NTNV)_Band13_QPSK_5MHz_6@0_Index low_Low



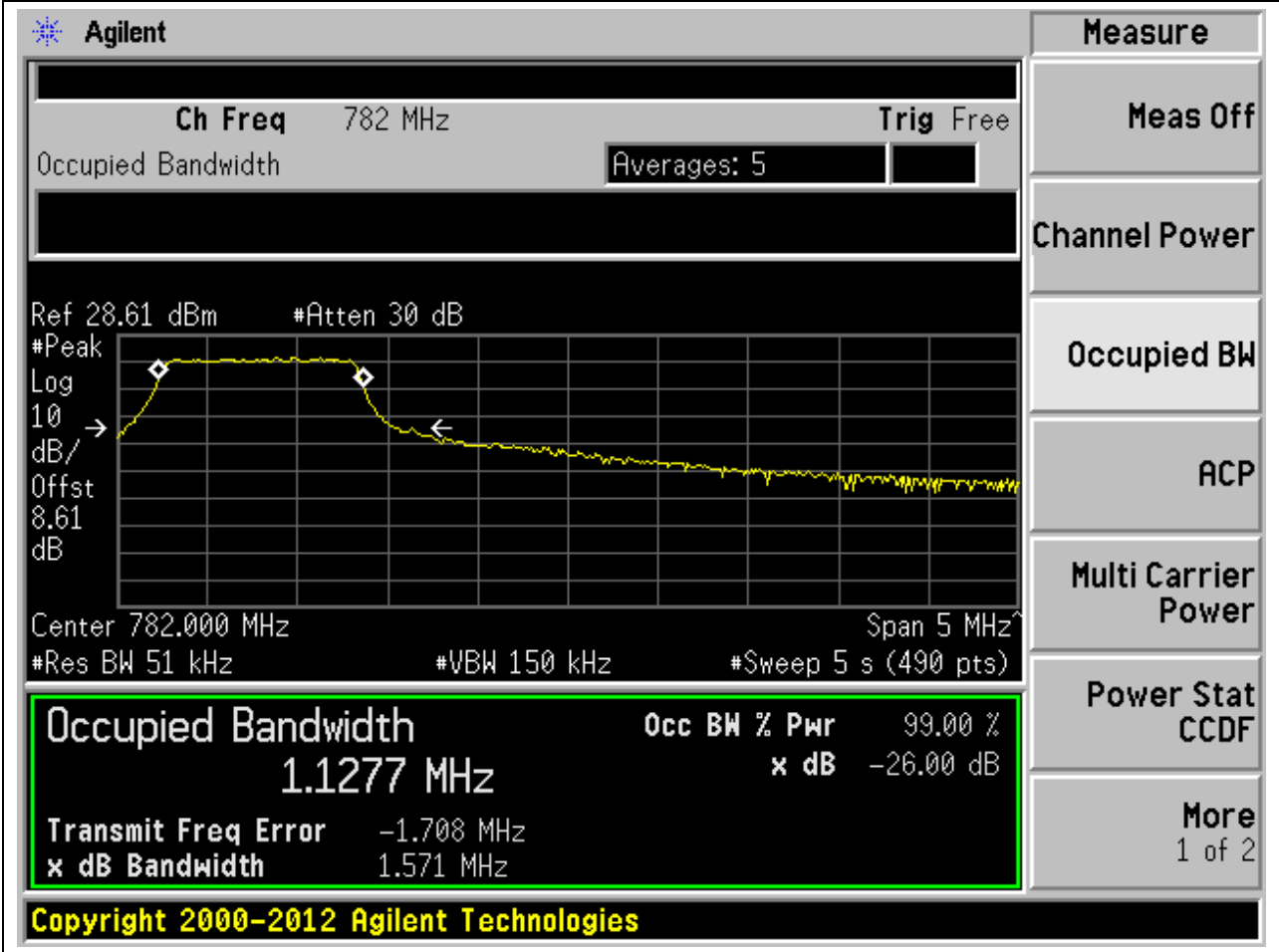
9.2. LTE-M1 Occupied Bandwidth(NTNV)_Band13_16QAM_5MHz_5@0_Index low_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 779.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.971846 | 1.354559 | Pass |



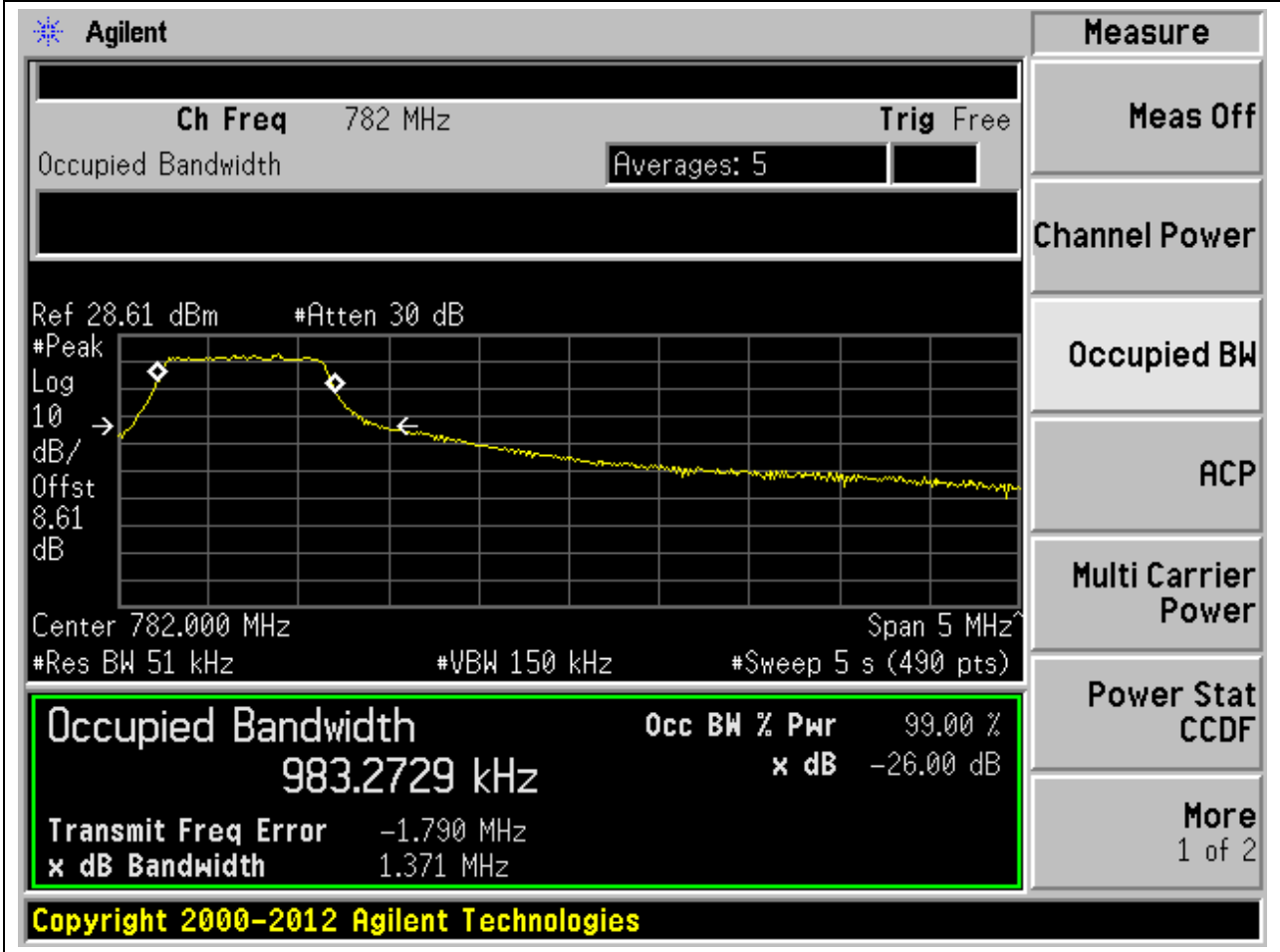
9.3. LTE-M1 Occupied Bandwidth(NTNV)_Band13_QPSK_5MHz_6@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 782 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.127727 | 1.570764 | Pass |



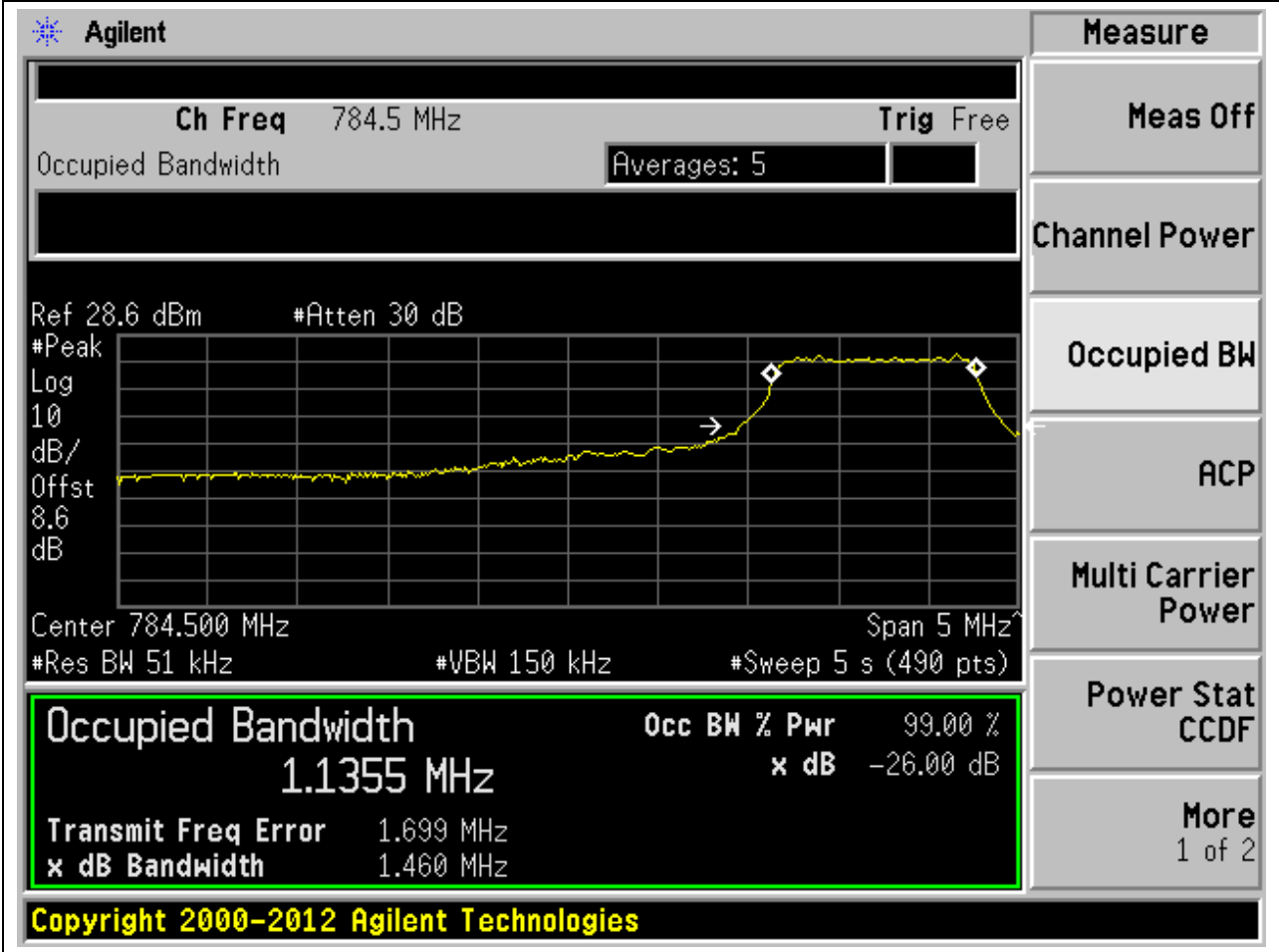
9.4. LTE-M1 Occupied Bandwidth(NTNV)_Band13_16QAM_5MHz_5@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 782 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.983273 | 1.371222 | Pass |



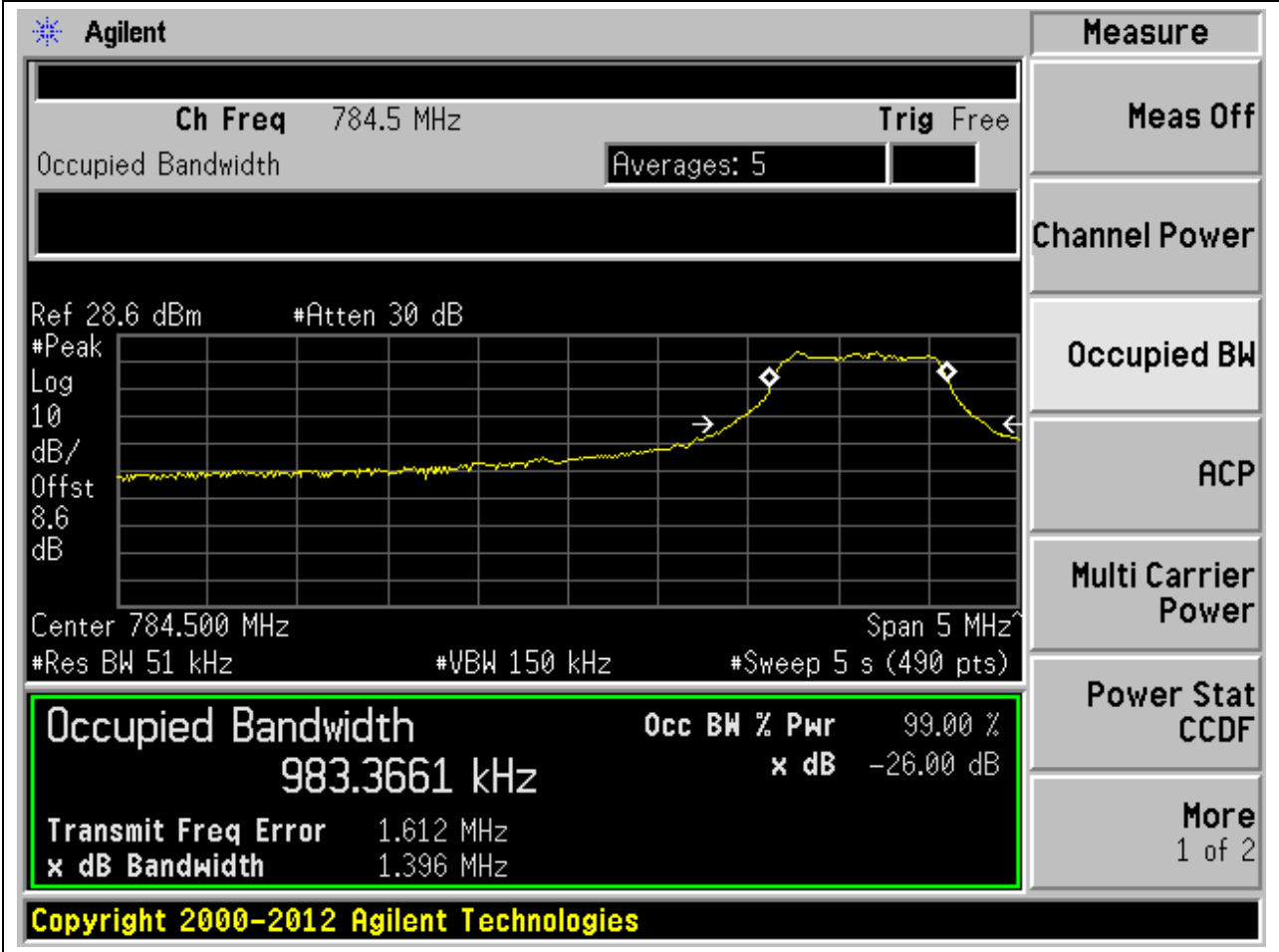
9.5. LTE-M1 Occupied Bandwidth(NTNV)_Band13_QPSK_5MHz_6@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 784.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.135473 | 1.460067 | Pass |



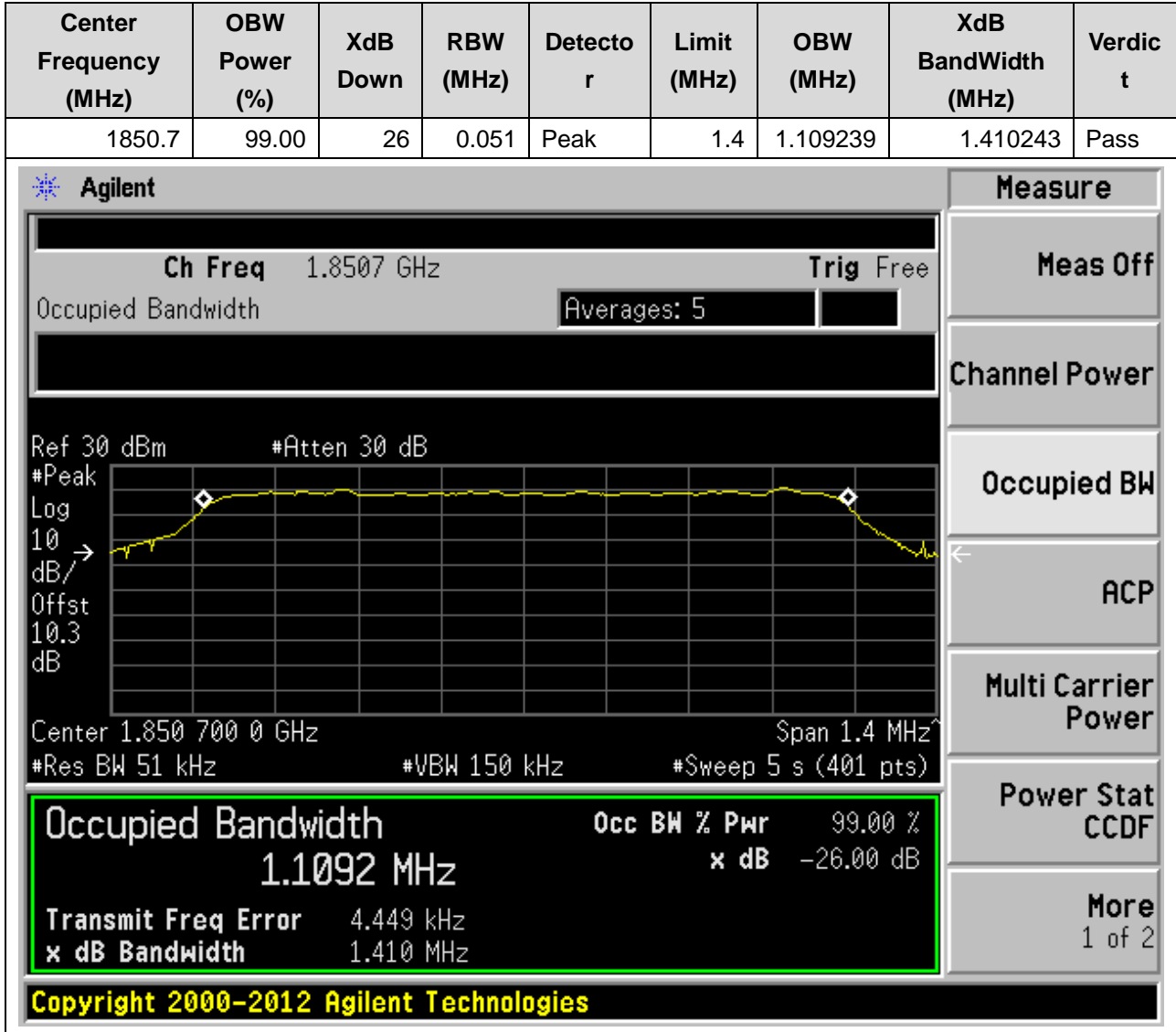
9.6. LTE-M1 Occupied Bandwidth(NTNV)_Band13_16QAM_5MHz_5@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 784.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.983366 | 1.395988 | Pass |



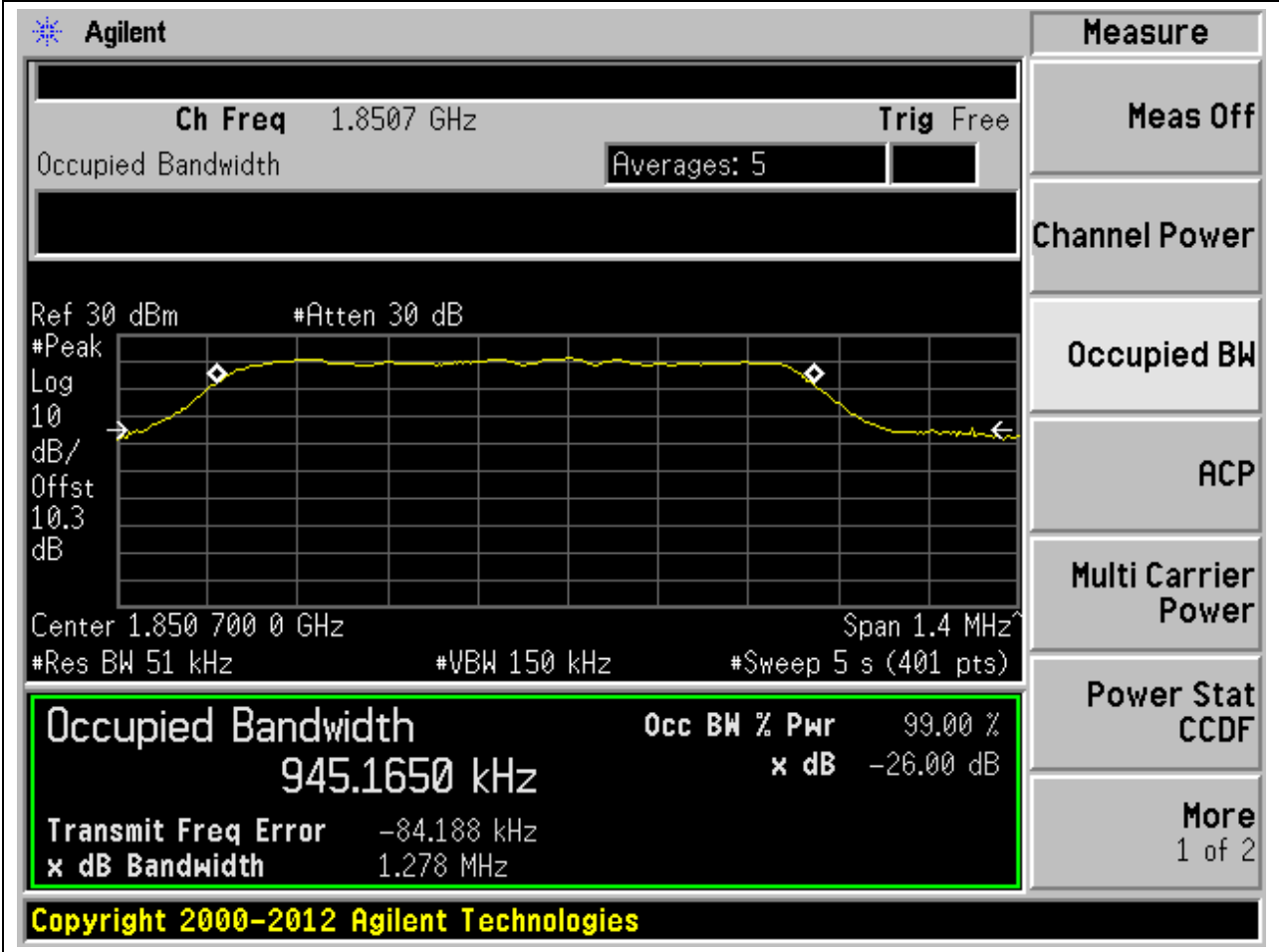
10. LTE-M1 Band25

10.1. LTE-M1 Occupied Bandwidth(NTNV)_Band25_QPSK_1.4MHz_6@0_Index low_Low



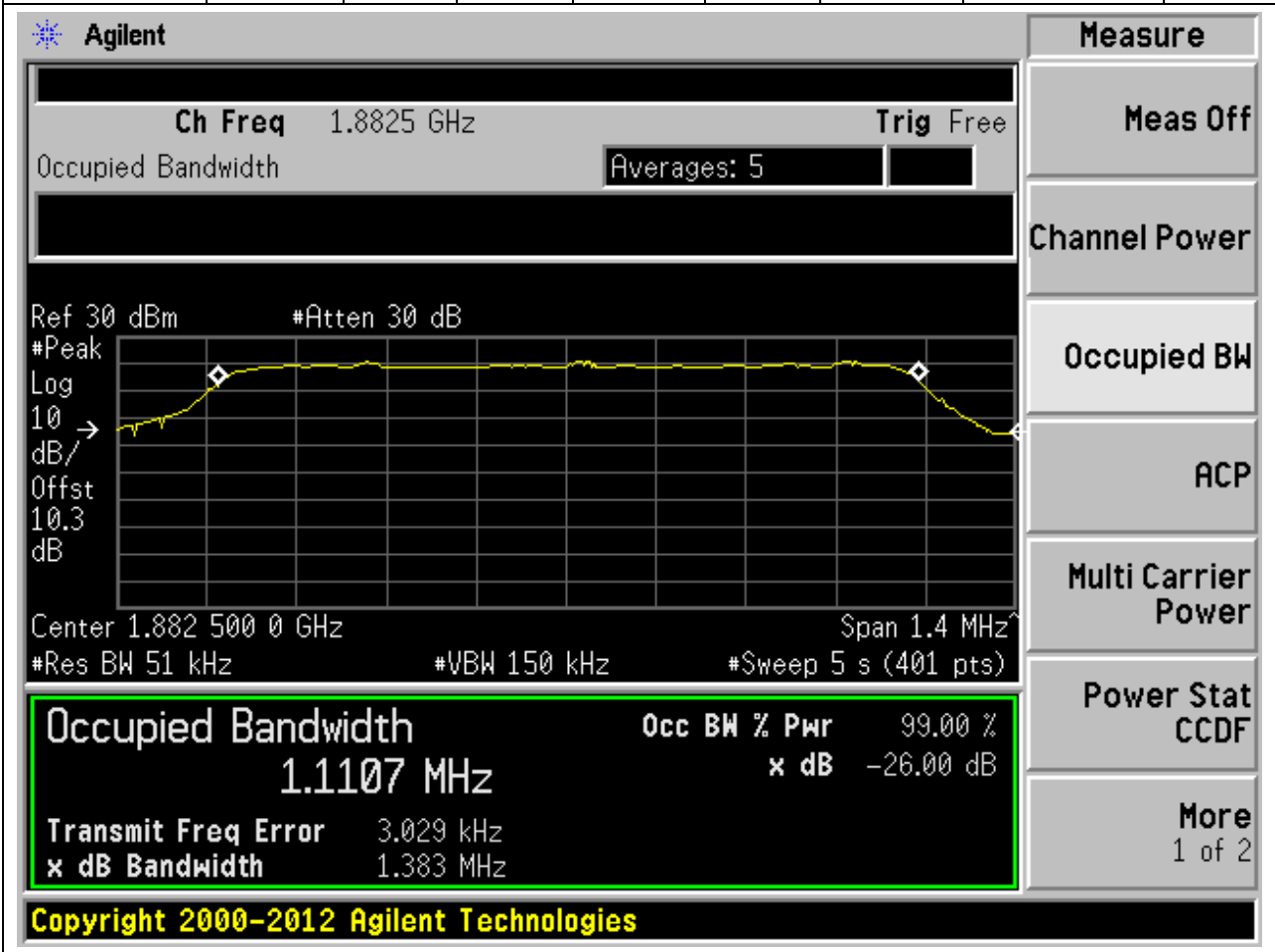
10.2. LTE-M1 Occupied Bandwidth(NTNV)_Band25_16QAM_1.4MHz_5@0_Index low_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1850.7 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.945165 | 1.2779 | Pass |



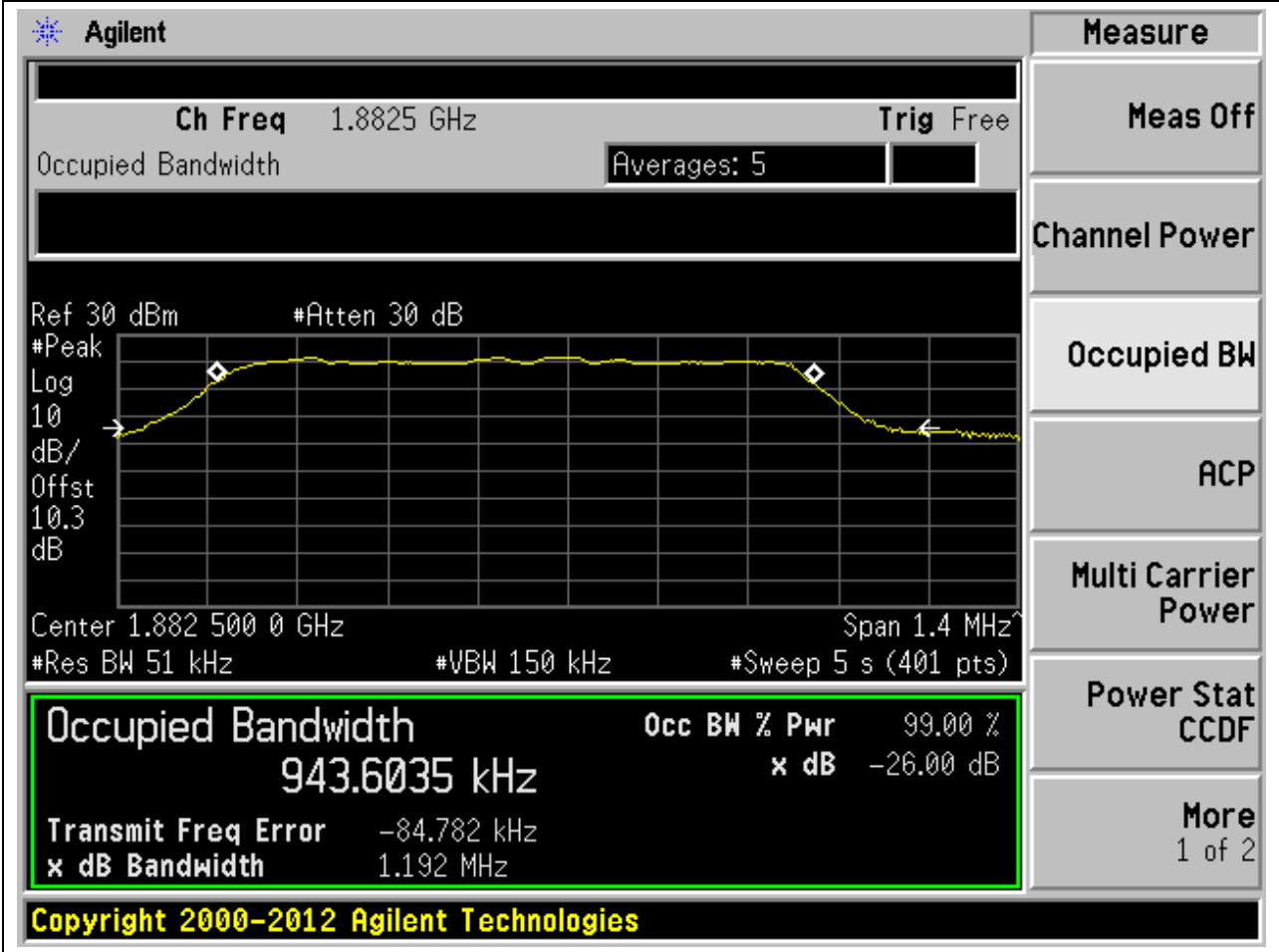
10.3. LTE-M1 Occupied Bandwidth(NTNV)_Band25_QPSK_1.4MHz_6@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1882.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.110654 | 1.383334 | Pass |



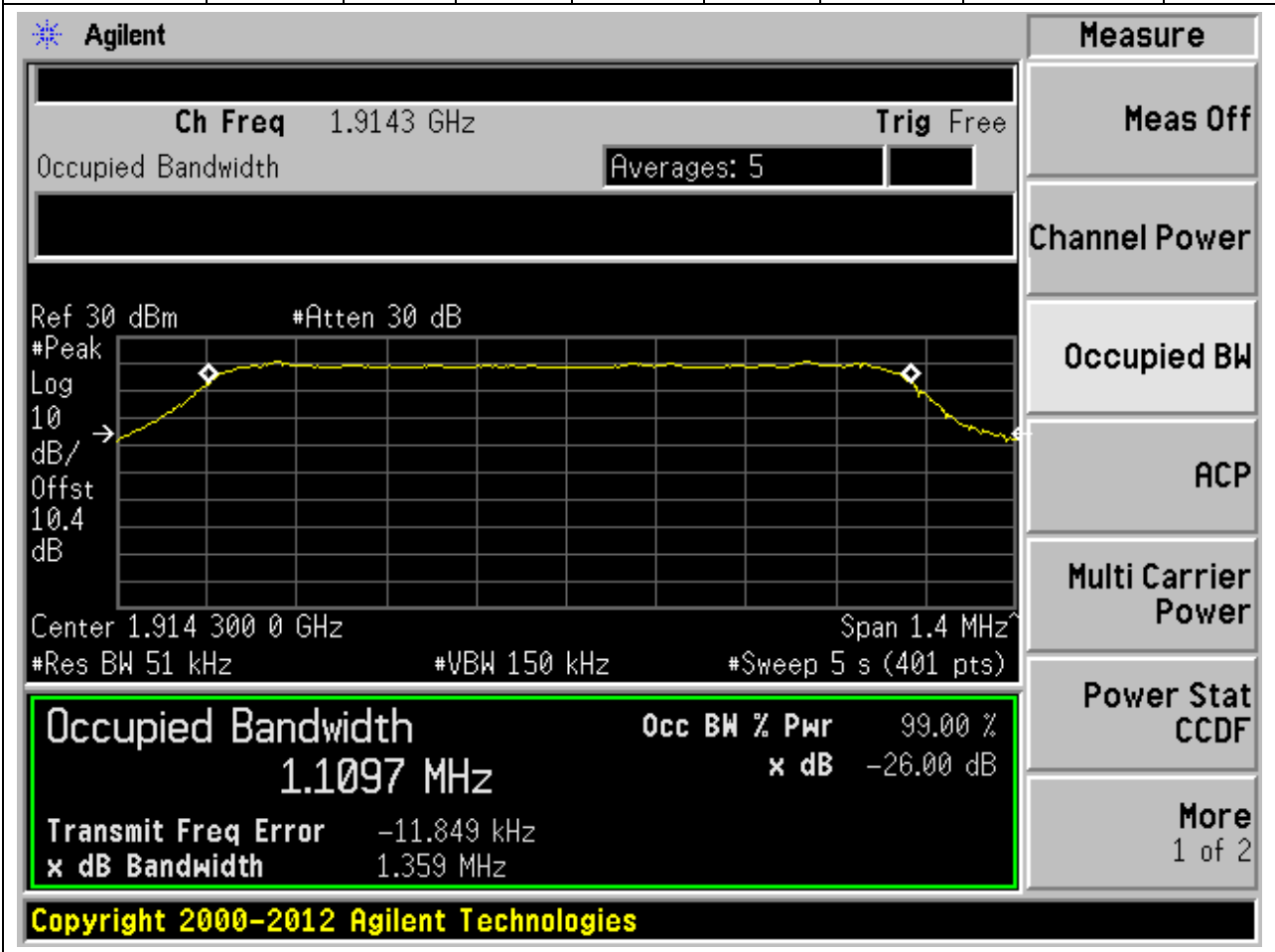
10.4. LTE-M1 Occupied Bandwidth(NTNV)_Band25_16QAM_1.4MHz_5@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1882.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.943604 | 1.19151 | Pass |



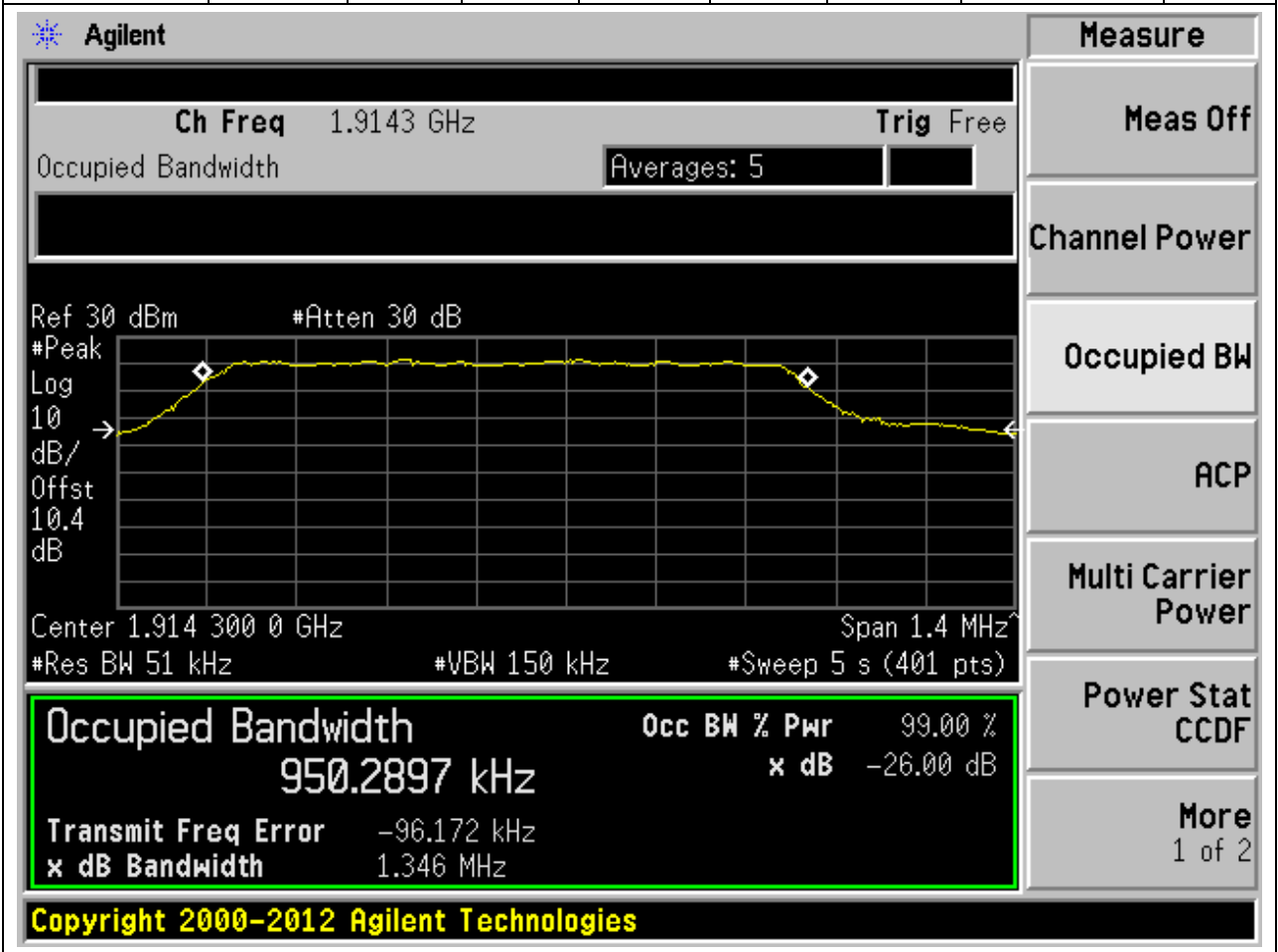
10.5. LTE-M1 Occupied Bandwidth(NTNV)_Band25_QPSK_1.4MHz_6@0_Index low_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1914.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.109689 | 1.358671 | Pass |



