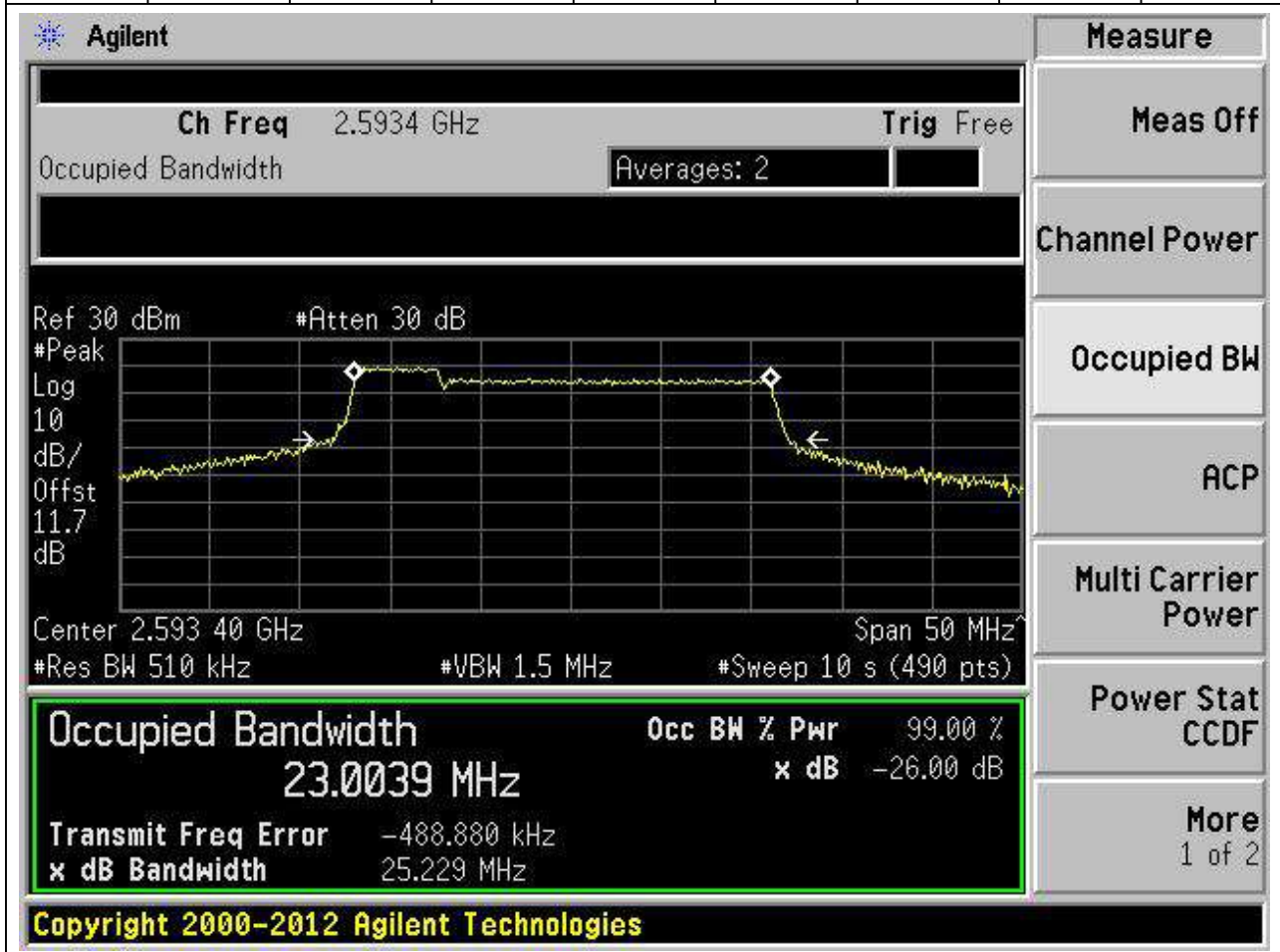


## 25. CA\_41C\_full

25.1. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:1, Channel:40528|40645, Bandwidth:5|20MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.4	99	26	0.51	Peak	23	25.23	25	Pass



**25.2. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:2,  
Channel:40528|40645, Bandwidth:5|20MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.4	99	26	0.51	Peak	23.02	25.01	25	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is titled 'Occupied Bandwidth' and shows a signal centered at 2.5934 GHz. The plot parameters include: Ref 30 dBm, #Peak Log, 10 dB/Offst, 11.7 dB, Center 2.59340 GHz, Span 50 MHz, #Res BW 510 kHz, #VBW 1.5 MHz, and #Sweep 10 s (490 pts). The plot shows a signal with a peak at approximately 2.5934 GHz and a bandwidth of 23.0204 MHz. The signal level is 99.00% and the XdB Down is -26.00 dB. The plot also shows the Transmit Freq Error as -494.351 kHz and the x dB Bandwidth as 25.012 MHz.

On the right side of the interface, there is a 'Measure' menu with the following options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

At the bottom of the interface, there is a copyright notice: Copyright 2000-2012 Agilent Technologies.

**25.3. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:3, Channel:40595|40712, Bandwidth:20|5MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.6	99	26	0.51	Peak	23.03	25.01	25	Pass

Agilent
Measure

Ch Freq 2.5926 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.7 dB

Center 2.59260 GHz Span 50 MHz

#Res BW 510 kHz #VBW 1.5 MHz #Sweep 10 s (490 pts)

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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

**23.0275 MHz** x dB -26.00 dB

Transmit Freq Error 489.067 kHz

x dB Bandwidth 25.008 MHz

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**25.4. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:4,  
Channel:40595|40712, Bandwidth:20|5MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.6	99	26	0.51	Peak	22.99	25.13	25	Pass

**Agilent**

Ch Freq 2.5926 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.7 dB

Center 2.592 60 GHz Span 50 MHz

#Res BW 510 kHz #VBW 1.5 MHz #Sweep 10 s (490 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>22.9933 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		484.298 kHz
<b>x dB Bandwidth</b>		25.132 MHz

**Measure**

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

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**25.5. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:5,  
Channel:40526|40670, Bandwidth:10|20MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.3	99	26	0.62	Peak	27.9	31.24	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.5933 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', '#Peak Log', '10 dB/Offst', and '11.7 dB'. The plot shows a signal with a peak at approximately 2.5933 GHz. Below the plot, the following parameters are displayed: 'Center 2.593 30 GHz', 'Span 60 MHz', '#Res BW 620 kHz', '#VBW 1.8 MHz', and '#Sweep 10 s (483 pts)'. A green box highlights the 'Occupied Bandwidth' measurement results: 'Occupied Bandwidth 27.8968 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error -345.604 kHz' and 'x dB Bandwidth 31.243 MHz'. On the right side, there is a 'Measure' menu with options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

**25.6. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:6,  
Channel:40526|40670, Bandwidth:10|20MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.3	99	26	0.62	Peak	27.91	31.02	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.5933 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm' and '#Atten 30 dB'. The y-axis is labeled '#Peak Log 10 dB/Offst 11.7 dB'. The x-axis is labeled 'Center 2.593 30 GHz' and 'Span 60 MHz'. Below the plot, it shows '#Res BW 620 kHz', '#VBW 1.8 MHz', and '#Sweep 10 s (483 pts)'. A green box highlights the measurement results:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>27.9098 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-327.890 kHz
<b>x dB Bandwidth</b>		31.024 MHz

On the right side, there is a 'Measure' menu with options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2). At the bottom, it says 'Copyright 2000-2012 Agilent Technologies'.

**25.7. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:7,  
Channel:40571|40715, Bandwidth:20|10MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.8	99	26	0.62	Peak	27.96	32.26	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.5928 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm' and '#Atten 30 dB'. The y-axis is labeled '#Peak Log 10 dB/Offst 11.7 dB'. The x-axis is labeled 'Center 2.59280 GHz' and 'Span 60 MHz'. Below the plot, the following parameters are shown: '#Res BW 620 kHz', '#VBW 1.8 MHz', and '#Sweep 10 s (483 pts)'. A green box highlights the 'Occupied Bandwidth' measurement results: 'Occupied Bandwidth 27.9627 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error 317.183 kHz' and 'x dB Bandwidth 32.261 MHz'. On the right side, there is a 'Measure' menu with options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

**25.8. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:8,  
Channel:40571|40715, Bandwidth:20|10MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.8	99	26	0.62	Peak	27.98	32.33	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.5928 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot parameters include 'Ref 30 dBm', '#Atten 30 dB', '#Peak Log', '10 dB/Offst', and '11.7 dB'. The plot shows a signal with a peak at approximately 2.5928 GHz. Below the plot, the following parameters are displayed: 'Center 2.59280 GHz', 'Span 60 MHz', '#Res BW 620 kHz', '#VBW 1.8 MHz', and '#Sweep 10 s (483 pts)'. A green box highlights the 'Occupied Bandwidth' measurement results: 'Occupied Bandwidth 27.9792 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error 286.680 kHz' and 'x dB Bandwidth 32.327 MHz'. On the right side, there is a 'Measure' menu with options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.



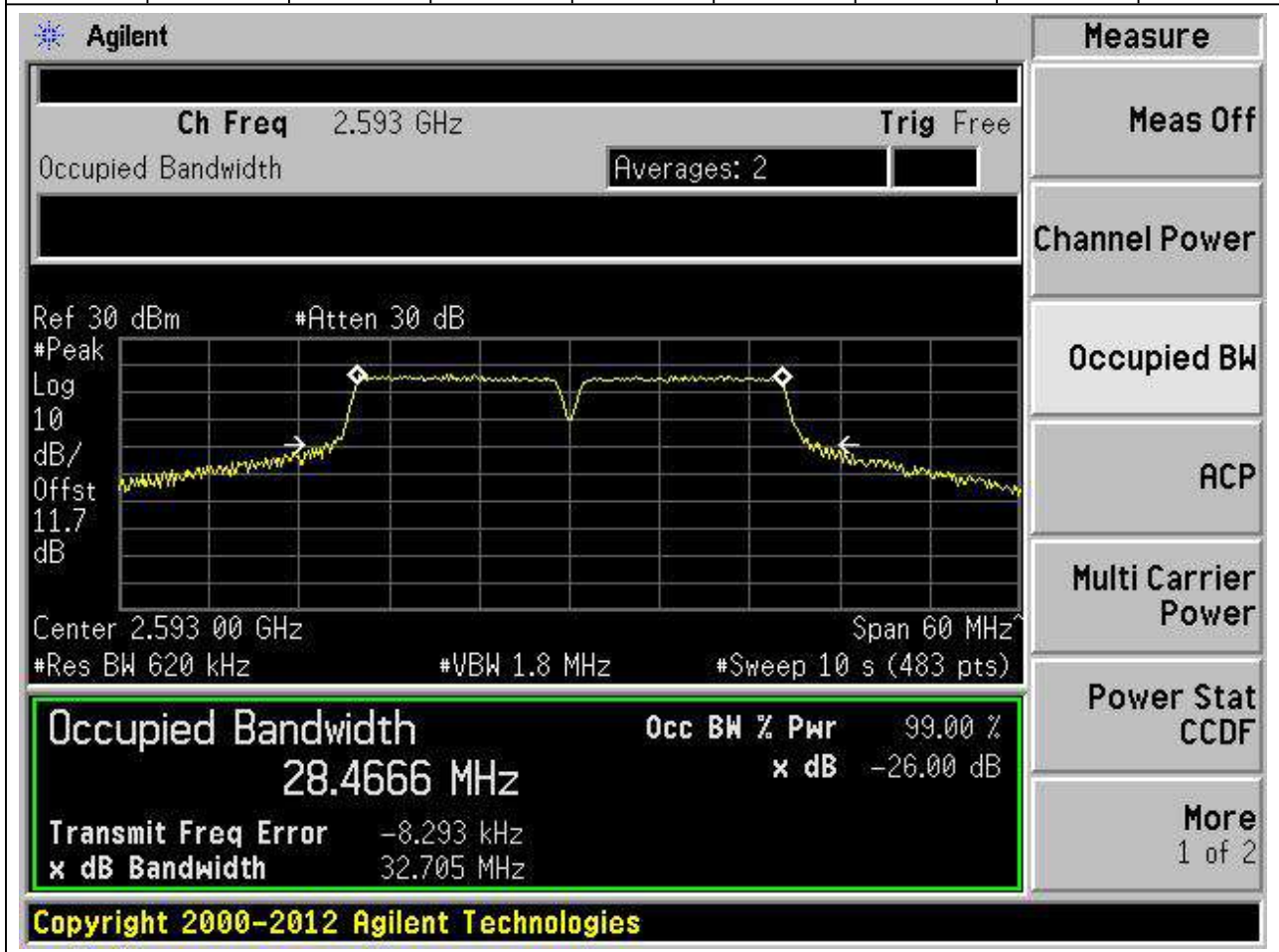
**25.9. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:9,  
Channel:40545|40695, Bandwidth:15|15MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.62	Peak	28.53	32.02	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.593 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm' and '#Atten 30 dB'. The y-axis is labeled '#Peak Log 10 dB/Offst 11.7 dB'. The x-axis is labeled 'Center 2.593 00 GHz' and 'Span 60 MHz'. Below the plot, the following parameters are shown: '#Res BW 620 kHz', '#VBW 1.8 MHz', and '#Sweep 10 s (483 pts)'. A green box highlights the 'Occupied Bandwidth' measurement results: 'Occupied Bandwidth 28.5255 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error 30.660 kHz' and 'x dB Bandwidth 32.023 MHz'. On the right side, there is a 'Measure' menu with options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

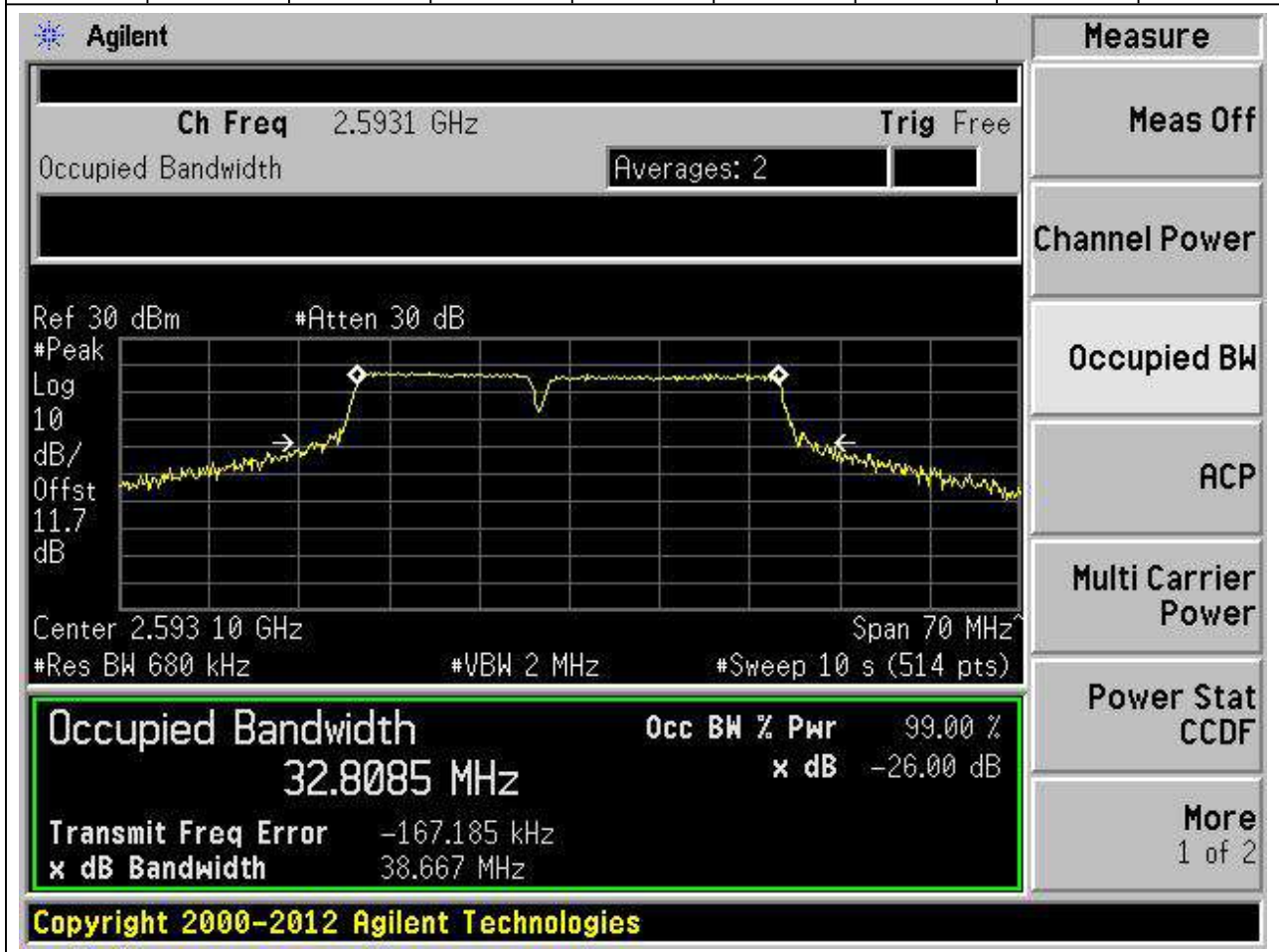
**25.10. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:10,  
Channel:40545|40695, Bandwidth:15|15MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.62	Peak	28.47	32.7	30	Pass



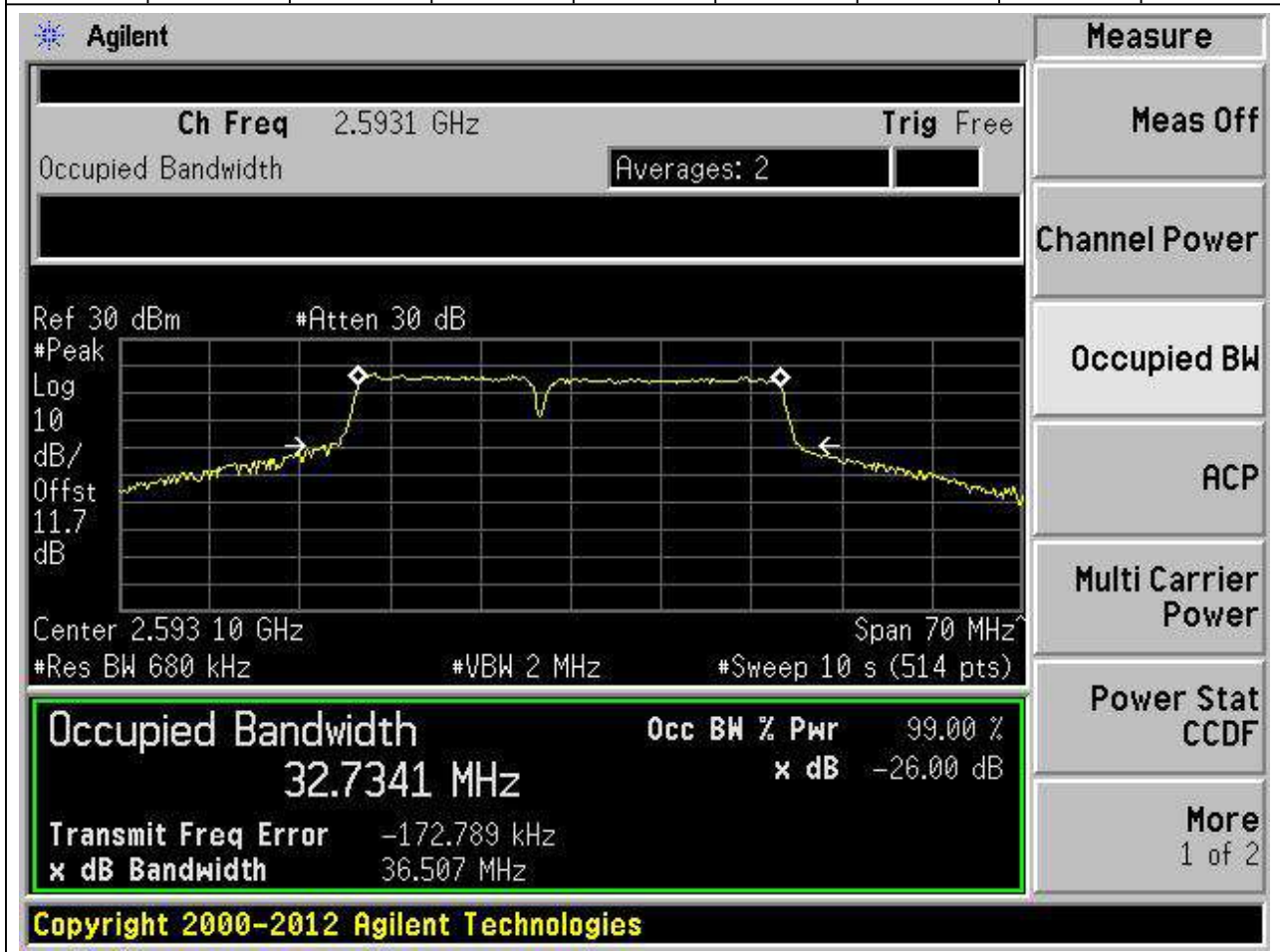
**25.11. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:11,  
Channel:40523|40694, Bandwidth:15|20MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.1	99	26	0.68	Peak	32.81	38.67	35	Pass



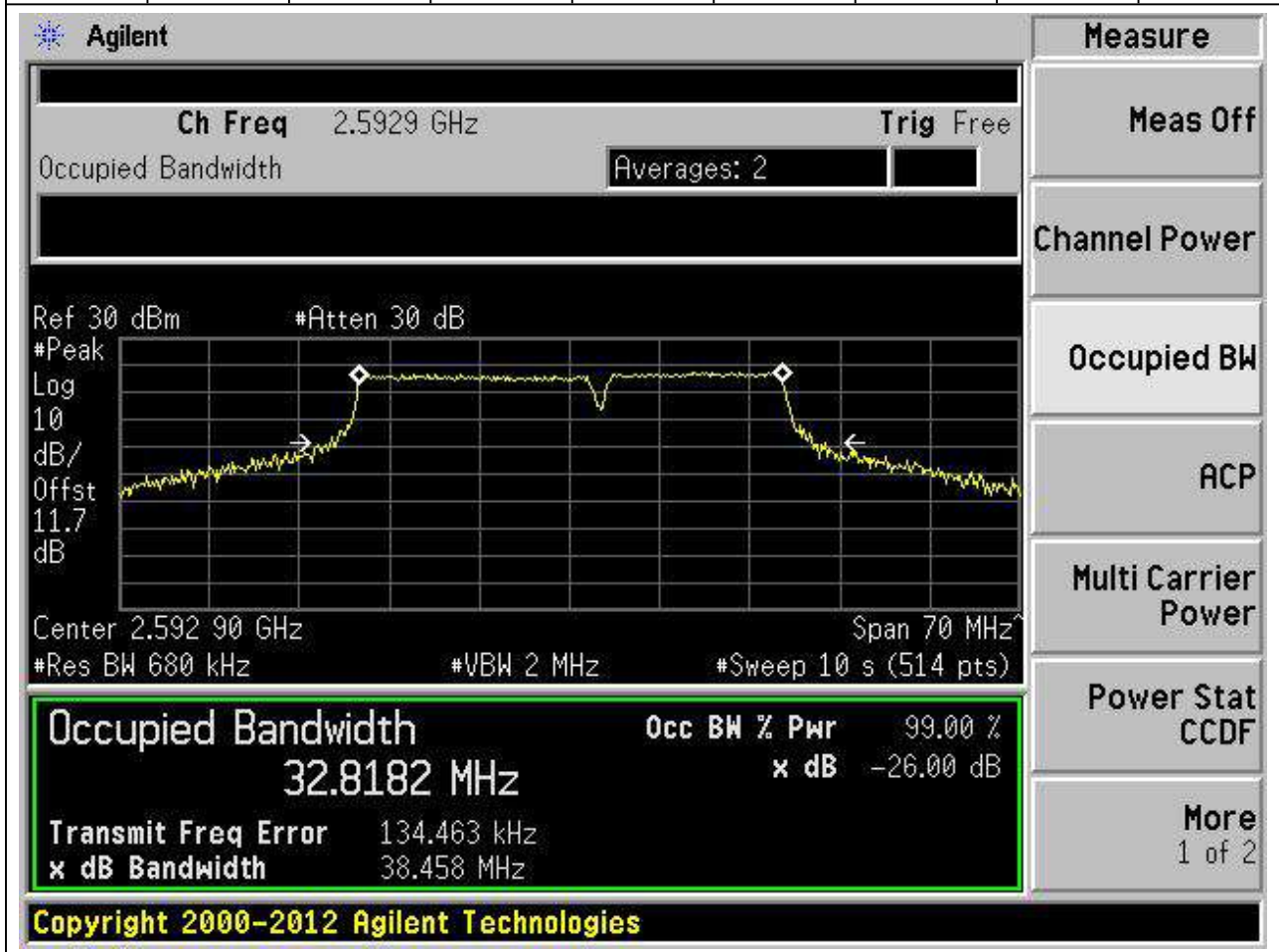
**25.12. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:12,  
Channel:40523|40694, Bandwidth:15|20MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593.1	99	26	0.68	Peak	32.73	36.51	35	Pass

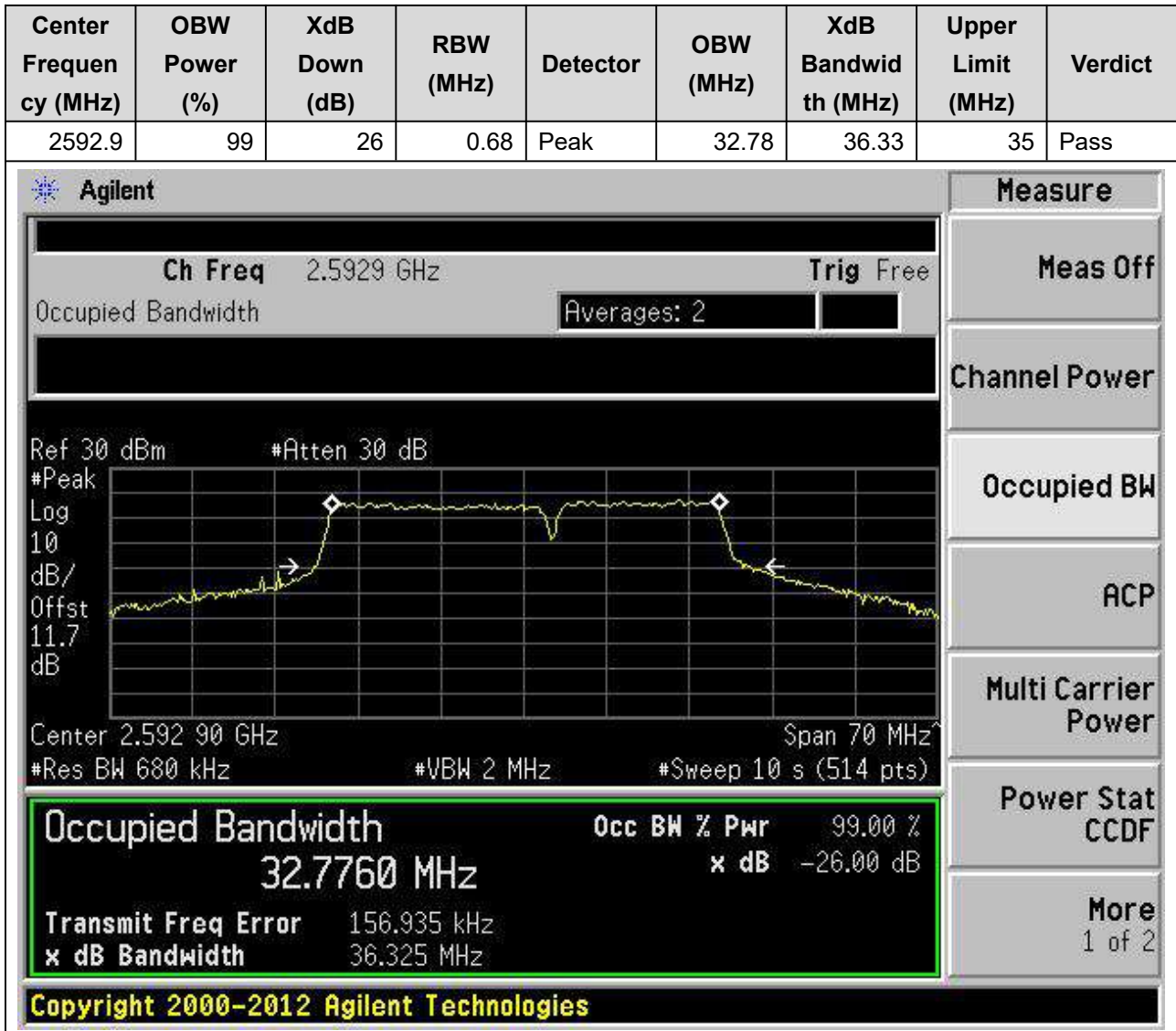


**25.13. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:13,  
Channel:40546|40717, Bandwidth:20|15MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.9	99	26	0.68	Peak	32.82	38.46	35	Pass



**25.14. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:14,  
Channel:40546|40717, Bandwidth:20|15MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**



**25.15. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:15,  
Channel:40521|40719, Bandwidth:20|20MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.82	Peak	37.81	43.68	40	Pass

**Agilent**

**Measure**

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

Occupied Bandwidth
Averages: 2

Ref 30 dBm
#Atten 30 dB

#Peak
Log

10
dB/

Offst
11.7

dB

Center 2.593 00 GHz
Span 80 MHz

#Res BW 820 kHz
#VBW 2.4 MHz
#Sweep 10 s (487 pts)

**Occupied Bandwidth**  
37.8065 MHz

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

**Transmit Freq Error** -8.920 kHz  
**x dB Bandwidth** 43.675 MHz

**Power Stat**
CCDF

**More**
1 of 2

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**25.16. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:16,  
Channel:40521|40719, Bandwidth:20|20MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.82	Peak	37.8	43.94	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.593 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a peak at 2.593 GHz. The plot is labeled with 'Ref 30 dBm' and '#Atten 30 dB'. The y-axis is labeled 'Log 10 dB/Offst 11.7 dB'. The x-axis is labeled 'Center 2.593 00 GHz' and 'Span 80 MHz'. The plot shows a signal with a peak at 2.593 GHz and a bandwidth of 37.8000 MHz. The 'Occupied Bandwidth' is highlighted in green. The 'Occupied Bandwidth' is 37.8000 MHz, and the 'Occ BW % Pwr' is 99.00%. The 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -10.674 kHz, and the 'x dB Bandwidth' is 43.941 MHz. The 'Averages' are set to 2. The 'Sweep' is 10 s (487 pts). The 'Res BW' is 820 kHz, and the 'VBW' is 2.4 MHz. The 'Upper Limit' is 40 MHz. The 'Verdict' is 'Pass'. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth	Occ BW % Pwr	x dB
37.8000 MHz	99.00 %	-26.00 dB

Transmit Freq Error: -10.674 kHz  
x dB Bandwidth: 43.941 MHz

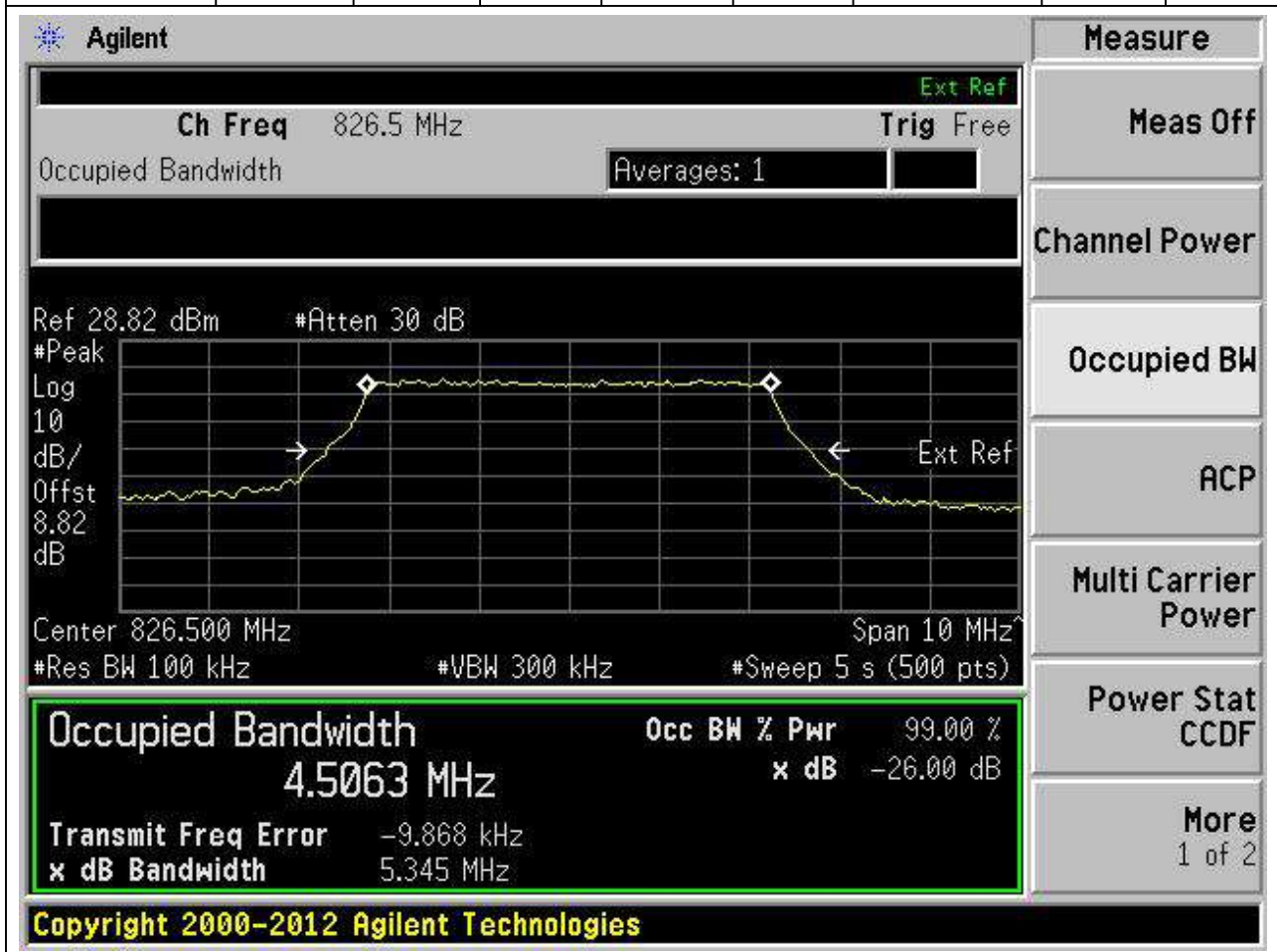
Copyright 2000-2012 Agilent Technologies