10.6. LTE-M1 Occupied Bandwidth(NTNV)_Band25_16QAM_1.4MHz_5@0_Index low_High

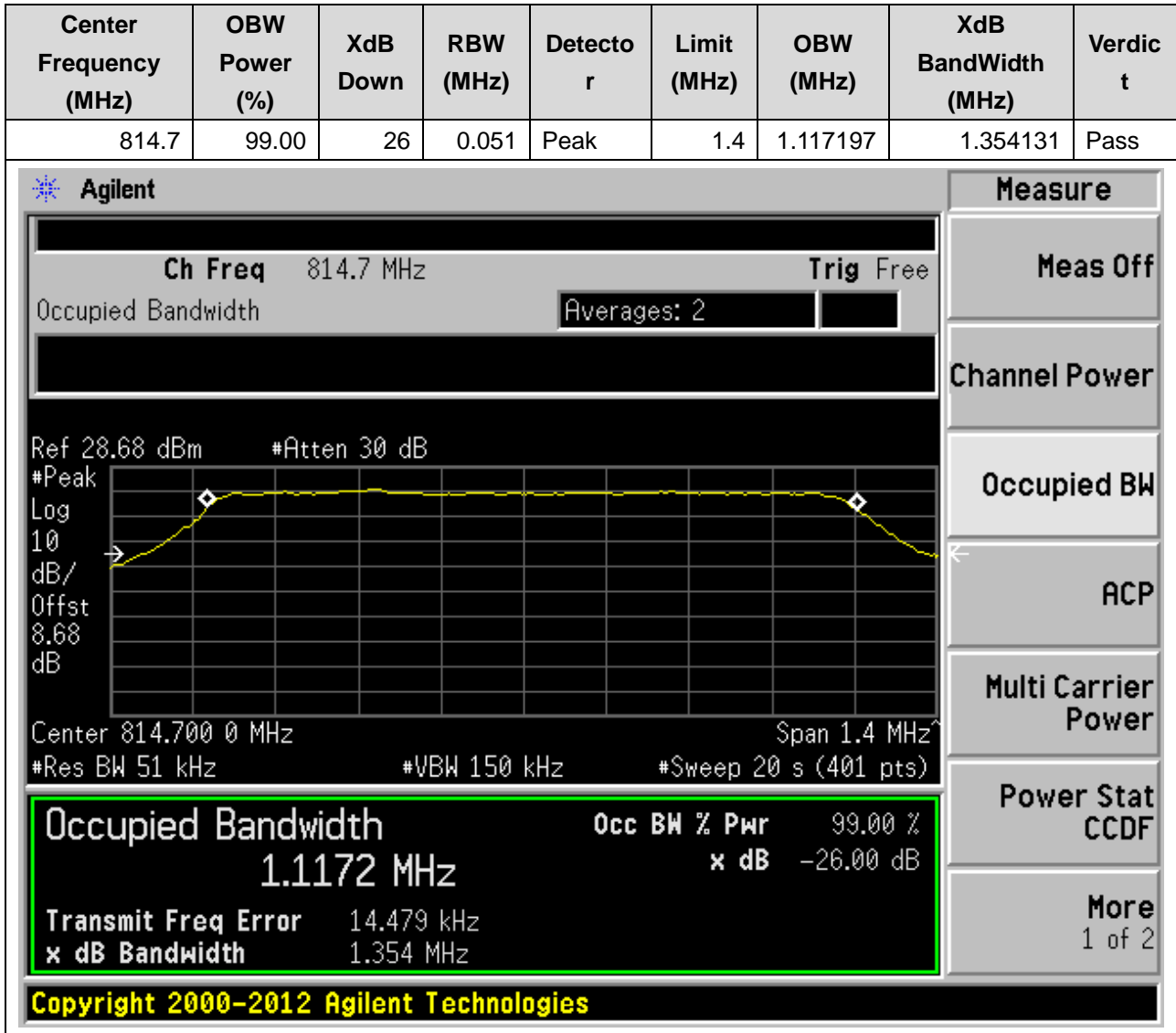
| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1914.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.95029 | 1.346428 | Pass |



11. LTE-M1 Band26(Part90)

11.1. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part90)_QPSK_1.4MHz_6@0_Index low_Low



11.2 LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part90)_16QAM_1.4MHz_5@0_Index low_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 814.7 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.941618 | 1.185452 | Pass |

Agilent

Ch Freq 814.7 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.68 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.68 dB

Center 814.700 0 MHz Span 1.4 MHz

#Res BW 51 kHz #VBW 150 kHz #Sweep 20 s (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

941.6176 kHz x dB -26.00 dB

Transmit Freq Error -85.446 kHz

x dB Bandwidth 1.185 MHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

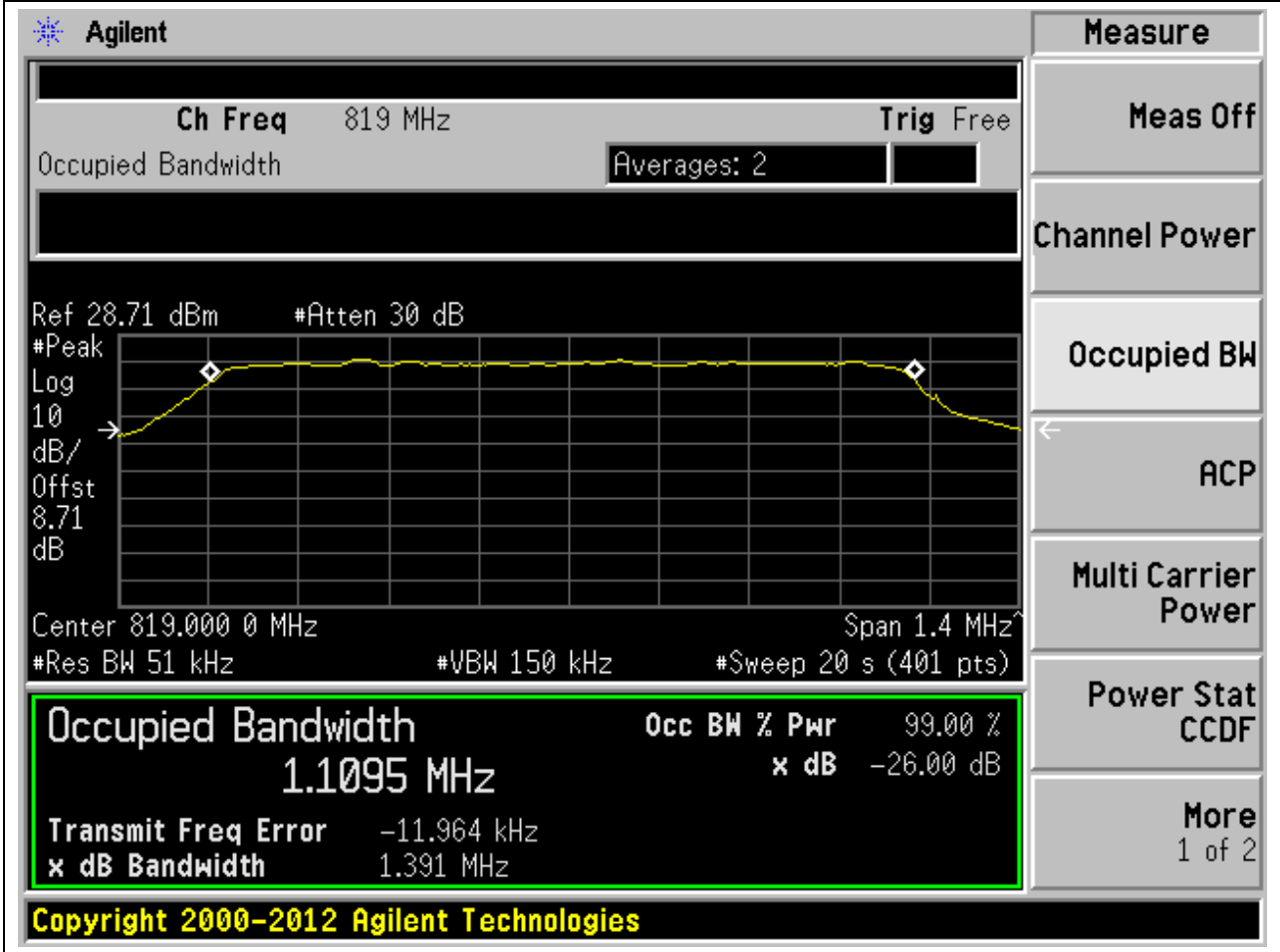
Power Stat CCDF

More 1 of 2

11.3. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part90)_QPSK_1.4MHz_6@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 819 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.109474 | 1.391261 | Pass |



11.4. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part90)_16QAM_1.4MHz_5@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 819 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.943164 | 1.279409 | Pass |

Agilent

Ch Freq 819 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.71 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.71 dB

Center 819.000 0 MHz Span 1.4 MHz

#Res BW 51 kHz #VBW 150 kHz #Sweep 20 s (401 pts)

| | | |
|----------------------------|---------------------|-------------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 943.1643 kHz | x dB | -26.00 dB |
| Transmit Freq Error | | -93.050 kHz |
| x dB Bandwidth | | 1.279 MHz |

Measure

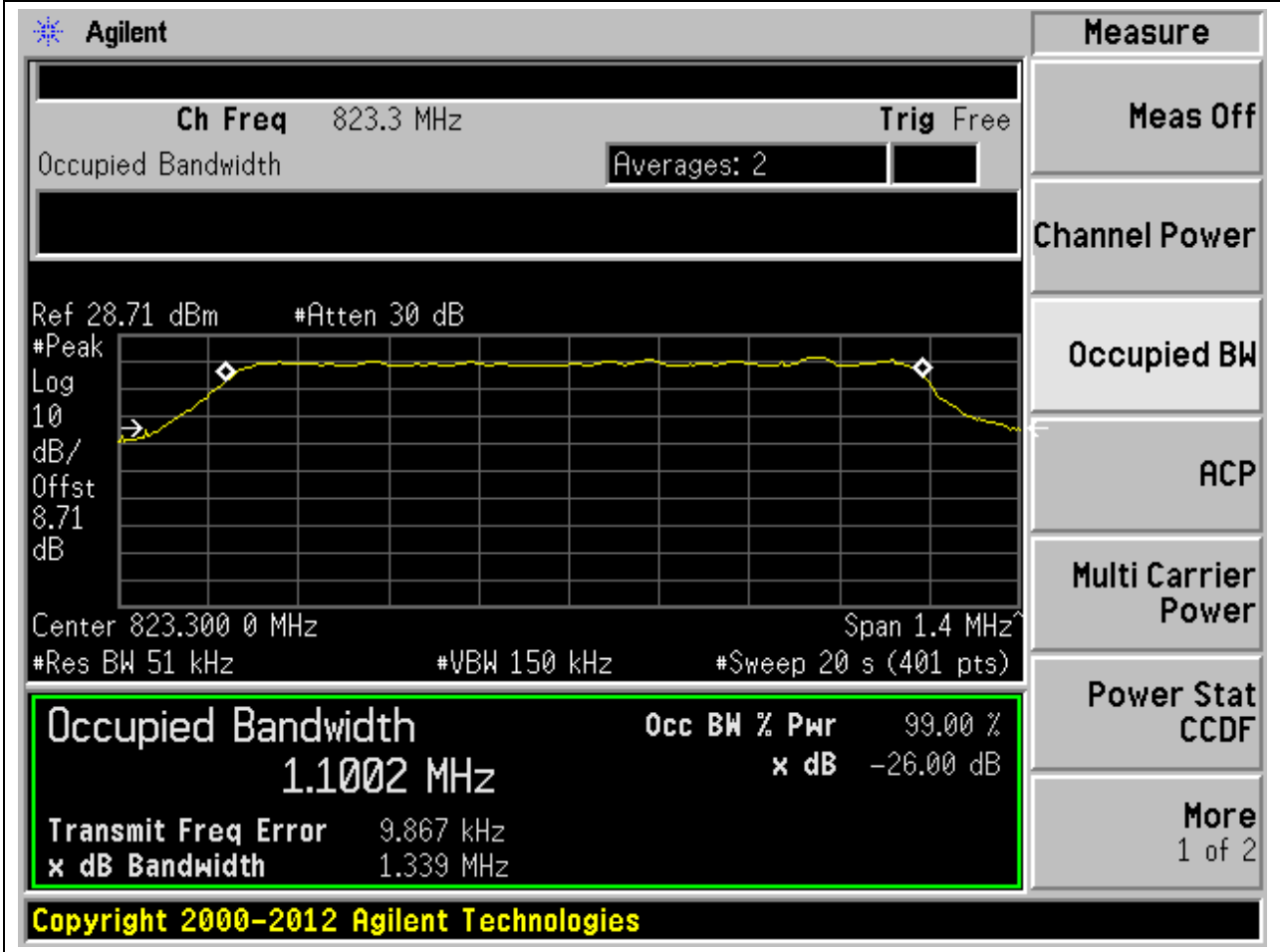
- Meas Off
- Channel Power
- Occupied BW
- ACP
- Multi Carrier Power
- Power Stat CCDF
- More 1 of 2

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11.5. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part90)_QPSK_1.4MHz_6@0_Index low_High

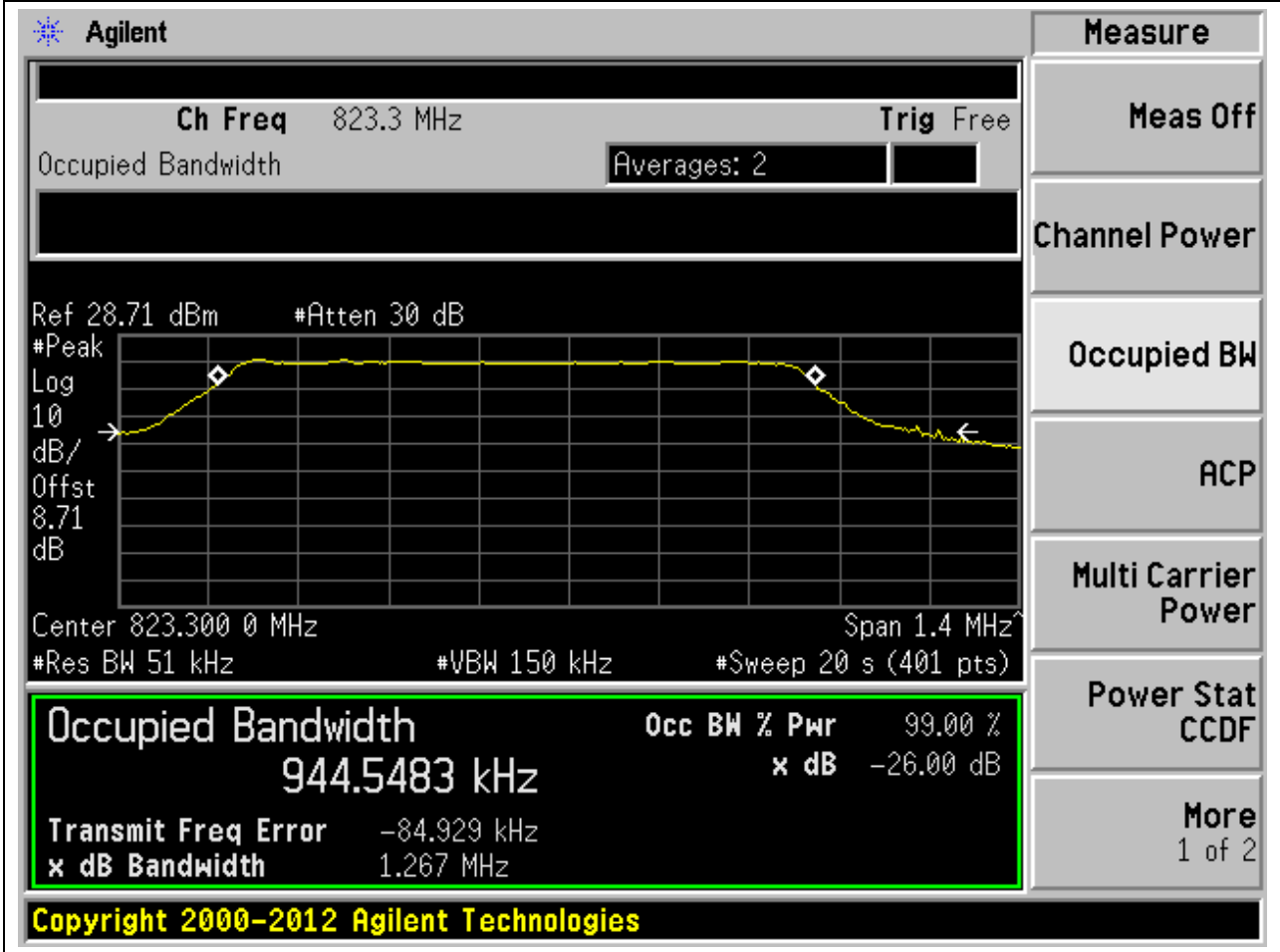
| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 823.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.100247 | 1.339496 | Pass |



11.6. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part90)_16QAM_1.4MHz_5@0_Index low_High

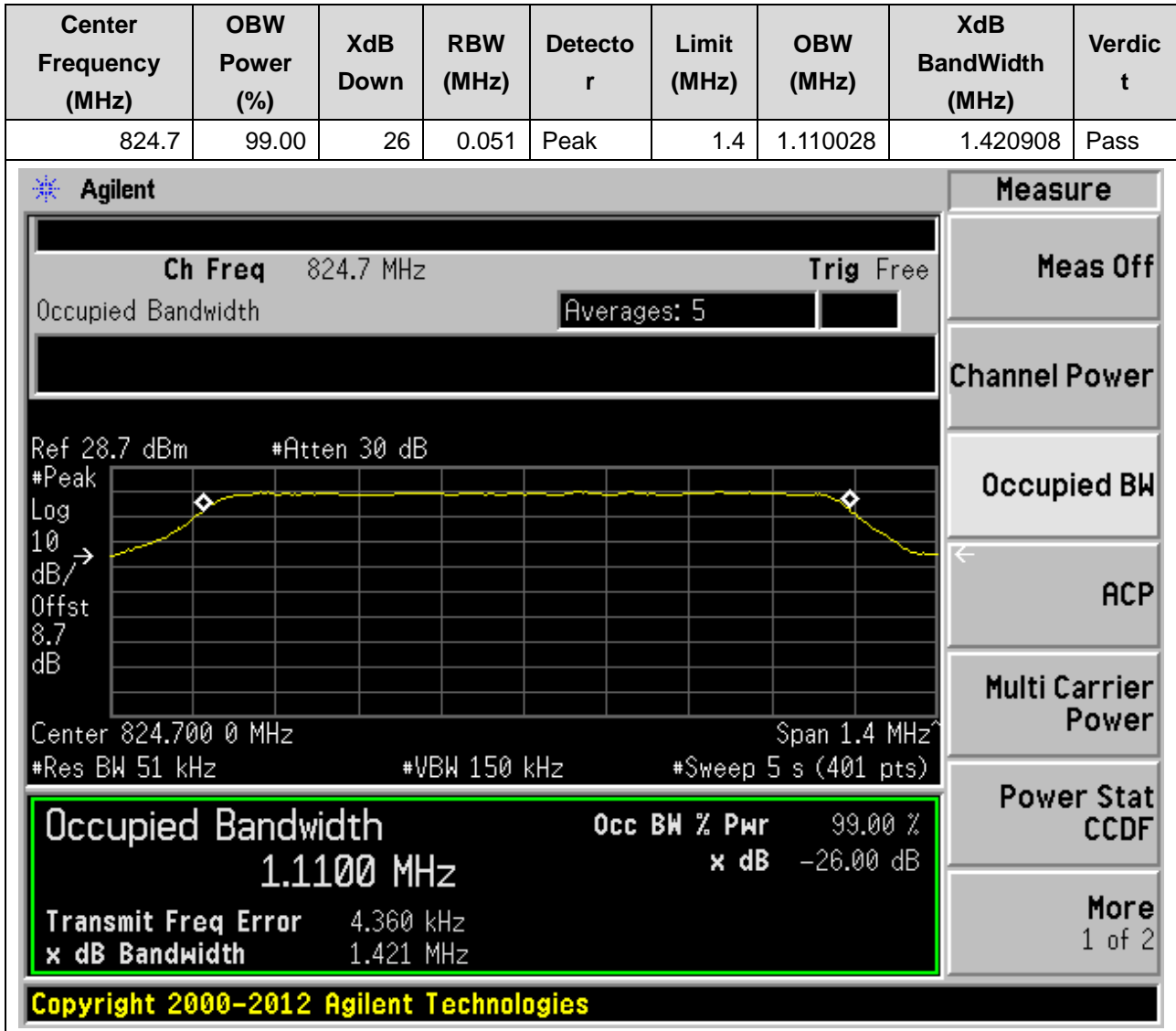
| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 823.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.944548 | 1.267357 | Pass |



12. LTE-M1 Band26(Part22)

12.1. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part22)_QPSK_1.4MHz_6@0_Index low_Low



12.2. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part22)_16QAM_1.4MHz_5@0_Index low_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 824.7 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.946746 | 1.258055 | Pass |

Agilent

Ch Freq 824.7 MHz Trig Free

Occupied Bandwidth Averages: 5

Ref 28.7 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.7 dB

Center 824.700 0 MHz Span 1.4 MHz

#Res BW 51 kHz #VBW 150 kHz #Sweep 5 s (401 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 946.7462 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -84.550 kHz | |
| x dB Bandwidth | 1.258 MHz | |

Measure

- Meas Off
- Channel Power
- Occupied BW
- ACP
- Multi Carrier Power
- Power Stat CCDF
- More 1 of 2

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12.3. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part22)_QPSK_1.4MHz_6@0_Index low_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.109292 | 1.351128 | Pass |

Agilent

Ch Freq 836.5 MHz Trig Free

Occupied Bandwidth Averages: 5

Ref 28.73 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.73 dB

Center 836.500 0 MHz Span 1.4 MHz

#Res BW 51 kHz #VBW 150 kHz #Sweep 5 s (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

1.1093 MHz x dB -26.00 dB

Transmit Freq Error 5.371 kHz

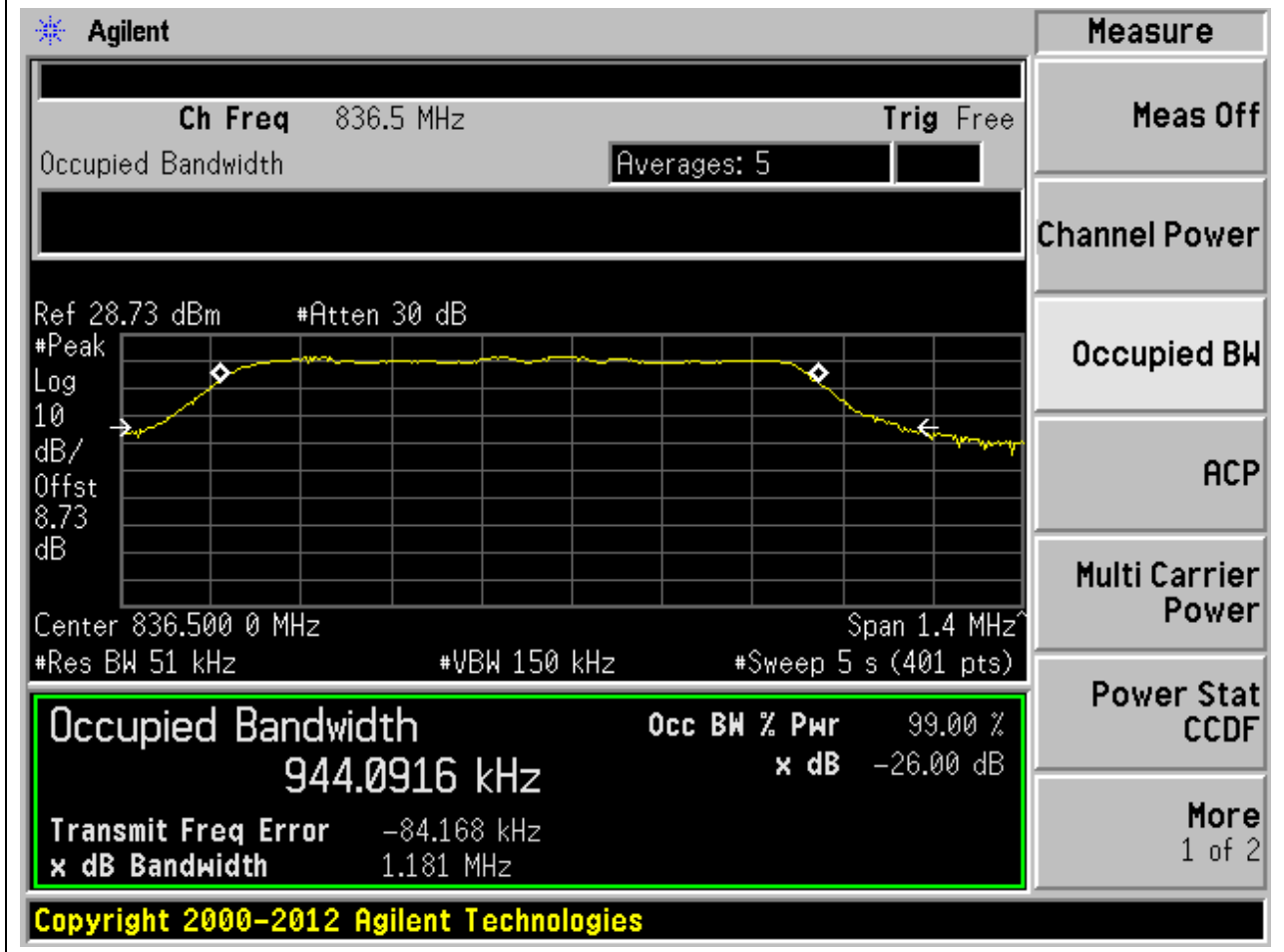
x dB Bandwidth 1.351 MHz

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12.4. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part22)_16QAM_1.4MHz_5@0_Index low_Mid

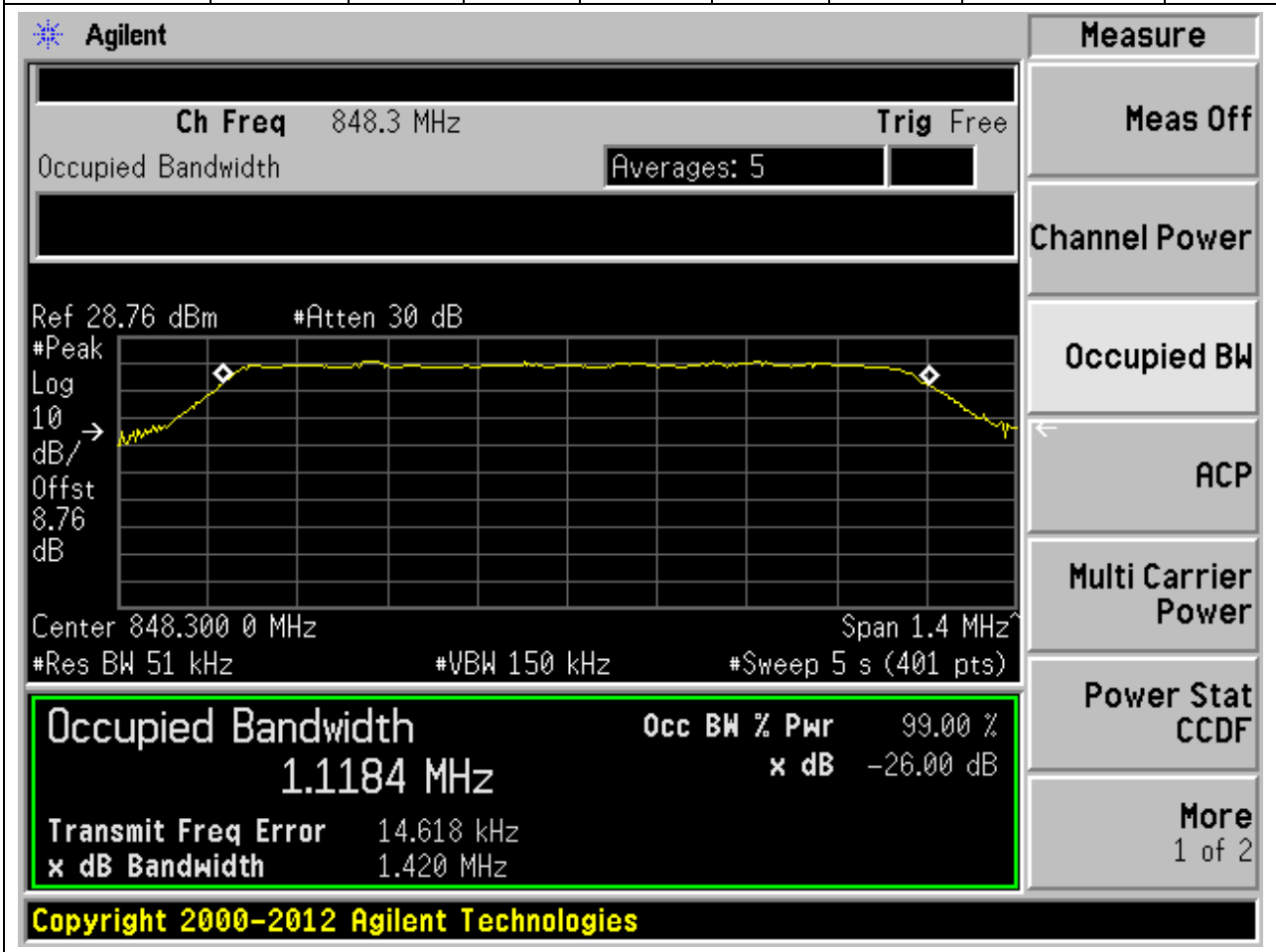
| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.944092 | 1.18147 | Pass |



12.5. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part22)_QPSK_1.4MHz_6@0_Index low_High

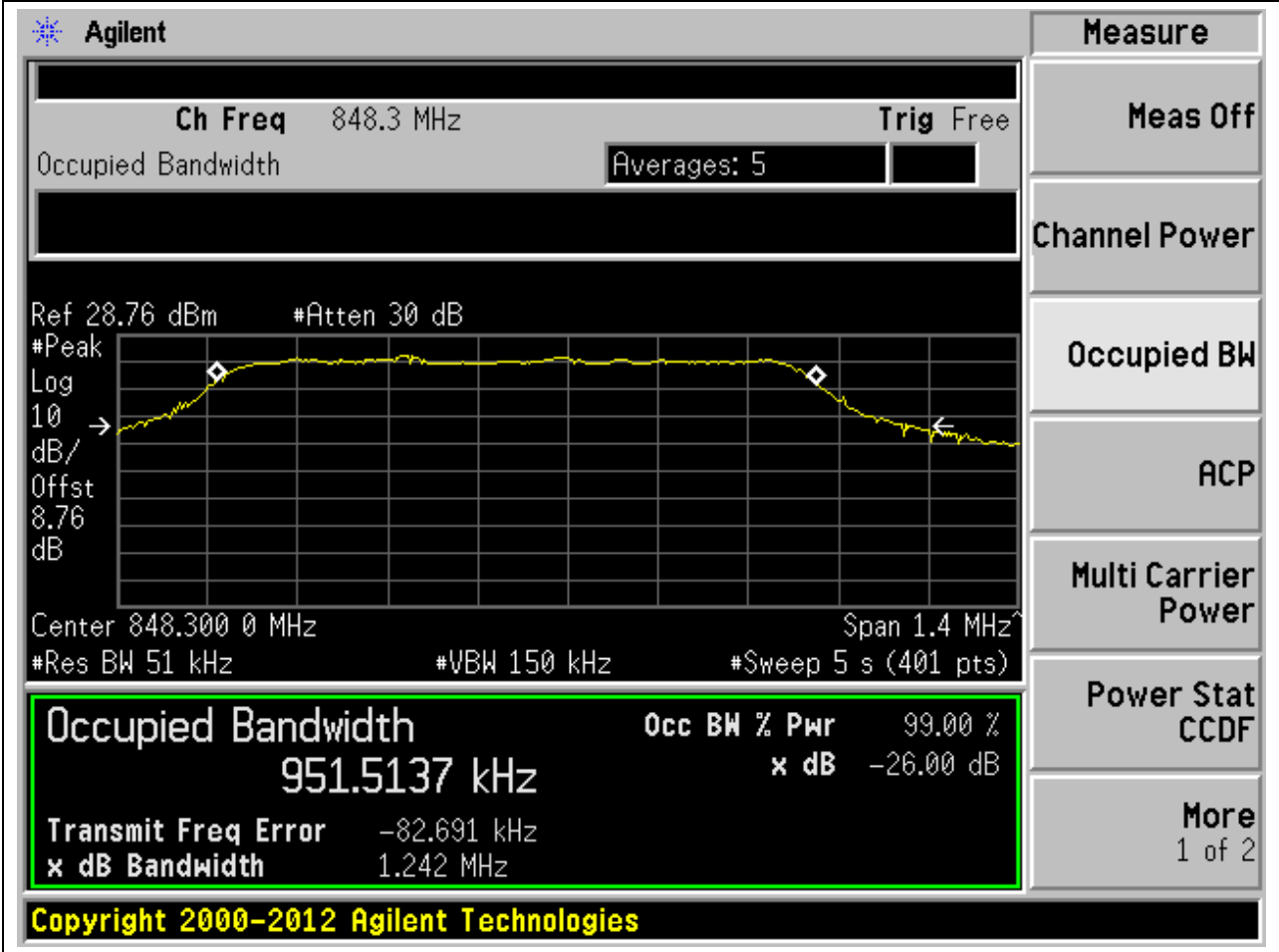
| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 1.11842 | 1.420023 | Pass |



12.6. LTE-M1 Occupied

Bandwidth(NTNV)_Band26(Part22)_16QAM_1.4MHz_5@0_Index low_High

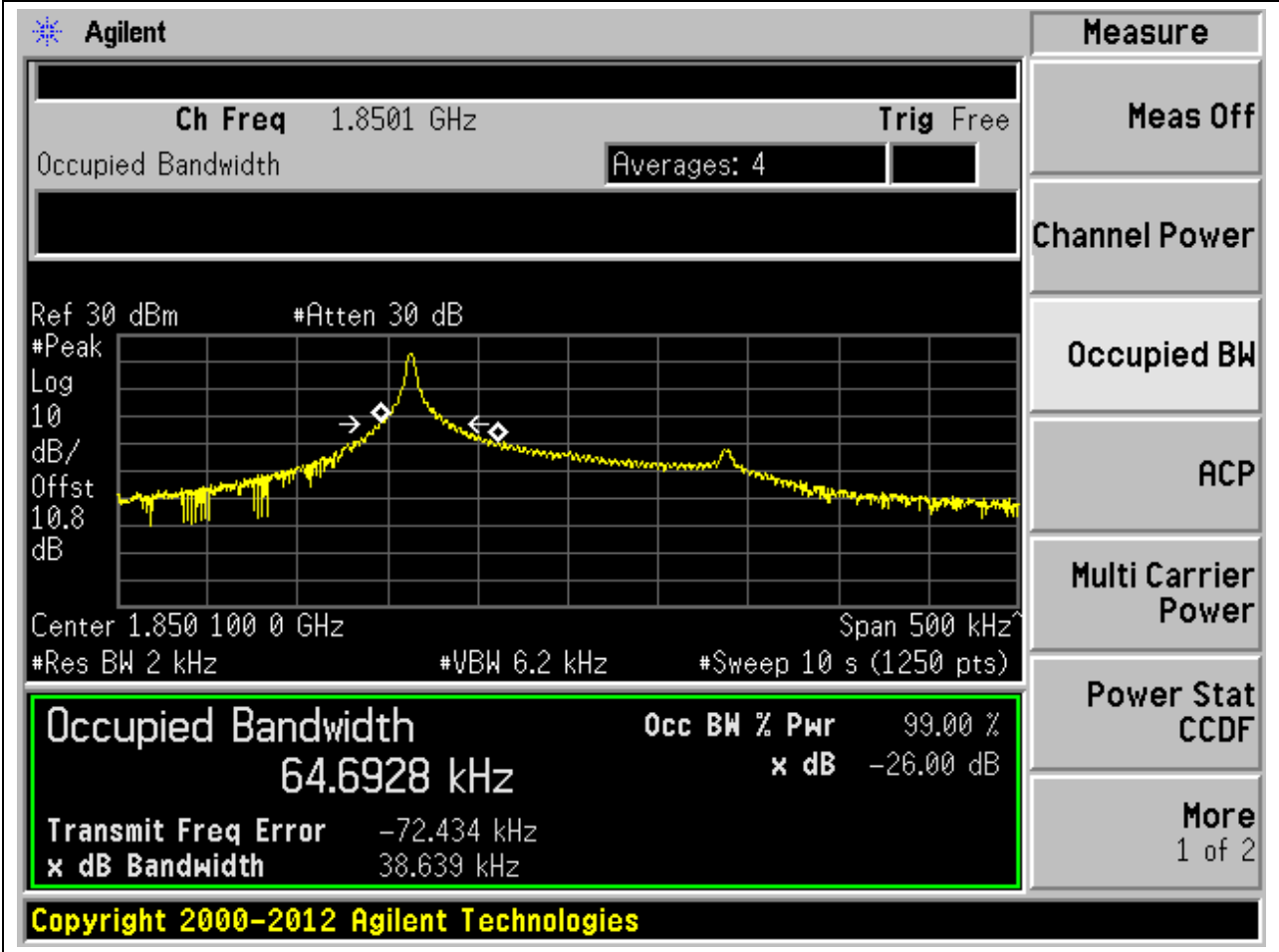
| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.3 | 99.00 | 26 | 0.051 | Peak | 1.4 | 0.951514 | 1.242299 | Pass |



13. NB-IOT Band2

13.1. NB-IoT Occupied Bandwidth(NTNV) _Band2_QPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1850.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.064693 | 0.038639 | Pass |