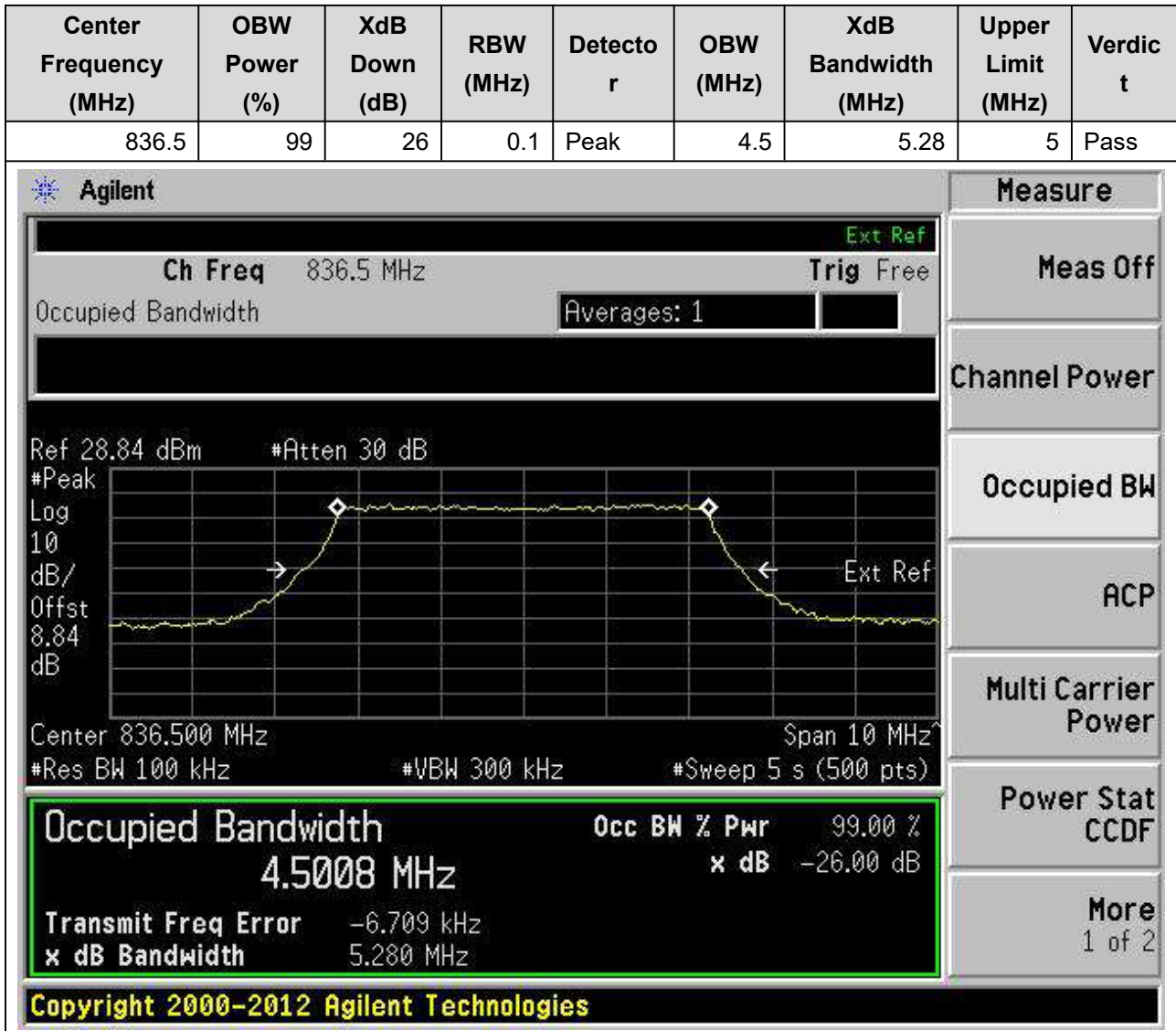
## 26. n5

26.1. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:165300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
826.5	99	26	0.1	Peak	4.51	5.34	5	Pass



**26.2. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:167300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)**



**26.3. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:169300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
846.5	99	26	0.1	Peak	4.5	5.26	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 846.5 MHz' and 'Occupied Bandwidth' with 'Averages: 1'. The main display is a spectrum plot with a peak at 846.5 MHz. The plot shows a signal with a bandwidth of 4.5011 MHz and a power level of 99.00%. The XdB Down is -26.00 dB. The plot also shows 'Ref 28.86 dBm' and '#Atten 30 dB'. The plot parameters include 'Center 846.500 MHz', 'Span 10 MHz', '#Res BW 100 kHz', '#VBW 300 kHz', and '#Sweep 5 s (500 pts)'. The bottom section of the screen displays the following measurement results:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>4.5011 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-17.647 kHz
<b>x dB Bandwidth</b>		5.264 MHz

On the right side of the screen, there is a 'Measure' menu with the following options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

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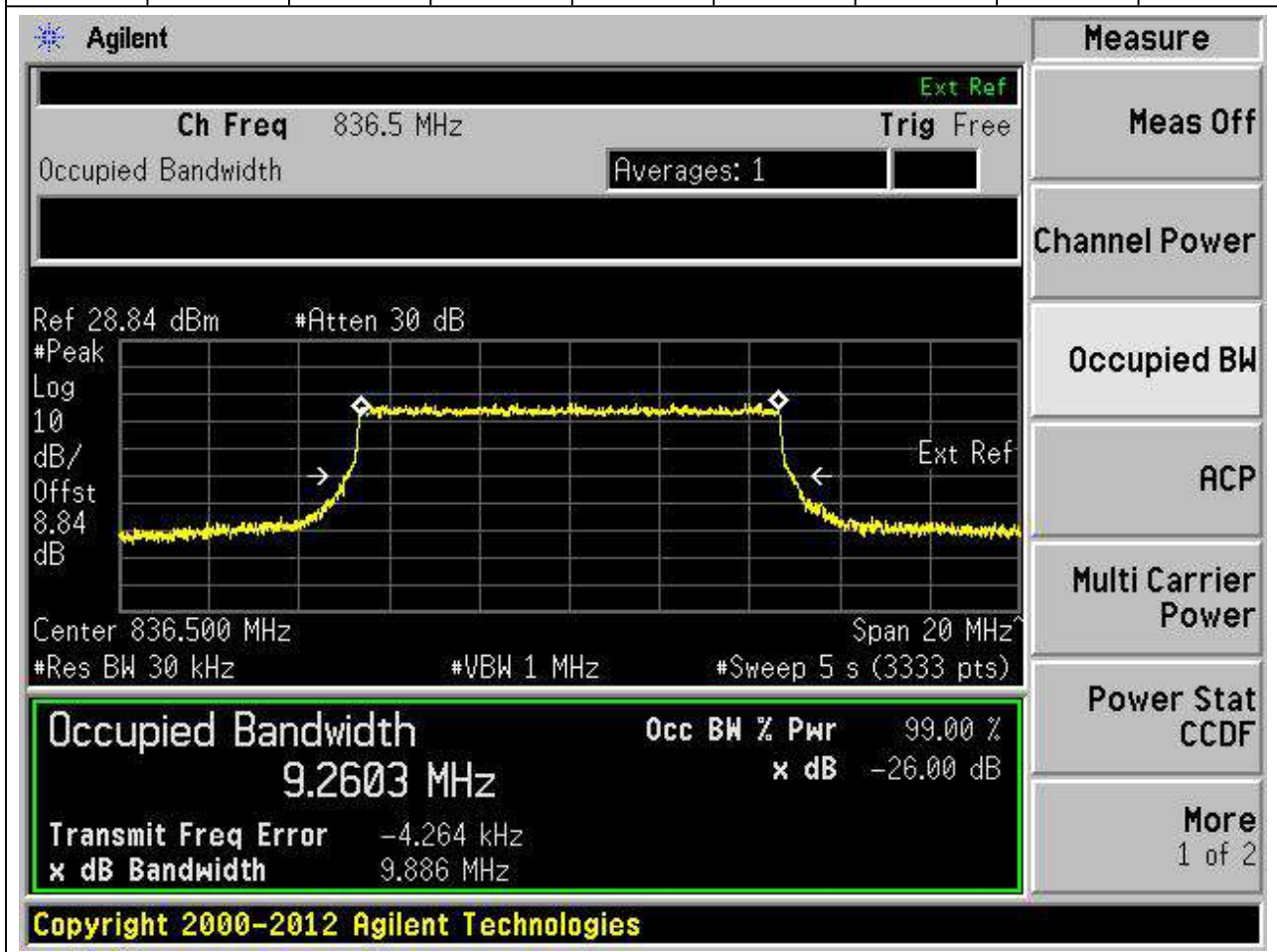
**26.4. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:165800, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:52, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
829	99	26	0.03	Peak	9.26	9.82	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 829.000 MHz, and the span is 20 MHz. The resolution bandwidth (RBW) is 30 kHz, and the video bandwidth (VBW) is 1 MHz. The sweep time is 5 seconds (3333 points). The plot shows a signal with a peak level of 28.82 dBm and an attenuation of 30 dB. The occupied bandwidth is measured as 9.2625 MHz, which is 99.00% of the power. The XdB bandwidth is 9.823 MHz, and the XdB down is -26.00 dB. The transmit frequency error is -6.680 kHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

**26.5. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:167300, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:52, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.03	Peak	9.26	9.89	10	Pass



**26.6. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:168800, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:52, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
844	99	26	0.03	Peak	9.26	9.79	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 844 MHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow signal trace. The plot parameters include 'Ref 28.86 dBm', '#Atten 30 dB', 'Center 844.000 MHz', 'Span 20 MHz', '#Res BW 30 kHz', '#VBW 1 MHz', and '#Sweep 5 s (3333 pts)'. The plot shows a signal with a peak level of 10 dB and an offset of 8.86 dB. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 9.2599 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -7.801 kHz and the 'x dB Bandwidth' is 9.788 MHz. The 'Verdict' is 'Pass'. The bottom of the screen shows the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**26.7. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:166300, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:79, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
831.5	99	26	0.03	Peak	14.09	14.73	15	Pass

**Agilent**

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

Ch Freq 831.5 MHz
Trig Free

Occupied Bandwidth Averages: 1

Ref 28.82 dBm    #Atten 30 dB

#Peak Log 10 dB/Offst 8.82 dB

Center 831.500 MHz    Span 30 MHz

#Res BW 30 kHz    #VBW 1 MHz    #Sweep 5 s (5000 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
14.0856 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-4.450 kHz
<b>x dB Bandwidth</b>	14.728 MHz

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**26.8. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:167300, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:79, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.03	Peak	14.08	14.64	15	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: 1

Ref 28.84 dBm    #Atten 30 dB

#Peak Log 10 dB/Offst 8.84 dB

Ext Ref

Center 836.500 MHz
Span 30 MHz

#Res BW 30 kHz
#VBW 1 MHz
#Sweep 5 s (5000 pts)

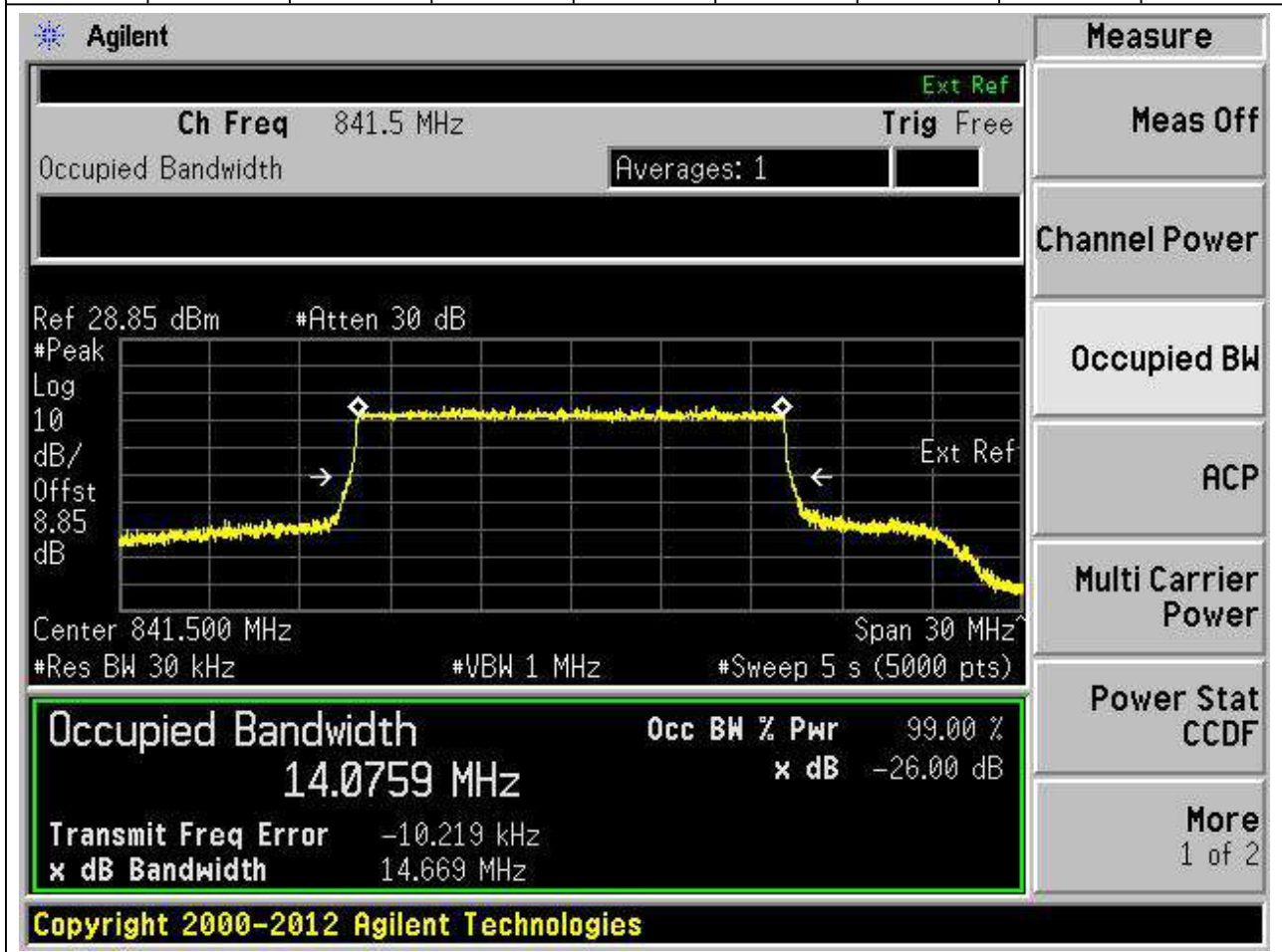
<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
14.0840 MHz	x dB	-26.00 dB
Transmit Freq Error	1.976 kHz	
x dB Bandwidth	14.644 MHz	

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**26.9. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:168300, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:79, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
841.5	99	26	0.03	Peak	14.08	14.67	15	Pass



**26.10. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:166800, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
834	99	26	0.03	Peak	18.88	19.63	20	Pass

**Agilent**

Ch Freq 834 MHz Trig Free

Occupied Bandwidth Averages: 1

Ref 28.83 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.83 dB

Center 834.000 MHz Span 40 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (6666 pts)

**Occupied Bandwidth** 18.8844 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -17.081 kHz

x dB Bandwidth 19.631 MHz

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**26.11. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:167300, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.03	Peak	18.88	19.49	20	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: 1

Ref 28.84 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.84 dB

Center 836.500 MHz Span 40 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (6666 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
18.8778 MHz	x dB -26.00 dB
Transmit Freq Error -20.032 kHz	
x dB Bandwidth 19.490 MHz	

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**26.12. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:167800, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
839	99	26	0.03	Peak	18.87	19.51	20	Pass

**Agilent**

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

Ch Freq 839 MHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 28.85 dBm    #Atten 30 dB

#Peak Log 10 dB/Offst 8.85 dB

Center 839.000 MHz    Span 40 MHz

#Res BW 30 kHz    #VBW 1 MHz    #Sweep 5 s (6666 pts)

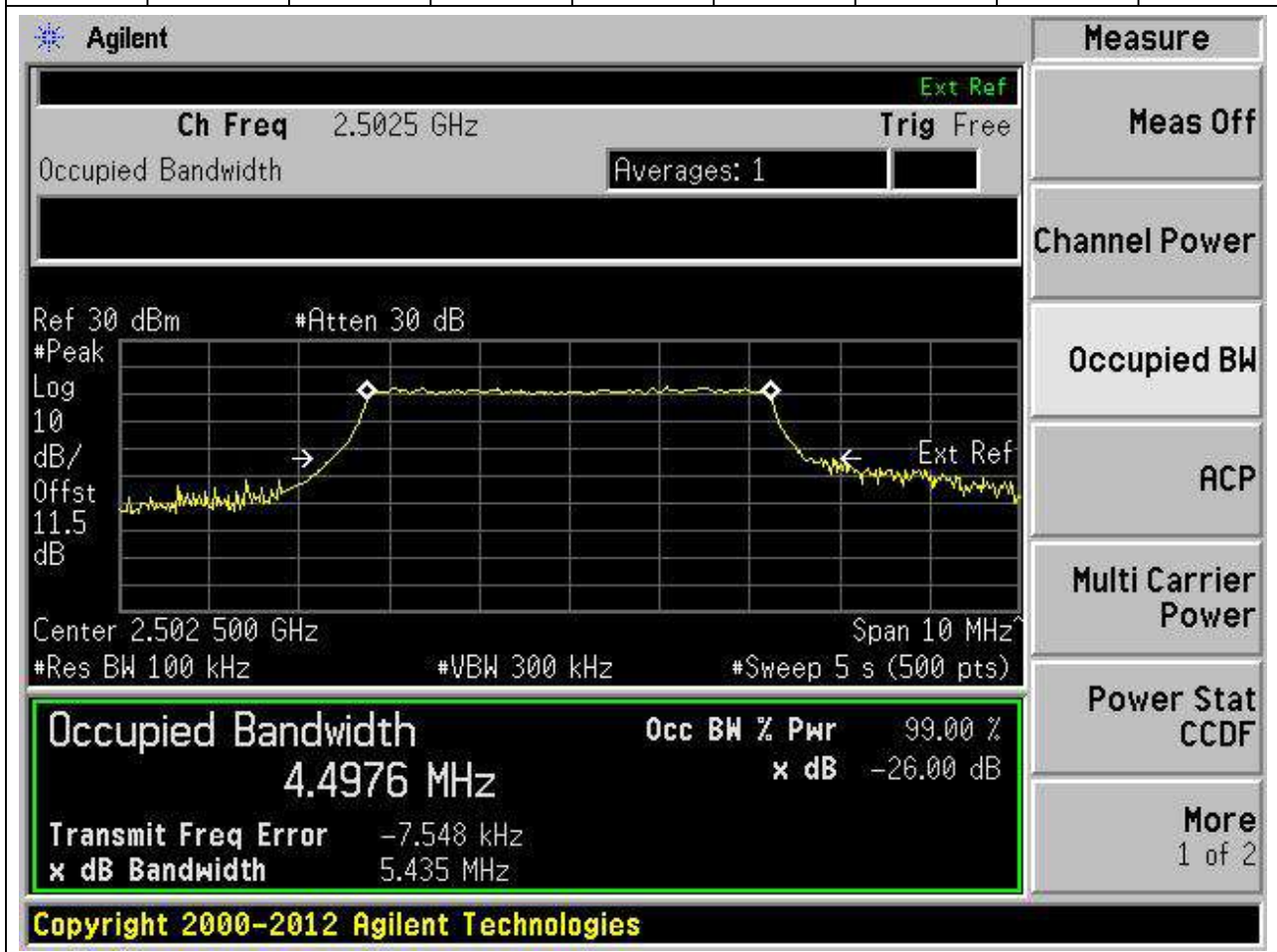
<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
18.8669 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-14.430 kHz
<b>x dB Bandwidth</b>	19.511 MHz

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## 27. n7

27.1. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:500500, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2502.5	99	26	0.1	Peak	4.5	5.43	5	Pass



**27.2. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:507000, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.1	Peak	4.49	5.26	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.535 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is set to 'Log' scale with 'dB/Offst 11.5 dB'. The center frequency is 2.535 000 GHz, and the span is 10 MHz. The resolution bandwidth (RBW) is 100 kHz, and the video bandwidth (VBW) is 300 kHz. The sweep time is 5 s (500 pts). The plot shows a signal with a peak at approximately 2.535 GHz. The 'Occupied Bandwidth' is highlighted in green, showing a value of 4.4942 MHz. The 'Occ BW % Pwr' is 99.00%, and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -7.418 kHz, and the 'x dB Bandwidth' is 5.261 MHz. The 'Verdict' is 'Pass'. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth	Occ BW % Pwr	x dB
4.4942 MHz	99.00 %	-26.00 dB

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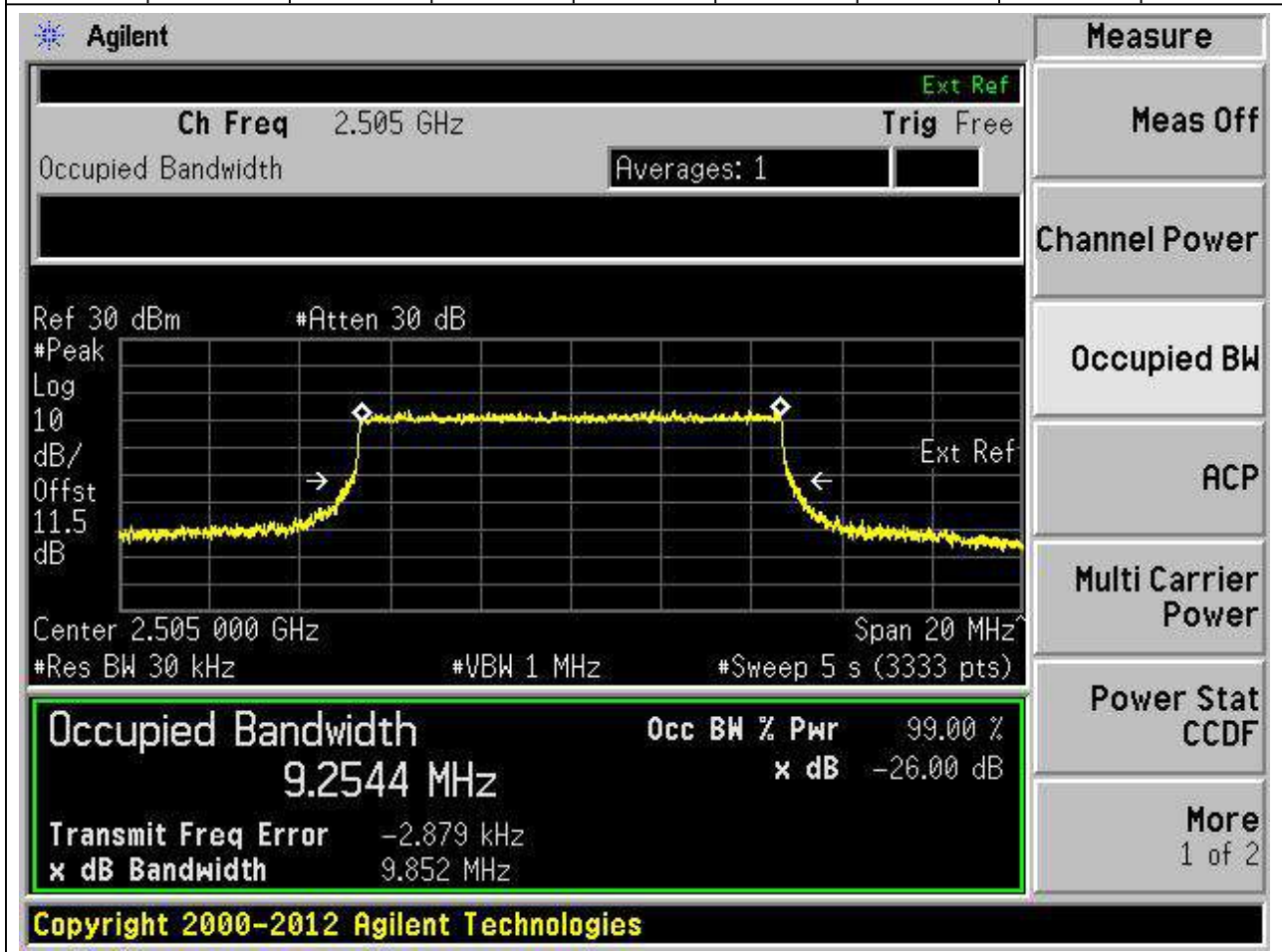
**27.3. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:513500, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2567.5	99	26	0.1	Peak	4.5	5.26	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.5675 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.6 dB'. The plot shows a signal with a peak at approximately 2.5675 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 4.4962 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -6.863 kHz', and 'x dB Bandwidth 5.264 MHz'. The bottom of the screen displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**27.4. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:501000, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:52, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2505	99	26	0.03	Peak	9.25	9.85	10	Pass





**27.5. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:507000, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:52, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.03	Peak	9.26	9.87	10	Pass

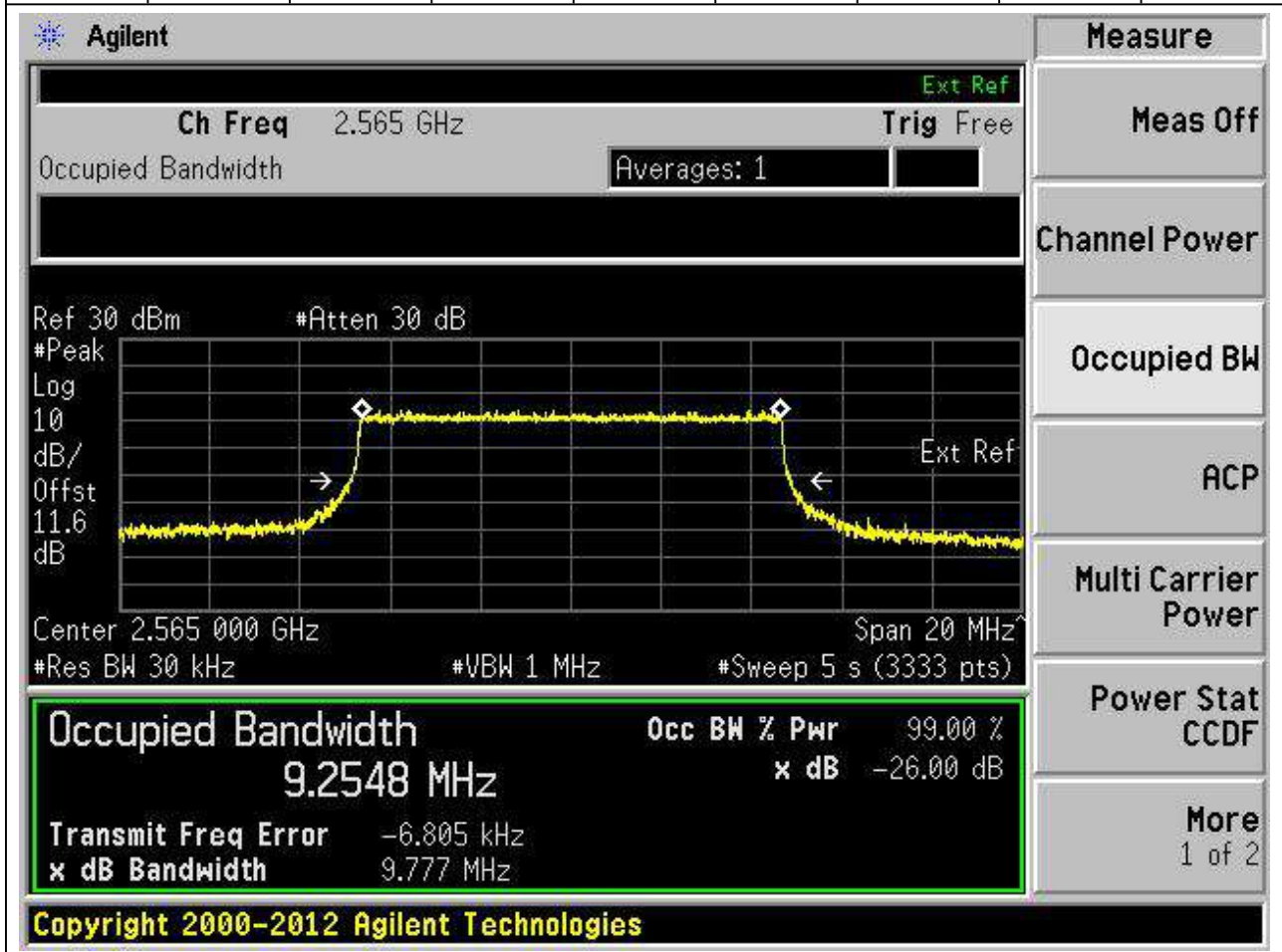
The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 2.535 GHz. The main display shows a spectrum plot with a yellow trace. The plot is set to a reference level of 30 dBm and an attenuation of 30 dB. The y-axis is labeled 'Log 10 dB/Offst 11.5 dB'. The x-axis shows a center frequency of 2.535 000 GHz and a span of 20 MHz. The resolution bandwidth is 30 kHz, and the video bandwidth is 1 MHz. The sweep time is 5 seconds (3333 points). On the right side, there is a 'Measure' menu with options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2). At the bottom, a summary box shows the following data:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>9.2629 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-4.649 kHz
<b>x dB Bandwidth</b>		9.875 MHz

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**27.6. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:513000, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:52, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2565	99	26	0.03	Peak	9.25	9.78	10	Pass



**27.7. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:501500, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:79, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2507.5	99	26	0.03	Peak	14.08	14.68	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 2.5075 GHz. The main display shows a spectrum plot with a yellow signal trace. The plot is set to a reference level of 30 dBm and an attenuation of 30 dB. The signal is centered at 2.5075 GHz with a span of 30 MHz. The resolution bandwidth (RBW) is 30 kHz and the video bandwidth (VBW) is 1 MHz. The sweep time is 5 seconds with 5000 points. The measurement results are summarized in a table at the bottom of the screen:

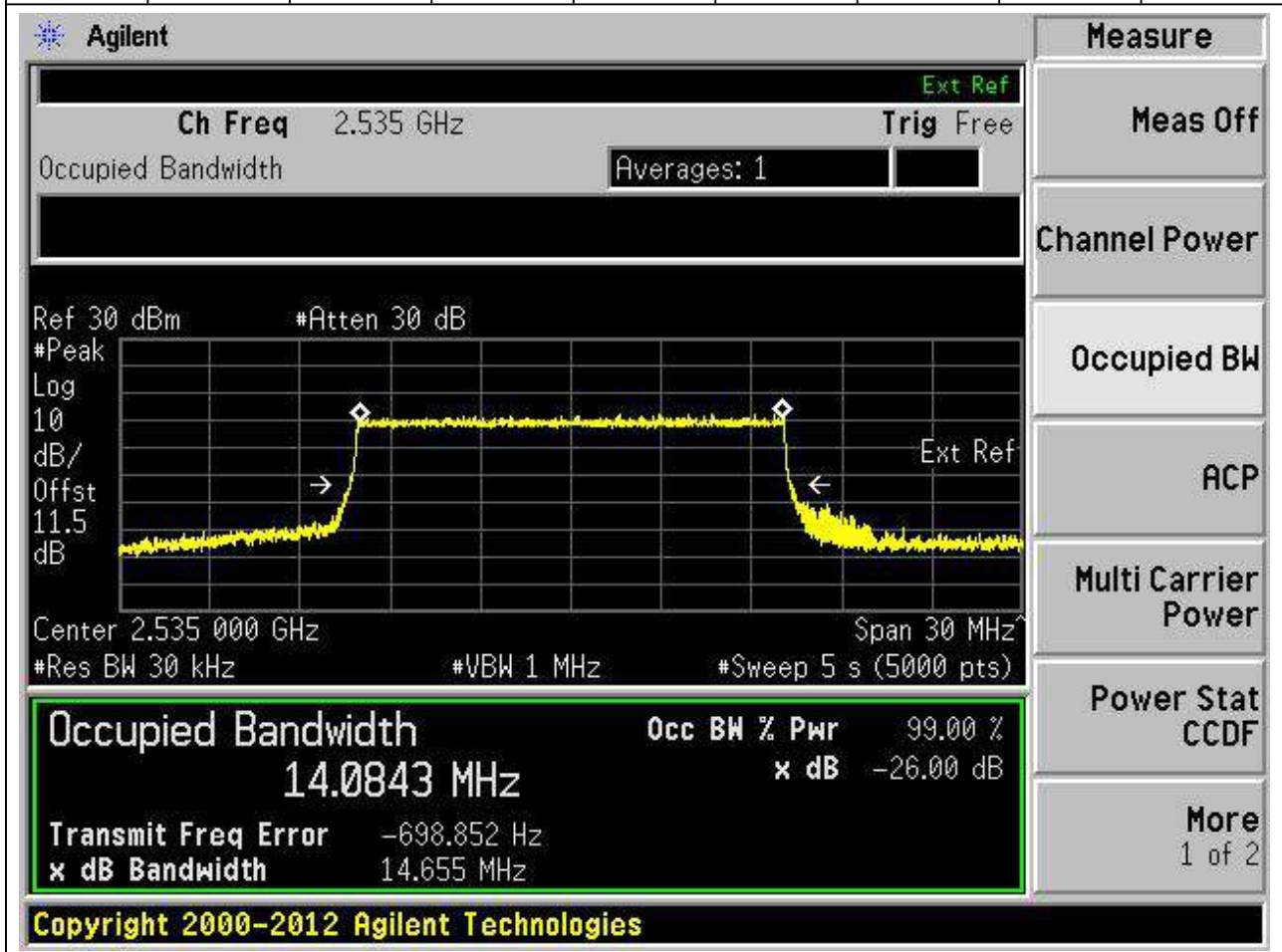
Occupied Bandwidth	Occ BW % Pwr	x dB
14.0801 MHz	99.00 %	-26.00 dB

Additional parameters shown include Transmit Freq Error (1.820 kHz) and x dB Bandwidth (14.678 MHz). The interface also includes a 'Measure' menu on the right with options like Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

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**27.8. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:507000, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:79, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.03	Peak	14.08	14.65	15	Pass



**27.9. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:512500, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:79, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2562.5	99	26	0.03	Peak	14.07	14.68	15	Pass

**Agilent**

Ch Freq 2.5625 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.6 dB

Center 2.562 500 GHz Span 30 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (5000 pts)

**Occupied Bandwidth** 14.0746 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -3.120 kHz

x dB Bandwidth 14.679 MHz

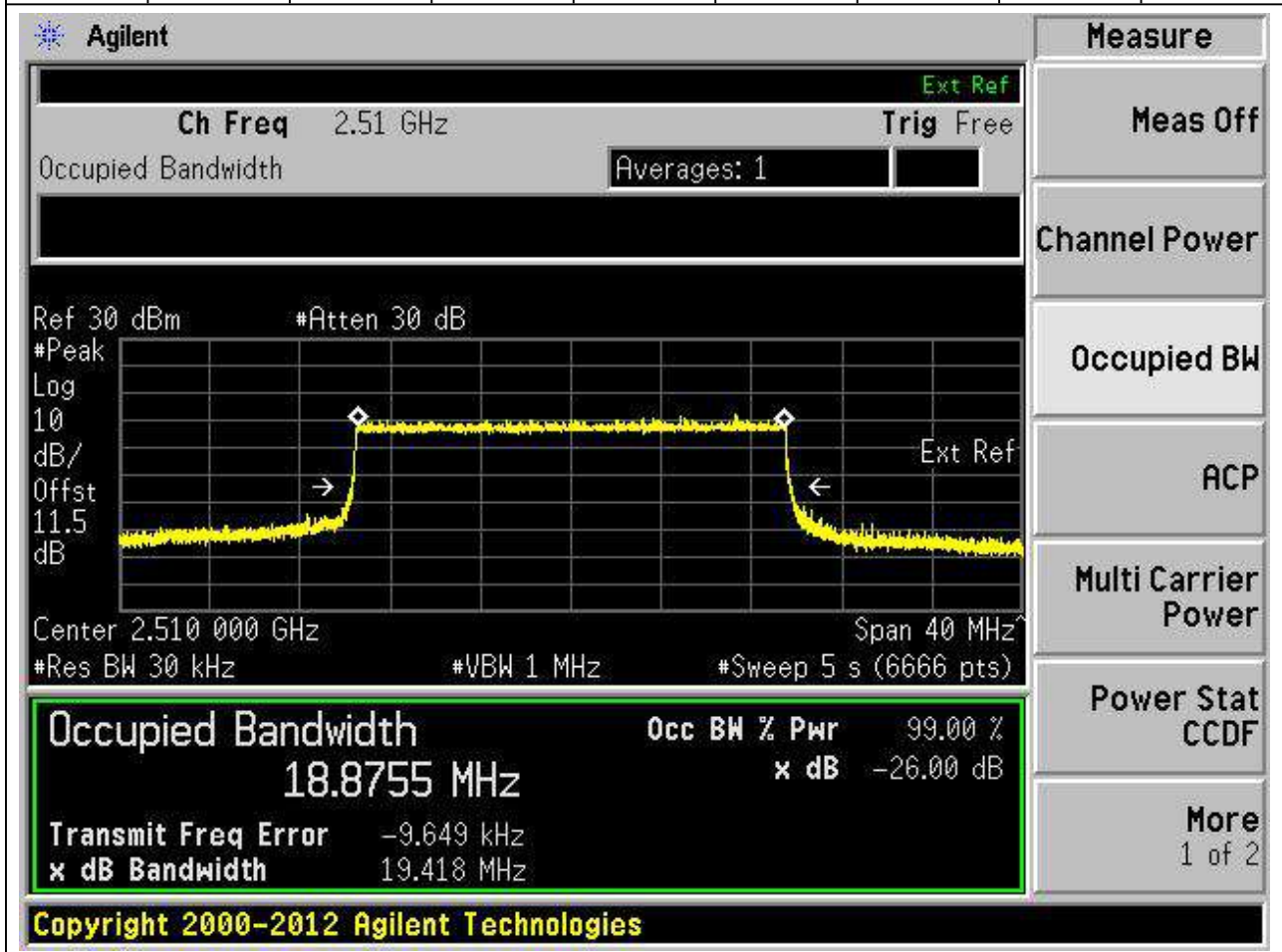
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**Measure**