13.2. NB-IoT Occupied Bandwidth(NTNV)_Band2_BPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1850.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.056194 | 0.036845 | Pass |

Agilent

Ch Freq 1.8501 GHz Trig Free

Occupied Bandwidth Averages: 4

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.8 dB

Center 1.850 100 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 56.1941 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -76.212 kHz | |
| x dB Bandwidth | 36.845 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

13.3. NB-IoT Occupied Bandwidth(NTNV) _Band2_QPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1880 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.062381 | 0.041003 | Pass |

Agilent

Ch Freq 1.88 GHz Trig Free

Occupied Bandwidth Averages: 4

Ref 30 dBm #Atten 30 dB

Center 1.880 000 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

62.3815 kHz x dB -26.00 dB

Transmit Freq Error -73.375 kHz

x dB Bandwidth 41.003 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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13.4. NB-IoT Occupied Bandwidth(NTNV) _Band2_BPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1880 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.054194 | 0.03675 | Pass |

Agilent

Ch Freq 1.88 GHz Trig Free

Occupied Bandwidth Averages: 4

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.8 dB

Center 1.880 000 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 54.1939 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -76.789 kHz | |
| x dB Bandwidth | 36.750 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

13.5. NB-IoT Occupied Bandwidth(NTNV) _Band2_QPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1909.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.065673 | 0.038164 | Pass |

Agilent

Ch Freq 1.9099 GHz Trig Free

Occupied Bandwidth Averages: 4

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.9 dB

Center 1.909 900 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | |
|--|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 65.6735 kHz | x dB -26.00 dB |
| Transmit Freq Error -71.544 kHz | |
| x dB Bandwidth 38.164 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

13.6. NB-IoT Occupied Bandwidth(NTNV) _Band2_BPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1909.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.055796 | 0.03649 | Pass |

Agilent

Ch Freq 1.9099 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.9 dB

Center 1.909 900 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 55.7958 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -76.514 kHz | |
| x dB Bandwidth | 36.490 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

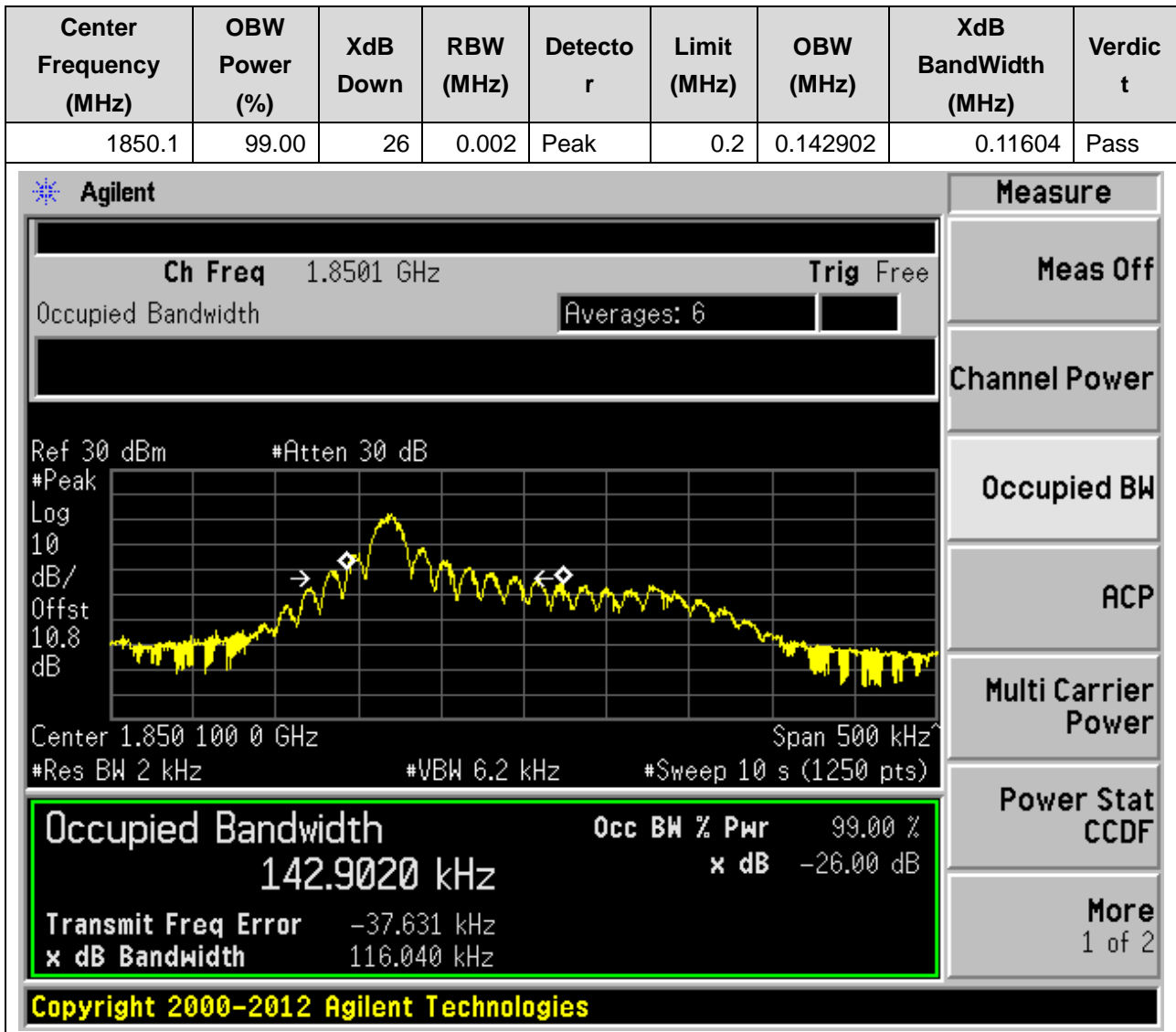
ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

13.7. NB-IoT Occupied Bandwidth(NTNV) _Band2_QPSK_15kHz_1@0_Low



13.8. NB-IoT Occupied Bandwidth(NTNV) _Band2_QPSK_15kHz_12@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1850.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.188088 | 0.247849 | Pass |

Agilent

Ch Freq 1.8501 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.8 dB

Center 1.850 100 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|---------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 188.0882 kHz | x dB | -26.00 dB |
| Transmit Freq Error | 2.521 kHz | |
| x dB Bandwidth | 247.849 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

13.9. NB-IoT Occupied Bandwidth(NTNV) _Band2_BPSK_15kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1850.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.133763 | 0.107167 | Pass |

Agilent

Ch Freq 1.8501 GHz Trig Free

Occupied Bandwidth Averages: 6

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.8 dB

Center 1.850 100 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

133.7633 kHz x dB -26.00 dB

Transmit Freq Error -42.913 kHz

x dB Bandwidth 107.167 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

13.10. NB-IoT Occupied Bandwidth(NTNV) _Band2_QPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1880 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.126746 | 0.125135 | Pass |

Agilent

Ch Freq 1.88 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.8 dB

Center 1.880 000 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 126.7464 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -43.745 kHz | |
| x dB Bandwidth | 125.135 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

13.11. NB-IoT Occupied Bandwidth(NTNV) _Band2_QPSK_15kHz_12@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1880 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.186077 | 0.247893 | Pass |

Agilent

Ch Freq 1.88 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.8 dB

Center 1.880 000 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|---------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 186.0771 kHz | x dB | -26.00 dB |
| Transmit Freq Error | 254.622 Hz | |
| x dB Bandwidth | 247.893 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

13.12. NB-IoT Occupied Bandwidth(NTNV) _Band2_BPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1880 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.153881 | 0.16606 | Pass |

Agilent

Ch Freq 1.88 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.8 dB

Center 1.880 000 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 153.8805 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -32.106 kHz | |
| x dB Bandwidth | 166.060 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

13.13. NB-IoT Occupied Bandwidth(NTNV) _Band2_QPSK_15kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1909.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.131238 | 0.116445 | Pass |

Agilent

Ch Freq 1.9099 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.9 dB

Center 1.909 900 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

131.2383 kHz x dB -26.00 dB

Transmit Freq Error -41.621 kHz

x dB Bandwidth 116.445 kHz

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Measure

Meas Off

Channel Power

Occupied BW

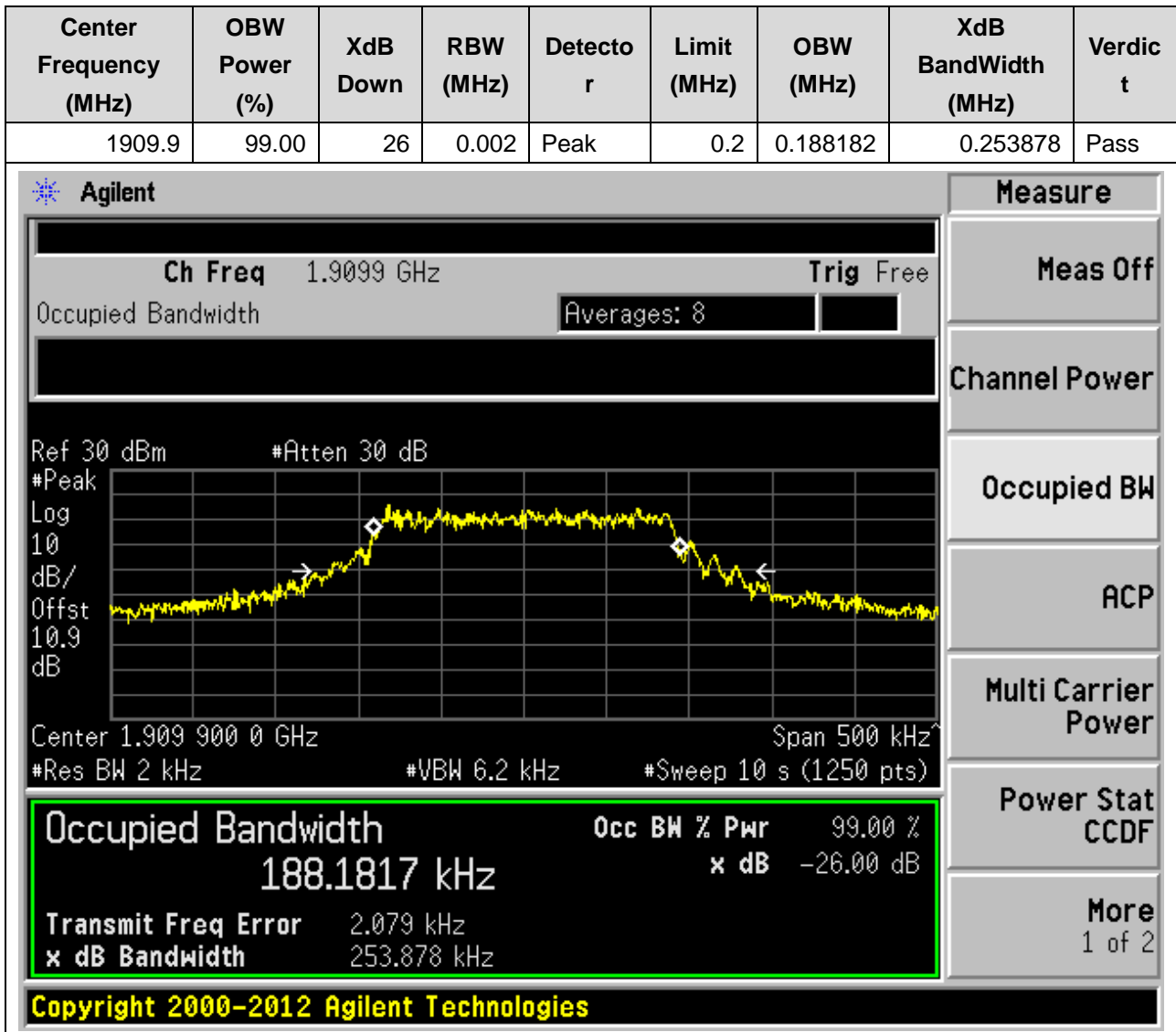
ACP

Multi Carrier Power

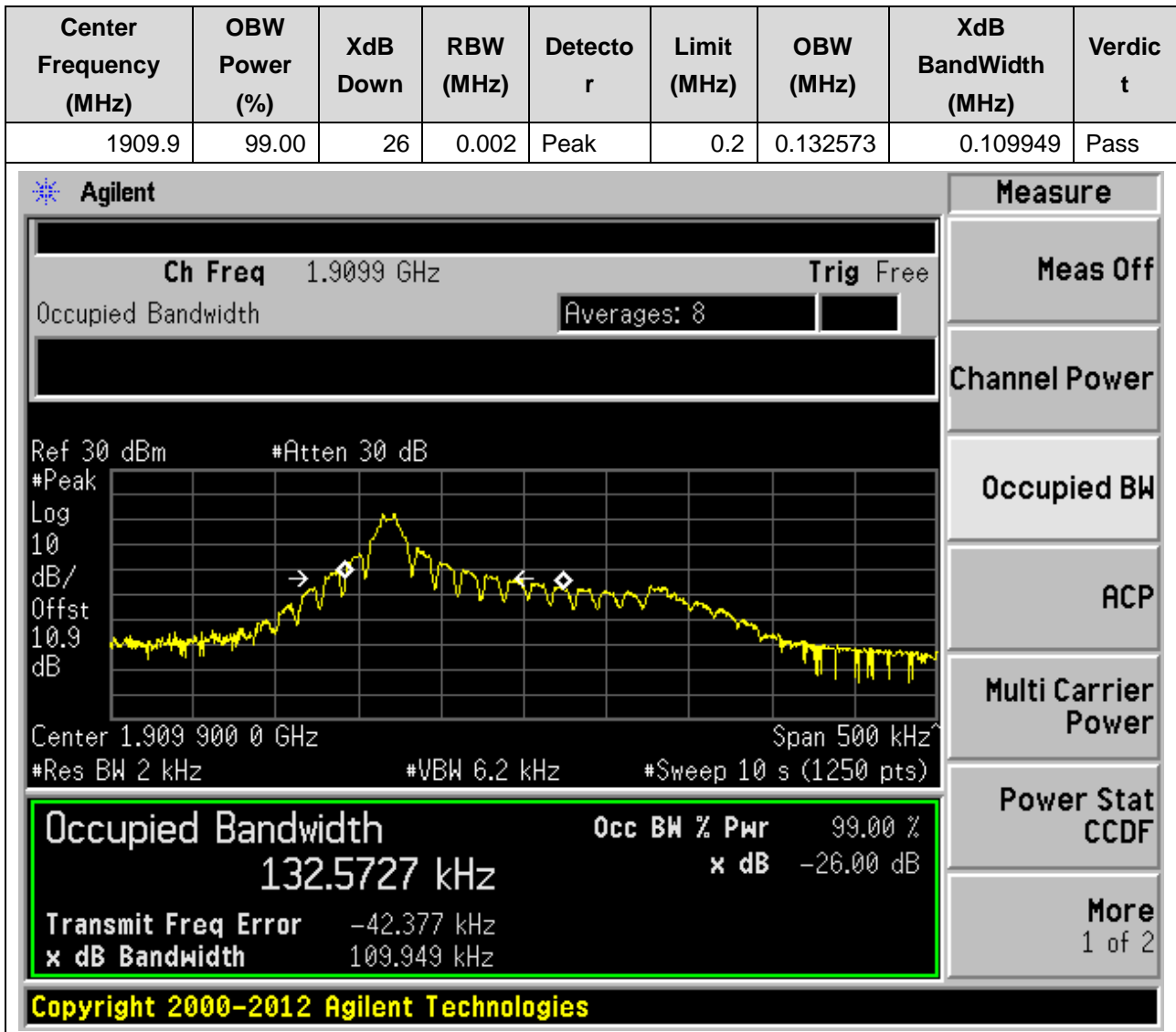
Power Stat CCDF

More
1 of 2

13.14. NB-IoT Occupied Bandwidth(NTNV) _Band2_QPSK_15kHz_12@0_High



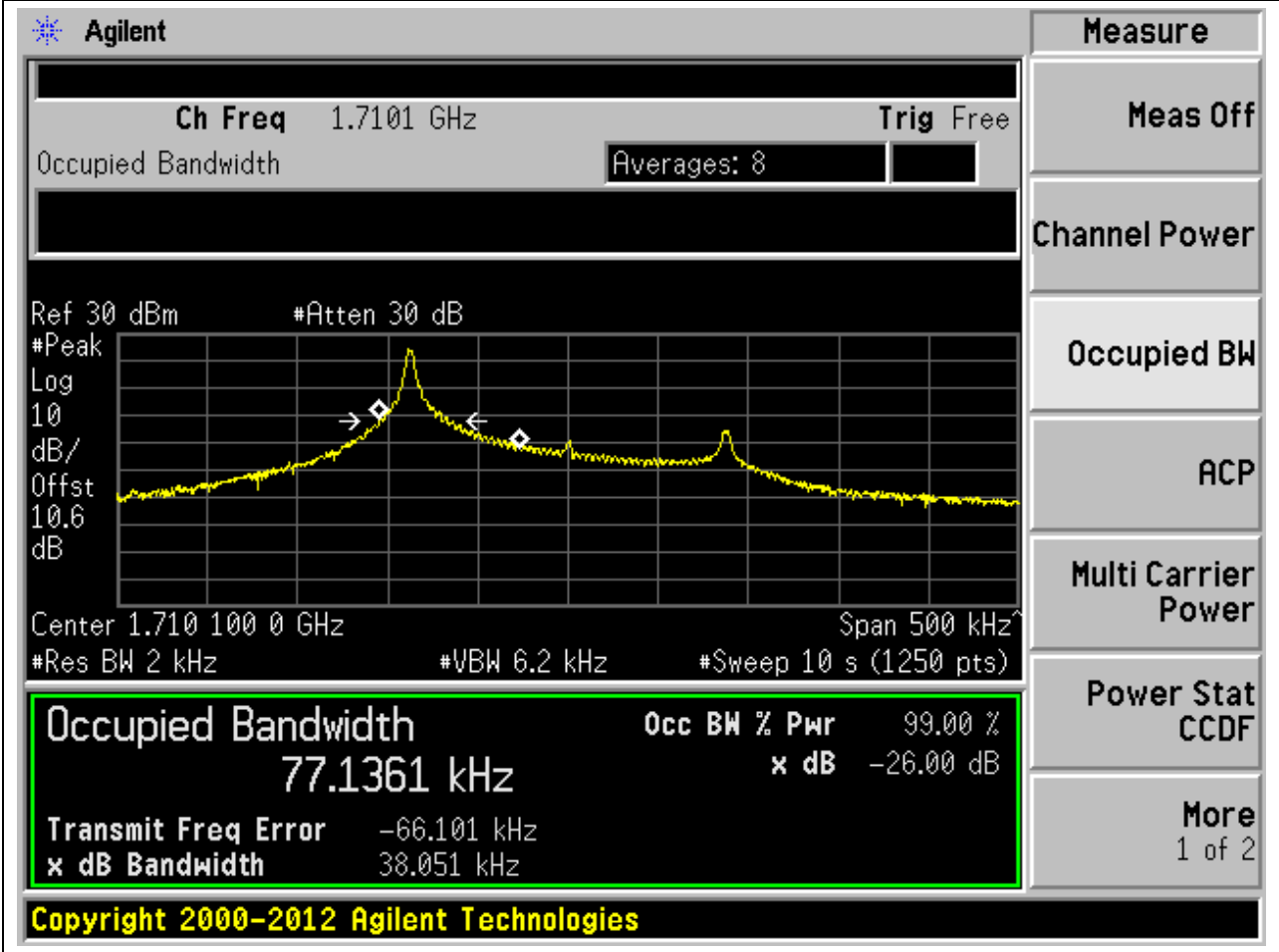
13.15. NB-IoT Occupied Bandwidth(NTNV) _Band2_BPSK_15kHz_1@0_High



14. NB-IOT Band4

14.1. NB-IoT Occupied Bandwidth(NTNV) _Band4_QPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1710.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.077136 | 0.038051 | Pass |



14.2. NB-IoT Occupied Bandwidth(NTNV) _Band4_BPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1710.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.067894 | 0.036426 | Pass |

Agilent

Ch Freq 1.7101 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.6 dB

Center 1.710 100 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 67.8939 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -70.396 kHz | |
| x dB Bandwidth | 36.426 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

14.3. NB-IoT Occupied Bandwidth(NTNV) _Band4_QPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1732.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.077675 | 0.040271 | Pass |

Agilent

Ch Freq 1.7325 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 30 dB

Center 1.732 500 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 77.6750 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -65.703 kHz | |
| x dB Bandwidth | 40.271 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

14.4. NB-IoT Occupied Bandwidth(NTNV) _Band4_BPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1732.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.065335 | 0.036811 | Pass |

Agilent

Ch Freq 1.7325 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.7 dB

Center 1.732 500 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 65.3351 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -71.359 kHz | |
| x dB Bandwidth | 36.811 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

14.5. NB-IoT Occupied Bandwidth(NTNV) _Band4_QPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1754.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.079509 | 0.040787 | Pass |

Agilent

Ch Freq 1.7549 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.7 dB

Center 1.754 900 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 79.5089 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -64.718 kHz | |
| x dB Bandwidth | 40.787 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

14.6. NB-IoT Occupied Bandwidth(NTNV) _Band4_BPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1754.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.068687 | 0.036605 | Pass |

Agilent

Ch Freq 1.7549 GHz Trig Free

Occupied Bandwidth Averages: 8

Ref 30 dBm #Atten 30 dB

Center 1.754 900 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

68.6867 kHz x dB -26.00 dB

Transmit Freq Error -69.801 kHz

x dB Bandwidth 36.605 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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14.7. NB-IoT Occupied Bandwidth(NTNV) _Band4_QPSK_15kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1710.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.131087 | 0.103623 | Pass |

Agilent

Ch Freq 1.7101 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

Center 1.710 100 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

131.0869 kHz x dB -26.00 dB

Transmit Freq Error -43.122 kHz

x dB Bandwidth 103.623 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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14.8. NB-IoT Occupied Bandwidth(NTNV) _Band4_QPSK_15kHz_12@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1710.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.189714 | 0.24799 | Pass |

Agilent

Ch Freq 1.7101 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.6 dB

Center 1.710 100 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

189.7142 kHz x dB -26.00 dB

Transmit Freq Error 2.710 kHz

x dB Bandwidth 247.990 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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14.9. NB-IoT Occupied Bandwidth(NTNV) _Band4_BPSK_15kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1710.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.130813 | 0.107961 | Pass |

Agilent

Ch Freq 1.7101 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.6 dB

Center 1.710 100 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 130.8128 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -44.205 kHz | |
| x dB Bandwidth | 107.961 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

14.10. NB-IoT Occupied Bandwidth(NTNV) _Band4_QPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1732.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.128693 | 0.123169 | Pass |

Agilent

Ch Freq 1.7325 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.7 dB

Center 1.732 500 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 128.6929 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -43.205 kHz | |
| x dB Bandwidth | 123.169 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

14.11. NB-IoT Occupied Bandwidth(NTNV) _Band4_QPSK_15kHz_12@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1732.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.188569 | 0.249619 | Pass |

Agilent

Ch Freq 1.7325 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.7 dB

Center 1.732 500 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 188.5692 kHz | x dB | -26.00 dB |
| Transmit Freq Error | 2.615 kHz | |
| x dB Bandwidth | 249.619 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

14.12. NB-IoT Occupied Bandwidth(NTNV) _Band4_BPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1732.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.128697 | 0.110759 | Pass |

Agilent

Ch Freq 1.7325 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.7 dB

Center 1.732 500 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 128.6975 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -44.225 kHz | |
| x dB Bandwidth | 110.759 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

14.13. NB-IoT Occupied Bandwidth(NTNV) _Band4_QPSK_15kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1754.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.12509 | 0.11555 | Pass |

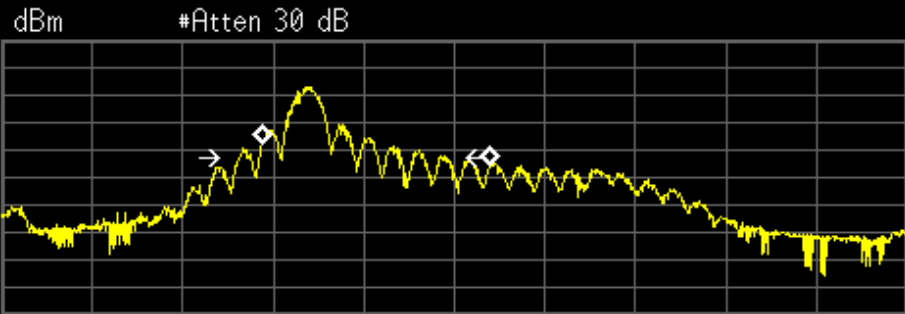
Agilent

Ch Freq 1.7549 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.7 dB



Center 1.754 900 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

125.0905 kHz x dB -26.00 dB

Transmit Freq Error -44.577 kHz

x dB Bandwidth 115.550 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

14.14. NB-IoT Occupied Bandwidth(NTNV) _Band4_QPSK_15kHz_12@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1754.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.189494 | 0.247046 | Pass |

Agilent

Ch Freq 1.7549 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.7 dB

Center 1.754 900 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 189.4942 kHz | x dB | -26.00 dB |
| Transmit Freq Error | 3.054 kHz | |
| x dB Bandwidth | 247.046 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

14.15. NB-IoT Occupied Bandwidth(NTNV) _Band4_BPSK_15kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1754.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.130208 | 0.105284 | Pass |

Agilent

Ch Freq 1.7549 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.7 dB

Center 1.754 900 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|---------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 130.2080 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -43.709 kHz | |
| x dB Bandwidth | 105.284 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

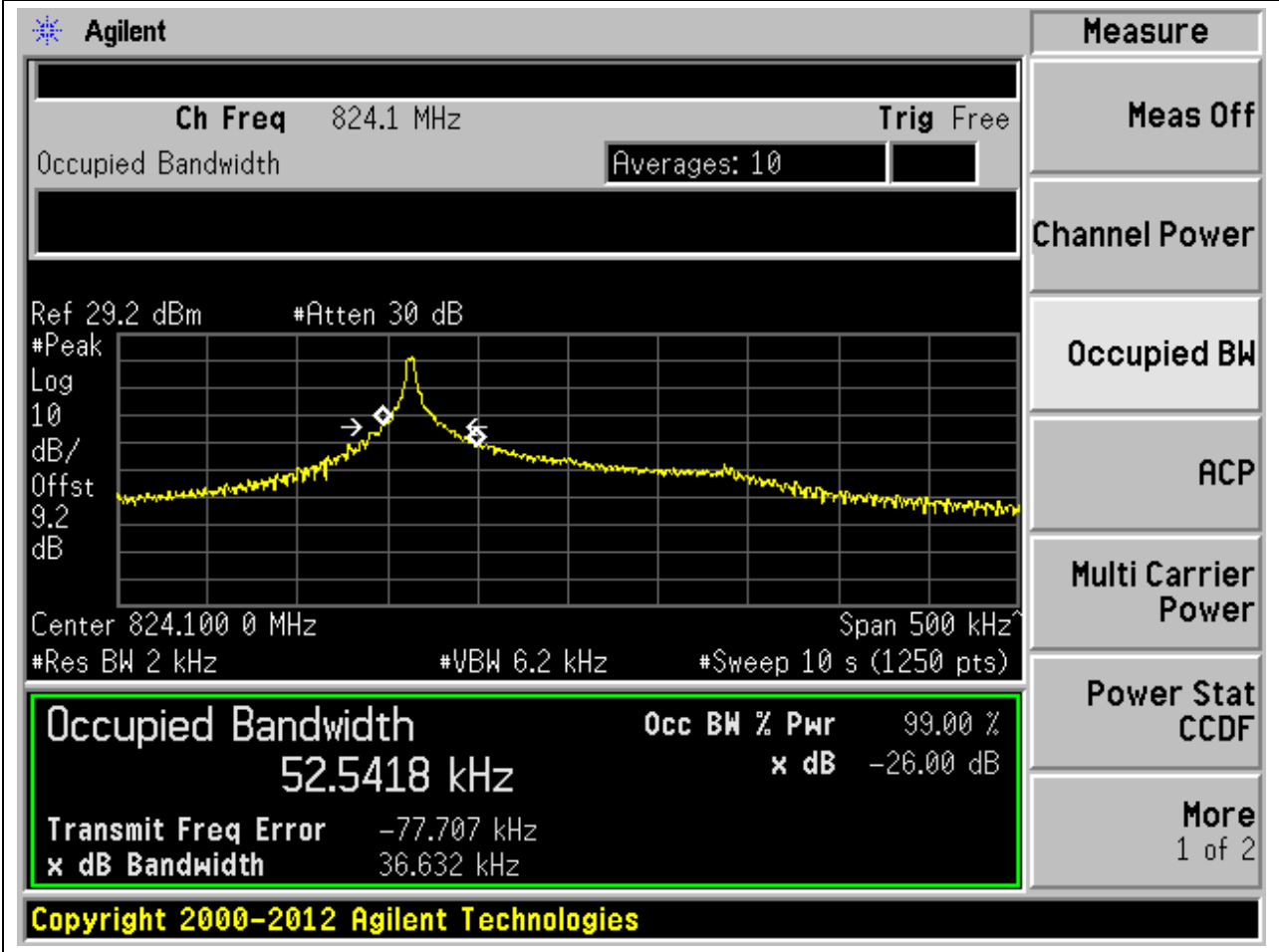
Power Stat CCDF

More 1 of 2

15. NB-IOT Band5

15.1. NB-IoT Occupied Bandwidth(NTNV) _Band5_BPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 824.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.052542 | 0.036632 | Pass |



15.2. NB-IoT Occupied Bandwidth(NTNV)_Band5_QPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 824.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.058566 | 0.037652 | Pass |

Agilent

Ch Freq 824.1 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.2 dBm #Atten 30 dB

Center 824.100 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

58.5659 kHz x dB -26.00 dB

Transmit Freq Error -74.982 kHz

x dB Bandwidth 37.652 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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15.3. NB-IoT Occupied Bandwidth(NTNV) _Band5_QPSK_15kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 824.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.119261 | 0.115326 | Pass |

Agilent

Ch Freq 824.1 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.2 dBm #Atten 30 dB

Center 824.100 0 MHz Span 500 kHz
#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

| | |
|----------------------------|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 119.2608 kHz | x dB -26.00 dB |
| Transmit Freq Error | -47.025 kHz |
| x dB Bandwidth | 115.326 kHz |

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15.4. NB-IoT Occupied Bandwidth(NTNV) _Band5_QPSK_15kHz_12@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 824.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.187634 | 0.246568 | Pass |

Agilent

Ch Freq 824.1 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.2 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.2 dB

Center 824.100 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

187.6338 kHz x dB -26.00 dB

Transmit Freq Error 2.211 kHz

x dB Bandwidth 246.568 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

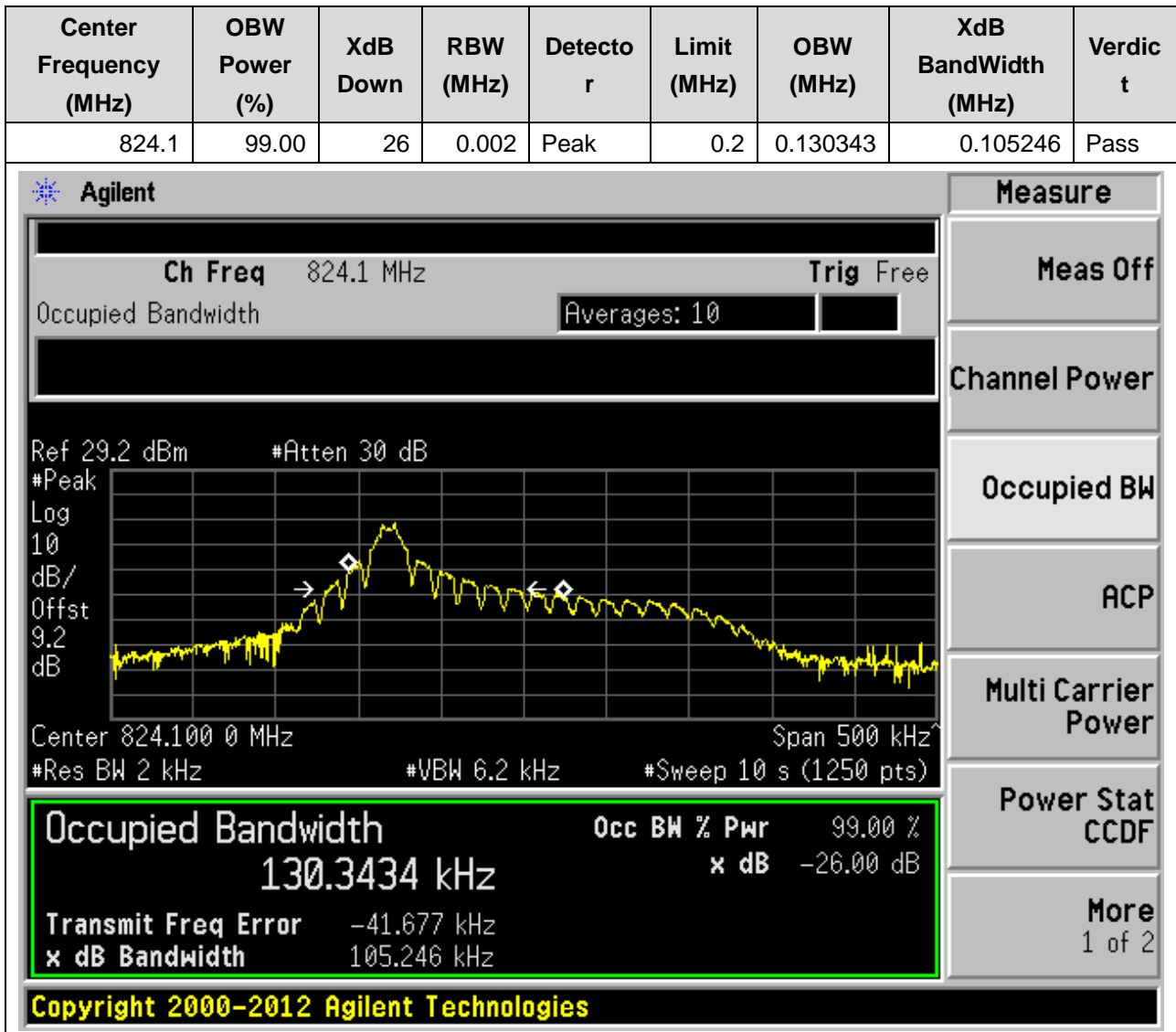
Multi Carrier Power

Power Stat CCDF

More 1 of 2

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15.5. NB-IoT Occupied Bandwidth(NTNV) _Band5_BPSK_15kHz_1@0_Low



15.6. NB-IoT Occupied Bandwidth(NTNV) _Band5_BPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.055752 | 0.036899 | Pass |

Agilent

Ch Freq 836.5 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.23 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.23 dB

Center 836.500 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 55.7520 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -76.384 kHz | |
| x dB Bandwidth | 36.899 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

15.7. NB-IoT Occupied Bandwidth(NTNV) _Band5_QPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.060026 | 0.038863 | Pass |

Agilent

Ch Freq 836.5 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.23 dBm #Atten 30 dB

Center 836.500 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

60.0259 kHz x dB -26.00 dB

Transmit Freq Error -74.255 kHz

x dB Bandwidth 38.863 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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15.8. NB-IoT Occupied Bandwidth(NTNV) _Band5_QPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.118305 | 0.109057 | Pass |

Agilent

Ch Freq 836.5 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.23 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.23 dB

Center 836.500 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|---------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 118.3053 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -47.103 kHz | |
| x dB Bandwidth | 109.057 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

15.9. NB-IoT Occupied Bandwidth(NTNV) _Band5_QPSK_15kHz_12@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.186744 | 0.241628 | Pass |

Agilent

Measure
 Meas Off
 Channel Power
 Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 836.5 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.23 dBm #Atten 30 dB

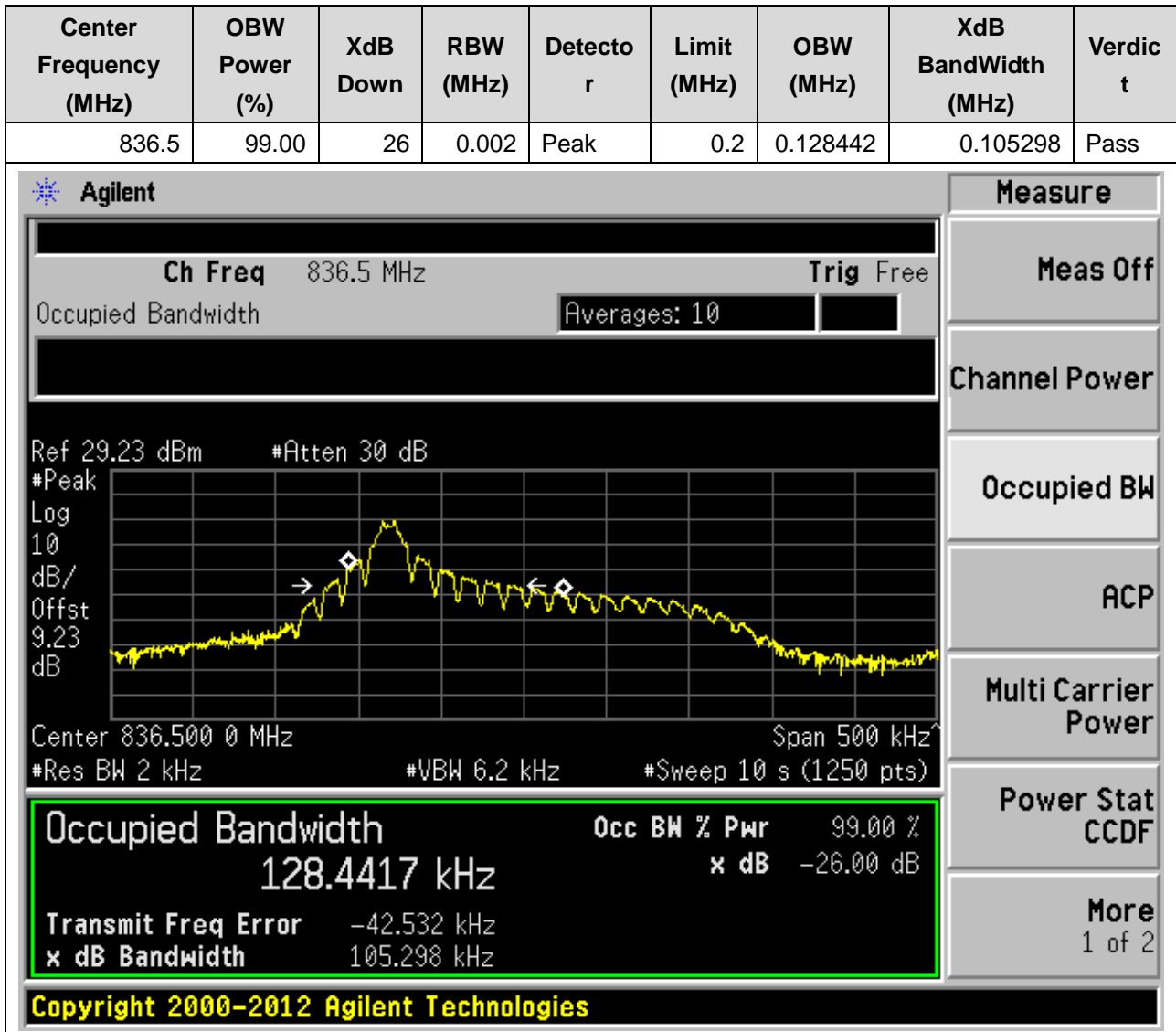
Center 836.500 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | |
|---------------------------------------|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 186.7437 kHz | x dB -26.00 dB |
| Transmit Freq Error 792.987 Hz | |
| x dB Bandwidth 241.628 kHz | |

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15.10. NB-IoT Occupied Bandwidth(NTNV) _Band5_BPSK_15kHz_1@0_Mid



15.11. NB-IoT Occupied Bandwidth(NTNV) _Band5_QPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.059412 | 0.040129 | Pass |

Agilent

Ch Freq 848.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.26 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.26 dB

Center 848.900 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 59.4120 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -74.403 kHz | |
| x dB Bandwidth | 40.129 kHz | |

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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15.12. NB-IoT Occupied Bandwidth(NTNV) _Band5_BPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.053713 | 0.03697 | Pass |

Agilent

Ch Freq 848.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.26 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.26 dB

Center 848.900 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 53.7126 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -77.072 kHz | |
| x dB Bandwidth | 36.970 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

15.13. NB-IoT Occupied Bandwidth(NTNV) _Band5_QPSK_15kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.116009 | 0.101936 | Pass |

Agilent

Ch Freq 848.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.26 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.26 dB

Center 848.900 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 116.0088 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -48.128 kHz | |
| x dB Bandwidth | 101.936 kHz | |

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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15.14. NB-IoT Occupied Bandwidth(NTNV) _Band5_QPSK_15kHz_12@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.186435 | 0.24095 | Pass |

Agilent

Ch Freq 848.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.26 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.26 dB

Center 848.900 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

186.4346 kHz x dB -26.00 dB

Transmit Freq Error 1.742 kHz

x dB Bandwidth 240.950 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

15.15. NB-IoT Occupied Bandwidth(NTNV) _Band5_BPSK_15kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.132991 | 0.114073 | Pass |

Agilent

Ch Freq 848.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.26 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.26 dB

Center 848.900 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

132.9911 kHz x dB -26.00 dB

Transmit Freq Error -40.409 kHz

x dB Bandwidth 114.073 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

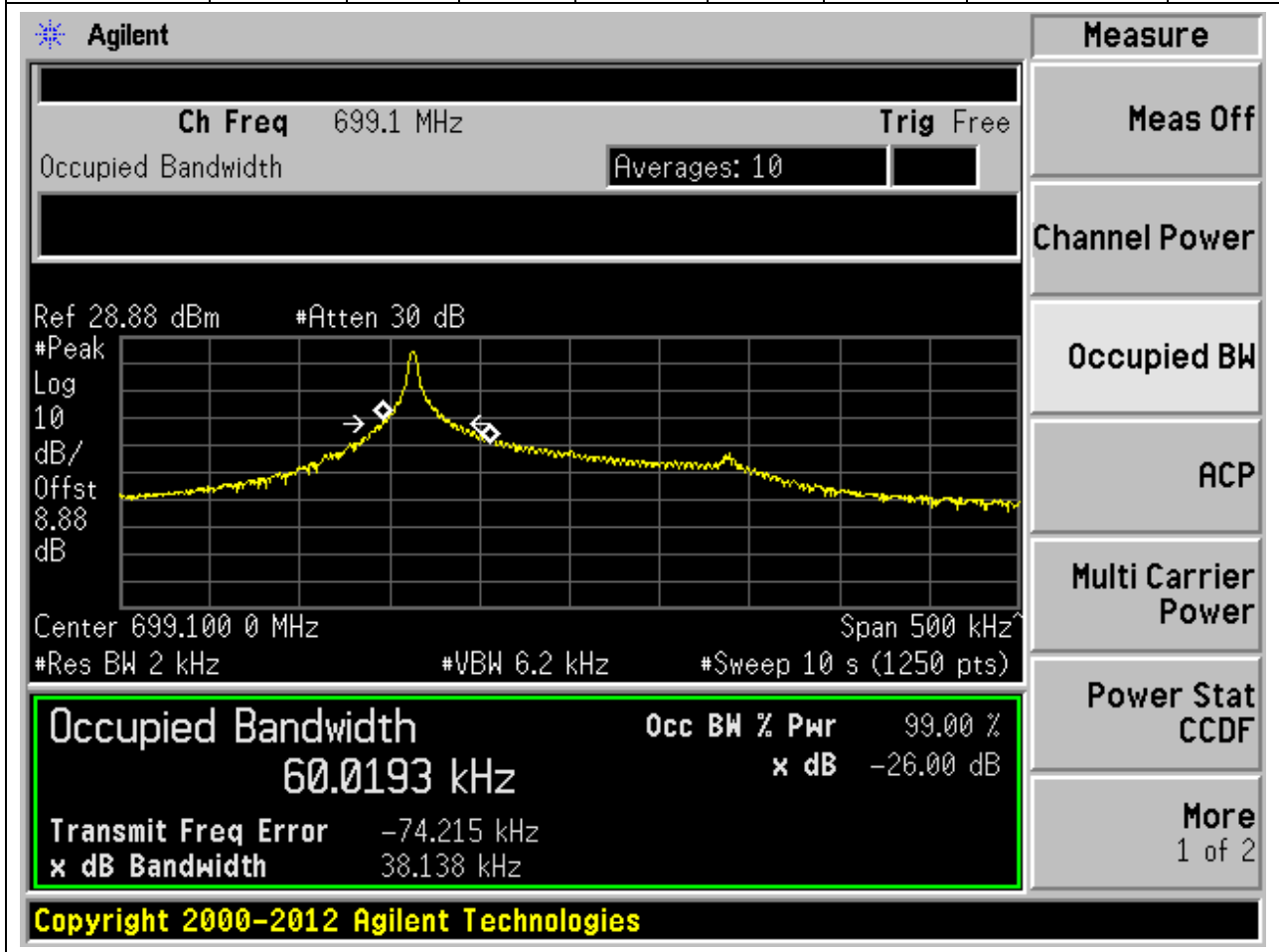
Power Stat CCDF

More 1 of 2

16. NB-IOT Band12

16.1. NB-IoT Occupied Bandwidth(NTNV) _Band12_QPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 699.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.060019 | 0.038138 | Pass |



16.2. NB-IoT Occupied Bandwidth(NTNV) _Band12_BPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 699.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.05449 | 0.036738 | Pass |

Agilent

Ch Freq 699.1 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.88 dBm #Atten 30 dB

Center 699.100 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

54.4898 kHz x dB -26.00 dB

Transmit Freq Error -77.253 kHz

x dB Bandwidth 36.738 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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16.3. NB-IoT Occupied Bandwidth(NTNV) _Band12_QPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 707.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.059354 | 0.037415 | Pass |

Agilent

Ch Freq 707.5 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.9 dBm #Atten 30 dB

Center 707.500 0 MHz Span 500 kHz
#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 59.3545 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -74.410 kHz | |
| x dB Bandwidth | 37.415 kHz | |

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16.4. NB-IoT Occupied Bandwidth(NTNV) _Band12_BPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 707.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.053634 | 0.036578 | Pass |

Agilent

Ch Freq 707.5 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.9 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.9 dB

Center 707.500 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 53.6343 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -77.337 kHz | |
| x dB Bandwidth | 36.578 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

16.5. NB-IoT Occupied Bandwidth(NTNV) _Band12_QPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 715.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.060859 | 0.038476 | Pass |

Agilent

Ch Freq 715.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.89 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.89 dB

Center 715.900 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 60.8586 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -73.682 kHz | |
| x dB Bandwidth | 38.476 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

16.6. NB-IoT Occupied Bandwidth(NTNV) _Band12_BPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 715.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.060077 | 0.038374 | Pass |

Agilent

Measure
 Meas Off
 Channel Power
 Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 715.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.89 dBm #Atten 30 dB

Center 715.900 0 MHz Span 500 kHz
 #Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | |
|--|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 60.0769 kHz | x dB -26.00 dB |
| Transmit Freq Error -73.809 kHz | |
| x dB Bandwidth 38.374 kHz | |

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16.7. NB-IoT Occupied Bandwidth(NTNV) _Band12_QPSK_15kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 699.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.122567 | 0.128696 | Pass |

Agilent

Ch Freq 699.1 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.88 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.88 dB

Center 699.100 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|---------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 122.5674 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -46.767 kHz | |
| x dB Bandwidth | 128.696 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

16.8. NB-IoT Occupied Bandwidth(NTNV) _Band12_QPSK_15kHz_12@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 699.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.188976 | 0.248982 | Pass |

Agilent

Ch Freq 699.1 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.88 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.88 dB

Center 699.100 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

188.9759 kHz x dB -26.00 dB

Transmit Freq Error 2.845 kHz

x dB Bandwidth 248.982 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

16.9. NB-IoT Occupied Bandwidth(NTNV) _Band12_BPSK_15kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 699.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.126349 | 0.105586 | Pass |

Agilent

Ch Freq 699.1 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.88 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.88 dB

Center 699.100 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | |
|--|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 126.3488 kHz | x dB -26.00 dB |
| Transmit Freq Error -45.363 kHz | |
| x dB Bandwidth 105.586 kHz | |

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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16.10. NB-IoT Occupied Bandwidth(NTNV) _Band12_QPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 707.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.12226 | 0.104155 | Pass |

Agilent

Ch Freq 707.5 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.9 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.9 dB

Center 707.500 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

122.2601 kHz x dB -26.00 dB

Transmit Freq Error -46.988 kHz

x dB Bandwidth 104.156 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

16.11. NB-IoT Occupied Bandwidth(NTNV) _Band12_QPSK_15kHz_12@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 707.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.187949 | 0.250834 | Pass |

Agilent

Ch Freq 707.5 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.9 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.9 dB

Center 707.500 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|---------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 187.9487 kHz | x dB | -26.00 dB |
| Transmit Freq Error | 2.592 kHz | |
| x dB Bandwidth | 250.834 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

16.12. NB-IoT Occupied Bandwidth(NTNV) _Band12_BPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 707.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.125896 | 0.106676 | Pass |

Agilent

Ch Freq 707.5 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.9 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.9 dB

Center 707.500 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | |
|--|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 125.8960 kHz | x dB -26.00 dB |
| Transmit Freq Error -45.860 kHz | |
| x dB Bandwidth 106.676 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

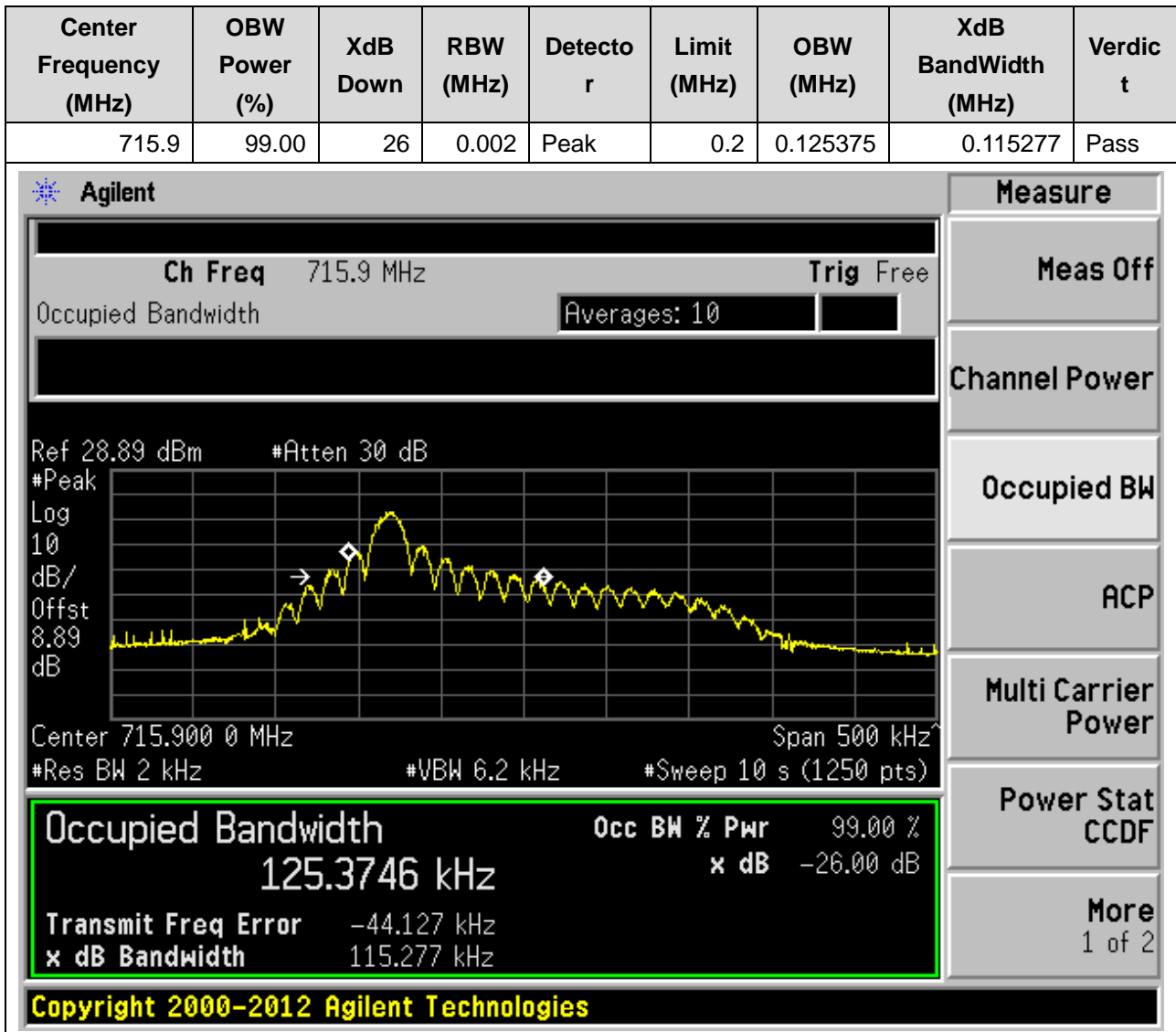
ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

16.13. NB-IoT Occupied Bandwidth(NTNV) _Band12_QPSK_15kHz_1@0_High



16.14. NB-IoT Occupied Bandwidth(NTNV) _Band12_QPSK_15kHz_12@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 715.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.188073 | 0.246628 | Pass |

Agilent

Ch Freq 715.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.89 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.89 dB

Center 715.900 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

188.0731 kHz x dB -26.00 dB

Transmit Freq Error 2.706 kHz

x dB Bandwidth 246.628 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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16.15. NB-IoT Occupied Bandwidth(NTNV) _Band12_BPSK_15kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 715.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.12525 | 0.114433 | Pass |

Agilent

Ch Freq 715.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.89 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.89 dB

Center 715.900 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

125.2500 kHz x dB -26.00 dB

Transmit Freq Error -45.668 kHz

x dB Bandwidth 114.433 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

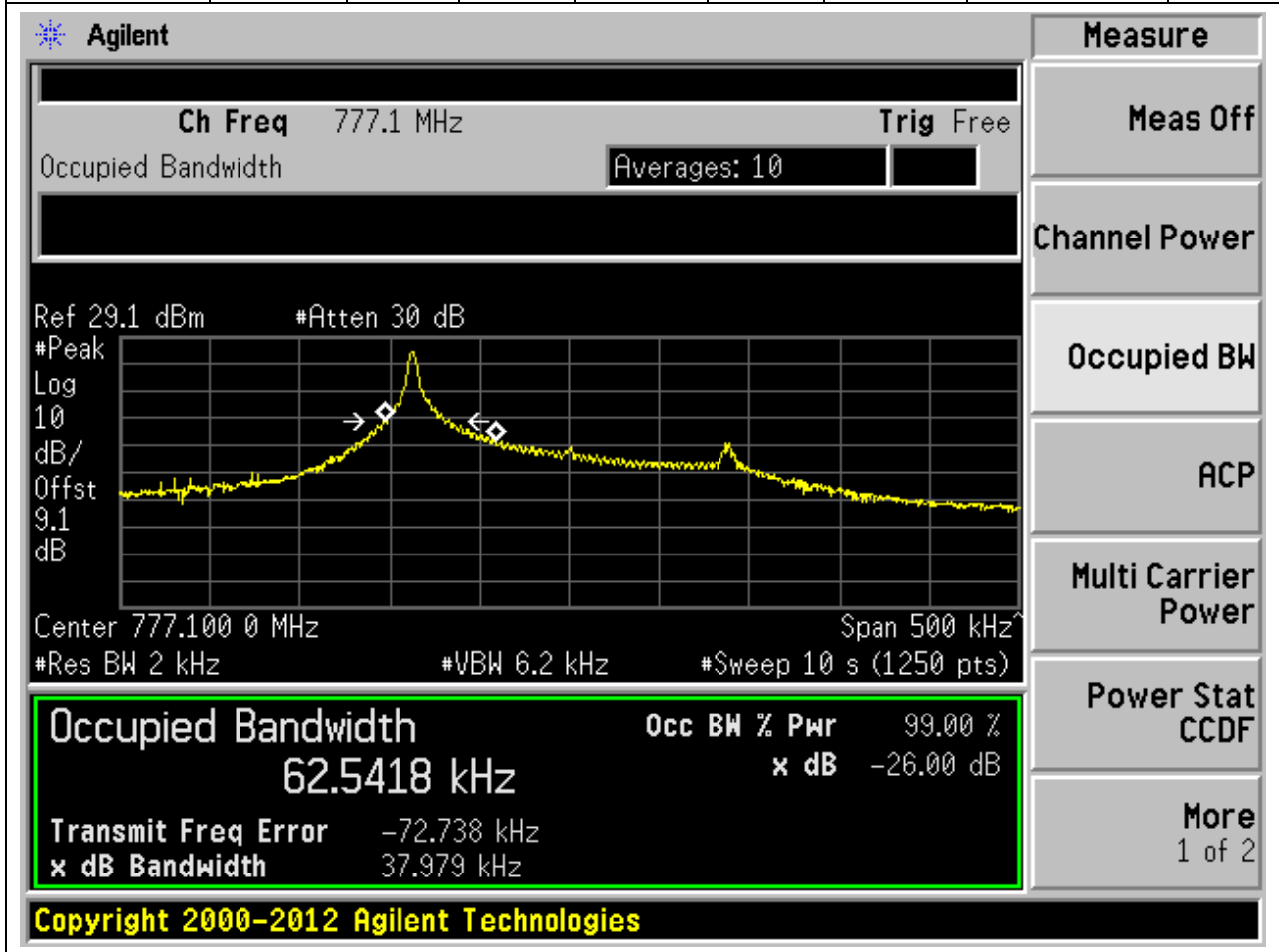
Power Stat CCDF

More 1 of 2

17. NB-IOT Band13

17.1. NB-IoT Occupied Bandwidth(NTNV) _Band13_QPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 777.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.062542 | 0.037979 | Pass |



17.2. NB-IoT Occupied Bandwidth(NTNV) _Band13_BPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 777.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.05361 | 0.035428 | Pass |

Agilent

Ch Freq 777.1 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.1 dBm #Atten 30 dB

Center 777.100 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|---------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 53.6105 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -76.281 kHz | |
| x dB Bandwidth | 35.428 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

17.3. NB-IoT Occupied Bandwidth(NTNV) _Band13_QPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 782 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.062057 | 0.037484 | Pass |

Agilent

Ch Freq 782 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.11 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.11 dB

Center 782.000 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 62.0572 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -72.895 kHz | |
| x dB Bandwidth | 37.484 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

17.4. NB-IoT Occupied Bandwidth(NTNV) _Band13_BPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 782 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.054046 | 0.03615 | Pass |

Agilent

Ch Freq 782 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.11 dBm #Atten 30 dB

Center 782.000 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

54.0455 kHz x dB -26.00 dB

Transmit Freq Error -76.015 kHz

x dB Bandwidth 36.150 kHz

Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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17.5. NB-IoT Occupied Bandwidth(NTNV) _Band13_QPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 786.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.062625 | 0.038144 | Pass |

Agilent

Ch Freq 786.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.09 dBm #Atten 30 dB

Center 786.900 0 MHz Span 500 kHz
#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 62.6253 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -72.778 kHz | |
| x dB Bandwidth | 38.144 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

17.6. NB-IoT Occupied Bandwidth(NTNV) _Band13_BPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 786.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.053374 | 0.036145 | Pass |

Agilent

Ch Freq 786.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.09 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.09 dB

Center 786.900 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 53.3738 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -76.454 kHz | |
| x dB Bandwidth | 36.145 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

17.7. NB-IoT Occupied Bandwidth(NTNV) _Band13_QPSK_15kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 777.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.123156 | 0.123137 | Pass |

Agilent

Ch Freq 777.1 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.1 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.1 dB

Center 777.100 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 123.1559 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -44.928 kHz | |
| x dB Bandwidth | 123.137 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

17.8. NB-IoT Occupied Bandwidth(NTNV) _Band13_QPSK_15kHz_12@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 777.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.189805 | 0.241137 | Pass |

Agilent

Measure
 Meas Off
 Channel Power
Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 777.1 MHz Trig Free

Occupied Bandwidth Averages: 10

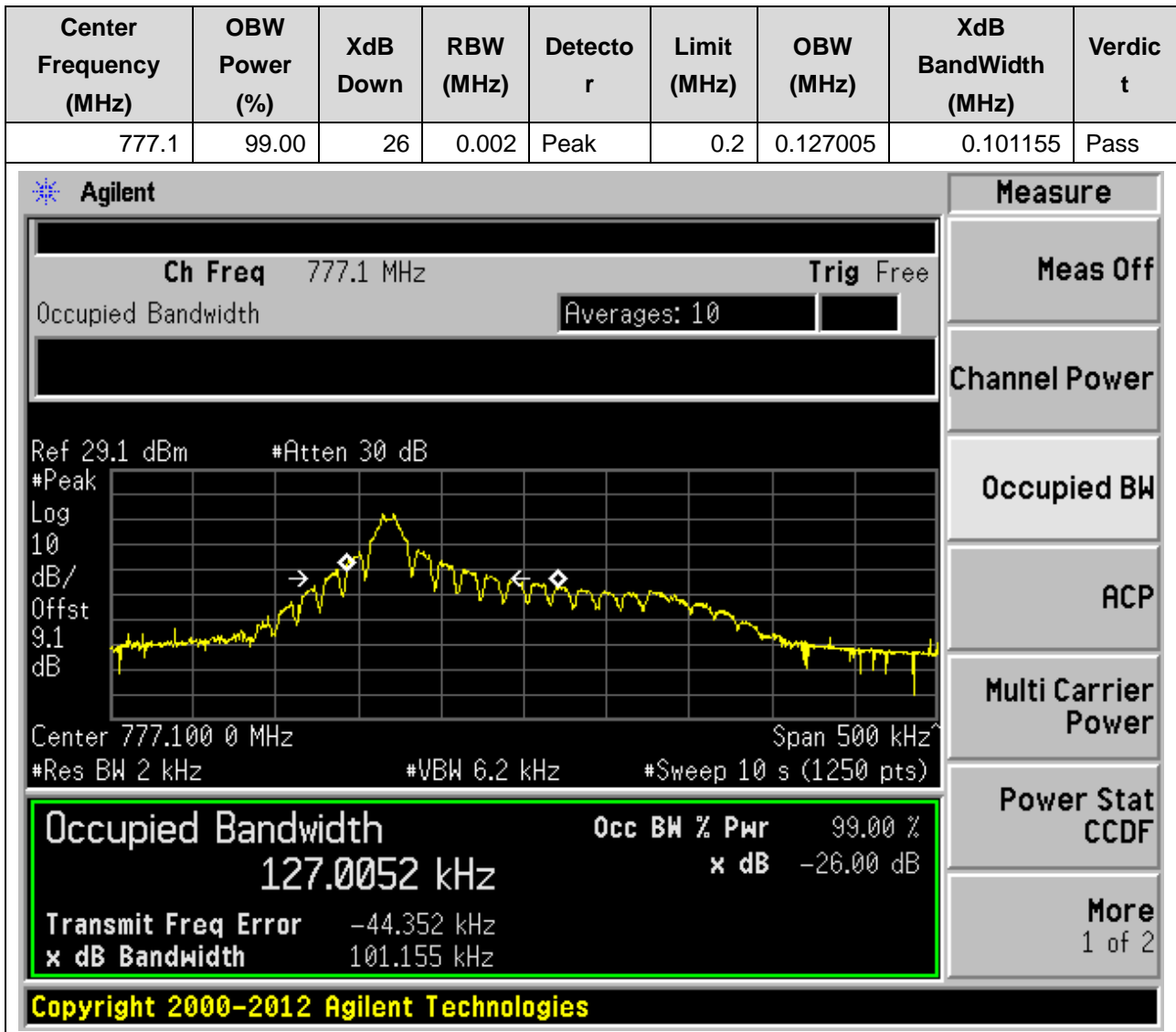
Ref 29.1 dBm #Atten 30 dB

Center 777.100 0 MHz Span 500 kHz
 #Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | |
|--------------------------------------|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 189.8054 kHz | x dB -26.00 dB |
| Transmit Freq Error 3.181 kHz | |
| x dB Bandwidth 241.137 kHz | |

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17.9. NB-IoT Occupied Bandwidth(NTNV) _Band13_BPSK_15kHz_1@0_Low



17.10. NB-IoT Occupied Bandwidth(NTNV) _Band13_QPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 782 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.124701 | 0.109314 | Pass |

Agilent

Ch Freq 782 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.11 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.11 dB

Center 782.000 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | |
|----------------------------|-----------------------------|
| Occupied Bandwidth | Occ BW % Pwr 99.00 % |
| 124.7014 kHz | x dB -26.00 dB |
| Transmit Freq Error | -44.596 kHz |
| x dB Bandwidth | 109.314 kHz |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

17.11. NB-IoT Occupied Bandwidth(NTNV) _Band13_QPSK_15kHz_12@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 782 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.189392 | 0.235997 | Pass |

Agilent

Ch Freq 782 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.11 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.11 dB

Center 782.000 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 189.3924 kHz | x dB | -26.00 dB |
| Transmit Freq Error | 3.035 kHz | |
| x dB Bandwidth | 235.997 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

17.12. NB-IoT Occupied Bandwidth(NTNV) _Band13_BPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 782 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.132463 | 0.107895 | Pass |

Agilent

Ch Freq 782 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.11 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.11 dB

Center 782.000 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 132.4634 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -41.452 kHz | |
| x dB Bandwidth | 107.895 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

17.13. NB-IoT Occupied Bandwidth(NTNV) _Band13_QPSK_15kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 786.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.122743 | 0.110274 | Pass |

Agilent

Ch Freq 786.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 29.09 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.09 dB

Center 786.900 0 MHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|---------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 122.7425 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -44.916 kHz | |
| x dB Bandwidth | 110.274 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

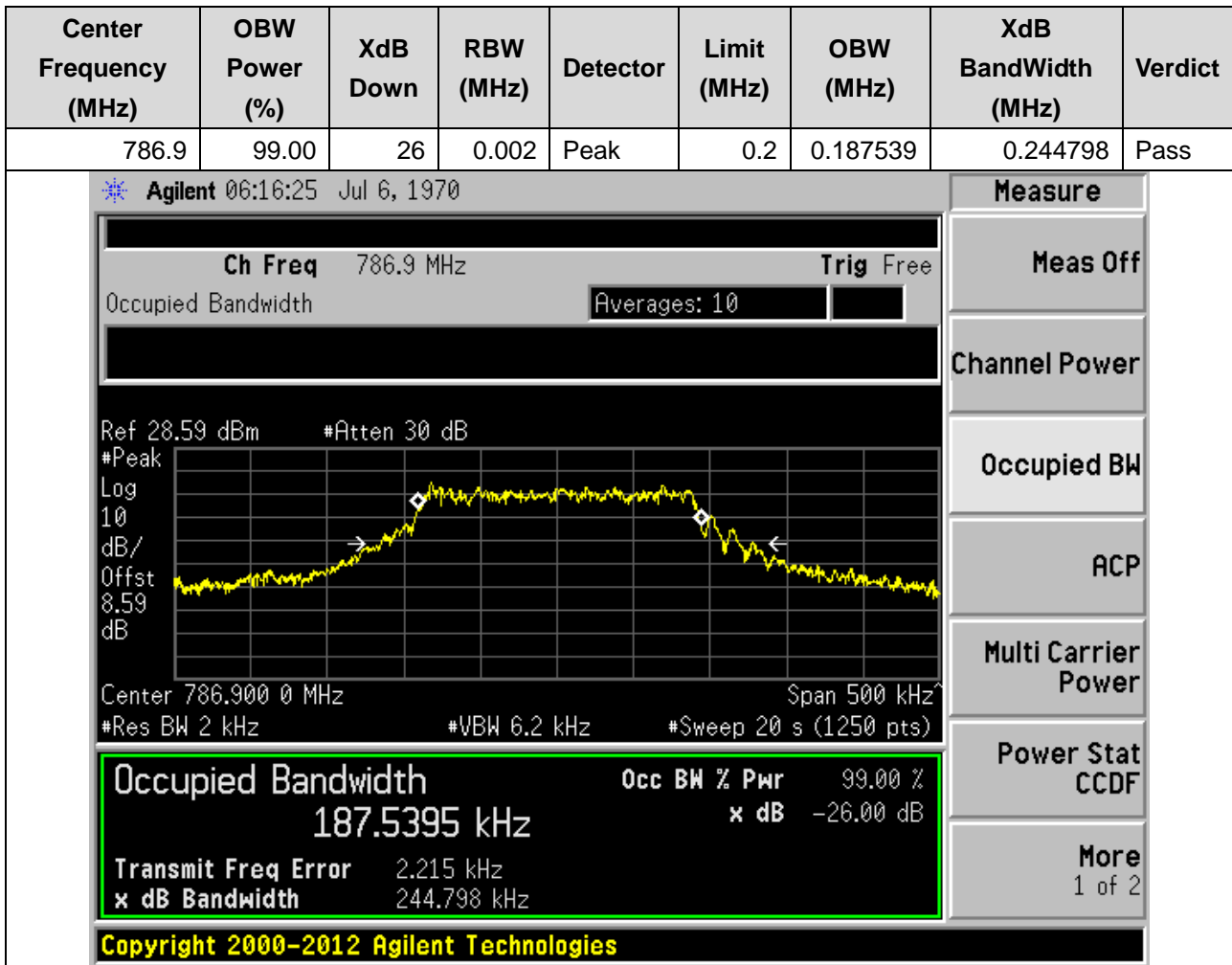
ACP

Multi Carrier Power

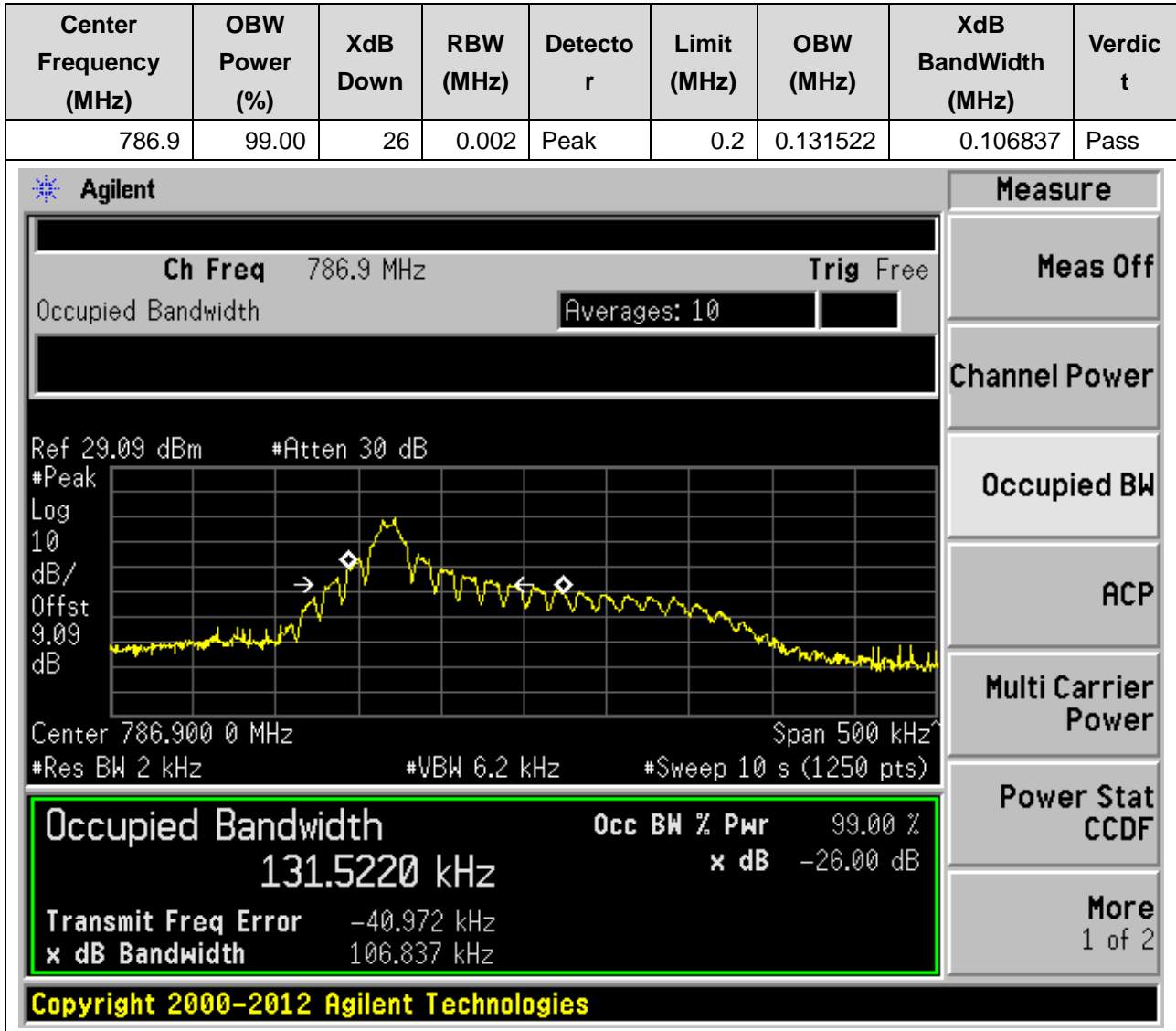
Power Stat CCDF

More
1 of 2

17.14. NB-IoT Occupied Bandwidth(NTNV) _Band13_QPSK_15kHz_12@0_High



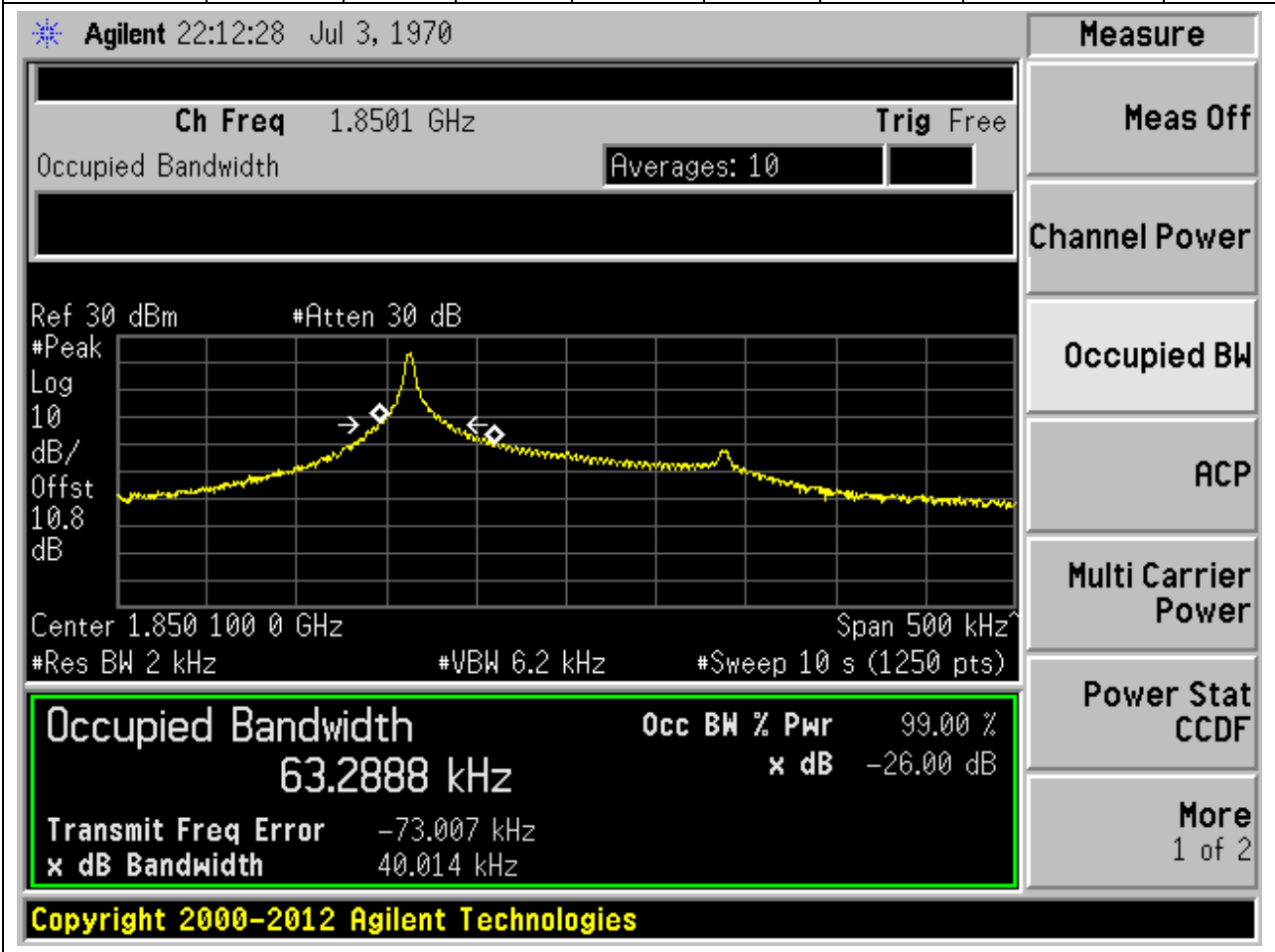
17.15. NB-IoT Occupied Bandwidth(NTNV) _Band13_BPSK_15kHz_1@0_High