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

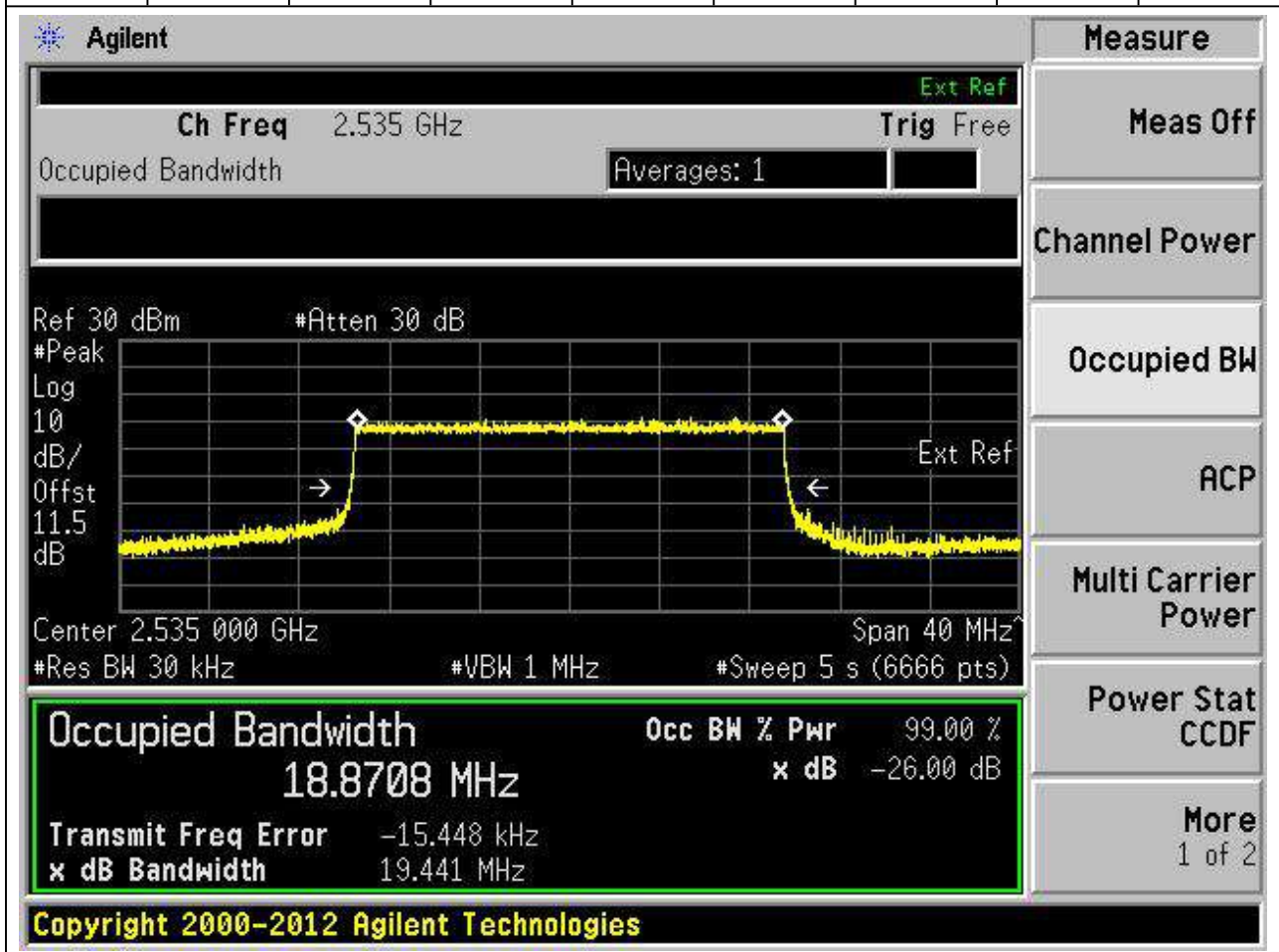
**27.10. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:502000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2510	99	26	0.03	Peak	18.88	19.42	20	Pass



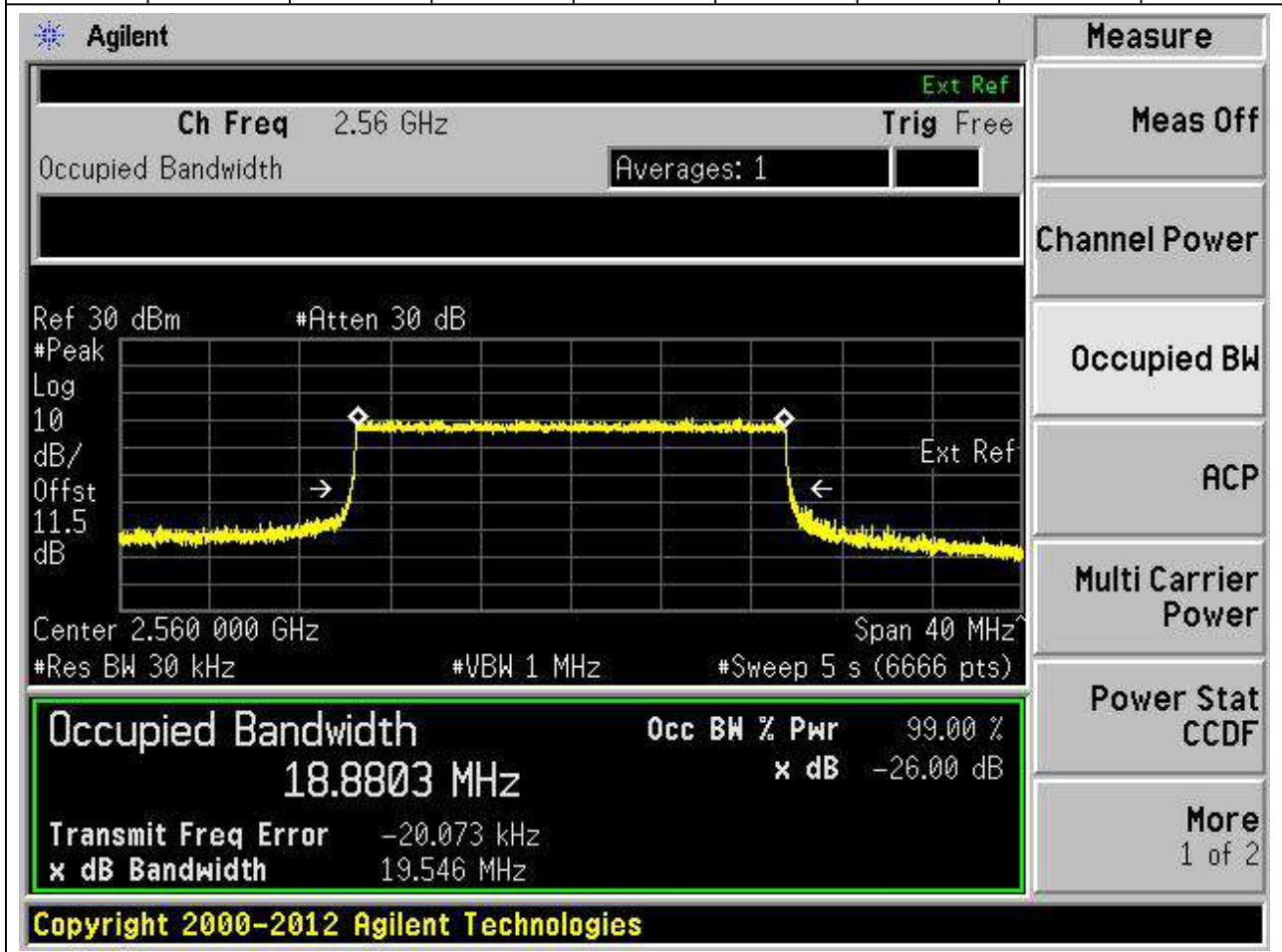
**27.11. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:507000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.03	Peak	18.87	19.44	20	Pass



**27.12. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:512000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2560	99	26	0.03	Peak	18.88	19.55	20	Pass





**27.13. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:502500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:133, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2512.5	99	26	1	Peak	24.07	26.23	25	Pass

Agilent

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

Ch Freq 2.5125 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.5 dB

Ext Ref

Center 2.512 500 GHz
Span 50 MHz

#Res BW 1 MHz
#VBW 3 MHz
#Sweep 5 s (401 pts)

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

24.0706 MHz x dB -26.00 dB

Transmit Freq Error 15.271 kHz

x dB Bandwidth 26.225 MHz

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**27.14. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:507000, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:133, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	1	Peak	24.03	26.21	25	Pass

Agilent

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

Ch Freq 2.535 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.5 dB

Center 2.535 000 GHz Span 50 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

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

**24.0339 MHz** x dB -26.00 dB

Transmit Freq Error -10.197 kHz

x dB Bandwidth 26.206 MHz

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**27.15. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:511500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:133, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2557.5	99	26	1	Peak	24.07	26.3	25	Pass

**Agilent**

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

Ch Freq 2.5575 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.5 dB

Center 2.557 500 GHz Span 50 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
24.0654 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-24.303 kHz
<b>x dB Bandwidth</b>	26.298 MHz

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**27.16. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:503000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:160, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2515	99	26	1	Peak	28.78	31.13	30	Pass

**Agilent**

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

Ch Freq 2.515 GHz
Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm      #Atten 30 dB

Center 2.515 00 GHz      Span 60 MHz  
#Res BW 1 MHz      #VBW 3 MHz      #Sweep 5 s (401 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
28.7753 MHz	<b>x dB</b>	-26.00 dB
Transmit Freq Error	1.037 kHz	
x dB Bandwidth	31.128 MHz	

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**27.17. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:507000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:160, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	1	Peak	28.78	31.26	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.535 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.5 dB'. The plot shows a signal with a flat top and sloping sides, with two diamond markers indicating the measurement points. Below the plot, the following parameters are displayed: 'Center 2.535 00 GHz', 'Span 60 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 5 s (401 pts)'. A summary box at the bottom left contains the following data:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>28.7751 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-31.311 kHz
<b>x dB Bandwidth</b>		31.255 MHz

On the right side of the interface, there is a 'Measure' menu with the following options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The 'Occupied BW' option is currently selected.

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**27.18. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:511000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:160, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2555	99	26	1	Peak	28.78	31.14	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.555 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.5 dB'. The plot shows a signal with a flat top and sloped sides, with two diamond markers indicating the measurement points. Below the plot, the following parameters are listed: 'Center 2.555 00 GHz', 'Span 60 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 5 s (401 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 28.7837 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown are 'Transmit Freq Error -54.671 kHz' and 'x dB Bandwidth 31.138 MHz'. On the right side, there is a 'Measure' menu with options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

**27.19. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:504000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:216, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2520	99	26	1	Peak	38.72	41.35	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 2.52 GHz. The main display shows a spectrum plot with a peak at 2.52 GHz. The occupied bandwidth is measured as 38.7173 MHz, which is 99.00% of the 40 MHz channel bandwidth. The XdB bandwidth is 41.354 MHz, and the XdB down is -26.00 dB. The transmit frequency error is -6.602 kHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright notice for Agilent Technologies from 2000 to 2012.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
38.7173 MHz	x dB	-26.00 dB
Transmit Freq Error		-6.602 kHz
x dB Bandwidth		41.354 MHz

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**27.20. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:507000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:216, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	1	Peak	38.68	41.29	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.535 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.5 dB'. The plot shows a signal with a flat top and sloping sides, with two diamond markers indicating the measurement points. Below the plot, the following parameters are listed: 'Center 2.535 0 GHz', 'Span 80 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 5 s (401 pts)'. A summary box at the bottom left contains the following data:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>38.6791 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-37.795 kHz
<b>x dB Bandwidth</b>		41.292 MHz

On the right side of the interface, there is a 'Measure' menu with the following options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The 'Occupied BW' option is currently selected.

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**27.21. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:510000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:216, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2550	99	26	1	Peak	38.71	41.33	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 2.55 GHz. The Occupied Bandwidth (OBW) is measured as 38.7078 MHz, which is 99.00% of the 40 MHz channel bandwidth. The XdB Bandwidth is 41.329 MHz. The measurement is taken at a center frequency of 2.550 GHz with a span of 80 MHz and a resolution bandwidth (RBW) of 3 MHz. The detector is set to Peak, and the XdB Down is 26 dB. The upper limit is 40 MHz, and the verdict is Pass.

Occupied Bandwidth	Occ BW % Pwr	x dB
38.7078 MHz	99.00 %	-26.00 dB

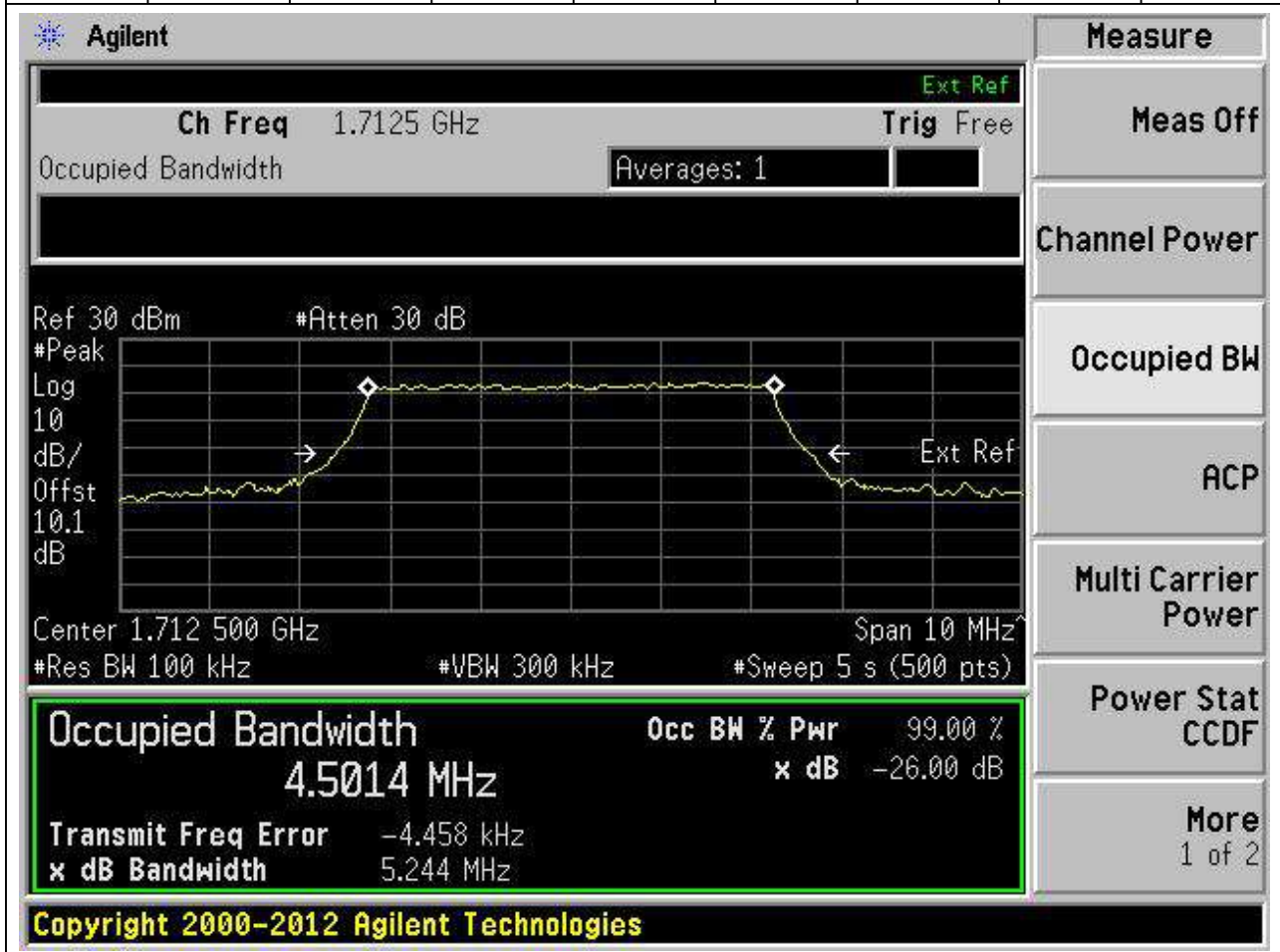
Other parameters shown in the screenshot include: Ch Freq 2.55 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log 10 dB/Offst 11.5 dB, Center 2.550 0 GHz, Span 80 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (401 pts), Transmit Freq Error -58.645 kHz, and x dB Bandwidth 41.329 MHz.

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## 28. n66 15kHz

28.1. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:342500, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1712.5	99	26	0.1	Peak	4.5	5.24	5	Pass



**28.2. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:349000, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.1	Peak	4.51	5.26	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.745 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 10.2 dB'. The plot shows a signal with a bandwidth of approximately 4.5 MHz. The bottom section of the screen displays the following measurement results:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>4.5124 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-15.030 kHz
<b>x dB Bandwidth</b>		5.263 MHz

Additional parameters shown at the bottom of the plot area include: Center 1.745 000 GHz, Span 10 MHz, #Res BW 100 kHz, #VBW 300 kHz, and #Sweep 5 s (500 pts). The right side of the screen features a 'Measure' menu with options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2). The bottom of the screen displays the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

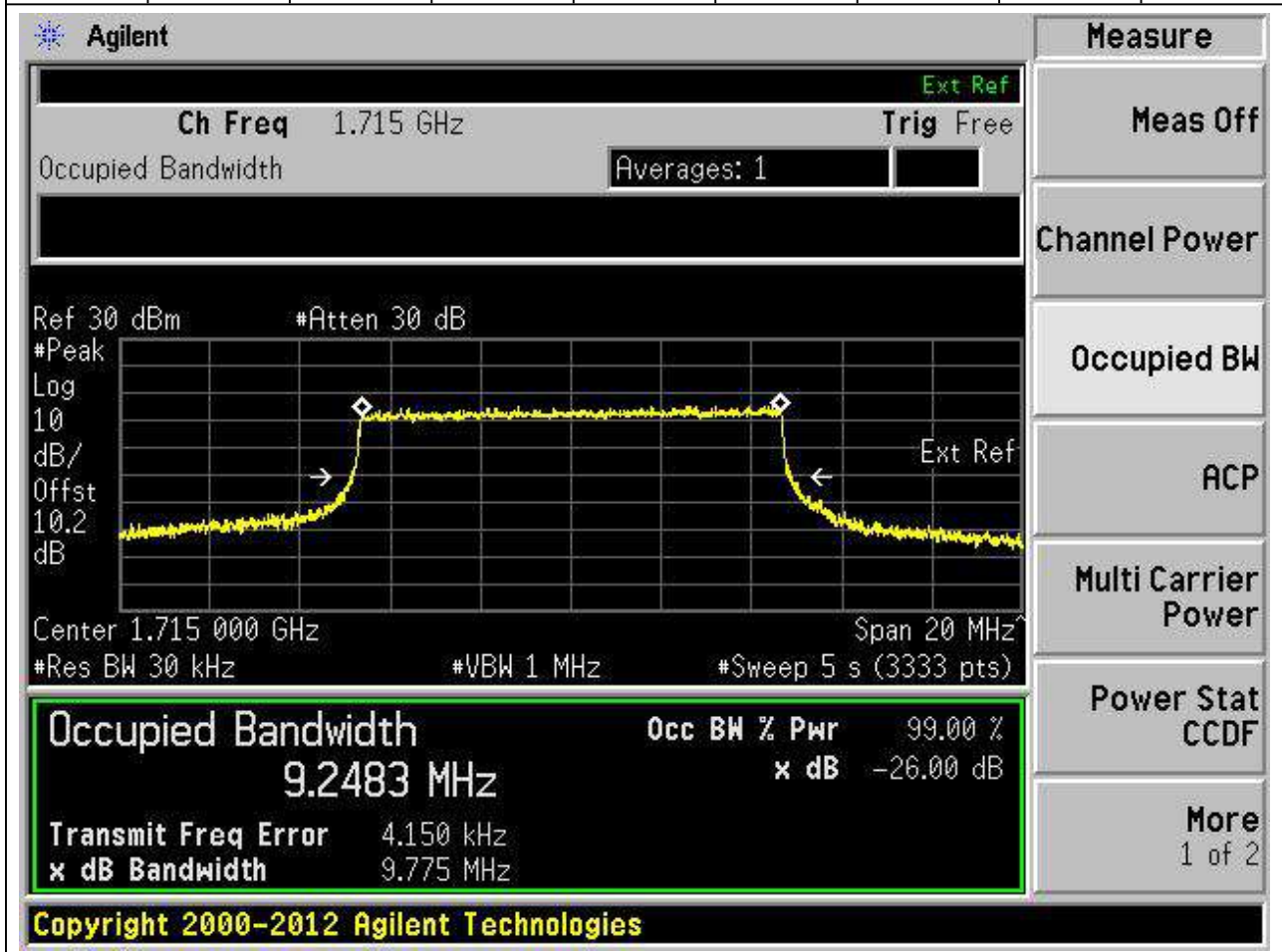
**28.3. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:355500, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1777.5	99	26	0.1	Peak	4.5	5.27	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.7775 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 10.3 dB'. The plot shows a signal with a bandwidth of approximately 5 MHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 4.4961 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %' and 'x dB -26.00 dB'. The 'Transmit Freq Error' is -9.026 kHz and the 'x dB Bandwidth' is 5.273 MHz. The interface also includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The copyright notice at the bottom reads 'Copyright 2000-2012 Agilent Technologies'.

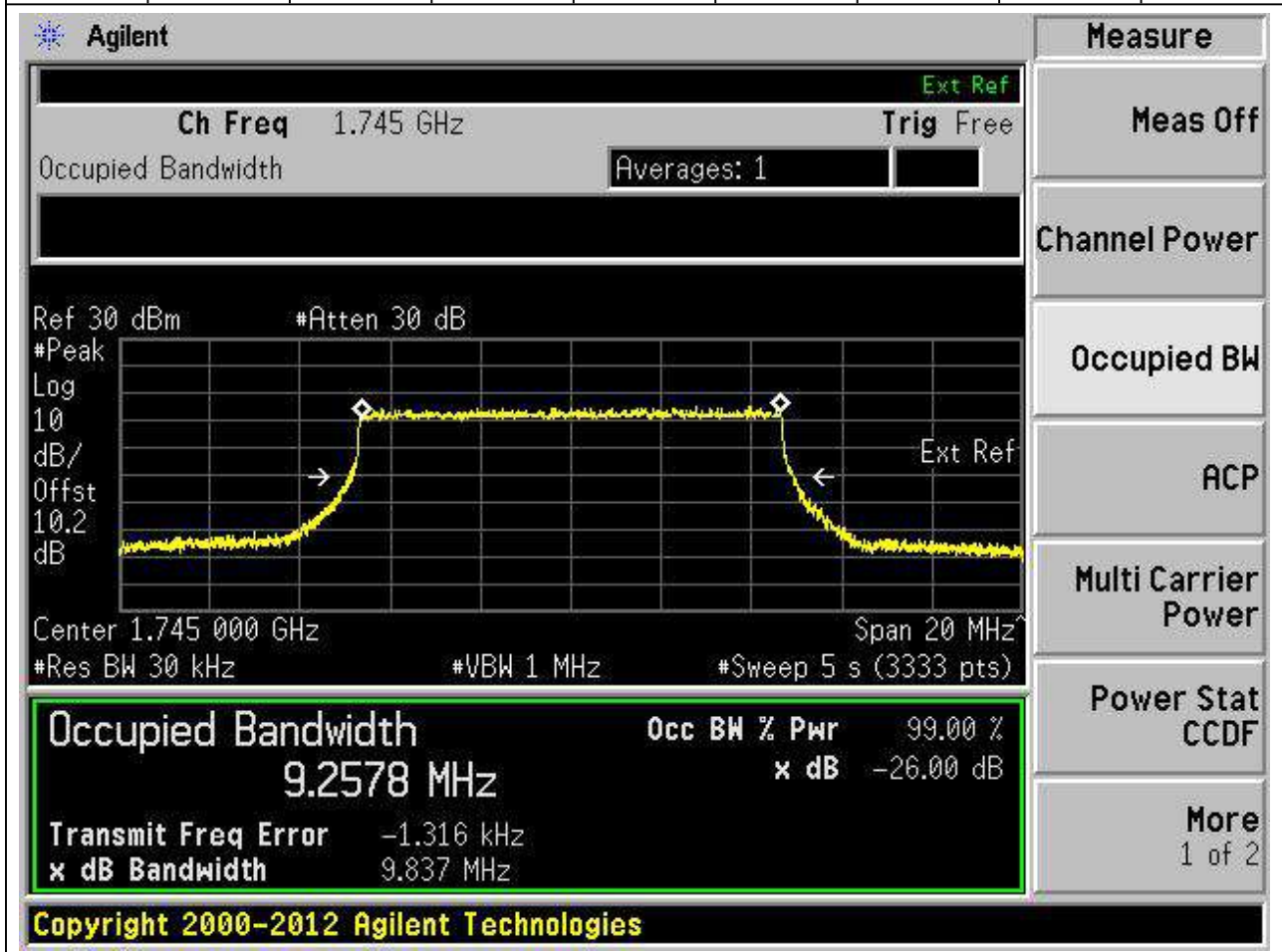
**28.4. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:343000, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:52, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1715	99	26	0.03	Peak	9.25	9.77	10	Pass



**28.5. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:349000, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:52, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.03	Peak	9.26	9.84	10	Pass



**28.6. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:355000, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:52, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1775	99	26	0.03	Peak	9.26	9.79	10	Pass

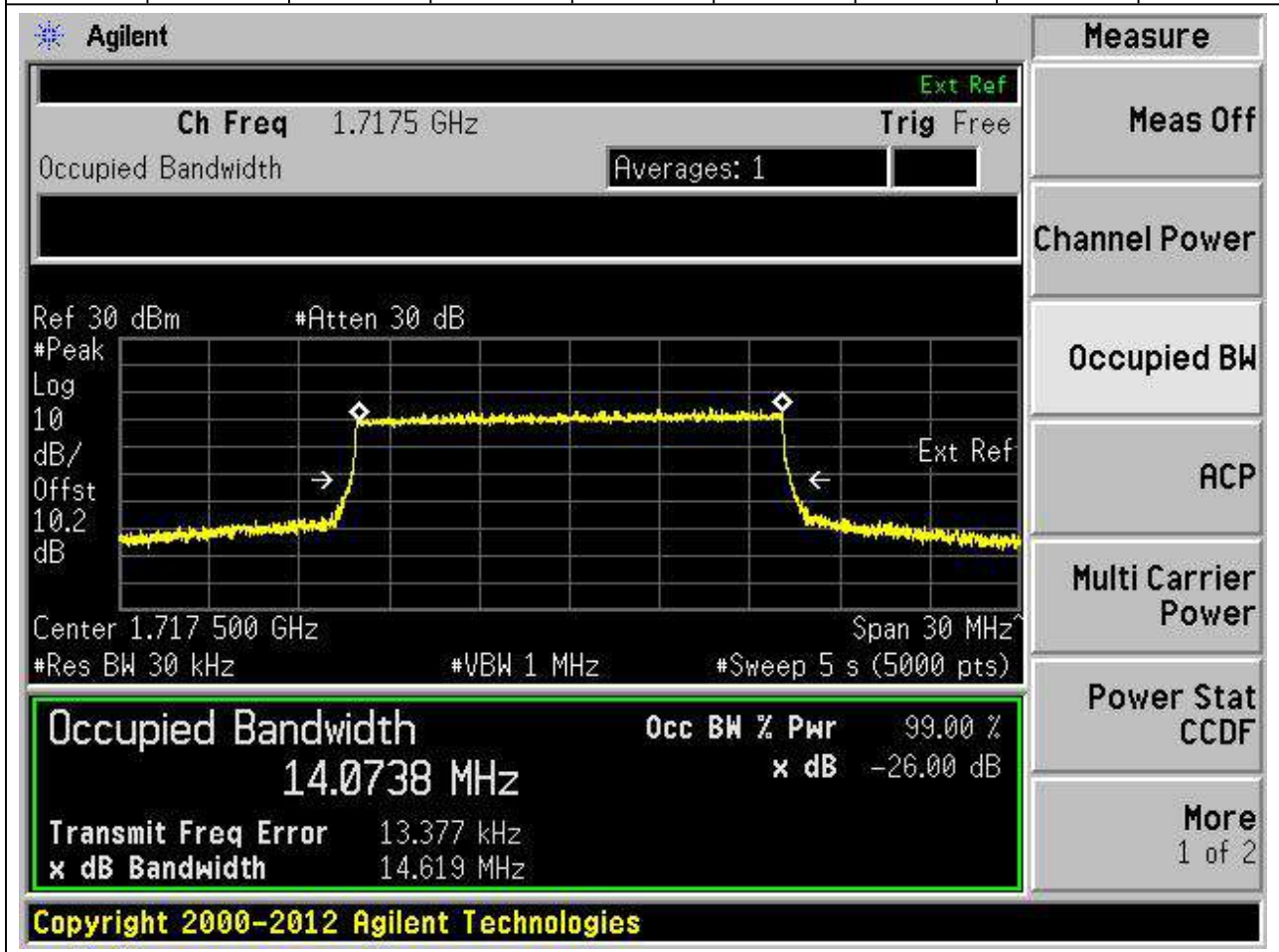
The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.775 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 10.2 dB'. The plot shows a signal with a flat top and sloping sides, with two white diamonds marking the -26 dB points. Below the plot, the following parameters are listed: 'Center 1.775 000 GHz', 'Span 20 MHz', '#Res BW 30 kHz', '#VBW 1 MHz', and '#Sweep 5 s (3333 pts)'. A summary box at the bottom left contains the following data:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
9.2621 MHz	x dB	-26.00 dB
<b>Transmit Freq Error</b>		-8.136 kHz
<b>x dB Bandwidth</b>		9.790 MHz

On the right side of the interface, there is a 'Measure' menu with the following options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. At the bottom of the screen, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

**28.7. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:343500, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:79, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1717.5	99	26	0.03	Peak	14.07	14.62	15	Pass





**28.8. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:349000, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:79, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.03	Peak	14.08	14.78	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.745 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow signal trace. The plot is set to 'Log' scale with a 'Ref 30 dBm' and '#Atten 30 dB'. The signal is centered at 1.745 GHz with a span of 30 MHz. The plot shows a flat top with a slight dip in the center, indicating a multi-carrier signal. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the plot area.

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

**Occupied Bandwidth** 14.0763 MHz

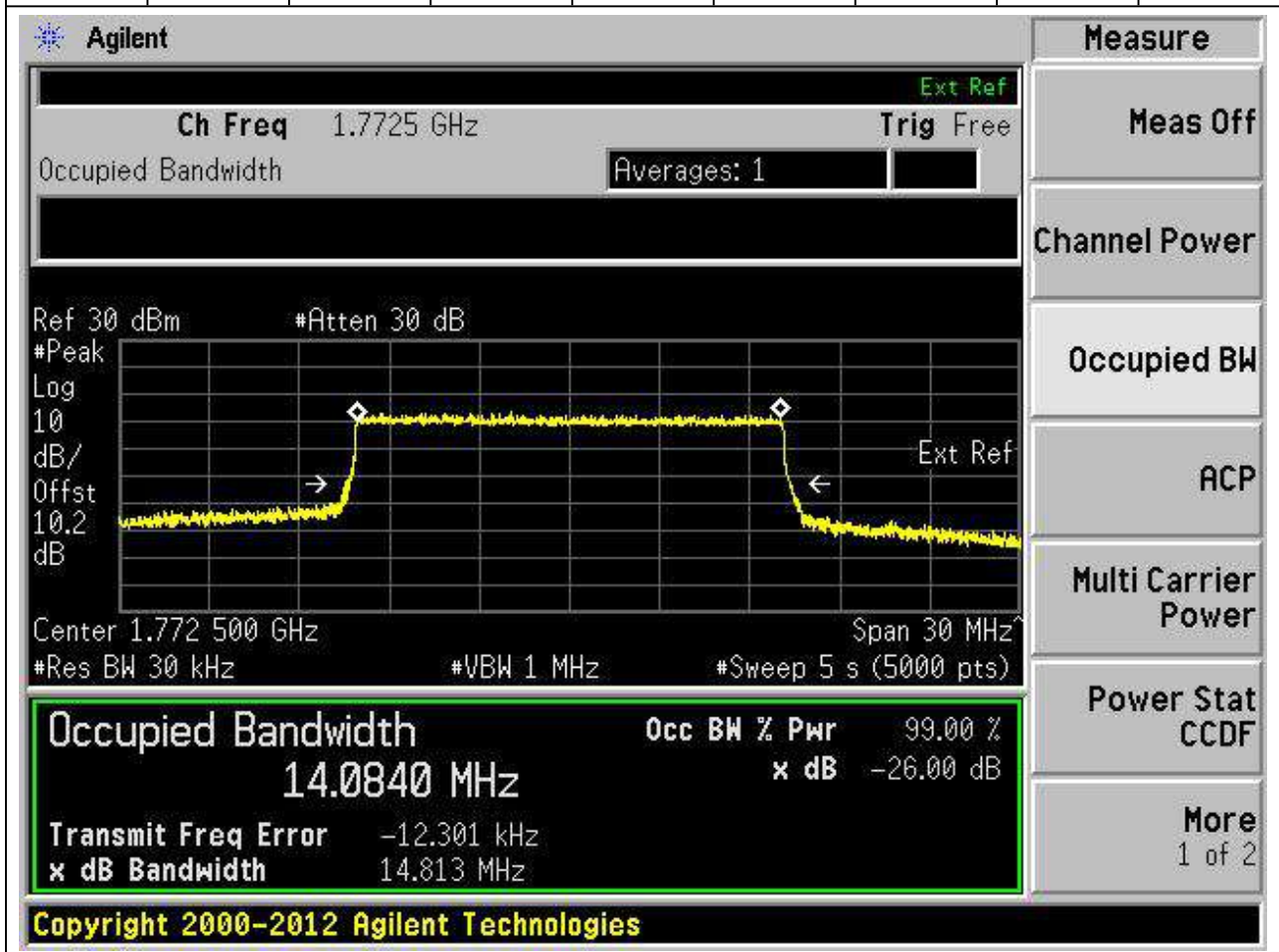
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error 1.636 kHz  
x dB Bandwidth 14.780 MHz