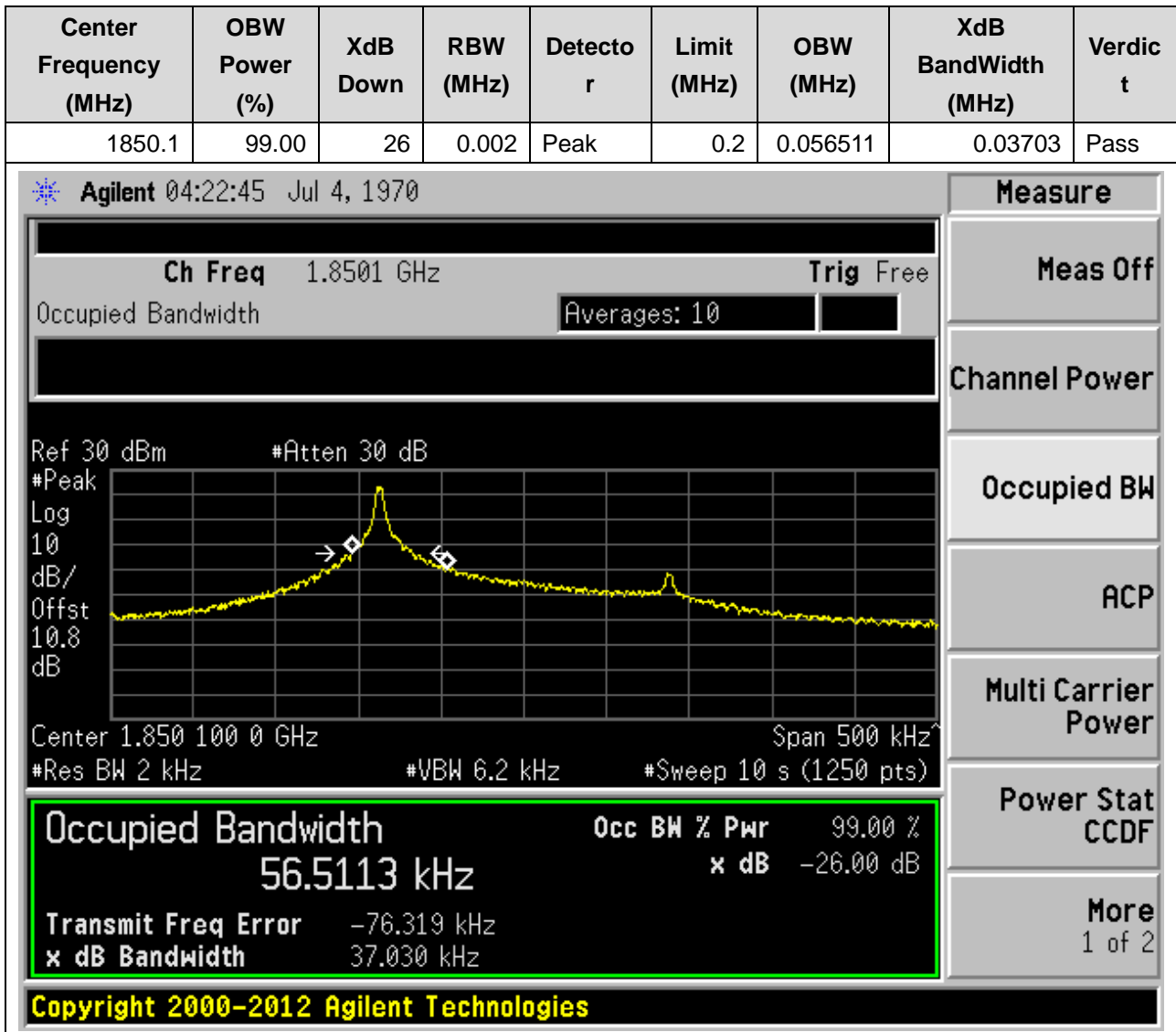
18. NB-IOT Band25

18.1. NB-IoT Occupied Bandwidth(NTNV) _Band25_QPSK_3.75kHz_1@0_Low

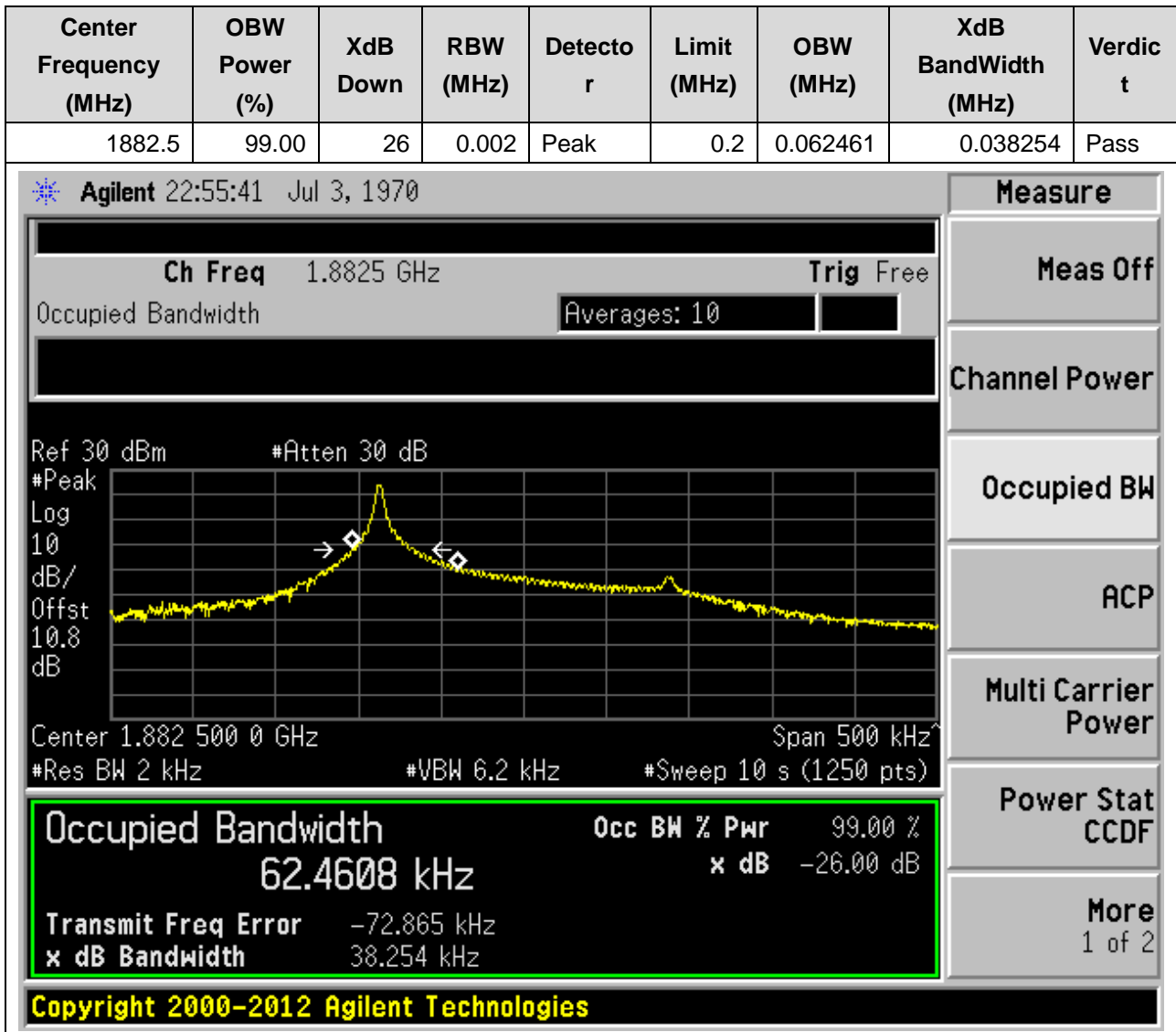
| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1850.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.063289 | 0.040014 | Pass |



18.2. NB-IoT Occupied Bandwidth(NTNV) _Band25_BPSK_3.75kHz_1@0_Low



18.3. NB-IoT Occupied Bandwidth(NTNV) _Band25_QPSK_3.75kHz_1@0_Mid



18.4. NB-IoT Occupied Bandwidth(NTNV) _Band25_BPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1882.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.058588 | 0.036967 | Pass |

Agilent 23:28:05 Jul 3, 1970

Ch Freq 1.8825 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.8 dB

Center 1.882 500 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 58.5877 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -74.871 kHz | |
| x dB Bandwidth | 36.967 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

ACP

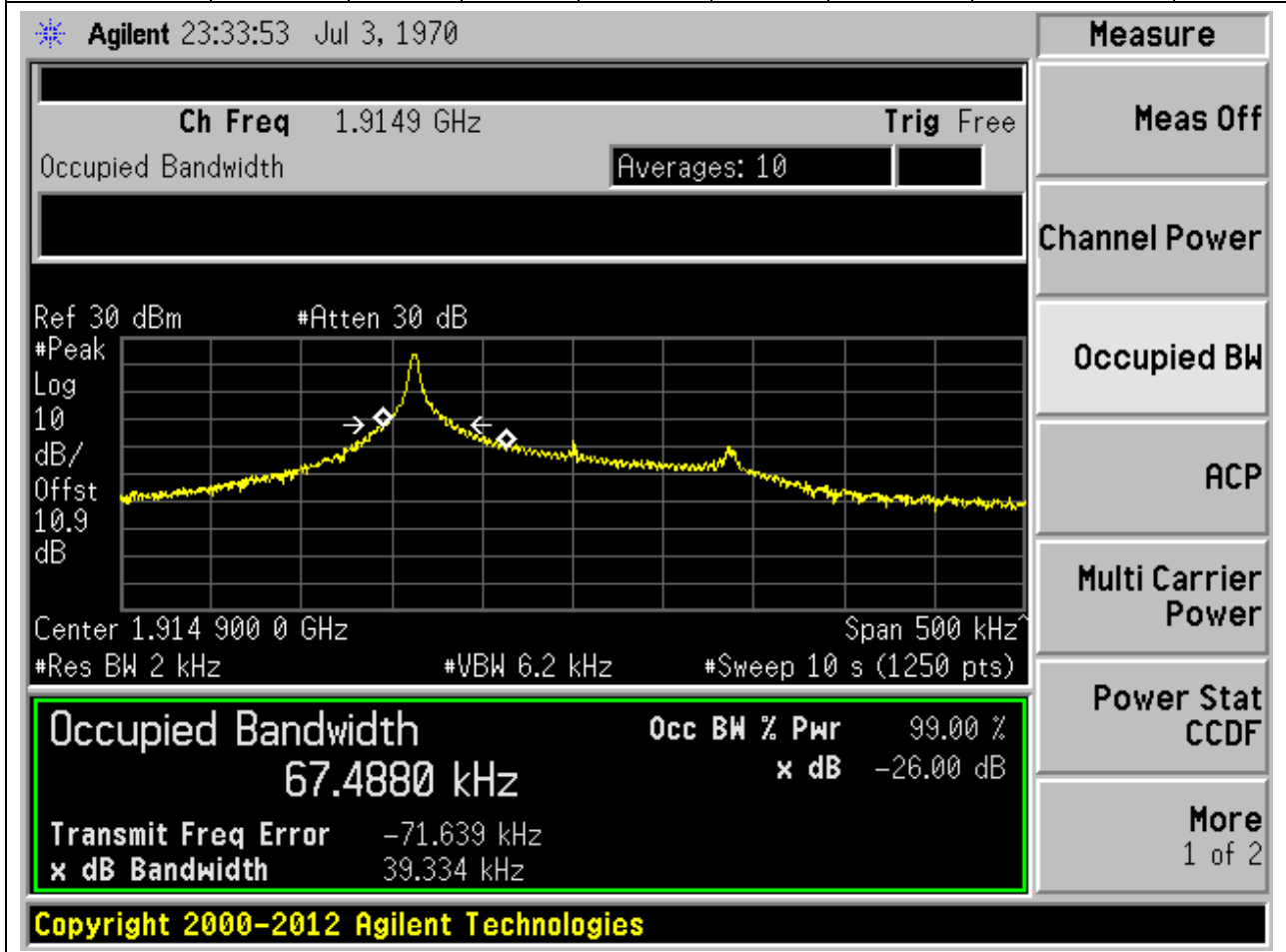
Multi Carrier Power

Power Stat CCDF

More
1 of 2

18.5. NB-IoT Occupied Bandwidth(NTNV) _Band25_QPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1914.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.067488 | 0.039334 | Pass |



18.6. NB-IoT Occupied Bandwidth(NTNV) _Band25_BPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1914.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.055757 | 0.036991 | Pass |

Agilent 23:40:00 Jul 3, 1970

Ch Freq 1.9149 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.9 dB

Center 1.914 900 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 55.7568 kHz | x dB | -26.00 dB |
| Transmit Freq Error | -76.556 kHz | |
| x dB Bandwidth | 36.991 kHz | |

Measure

Meas Off

Channel Power

Occupied BW

ACP

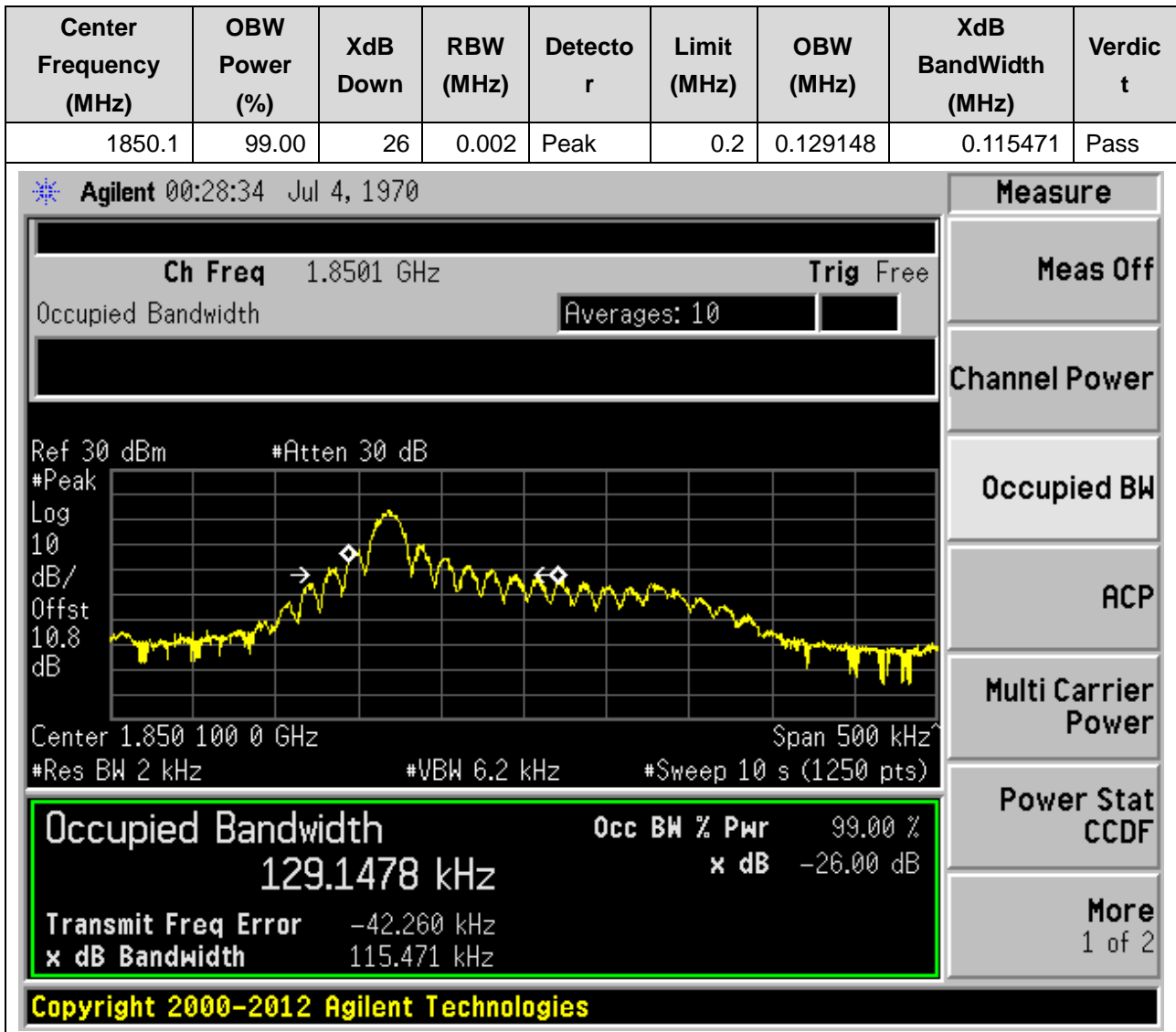
Multi Carrier Power

Power Stat CCDF

More 1 of 2

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18.7. NB-IoT Occupied Bandwidth(NTNV) _Band25_QPSK_15kHz_1@0_Low



18.8. NB-IoT Occupied Bandwidth(NTNV) _Band25_QPSK_15kHz_12@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1850.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.188672 | 0.247329 | Pass |

Agilent 00:35:03 Jul 4, 1970

Ch Freq 1.8501 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.8 dB

Center 1.850 100 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-------------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 188.6722 kHz | x dB | -26.00 dB |
| Transmit Freq Error | | 2.703 kHz |
| x dB Bandwidth | | 247.329 kHz |

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Measure

Meas Off

Channel Power

Occupied BW

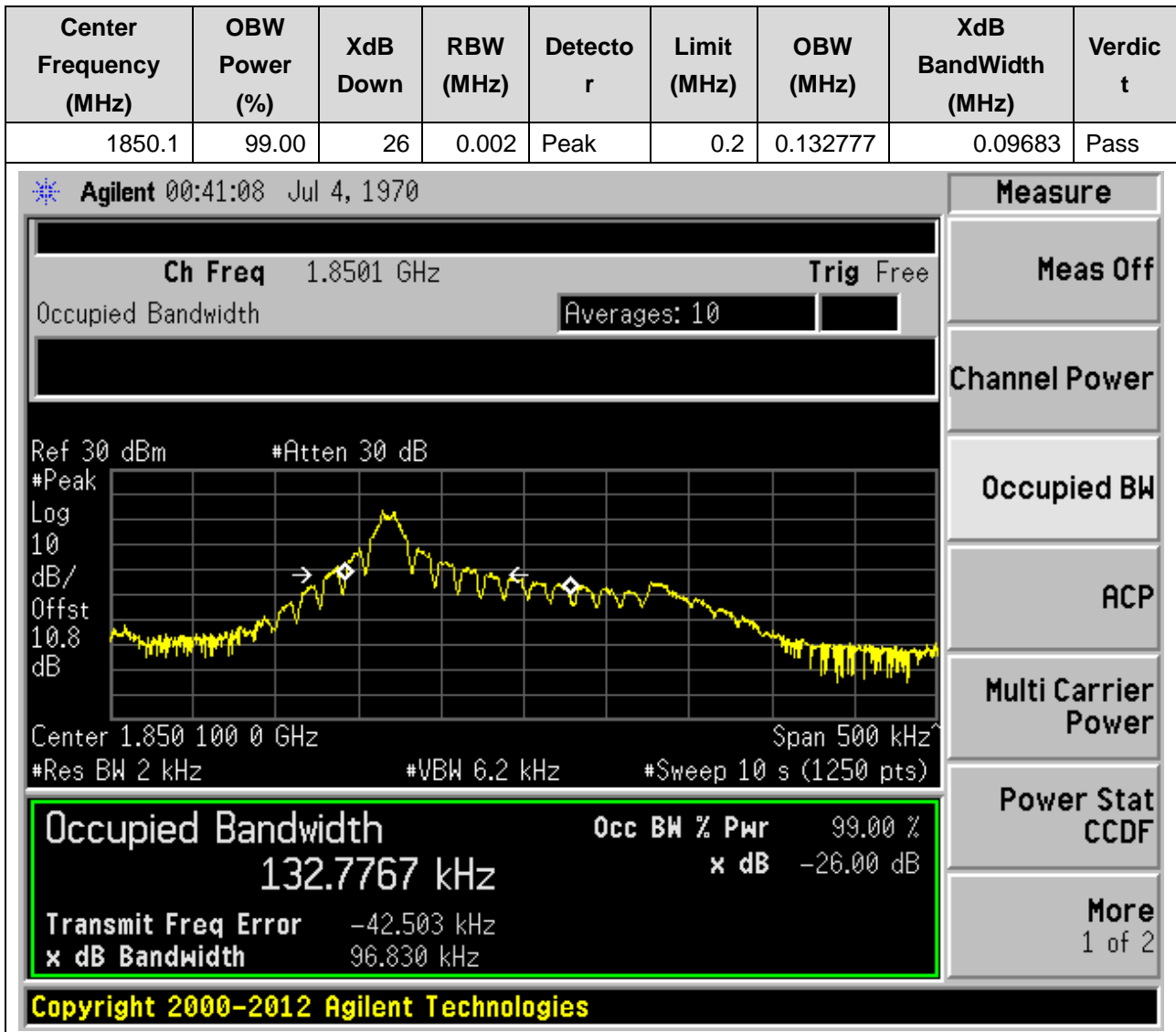
ACP

Multi Carrier Power

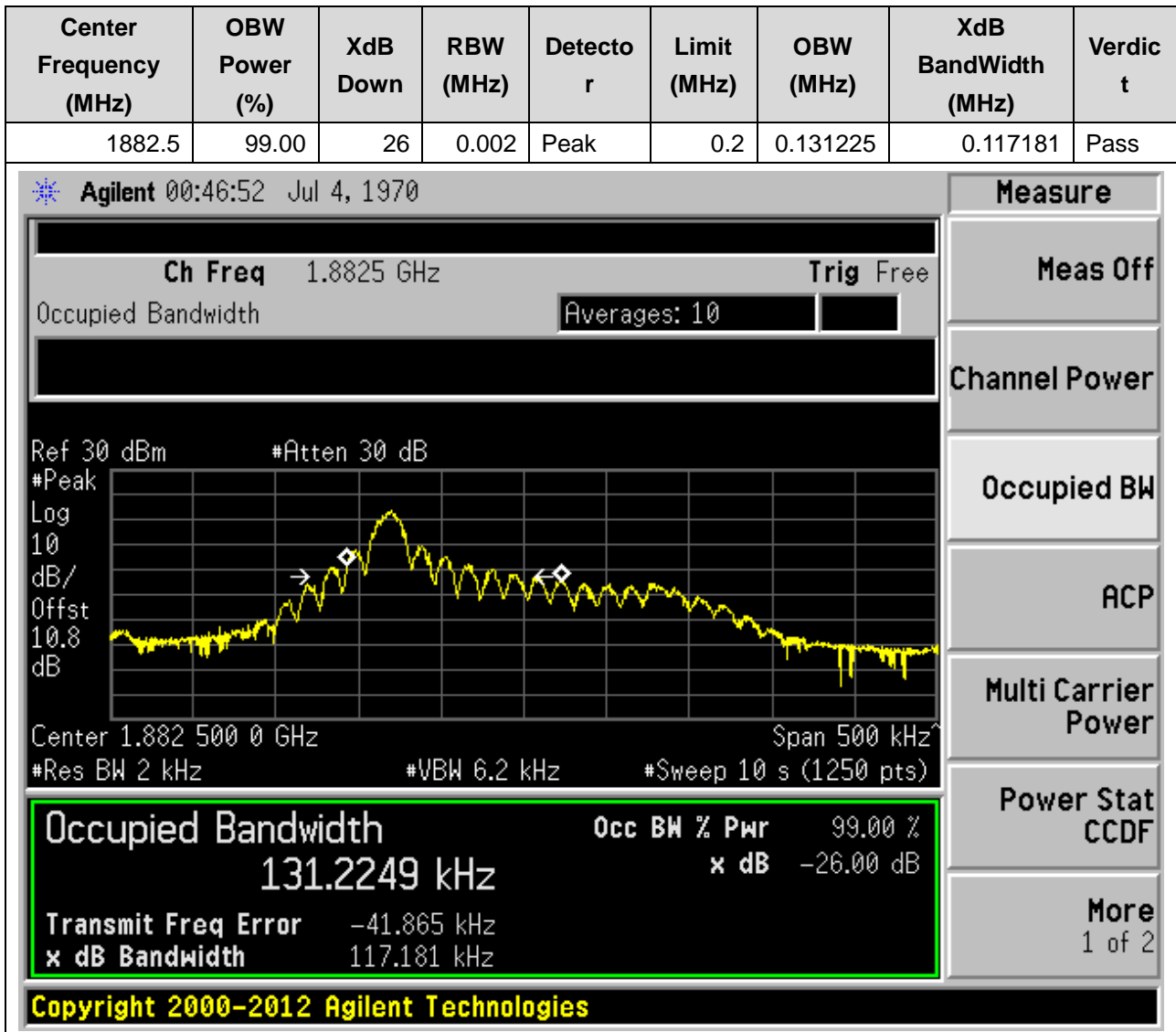
Power Stat CCDF

More 1 of 2

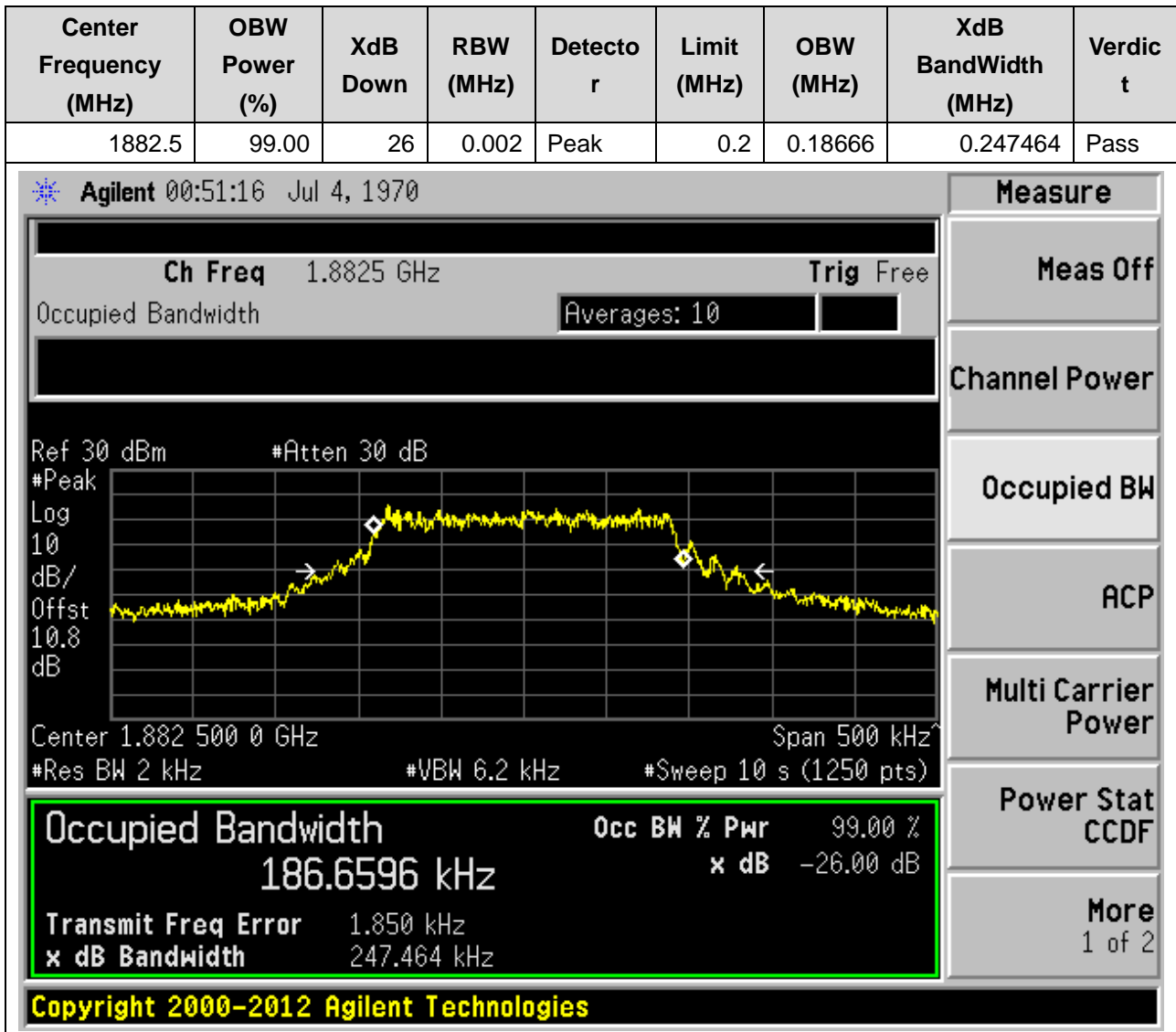
18.9. NB-IoT Occupied Bandwidth(NTNV) _Band25_BPSK_15kHz_1@0_Low



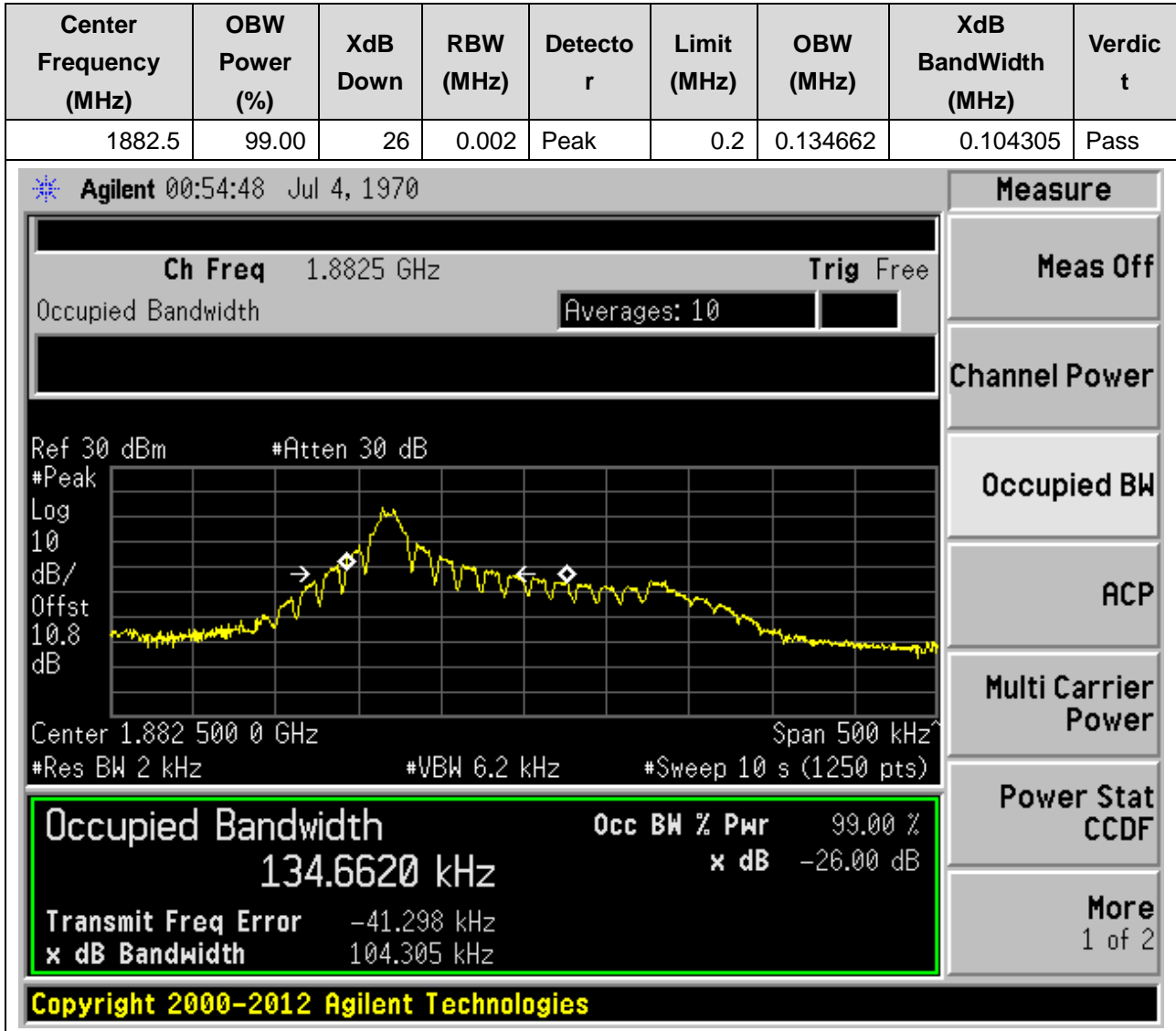
18.10. NB-IoT Occupied Bandwidth(NTNV) _Band25_QPSK_15kHz_1@0_Mid



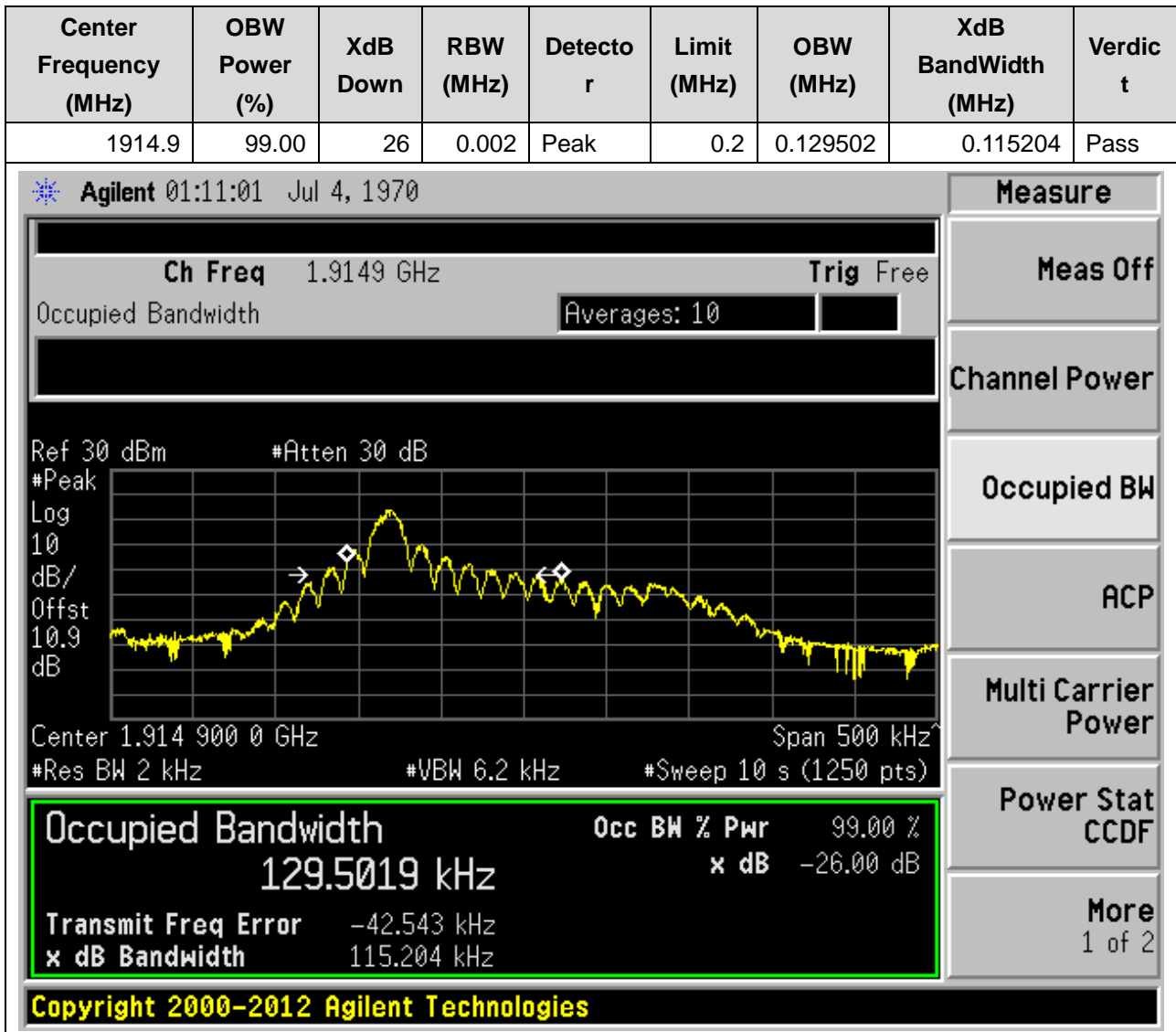
18.11. NB-IoT Occupied Bandwidth(NTNV) _Band25_QPSK_15kHz_12@0_Mid



18.12. NB-IoT Occupied Bandwidth(NTNV) _Band25_BPSK_15kHz_1@0_Mid



18.13. NB-IoT Occupied Bandwidth(NTNV) _Band25_QPSK_15kHz_1@0_Hig



18.14. NB-IoT Occupied Bandwidth(NTNV) _Band25_QPSK_15kHz_12@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 1914.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.187831 | 0.248463 | Pass |

Agilent 01:16:19 Jul 4, 1970

Ch Freq 1.9149 GHz Trig Free

Occupied Bandwidth Averages: 10

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.9 dB

Center 1.914 900 0 GHz Span 500 kHz

#Res BW 2 kHz #VBW 6.2 kHz #Sweep 10 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 187.8306 kHz | x dB | -26.00 dB |
| Transmit Freq Error | 2.006 kHz | |
| x dB Bandwidth | 248.463 kHz | |

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Measure

Meas Off

Channel Power

Occupied BW

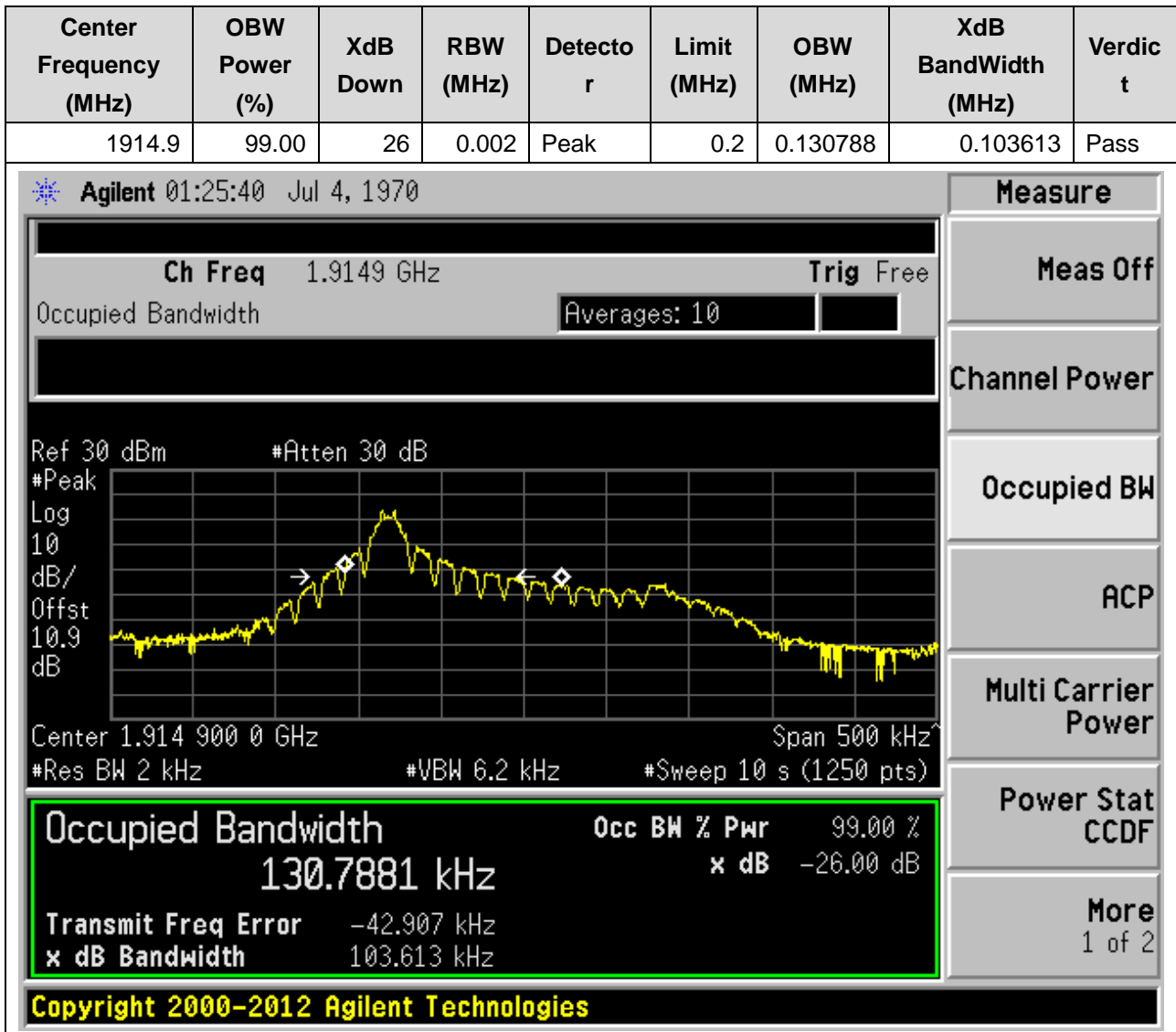
ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

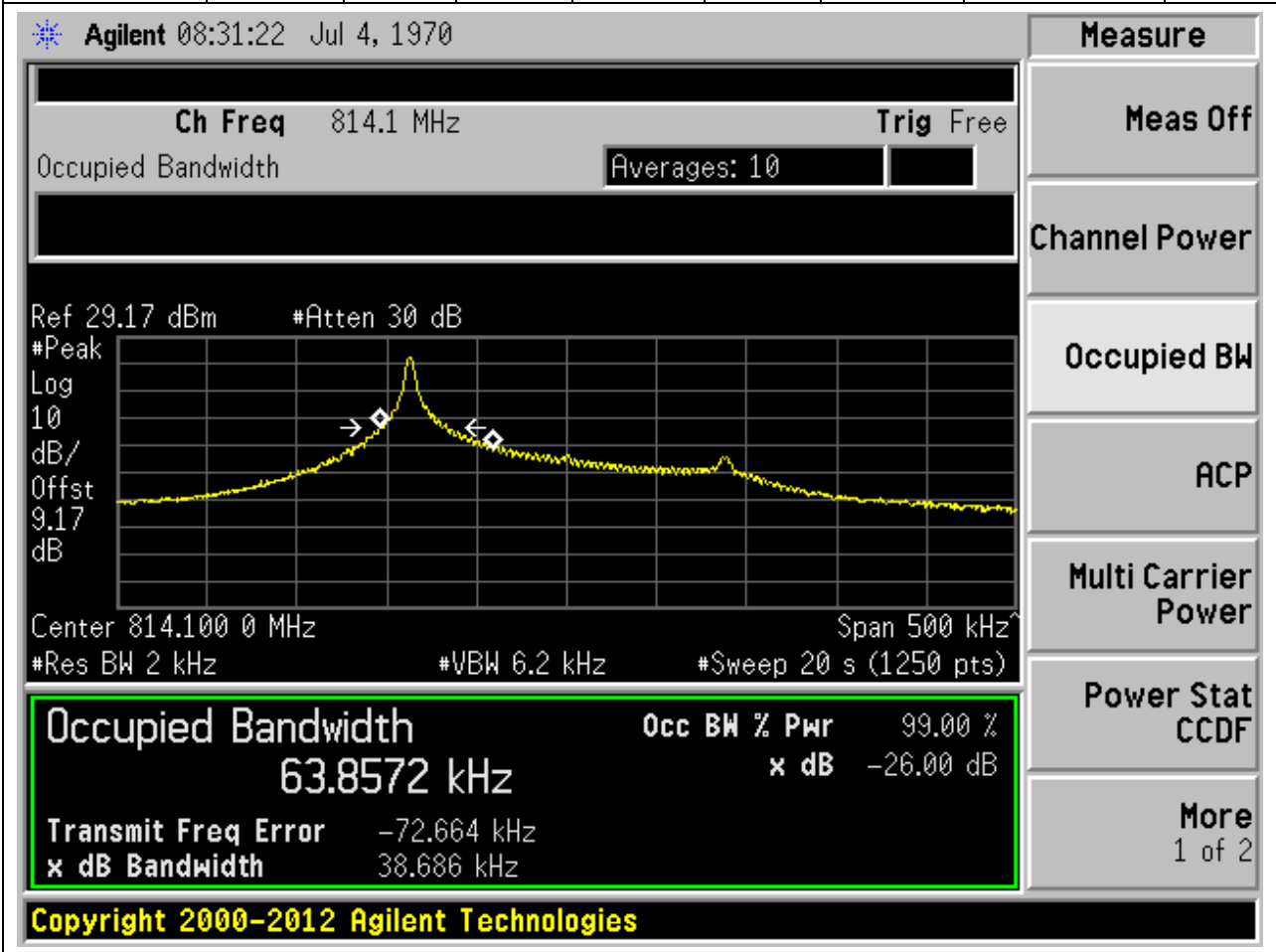
18.15. NB-IoT Occupied Bandwidth(NTNV) _Band25_BPSK_15kHz_1@0_High



19. NB-IOT Band26(Part90)

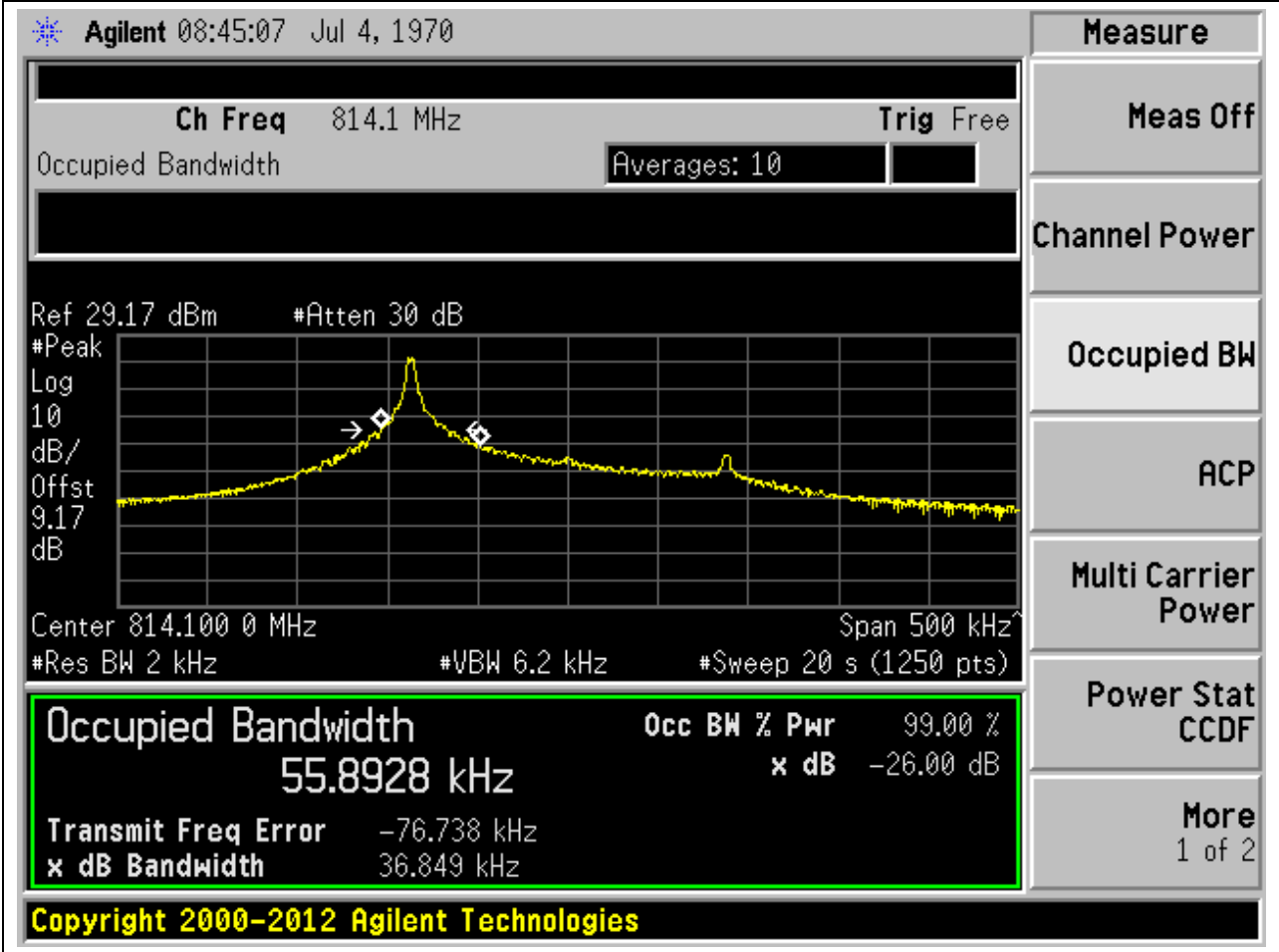
**19.1. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_QPSK_3.75kHz_1@0_Low**

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 814.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.063857 | 0.038686 | Pass |



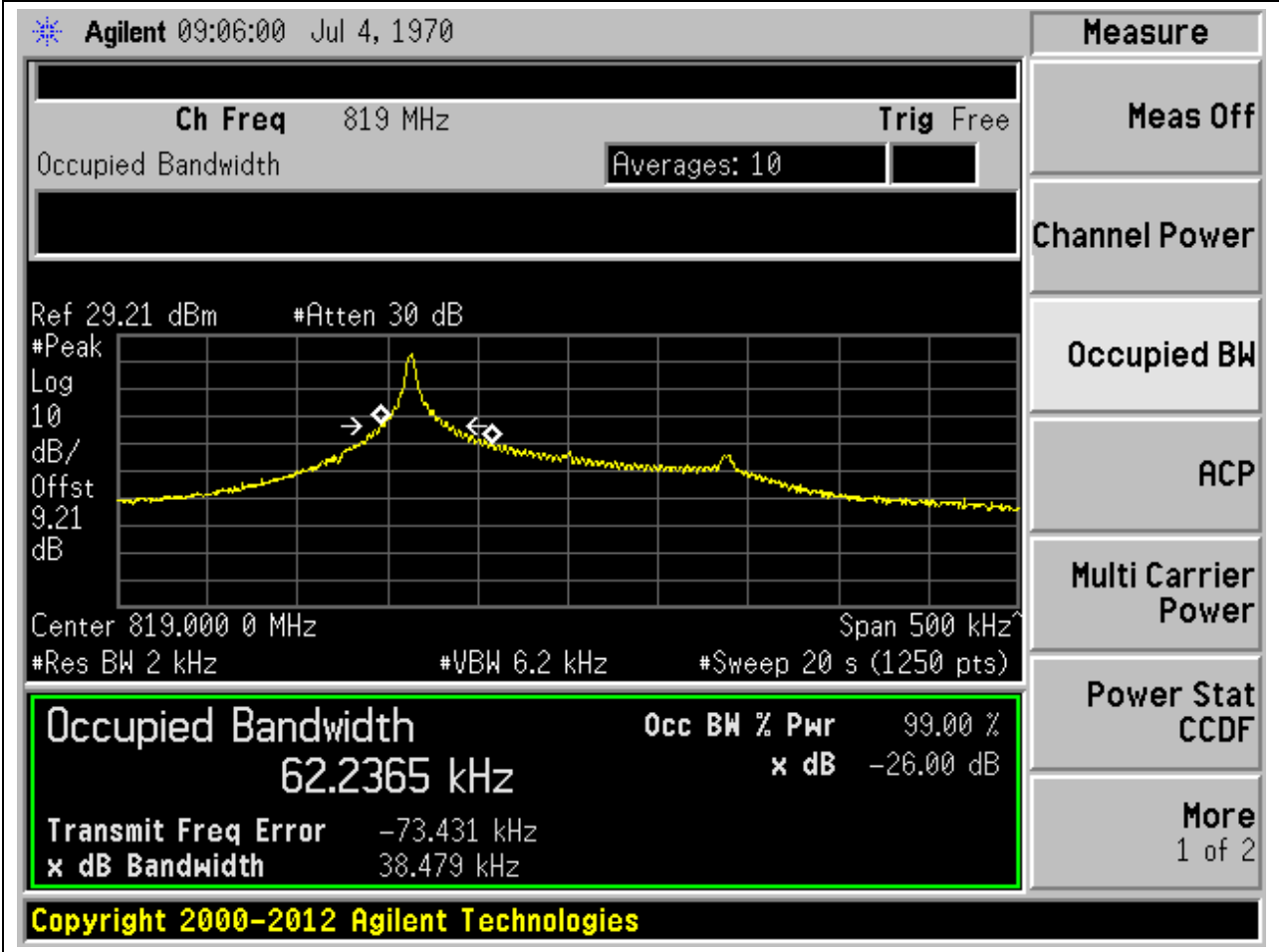
19.2. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_BPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 814.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.055893 | 0.036849 | Pass |



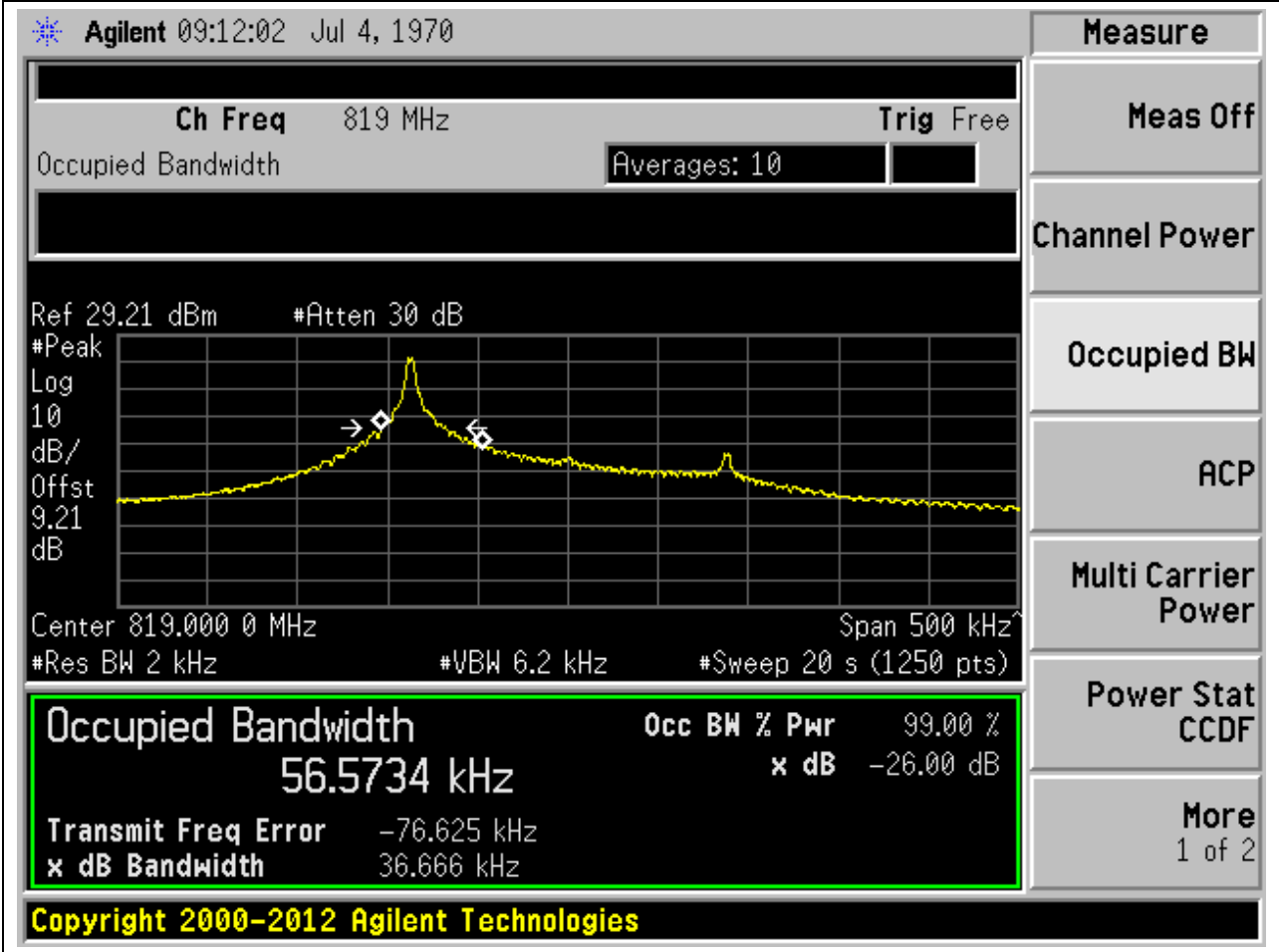
19.3. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_QPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 819 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.062237 | 0.038479 | Pass |



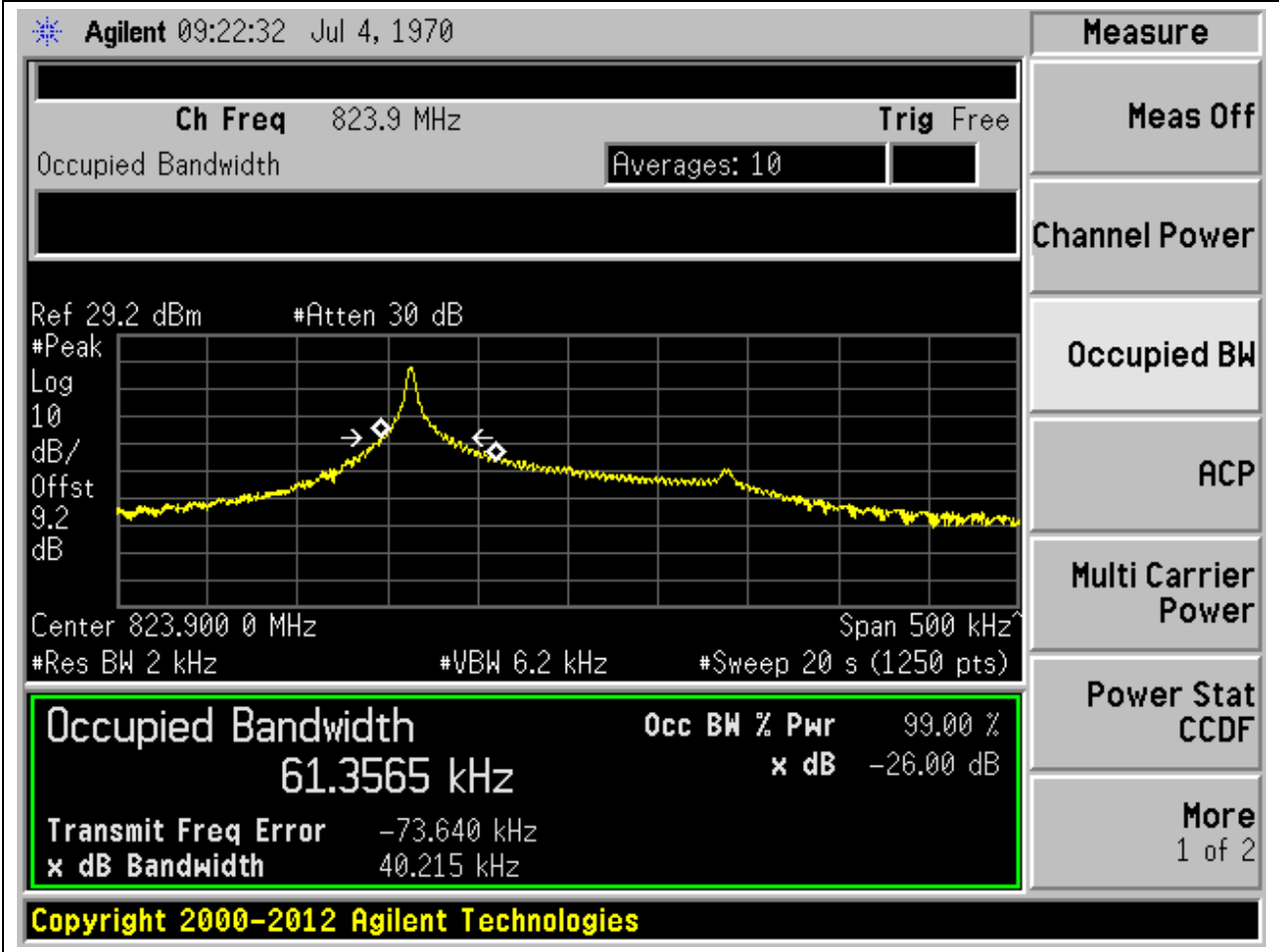
19.4. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_BPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 819 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.056573 | 0.036666 | Pass |

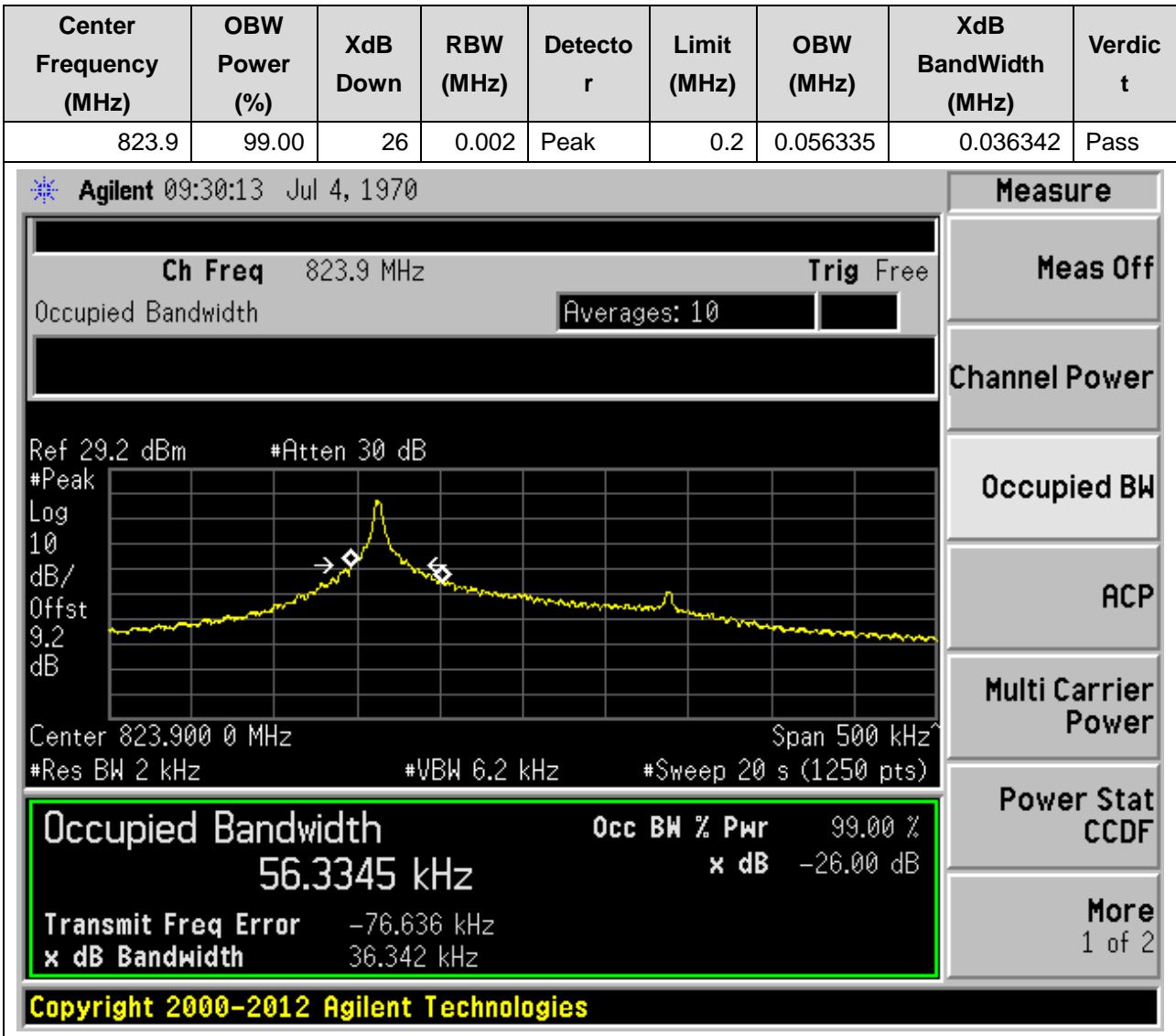


**19.5. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_QPSK_3.75kHz_1@0_High**

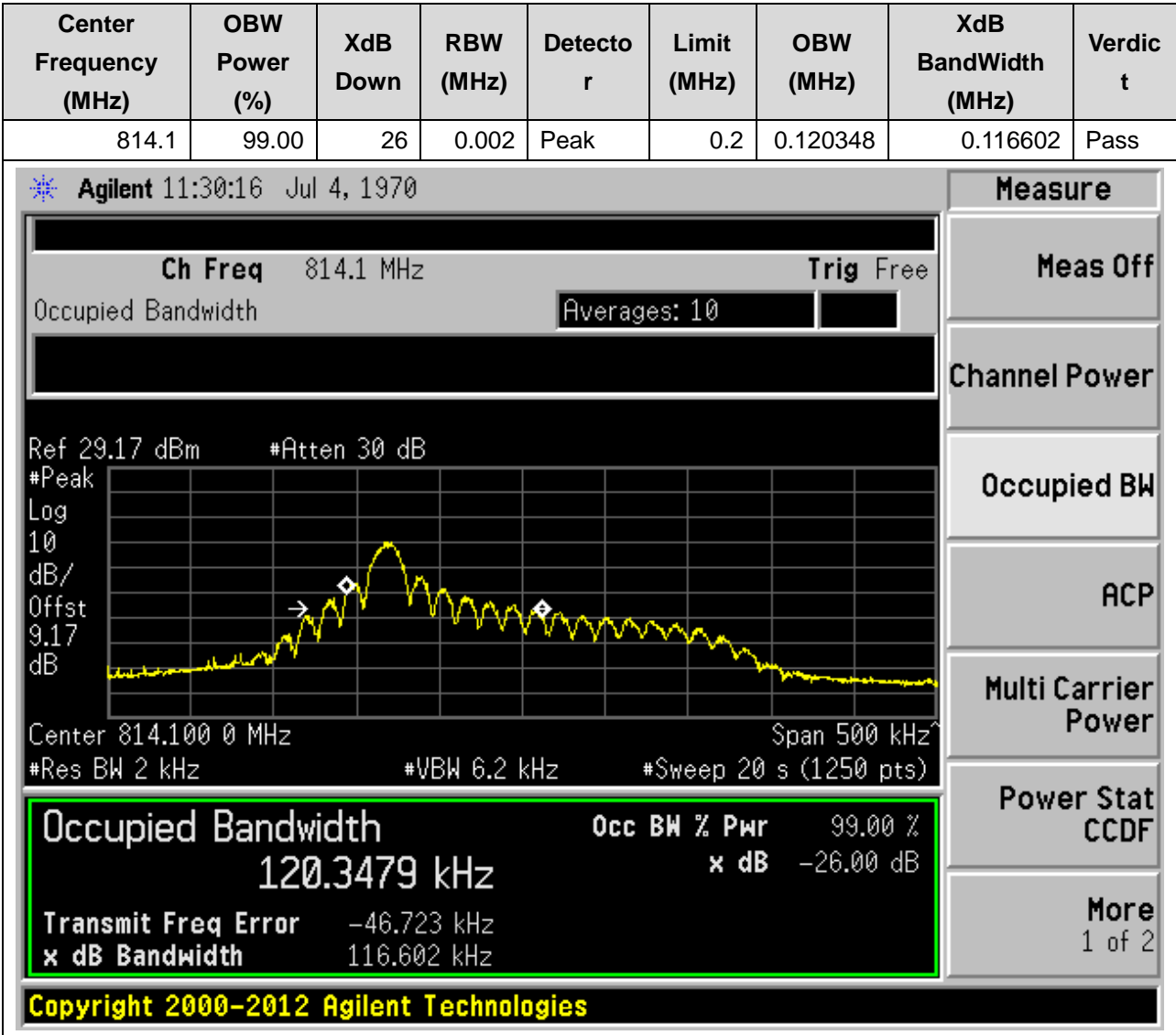
| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 823.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.061357 | 0.040215 | Pass |



**19.6. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_BPSK_3.75kHz_1@0_High**

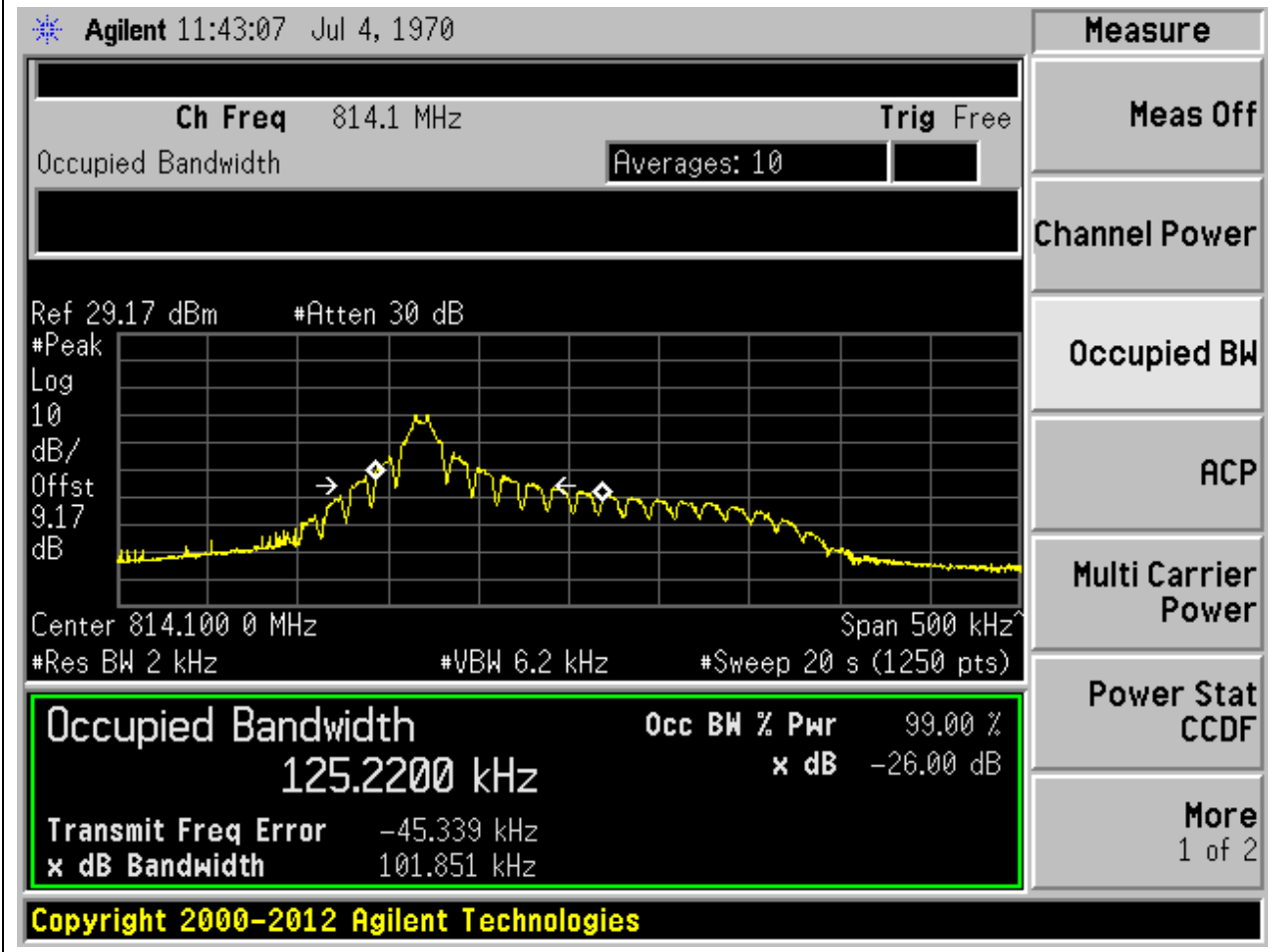


**19.7. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_QPSK_15kHz_1@0_Low**



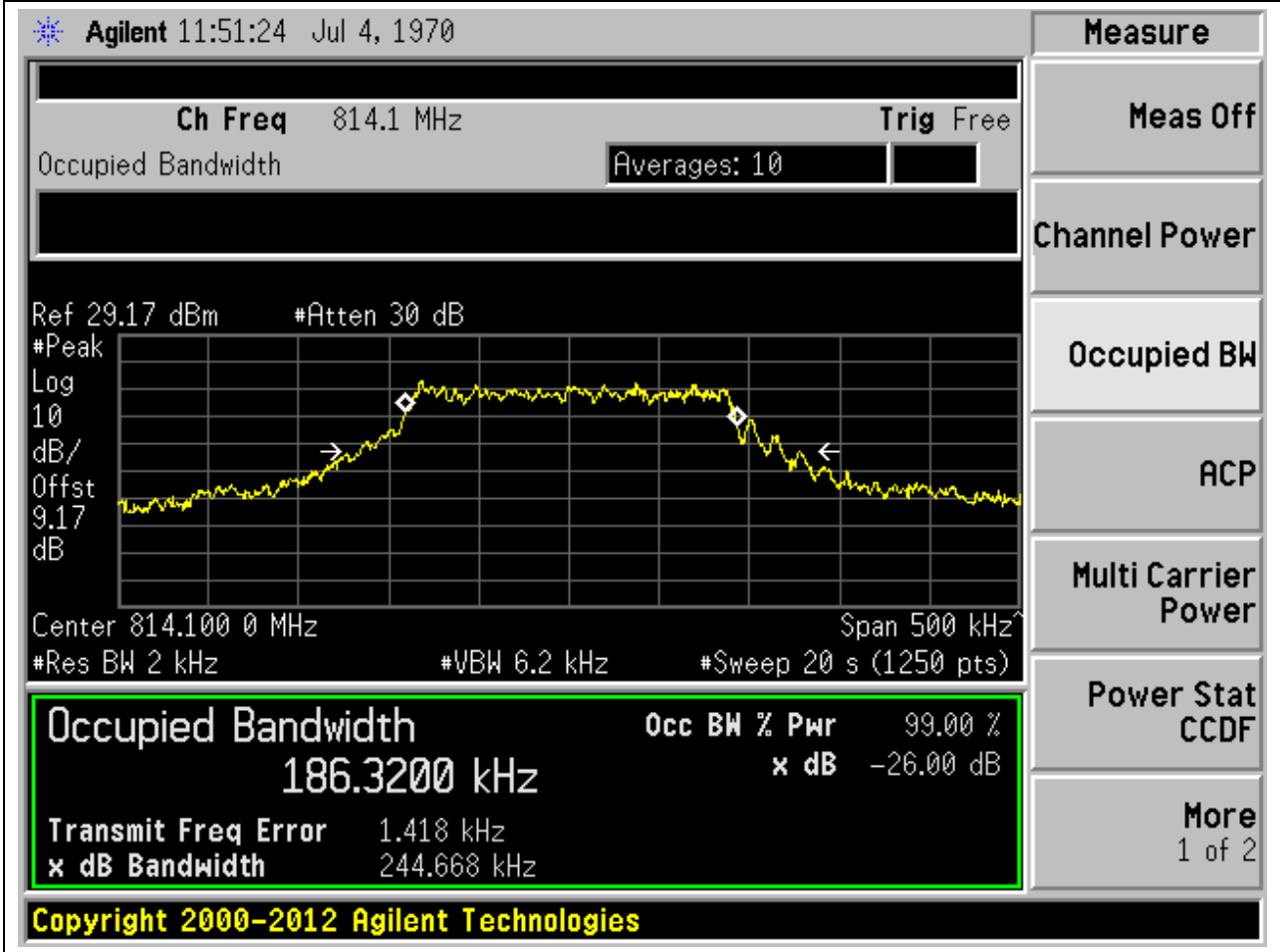
19.8. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_BPSK_15kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 814.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.12522 | 0.10185 | Pass |