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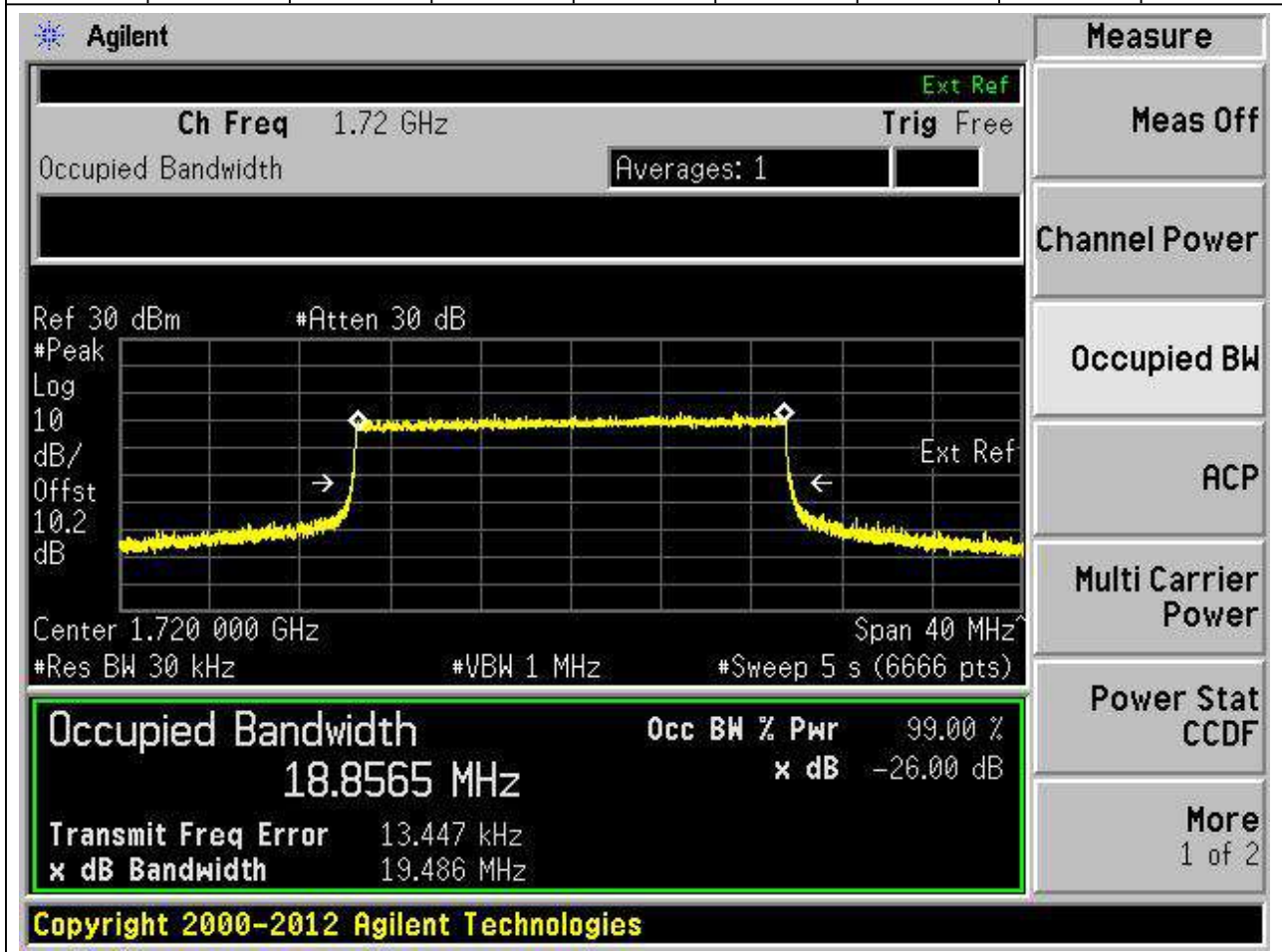
**28.9. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:354500, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:79, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1772.5	99	26	0.03	Peak	14.08	14.81	15	Pass



**28.10. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:344000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1720	99	26	0.03	Peak	18.86	19.49	20	Pass



**28.11. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:349000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.03	Peak	18.88	19.42	20	Pass

Agilent

Ext Ref  
**Ch Freq** 1.745 GHz    **Trig** Free  
 Occupied Bandwidth    **Averages: 1**

Ref 30 dBm    #Atten 30 dB  
 #Peak  
 Log  
 10  
 dB/  
 Offst  
 10.2  
 dB

Ext Ref

Center 1.745 000 GHz

Span 40 MHz

#Res BW 30 kHz

#VBW 1 MHz

#Sweep 5 s (6666 pts)

**Occupied Bandwidth**  
**18.8755 MHz**

**Occ BW % Pwr** 99.00 %  
**x dB** -26.00 dB

**Transmit Freq Error** -4.053 kHz  
**x dB Bandwidth** 19.425 MHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**28.12. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:354000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1770	99	26	0.03	Peak	18.88	19.49	20	Pass

Agilent

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

Ch Freq 1.77 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.2 dB

Center 1.770 000 GHz Span 40 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (6666 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
18.8782 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-24.310 kHz
<b>x dB Bandwidth</b>	19.495 MHz

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**28.13. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:345000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:160, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1725	99	26	1	Peak	28.72	31.2	30	Pass

Agilent

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

Ch Freq 1.725 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.725 00 GHz Span 60 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

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

28.7168 MHz x dB -26.00 dB

Transmit Freq Error 42.370 kHz

x dB Bandwidth 31.203 MHz

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**28.14. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:349000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:160, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	1	Peak	28.8	31.3	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.745 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 10.2 dB'. The plot shows a signal with a bandwidth of approximately 28.8 MHz. Below the plot, the following parameters are displayed:

- Center 1.745 00 GHz
- #Res BW 1 MHz
- #VBW 3 MHz
- Span 60 MHz
- #Sweep 5 s (401 pts)

The measurement results are summarized in a table at the bottom of the screen:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>28.8018 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-4.108 kHz
<b>x dB Bandwidth</b>		31.299 MHz

On the right side of the screen, there is a 'Measure' menu with the following options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

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**28.15. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:353000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:160, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1765	99	26	1	Peak	28.76	31.24	30	Pass

Agilent

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

Ch Freq 1.765 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.765 00 GHz Span 60 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
28.7566 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-44.537 kHz
<b>x dB Bandwidth</b>	31.243 MHz

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**28.16. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:346000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:216, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1730	99	26	1	Peak	38.66	41.28	40	Pass

**Agilent**

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

Ch Freq 1.73 GHz
Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.730 0 GHz Span 80 MHz  
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>38.6638 MHz</b>	<b>x dB</b>	-26.00 dB
Transmit Freq Error	64.688 kHz	
x dB Bandwidth	41.280 MHz	

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**28.17. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:349000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:216, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	1	Peak	38.73	41.23	40	Pass

**Agilent**

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

Ch Freq 1.745 GHz
Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm      #Atten 30 dB

Center 1.745 0 GHz      Span 80 MHz  
#Res BW 1 MHz      #VBW 3 MHz      #Sweep 5 s (401 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
38.7325 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	6.048 kHz	
<b>x dB Bandwidth</b>	41.234 MHz	

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**28.18. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:352000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:216, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1760	99	26	1	Peak	38.66	41.38	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.76 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 10.2 dB'. The plot shows a signal with a flat top and sloping sides, with 'Ext Ref' markers on the top and bottom slopes. Below the plot, the following parameters are displayed: Center 1.760 0 GHz, Span 80 MHz, #Res BW 1 MHz, #VBW 3 MHz, and #Sweep 5 s (401 pts). A summary box at the bottom of the plot area contains the following data:

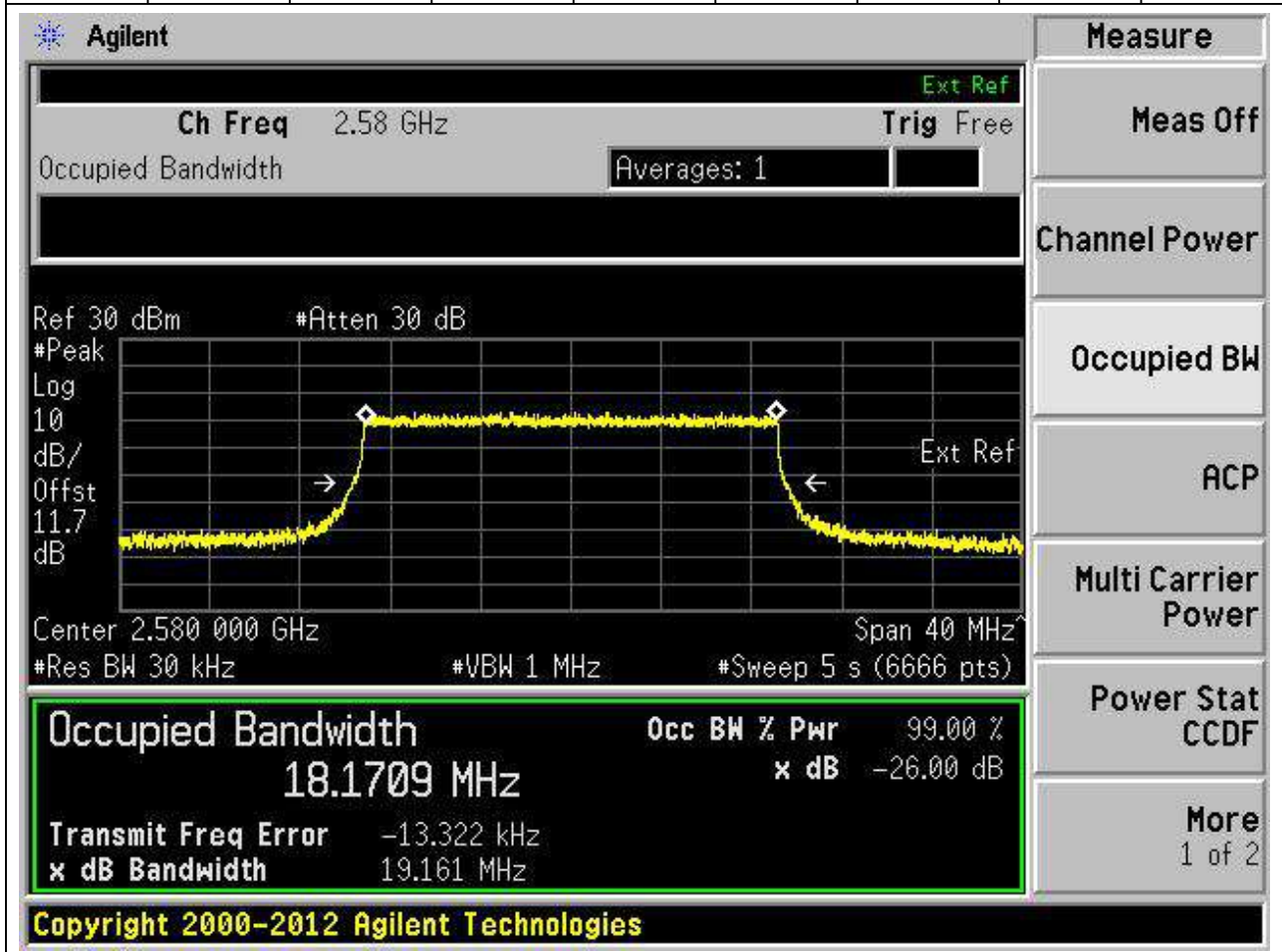
<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>38.6643 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-45.618 kHz
<b>x dB Bandwidth</b>		41.379 MHz

On the right side of the interface, there is a 'Measure' menu with the following options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2). At the bottom of the screen, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

## 29. n38\_PC3

29.1. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:516000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2580	99	26	0.03	Peak	18.17	19.16	20	Pass



**29.2. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:519000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.03	Peak	18.17	19.05	20	Pass

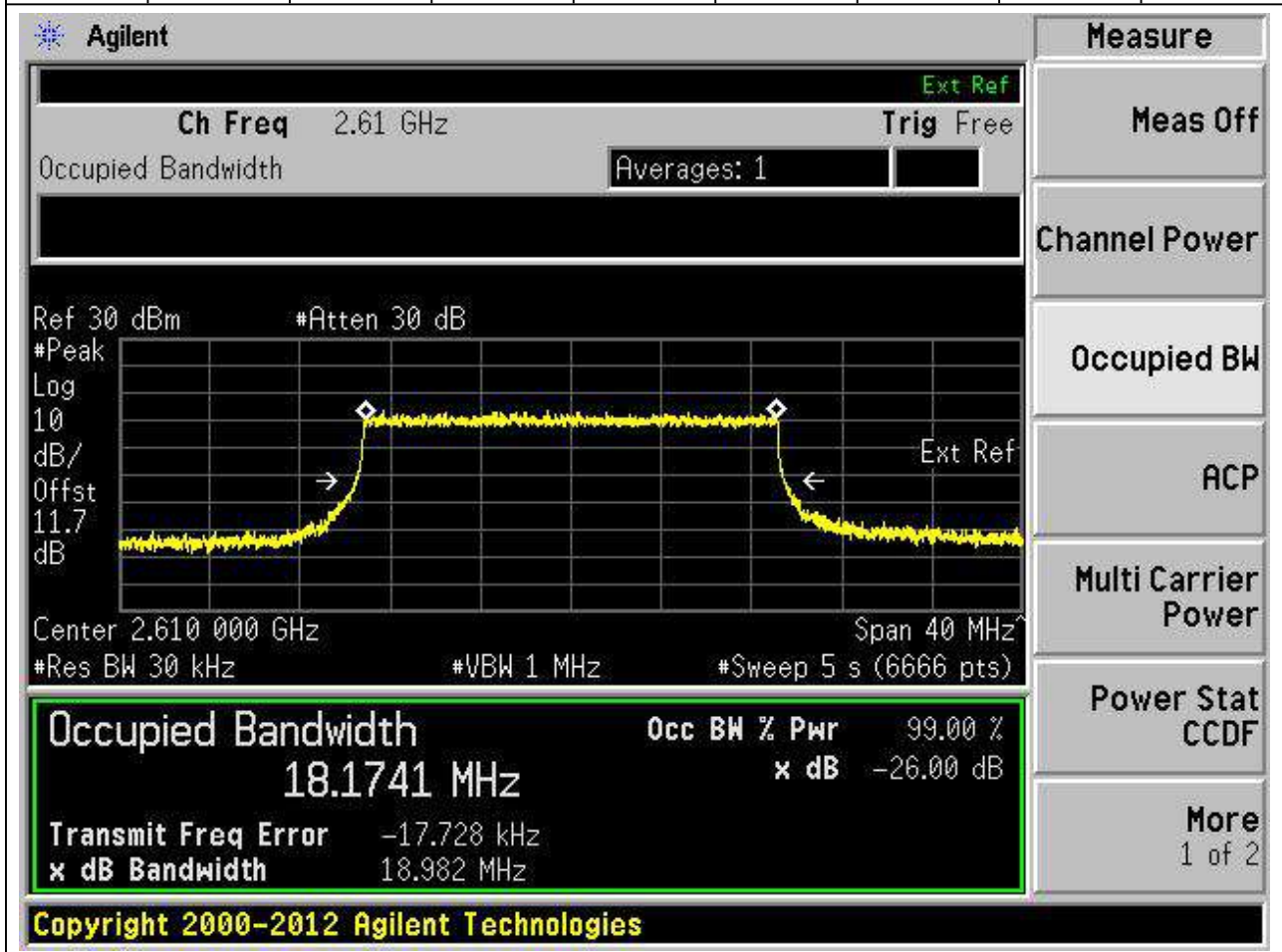
The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 2.595 GHz. The main display shows a spectrum plot with a yellow trace. The plot is set to a reference level of 30 dBm and an attenuation of 30 dB. The occupied bandwidth is measured as 18.1723 MHz, which is 99.00% of the 19.046 MHz x dB bandwidth. The transmit frequency error is -18.690 kHz. The plot also shows the upper limit at 20 MHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright notice for Agilent Technologies from 2000 to 2012.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
18.1723 MHz	x dB	-26.00 dB
Transmit Freq Error		-18.690 kHz
x dB Bandwidth		19.046 MHz

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**29.3. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:522000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2610	99	26	0.03	Peak	18.17	18.98	20	Pass



**29.4. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:517000, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2585	99	26	1	Peak	28.21	30.86	30	Pass

Agilent
Measure

Ch Freq 2.585 GHz Ext Ref

Occupied Bandwidth Trig Free

Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

Ref 30 dBm #Atten 30 dB

Center 2.585 00 GHz Span 60 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

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

**28.2103 MHz** x dB -26.00 dB

Transmit Freq Error -32.848 kHz

x dB Bandwidth 30.863 MHz

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**29.5. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:519000, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	1	Peak	28.26	30.98	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.595 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.7 dB'. The plot shows a signal with a flat top and sloping sides, with two white diamonds marking the -26 dB points. Below the plot, the following parameters are listed: 'Center 2.595 00 GHz', 'Span 60 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 5 s (401 pts)'. A summary box at the bottom left contains the following data:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>28.2617 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		1.277 kHz
<b>x dB Bandwidth</b>		30.984 MHz

On the right side of the interface, there is a 'Measure' menu with the following options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The 'Occupied BW' option is currently selected.