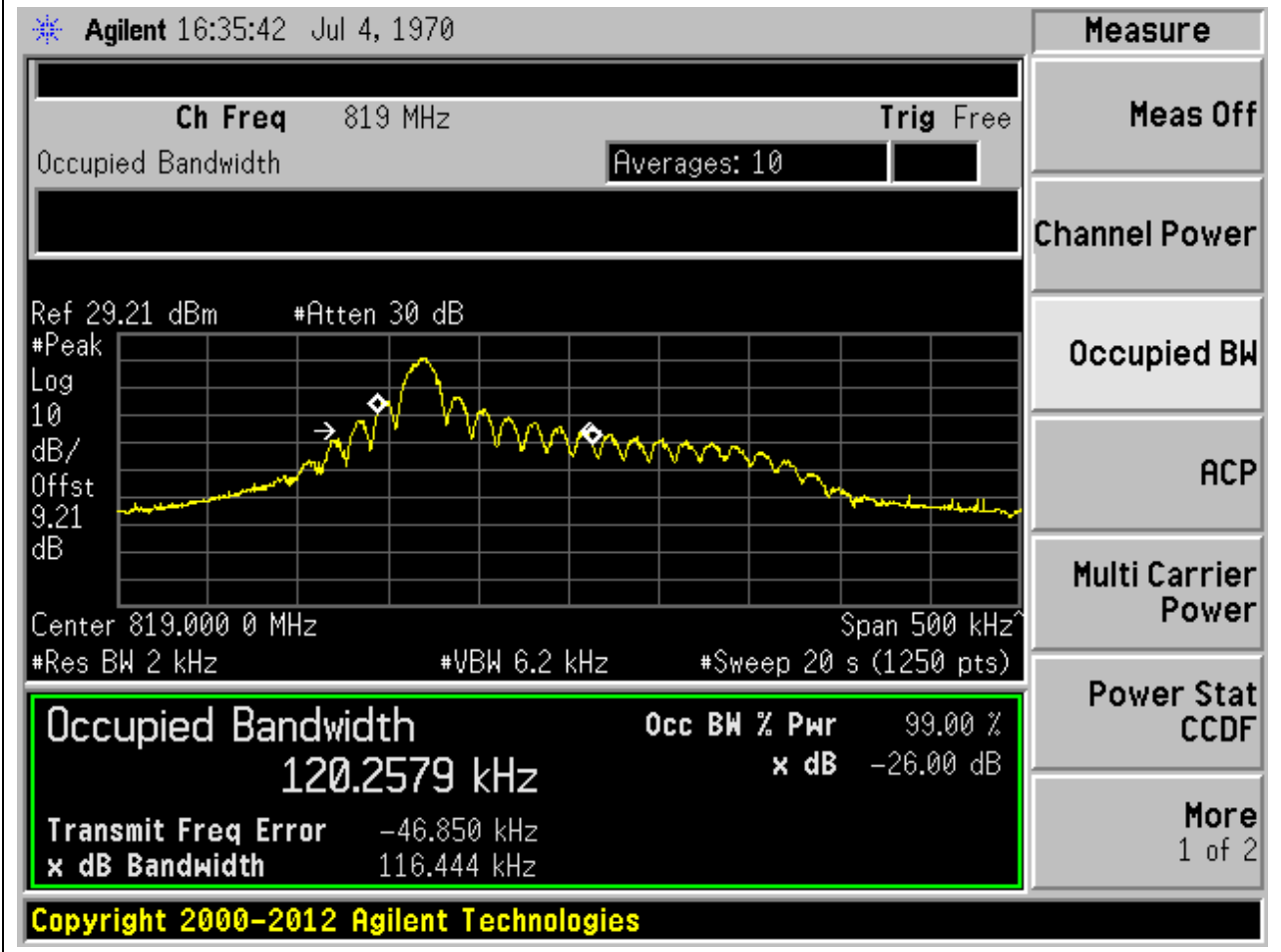
**19.9. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_QPSK_15kHz_12@0_Low**

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 814.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.18632 | 0.244668 | Pass |



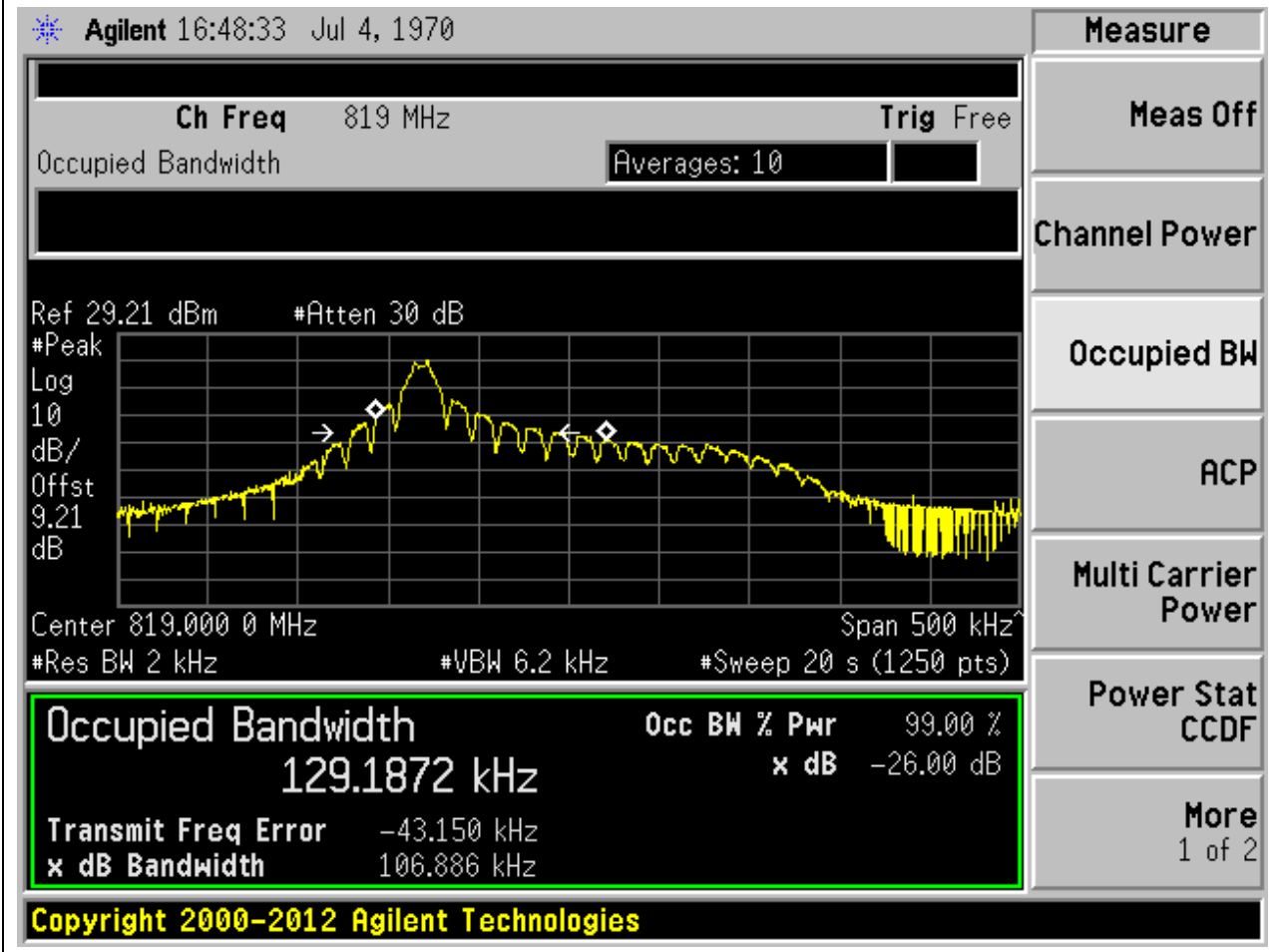
**19.10. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_QPSK_15kHz_1@0_Mid**

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 819 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.120258 | 0.116444 | Pass |



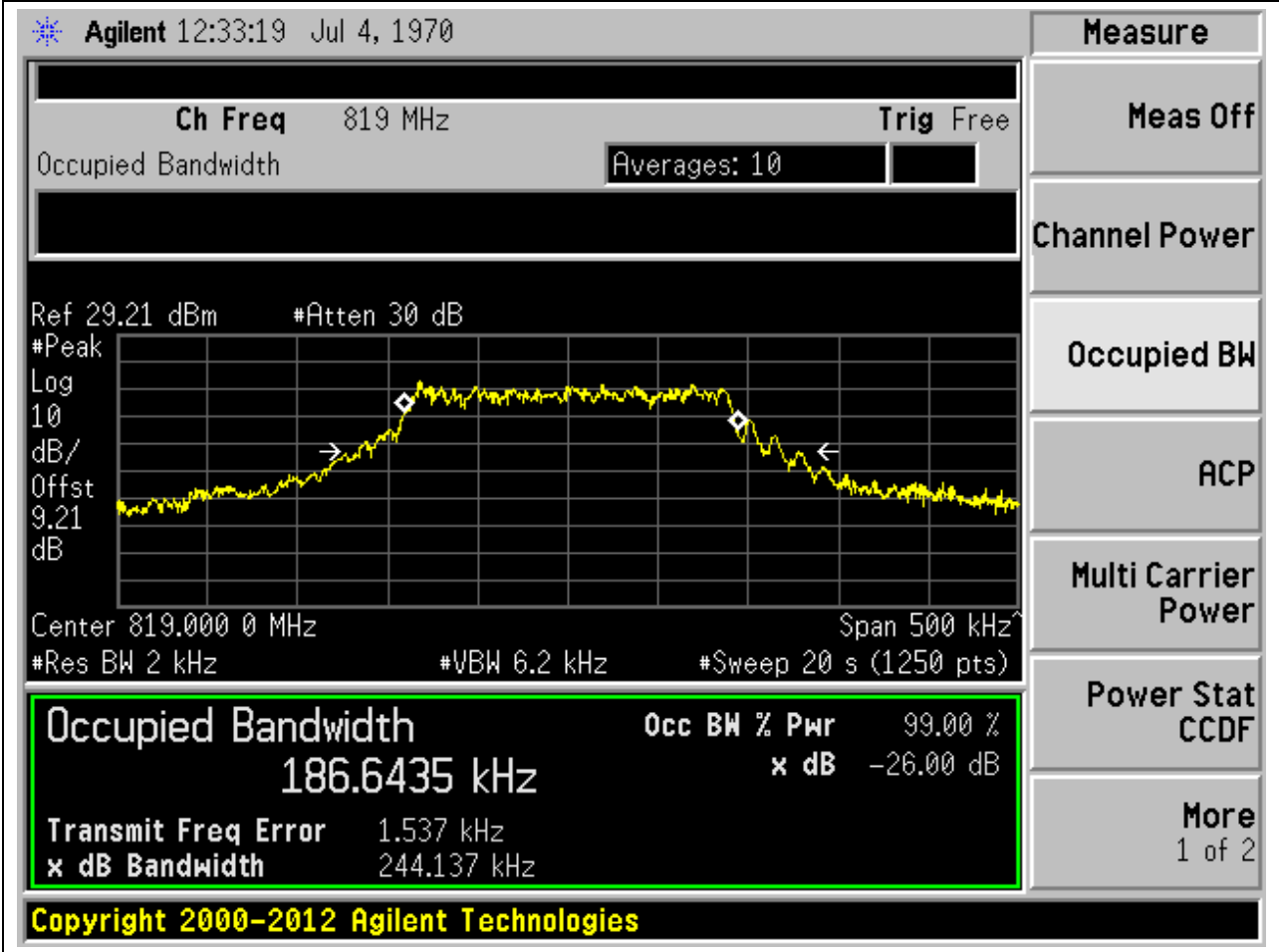
19.11. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_BPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 819 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.129187 | 0.106886 | Pass |

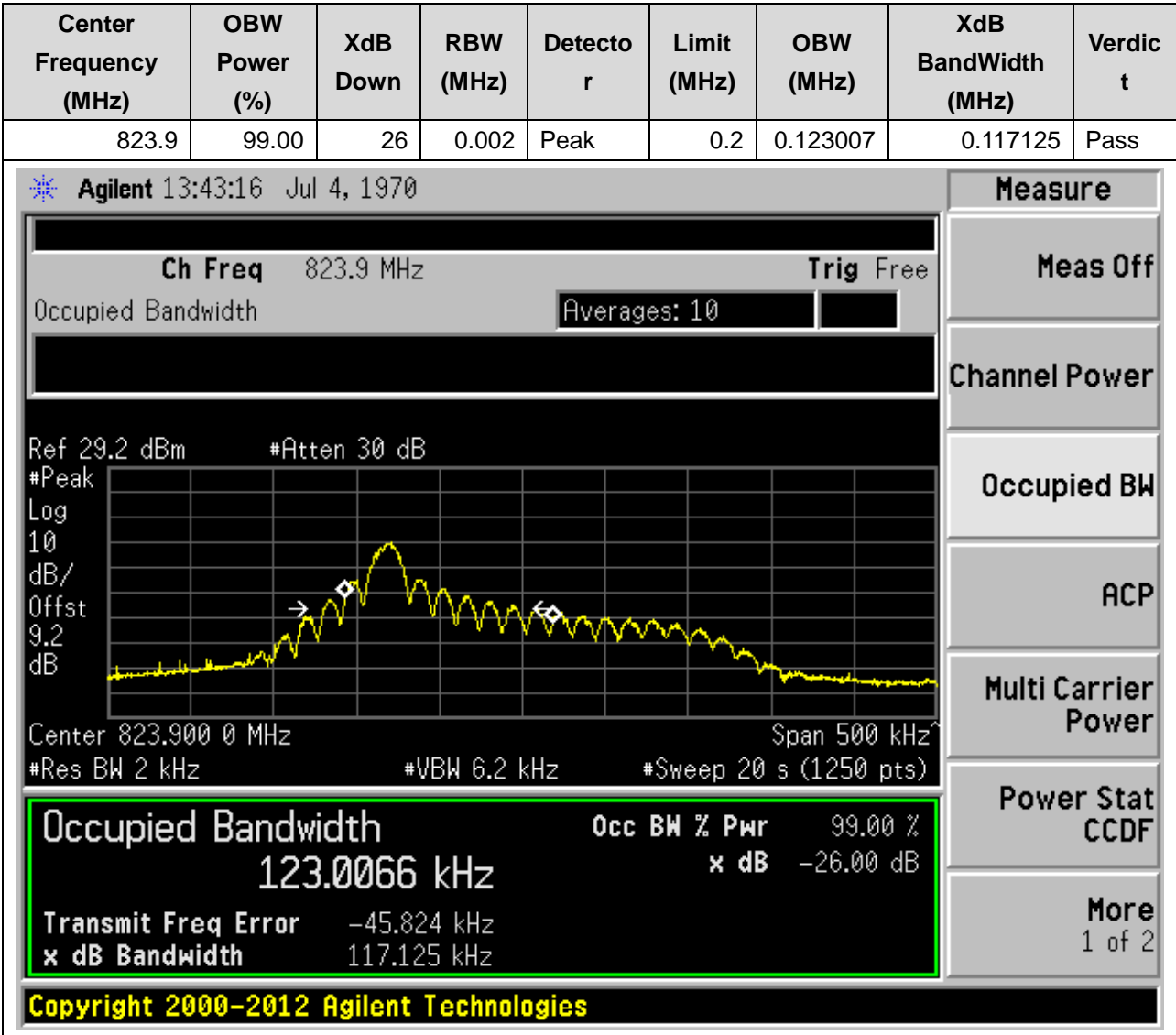


**19.12. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_QPSK_15kHz_12@0_Mid**

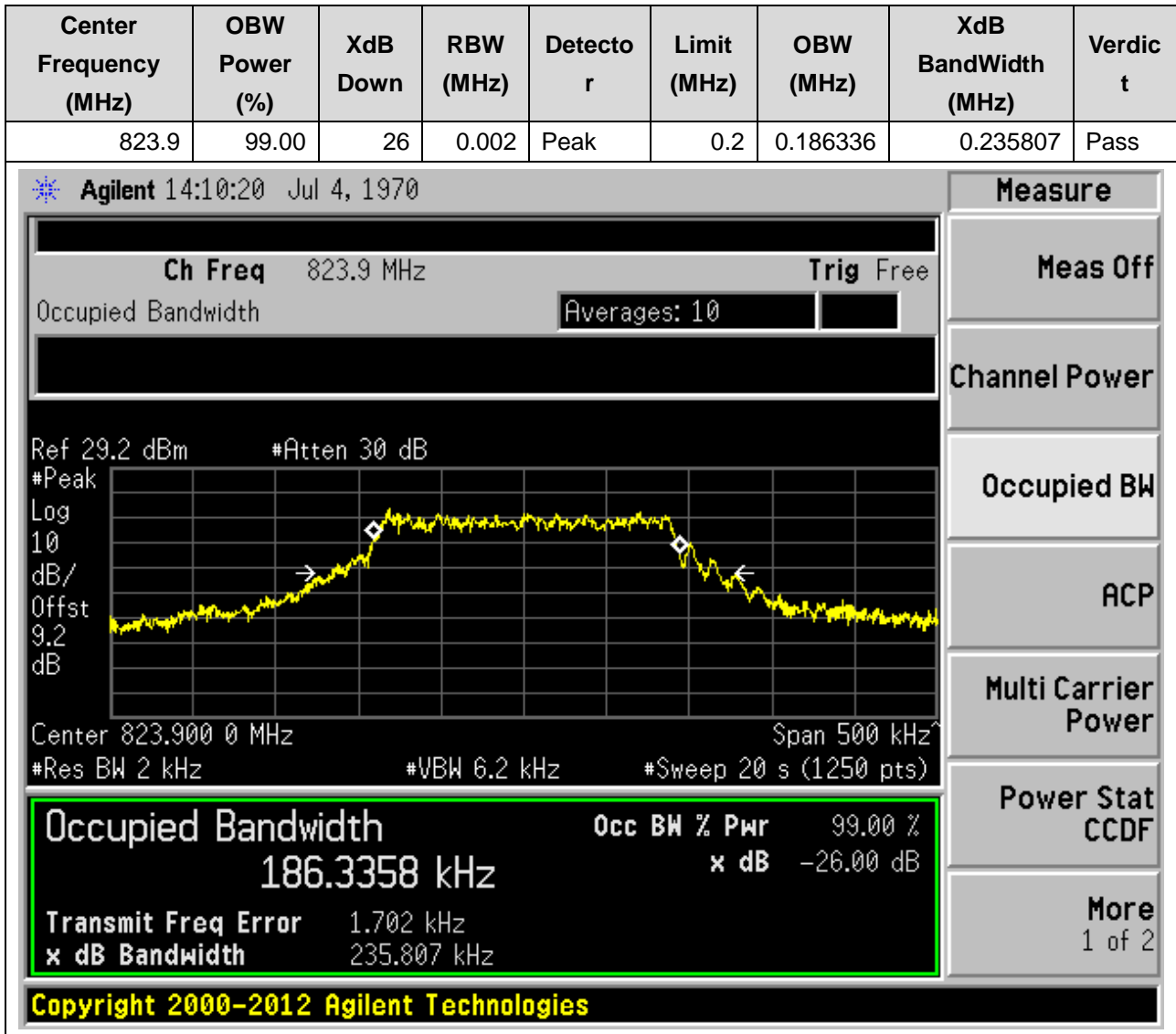
| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 819 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.186643 | 0.244137 | Pass |



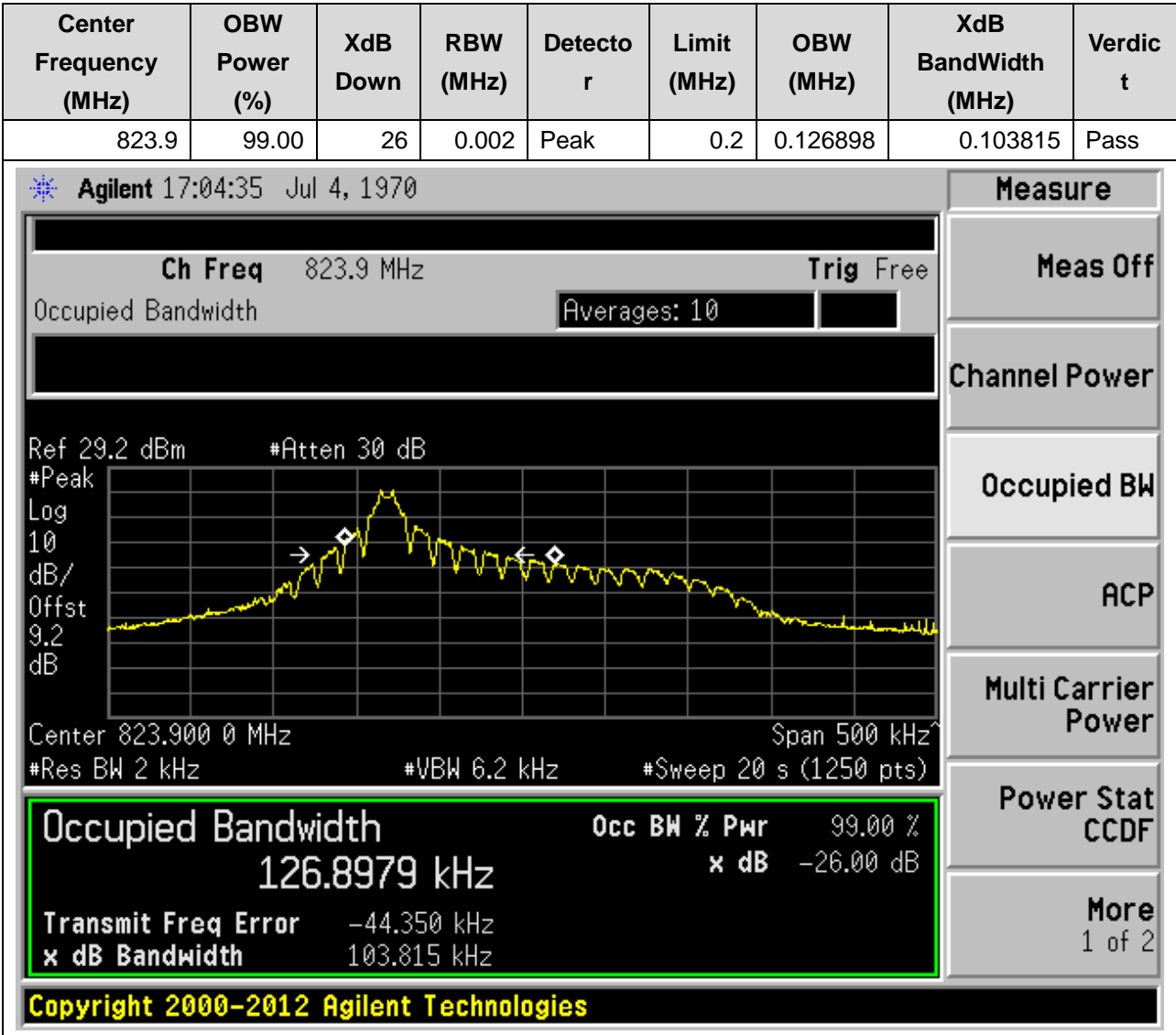
**19.13. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_QPSK_15kHz_1@0_High**



**19.14. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_QPSK_15kHz_12@0_High**



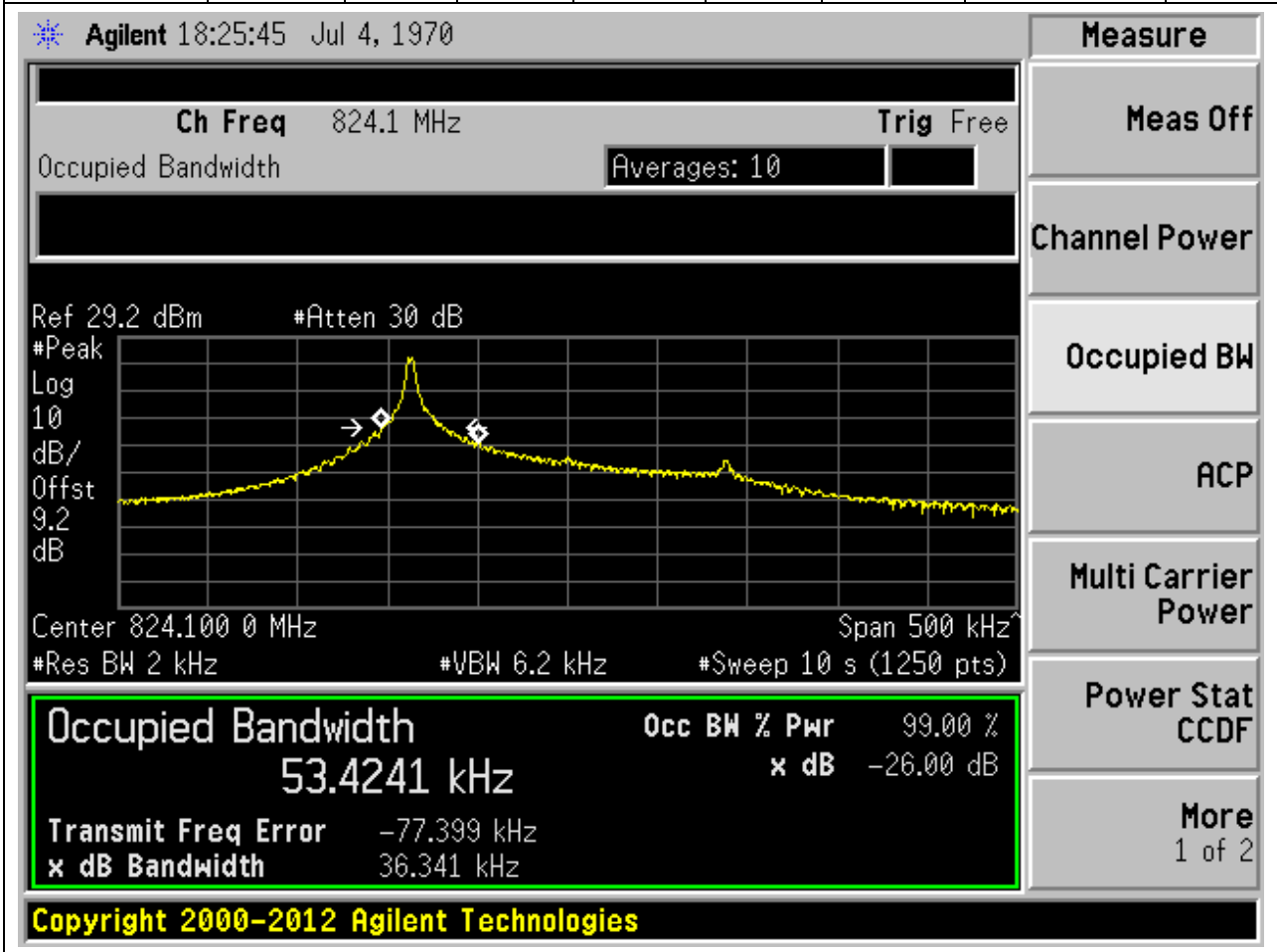
**19.15. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part90)_BPSK_15kHz_1@0_High**



20. NB-IOT Band26(Part22)

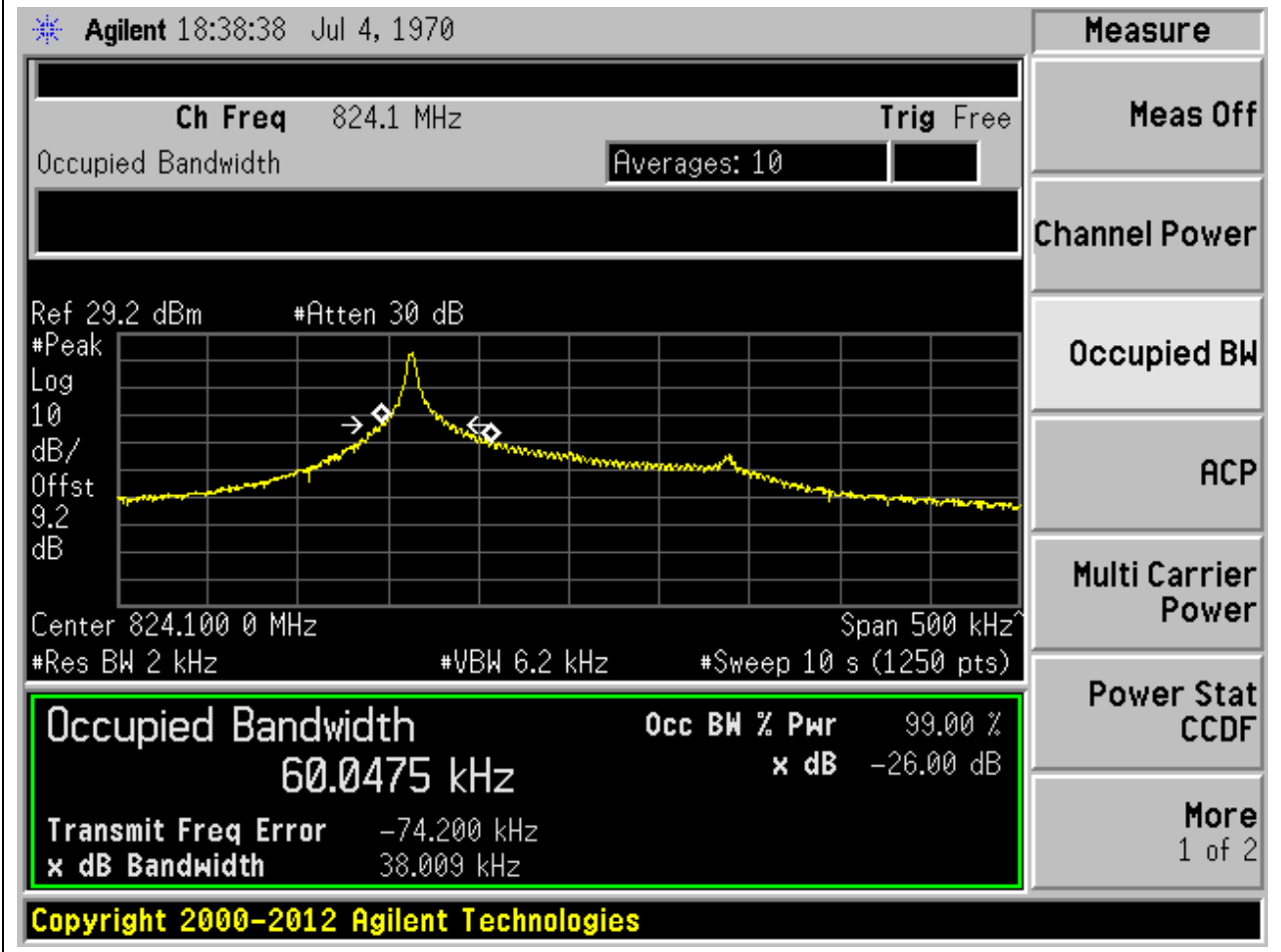
**20.1. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_QPSK_3.75kHz_1@0_Low**

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 824.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.053424 | 0.036341 | Pass |



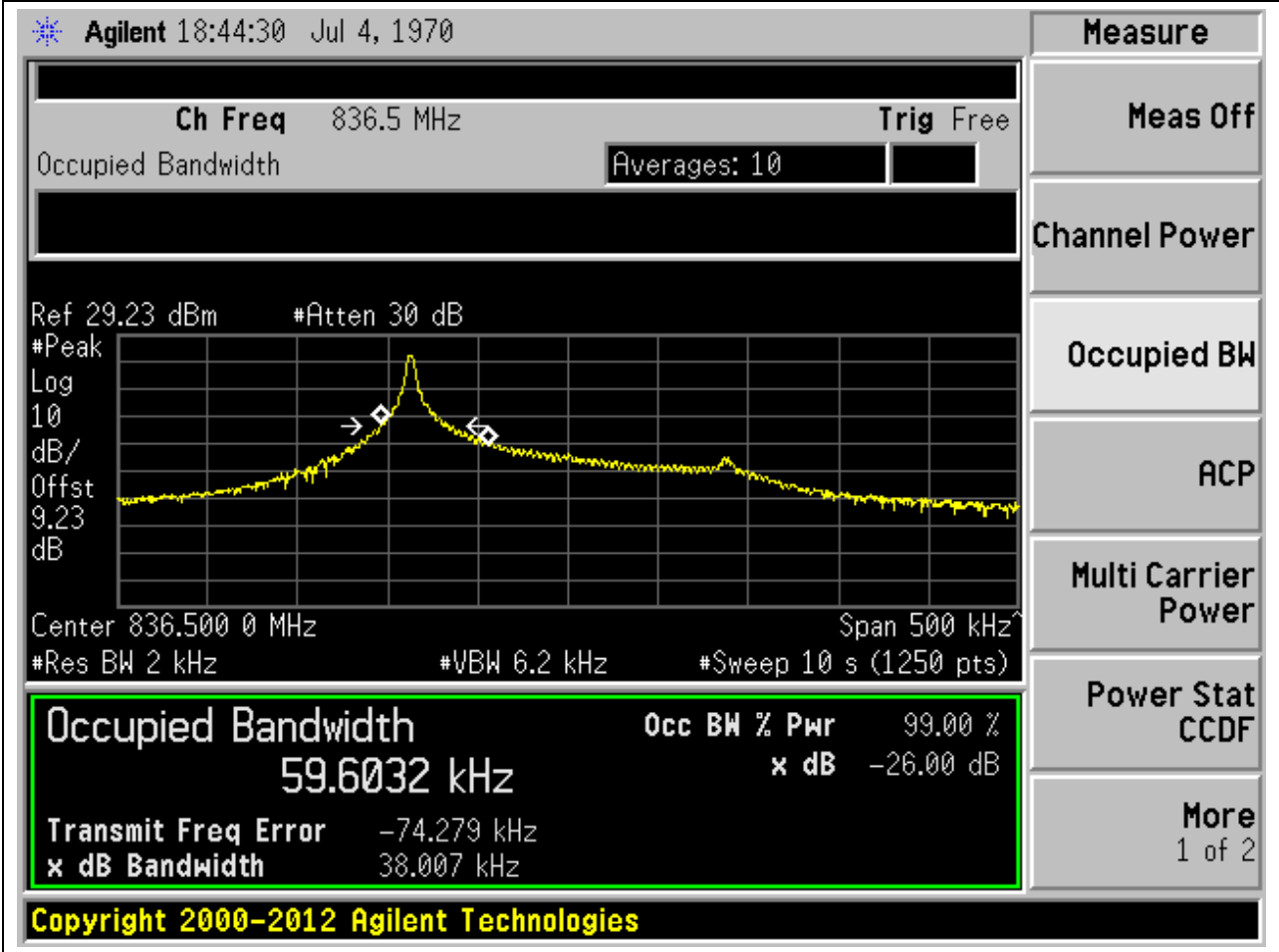
20.2. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_BPSK_3.75kHz_1@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 824.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.060048 | 0.038009 | Pass |

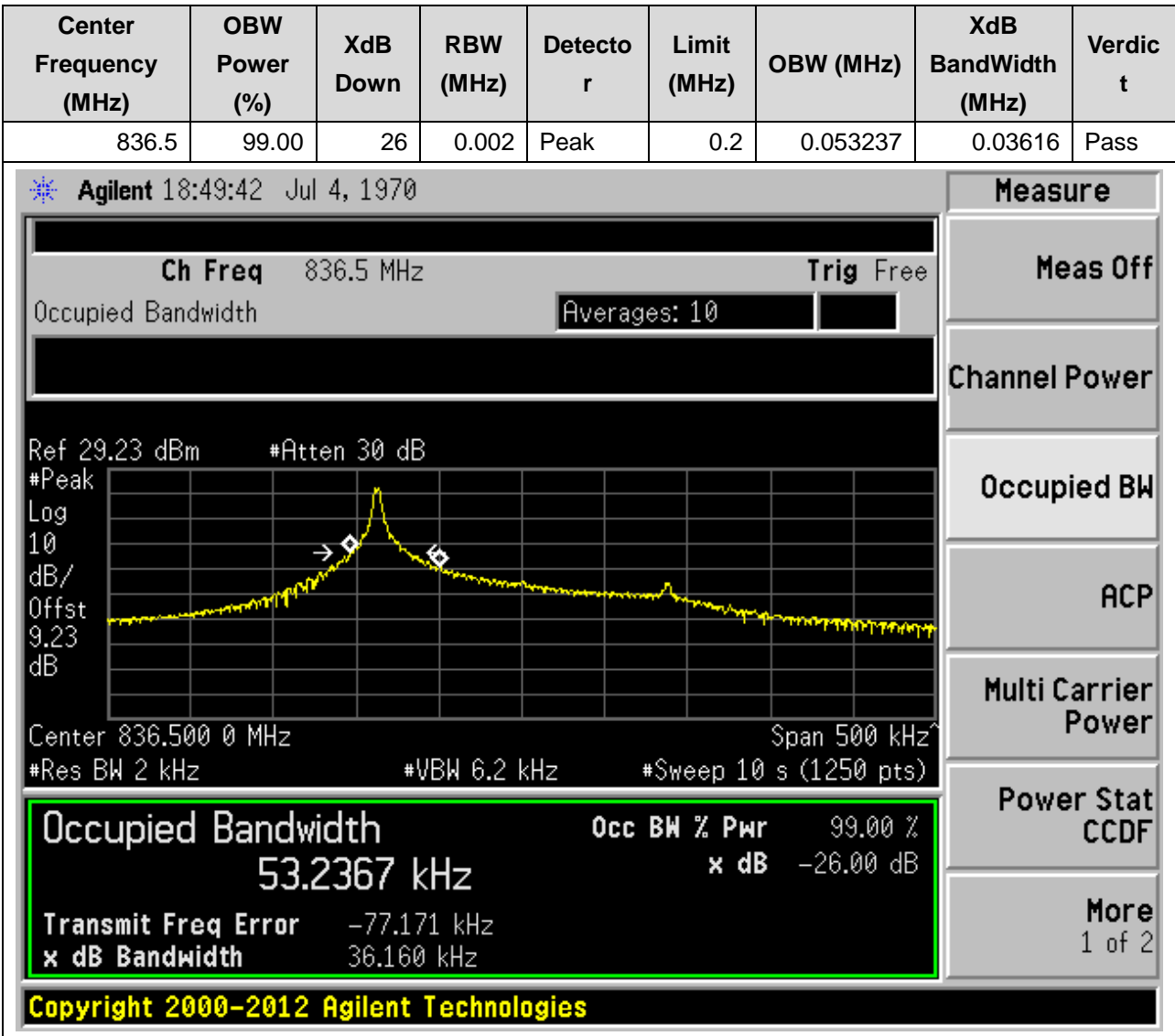


20.3. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_QPSK_3.75kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.059603 | 0.038007 | Pass |

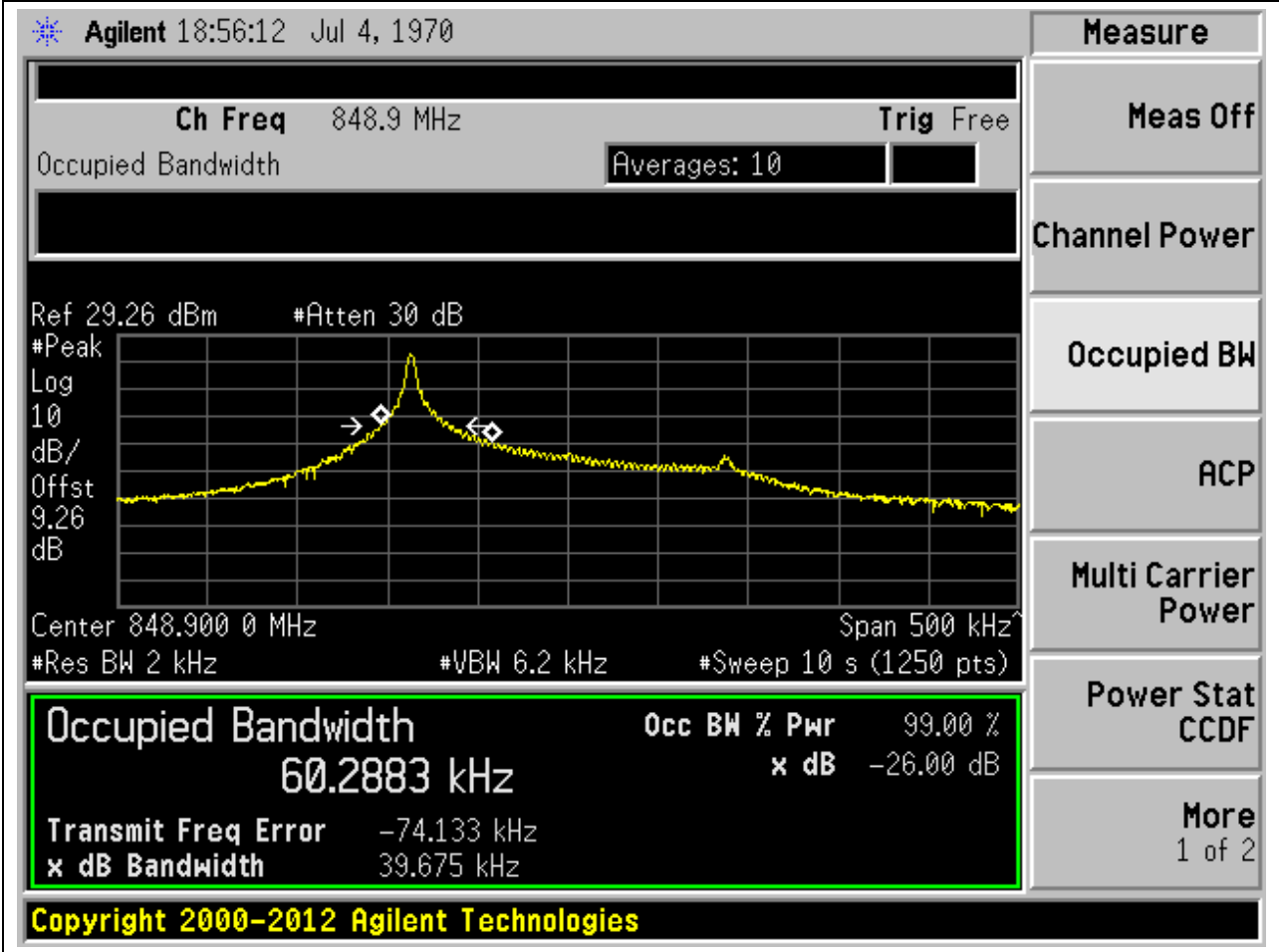


20.4. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_BPSK_3.75kHz_1@0_Mid



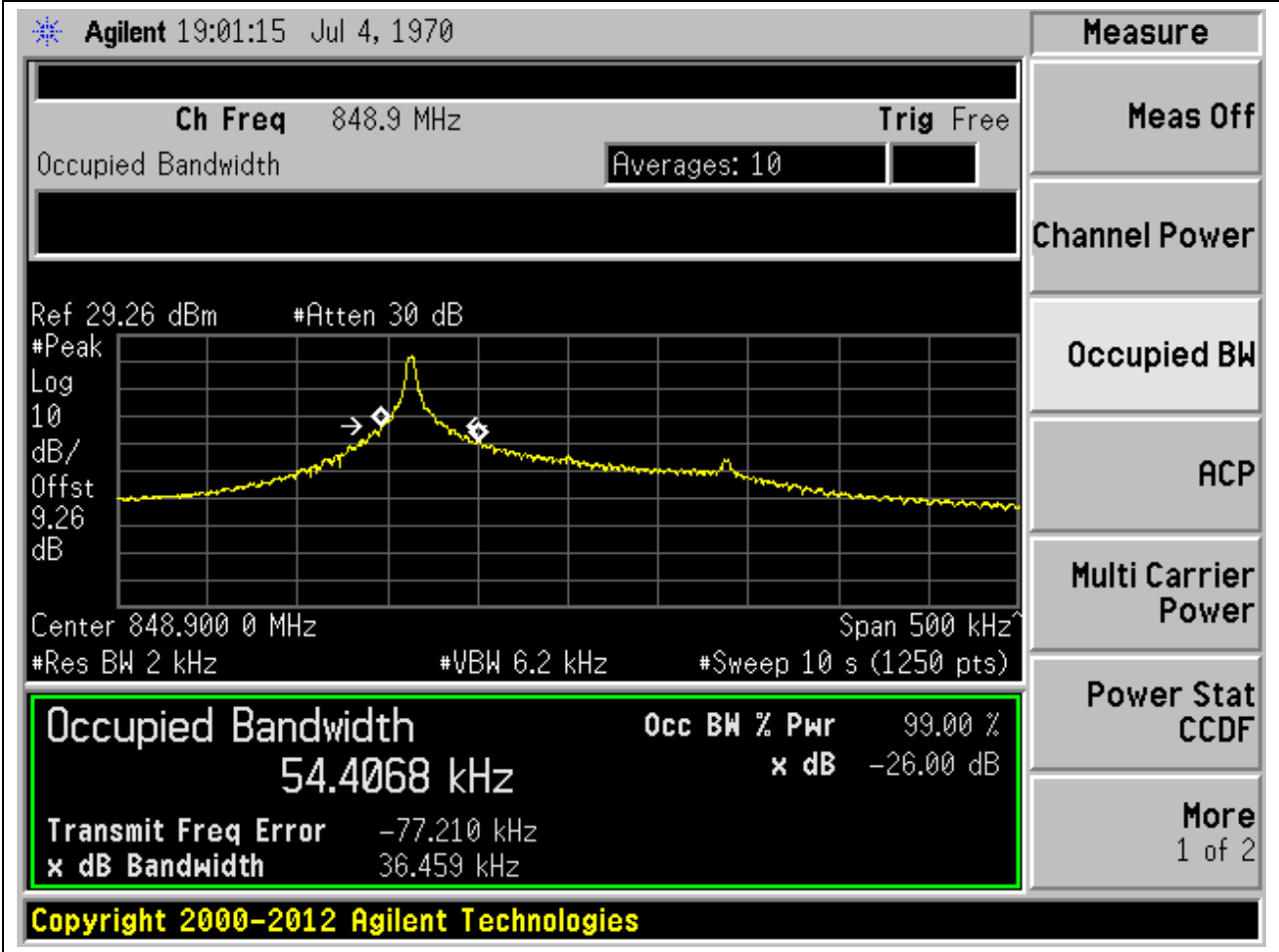
20.5. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_QPSK_3.75kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.060288 | 0.039675 | Pass |

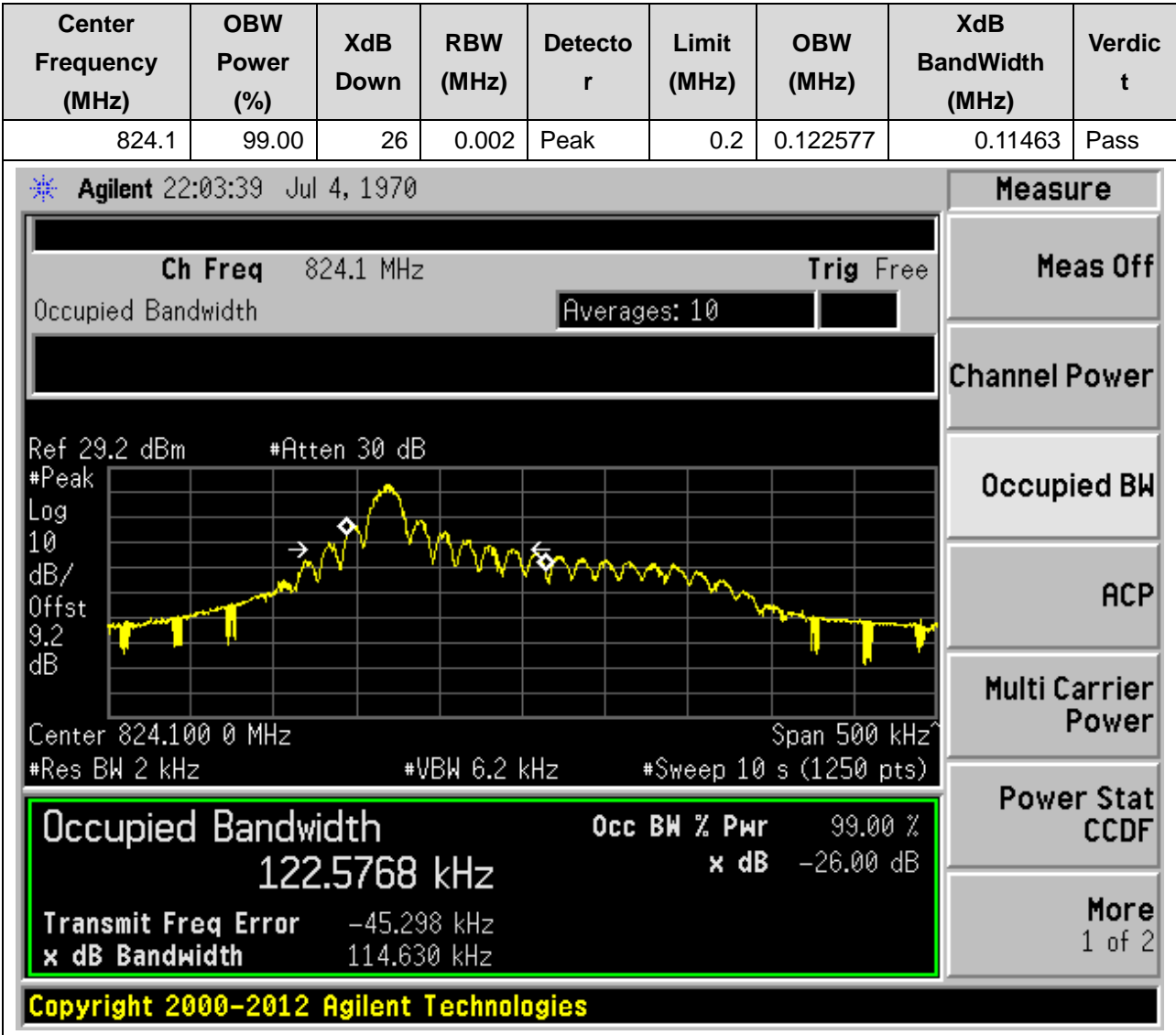


**20.6. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_BPSK_3.75kHz_1@0_High**

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.054407 | 0.036459 | Pass |

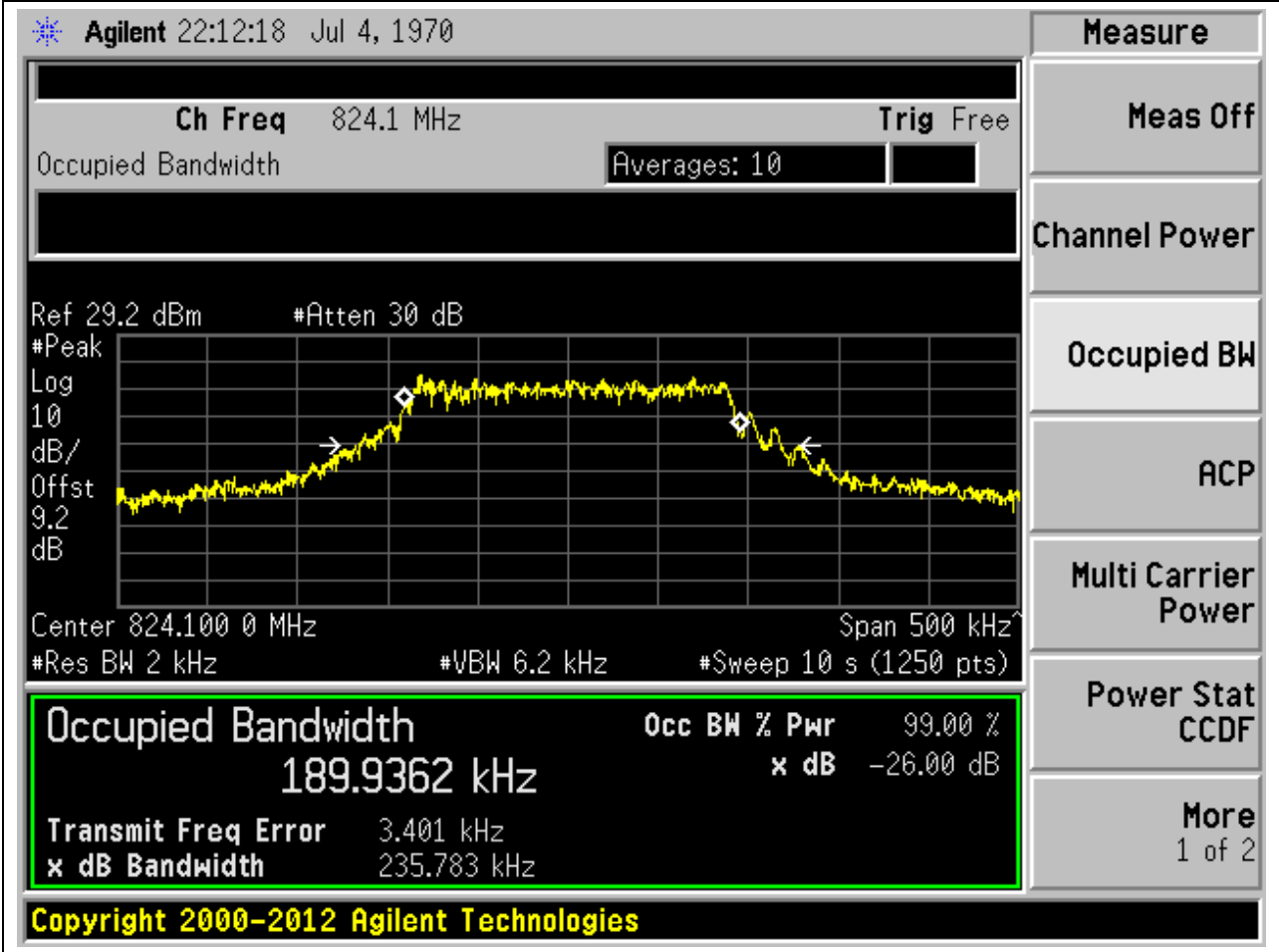


**20.7. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_QPSK_15kHz_1@0_Low**

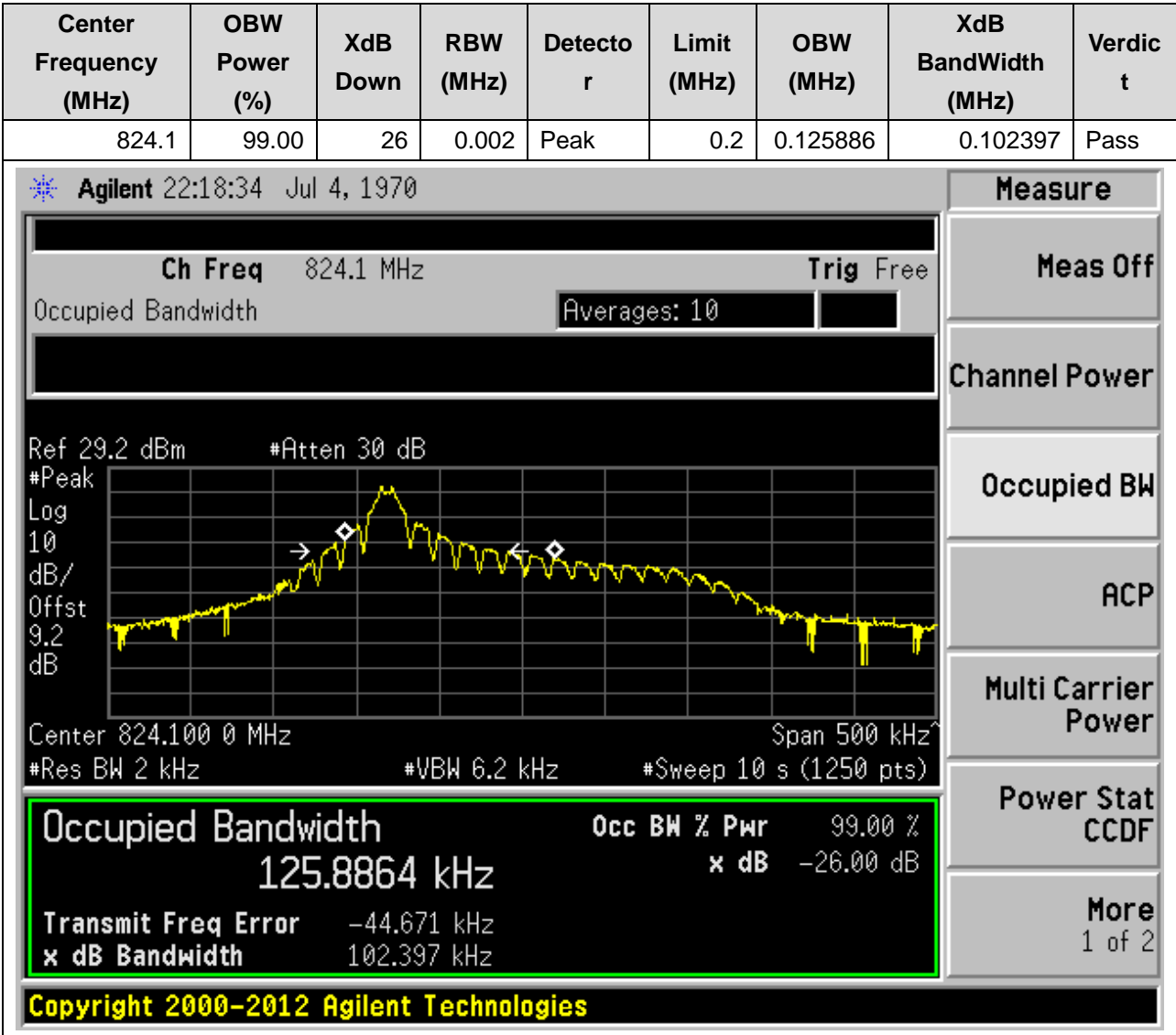


20.8. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_QPSK_15kHz_12@0_Low

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 824.1 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.189936 | 0.235783 | Pass |

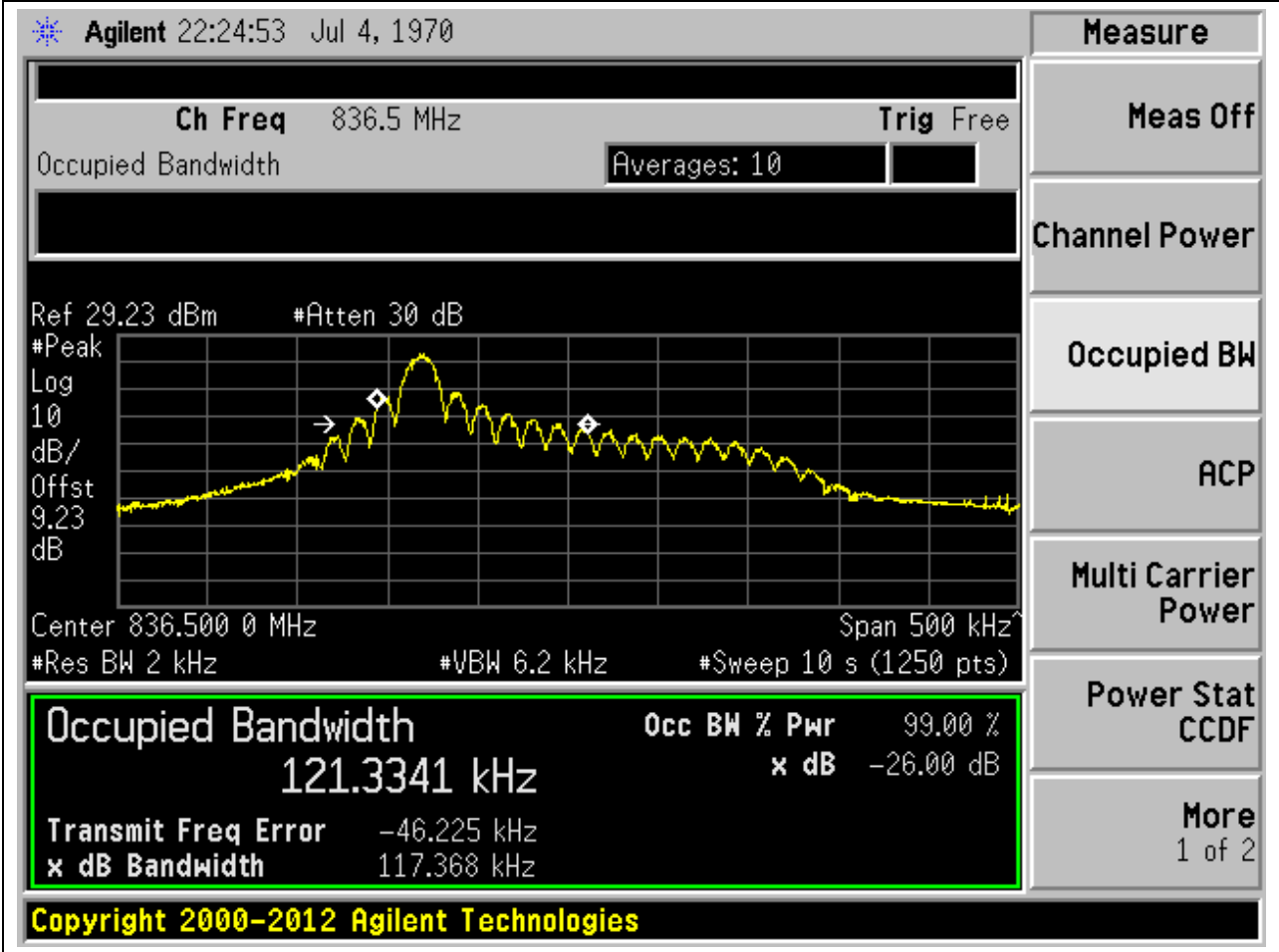


20.9. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_BPSK_15kHz_1@0_Low



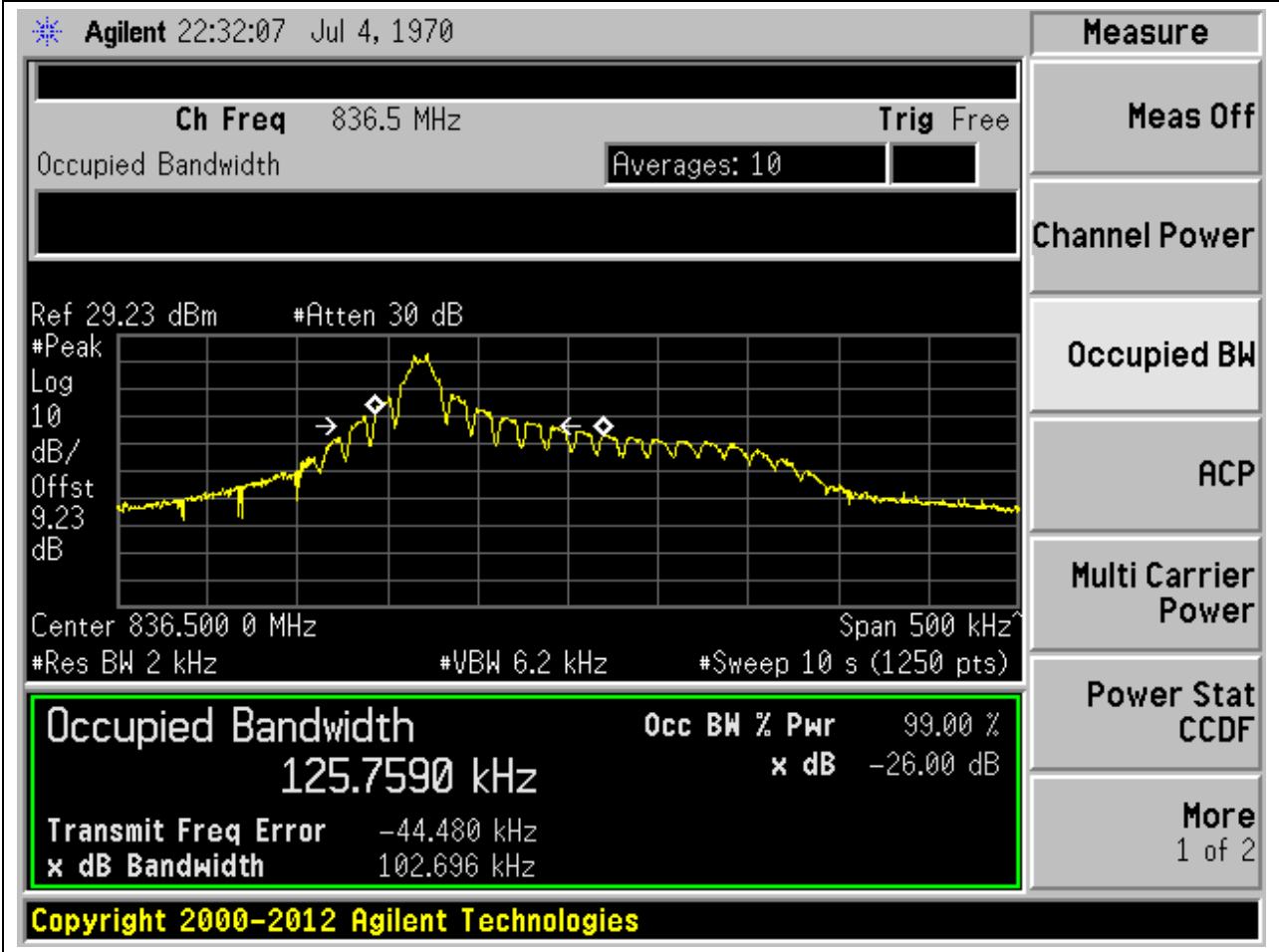
20.10. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_QPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.121334 | 0.117368 | Pass |



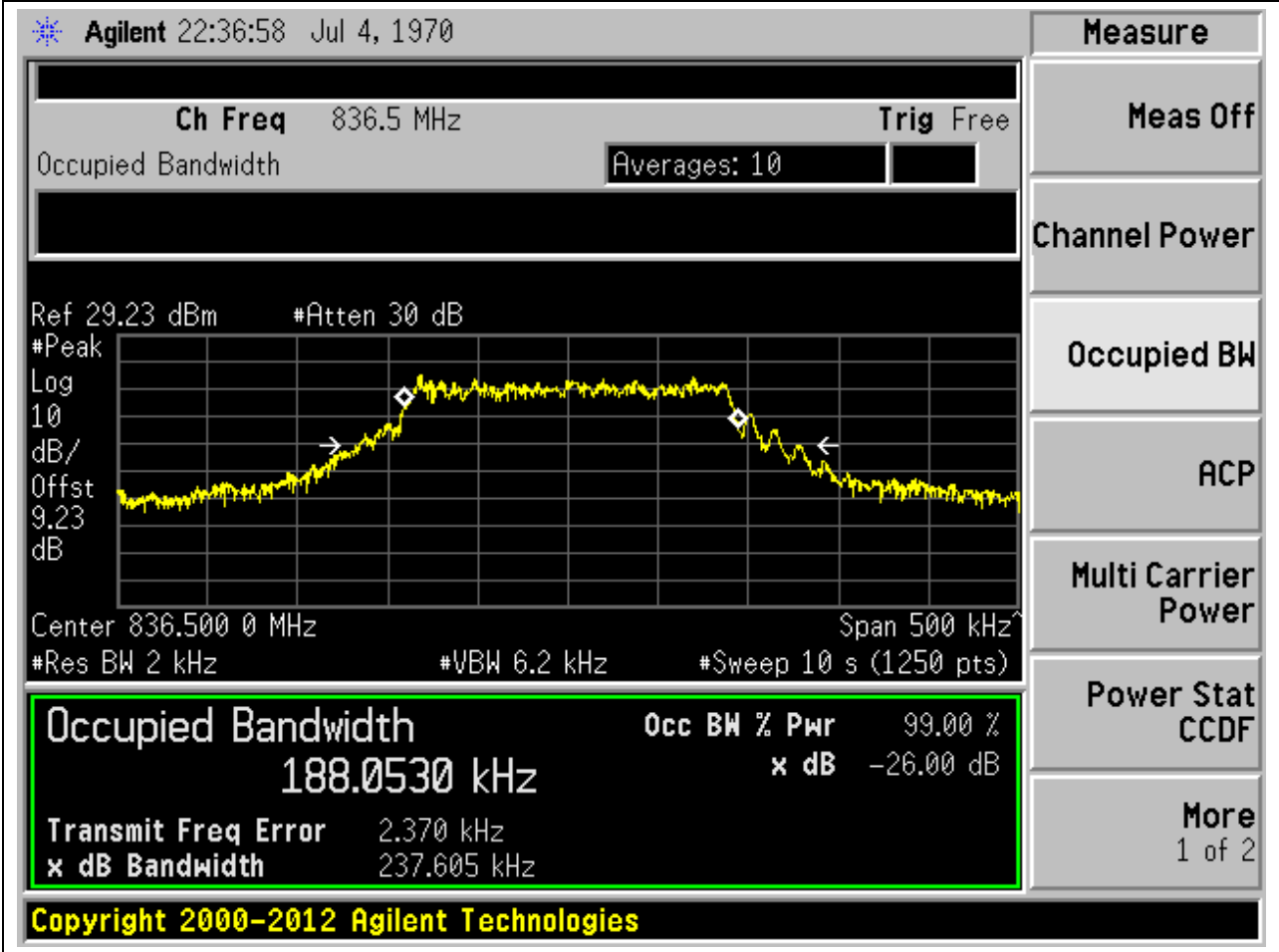
20.11. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_BPSK_15kHz_1@0_Mid

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.125759 | 0.102696 | Pass |

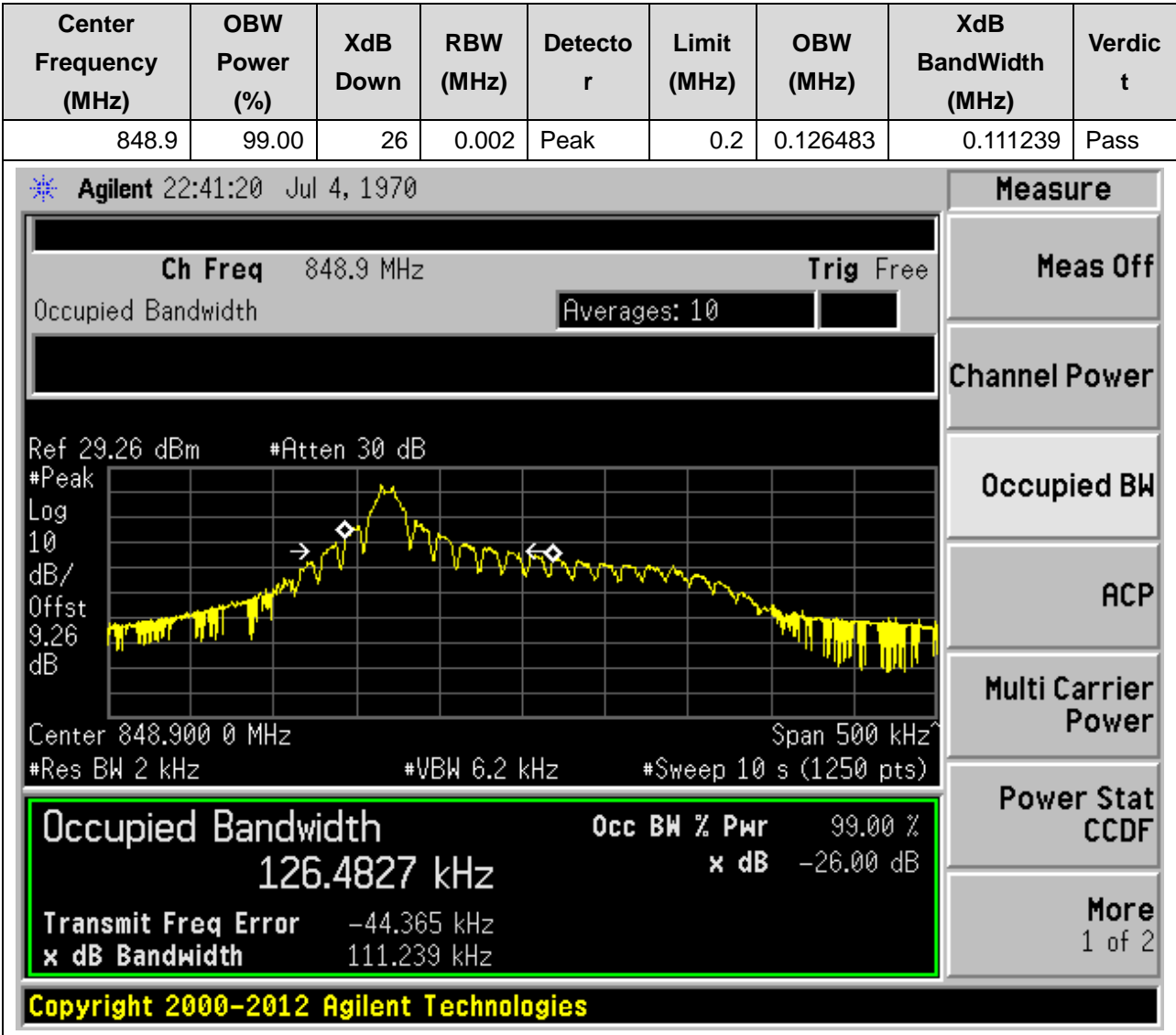


**20.12. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_QPSK_15kHz_12@0_Mid**

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 836.5 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.188053 | 0.237605 | Pass |



**20.13. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_QPSK_15kHz_1@0_High**



20.14. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_QPSK_15kHz_12@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.186711 | 0.245917 | Pass |

Agilent 06:26:15 Jul 6, 1970

Ch Freq 848.9 MHz Trig Free

Occupied Bandwidth Averages: 10

Ref 28.76 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.76 dB

Center 848.900 0 MHz Span 500 kHz

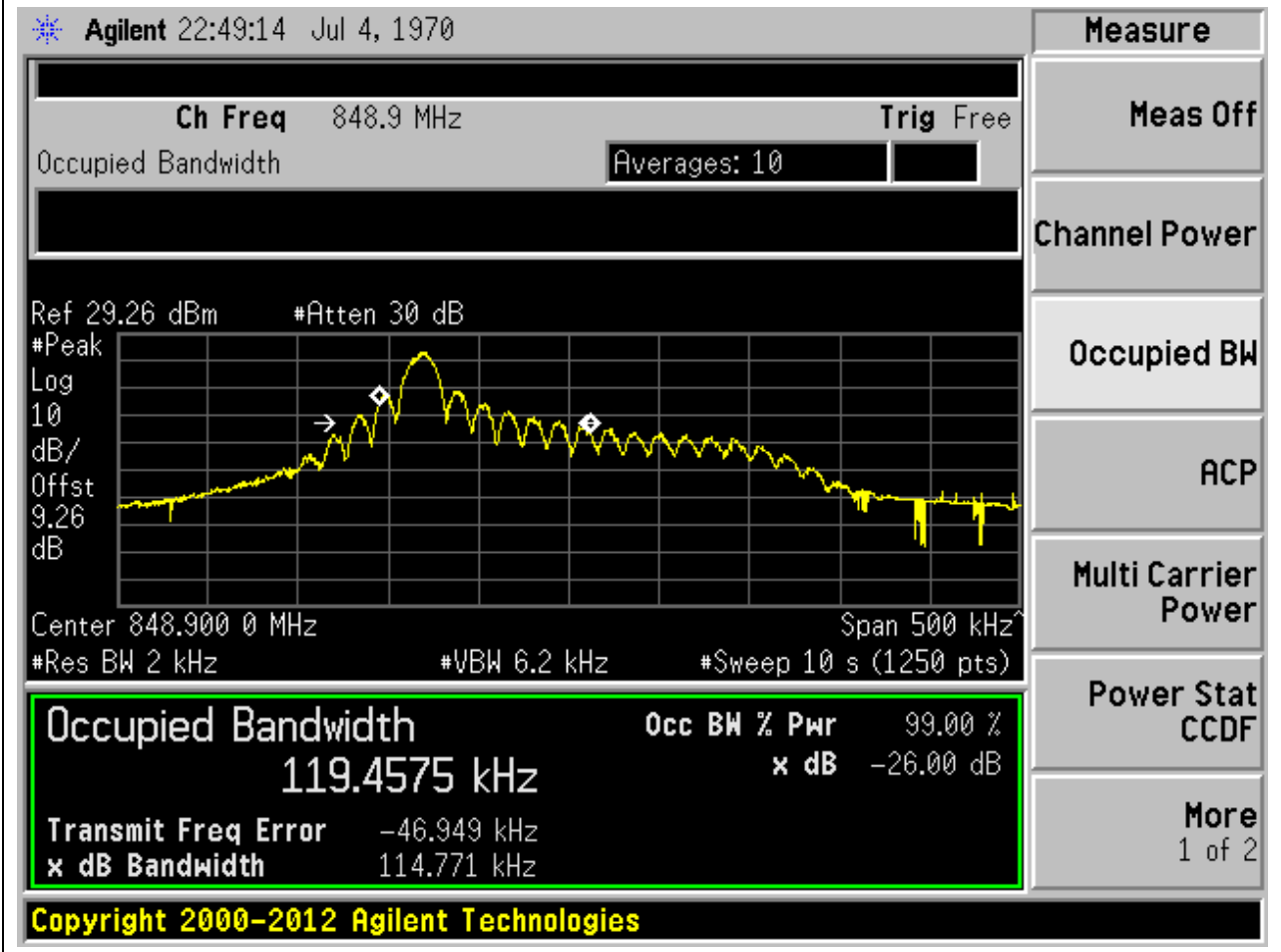
#Res BW 2 kHz #VBW 6.2 kHz #Sweep 20 s (1250 pts)

| | | |
|----------------------------|---------------------|-----------|
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % |
| 186.7113 kHz | x dB | -26.00 dB |
| Transmit Freq Error | 2.091 kHz | |
| x dB Bandwidth | 245.917 kHz | |

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20.15. NB-IoT Occupied Bandwidth(NTNV)
_Band26(Part22)_BPSK_15kHz_1@0_High

| Center Frequency (MHz) | OBW Power (%) | XdB Down | RBW (MHz) | Detector | Limit (MHz) | OBW (MHz) | XdB BandWidth (MHz) | Verdict |
|------------------------|---------------|----------|-----------|----------|-------------|-----------|---------------------|---------|
| 848.9 | 99.00 | 26 | 0.002 | Peak | 0.2 | 0.119457 | 0.114771 | Pass |



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