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**29.6. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:521000, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2605	99	26	1	Peak	28.2	30.89	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 2.605 GHz. The main display shows a spectrum plot with a yellow trace. The plot parameters include a reference level of 30 dBm, a 30 dB attenuator, a resolution bandwidth of 1 MHz, and a video bandwidth of 3 MHz. The span is 60 MHz. The measurement results are highlighted in a green box:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>28.1952 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-33.904 kHz
<b>x dB Bandwidth</b>		30.891 MHz

On the right side of the interface, there is a 'Measure' menu with options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

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**29.7. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:518000, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2590	99	26	1	Peak	38.02	40.85	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.59 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.7 dB'. The plot shows a signal with a bandwidth of approximately 40 MHz. Below the plot, the following parameters are displayed:

- Center 2.590 0 GHz
- #Res BW 1 MHz
- #WBW 3 MHz
- Span 80 MHz
- #Sweep 5 s (401 pts)

The measurement results are summarized in a table at the bottom of the screen:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>38.0175 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		4.804 kHz
<b>x dB Bandwidth</b>		40.853 MHz

On the right side of the screen, there is a 'Measure' menu with the following options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

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**29.8. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:519000, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	1	Peak	38	40.73	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 2.595 GHz. The main display shows a spectrum plot with a yellow trace. The plot parameters include a reference level of 30 dBm, a 30 dB attenuator, a resolution bandwidth of 1 MHz, and a span of 80 MHz. The occupied bandwidth is measured as 37.9988 MHz, which is 99.00% of the 40 MHz channel bandwidth. The XdB bandwidth is 40.735 MHz. The transmit frequency error is 3.850 kHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. A copyright notice for Agilent Technologies is visible at the bottom.

Occupied Bandwidth	Occ BW % Pwr	x dB
37.9988 MHz	99.00 %	-26.00 dB

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**29.9. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:520000, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2600	99	26	1	Peak	38.03	41.11	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.6 GHz, and the span is 80 MHz. The occupied bandwidth is measured as 38.0303 MHz. The power level is 99.00% and the XdB bandwidth is -26.00 dB. The detector is set to Peak. The upper limit is 40 MHz. The verdict is Pass.

Occupied Bandwidth	Occ BW % Pwr	x dB
38.0303 MHz	99.00 %	-26.00 dB

Other parameters shown in the screenshot include: Ch Freq 2.6 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 11.6 dB, Center 2.600 0 GHz, Span 80 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (401 pts).

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### 30. n41

30.1. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:501204, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2506.02	99	26	0.03	Peak	18.17	18.99	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a yellow signal trace on a grid. The center frequency is 2.50602 GHz, and the span is 40 MHz. The occupied bandwidth is measured as 18.1700 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface includes various measurement buttons on the right side, such as 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright information: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	x dB
18.1700 MHz	99.00 %	-26.00 dB

Transmit Freq Error: 2.387 kHz  
 x dB Bandwidth: 18.994 MHz

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**30.2. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:518598, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.99	99	26	0.03	Peak	18.18	19.06	20	Pass

**Agilent**

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

Ch Freq 2.59299 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.592 990 GHz Span 40 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 1 s (6666 pts)

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

**18.1810 MHz** x dB -26.00 dB

Transmit Freq Error -13.717 kHz

x dB Bandwidth 19.061 MHz

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**30.3. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:535998, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2679.99	99	26	0.03	Peak	18.18	18.97	20	Pass

**Agilent**

Ch Freq 2.67999 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.4 dB

Center 2.679 990 GHz Span 40 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 1 s (6666 pts)

**Occupied Bandwidth** 18.1843 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -24.654 kHz

x dB Bandwidth 18.971 MHz

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

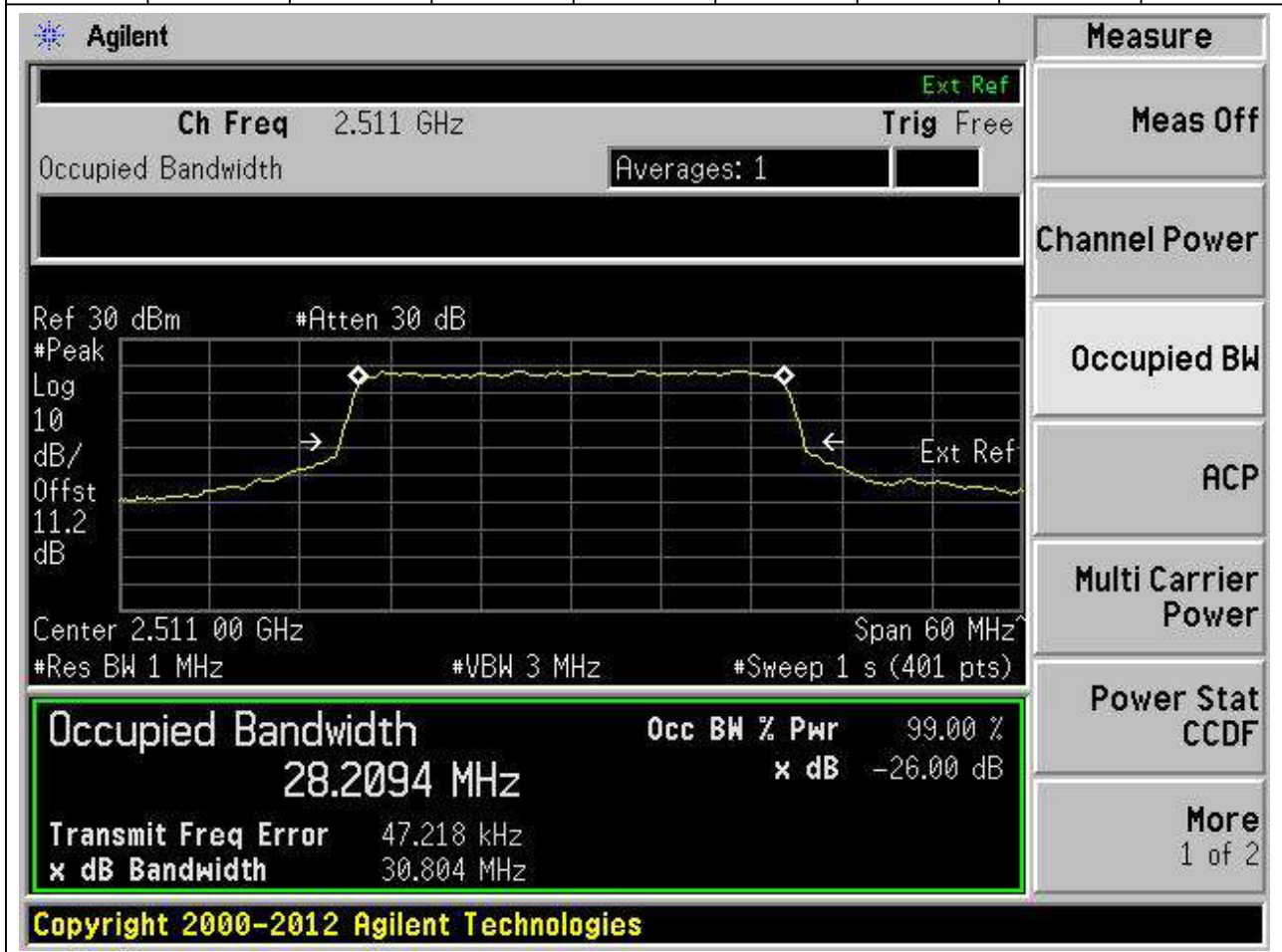
Multi Carrier Power

Power Stat CCDF

More 1 of 2

**30.4. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:502200, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)**

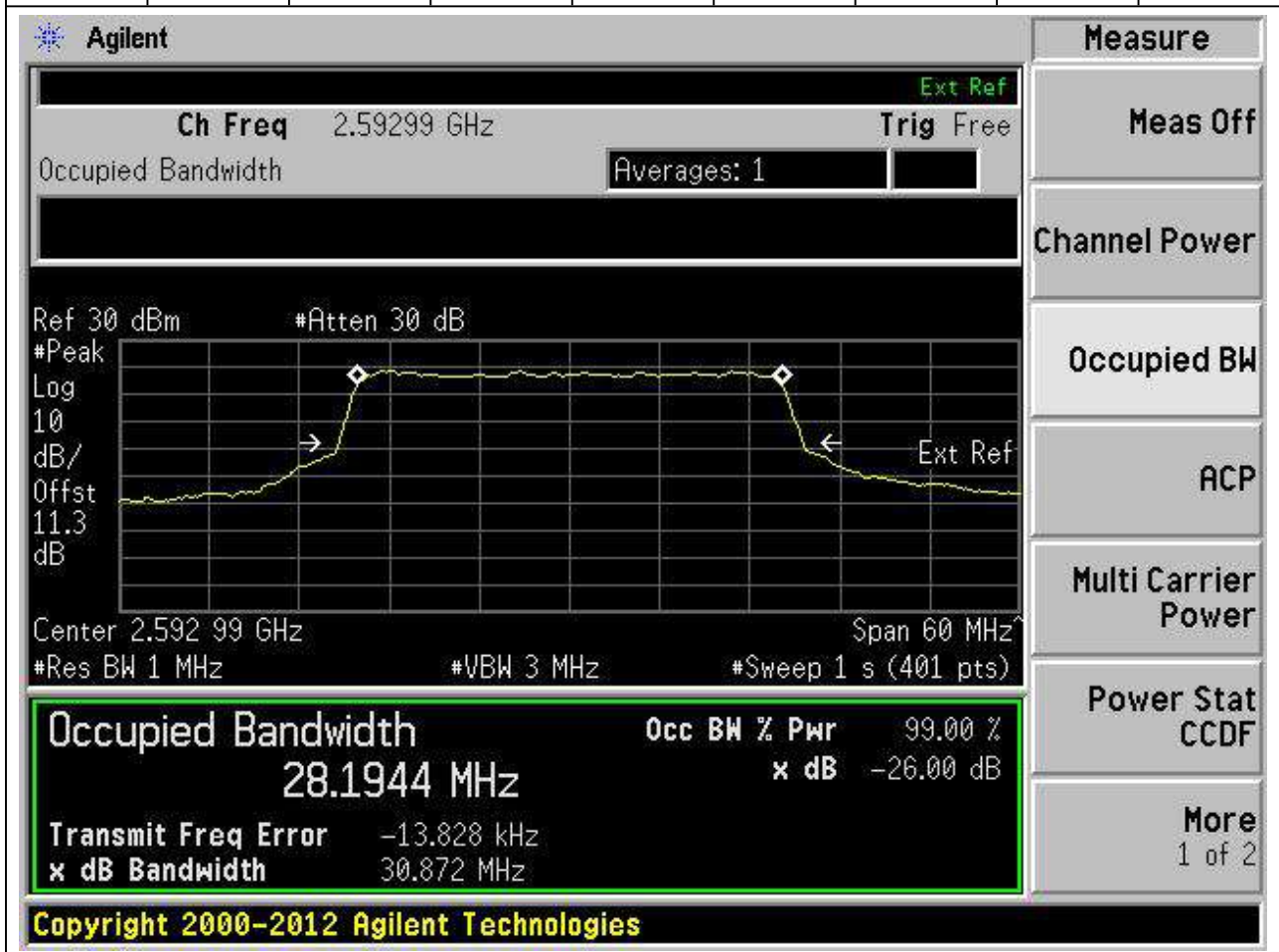
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2511	99	26	1	Peak	28.21	30.8	30	Pass





**30.5. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:518598, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.99	99	26	1	Peak	28.19	30.87	30	Pass



**30.6. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:534996, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2674.98	99	26	1	Peak	28.21	30.91	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.67498 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.4 dB'. The plot shows a signal with a peak at approximately 2.67498 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 28.2099 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -73.809 kHz', and 'x dB Bandwidth 30.913 MHz'. The bottom of the screen displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**30.7. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:503202, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2516.01	99	26	1	Peak	37.92	40.85	40	Pass

**Agilent**

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

Ch Freq 2.51601 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.2 dB

Center 2.516 0 GHz Span 80 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (401 pts)

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

**37.9246 MHz** x dB -26.00 dB

Transmit Freq Error 61.154 kHz

x dB Bandwidth 40.848 MHz

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**30.8. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:518598, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.99	99	26	1	Peak	38.01	41.11	40	Pass

Agilent

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

Ch Freq 2.59299 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.3 dB

Center 2.593 0 GHz Span 80 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (401 pts)

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

**38.0147 MHz** x dB -26.00 dB

Transmit Freq Error 10.122 kHz

x dB Bandwidth 41.106 MHz

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**30.9. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:534000, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2670	99	26	1	Peak	38.04	40.91	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.67 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a signal centered at 2.67 GHz. The plot includes parameters: 'Ref 30 dBm', '#Atten 30 dB', '#Peak Log 10 dB/Offst 11.3 dB', 'Center 2.670 0 GHz', 'Span 80 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 1 s (401 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 38.0390 MHz', 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -67.513 kHz', and 'x dB Bandwidth 40.908 MHz'. On the right side, there is a 'Measure' menu with options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

**30.10. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:504204, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:133, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2521.02	99	26	1	Peak	47.51	50.59	50	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.52102 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.1 dB'. The plot shows a signal with a sharp peak and a wider base. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 47.5081 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error 130.805 kHz', and 'x dB Bandwidth 50.593 MHz'. The 'Measure' menu on the right includes options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The footer of the screen reads 'Copyright 2000-2012 Agilent Technologies'.

**30.11. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:518598, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:133, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.99	99	26	1	Peak	47.57	50.54	50	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.59299 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.3 dB'. The plot shows a signal with a sharp peak and a wider base. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 47.5704 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -10.476 kHz', and 'x dB Bandwidth 50.543 MHz'. The 'Measure' menu on the right includes options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**30.12. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:532998, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:133, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2664.99	99	26	1	Peak	47.52	50.52	50	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.66499 GHz' and 'Trig Free'. The 'Occupied Bandwidth' measurement is highlighted with a green border, showing a value of 47.5155 MHz. The 'Occ BW % Pwr' is 99.00% and 'x dB' is -26.00 dB. Other parameters include 'Transmit Freq Error -94.896 kHz' and 'x dB Bandwidth 50.515 MHz'. The graph shows a signal with a peak level of approximately -26 dB. The 'Measure' menu on the right includes options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.



**30.13. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:505200, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:162, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2526	99	26	1	Peak	57.73	60.9	60	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.526 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot parameters include 'Ref 30 dBm', '#Atten 30 dB', 'Log 10 dB/Offst 11.2 dB', 'Center 2.526 00 GHz', 'Span 120 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 1 s (600 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 57.7309 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown are 'Transmit Freq Error 92.131 kHz' and 'x dB Bandwidth 60.897 MHz'. On the right side, there is a 'Measure' menu with options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen shows the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**30.14. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:518598, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:162, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.99	99	26	1	Peak	57.82	60.82	60	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.59299 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Peak Log 10 dB/Offst 11.3 dB', and '#Atten 30 dB'. The plot shows a signal with a flat top and sharp edges, indicating a narrowband signal. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 57.8236 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -61.693 kHz', and 'x dB Bandwidth 60.816 MHz'. The 'Measure' menu on the right includes options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible at the bottom.

**30.15. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:531996, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:162, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2659.98	99	26	1	Peak	57.7	60.75	60	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.65998 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.4 dB'. The plot shows a signal with a flat top and sloped sides, with two diamond markers indicating the measurement points. Below the plot, the following parameters are displayed: Center 2.659 98 GHz, Span 120 MHz, #Res BW 1 MHz, #VBW 3 MHz, and #Sweep 1 s (600 pts). A summary box at the bottom left contains the following data:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>57.7030 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-148.133 kHz
<b>x dB Bandwidth</b>		60.751 MHz

On the right side of the interface, there is a 'Measure' menu with the following options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

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**30.16. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:506202, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:189, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2531.01	99	26	1	Peak	67.31	70.78	70	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.53101 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.2 dB'. The plot shows a signal with a flat top and sloped sides, characteristic of a channel with a specific bandwidth. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 67.3108 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %' and 'x dB -26.00 dB'. The bottom of the screen displays the copyright information: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
67.3108 MHz		x dB	-26.00 dB
Transmit Freq Error	43.317 kHz		
x dB Bandwidth	70.776 MHz		

**30.17. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:518598, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:189, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.99	99	26	1	Peak	67.48	70.7	70	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.59299 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.3 dB'. The plot shows a signal with a flat top and sloped sides, with two diamond markers indicating the measurement points. Below the plot, the following parameters are listed: 'Center 2.592 99 GHz', 'Span 140 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 1 s (700 pts)'. A summary box at the bottom of the plot area contains the following data:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>67.4780 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-75.993 kHz
<b>x dB Bandwidth</b>		70.697 MHz

On the right side of the interface, there is a 'Measure' menu with the following options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The 'Occupied BW' option is currently selected.

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**30.18. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:531000, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:189, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2655	99	26	1	Peak	67.36	70.86	70	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.655 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot parameters include 'Ref 30 dBm', '#Atten 30 dB', 'Log 10 dB/Offst 11.3 dB', 'Center 2.655 00 GHz', 'Span 140 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 1 s (700 pts)'. The plot shows a signal with a peak at approximately 2.655 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 67.3562 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -186.337 kHz', and 'x dB Bandwidth 70.859 MHz'. The 'Measure' menu on the right includes options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The footer of the screen reads 'Copyright 2000-2012 Agilent Technologies'.

**30.19. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:507204, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:217, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2536.02	99	26	1	Peak	77.25	81.15	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.53602 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.2 dB'. The plot shows a signal with a flat top and sloping sides, with two diamond markers indicating the measurement points. Below the plot, the following parameters are listed: 'Center 2.536 02 GHz', 'Span 160 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 1 s (800 pts)'. A summary box at the bottom left contains the following data: 'Occupied Bandwidth 77.2517 MHz', 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error 104.538 kHz', and 'x dB Bandwidth 81.145 MHz'. On the right side, there is a 'Measure' menu with options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

**30.20. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:518598, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:217, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.99	99	26	1	Peak	77.47	80.92	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.59299 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.3 dB'. The plot shows a signal with a peak at approximately 2.59299 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 77.4683 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -60.513 kHz', and 'x dB Bandwidth 80.915 MHz'. The 'Measure' menu on the right includes options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The copyright notice at the bottom reads 'Copyright 2000-2012 Agilent Technologies'.



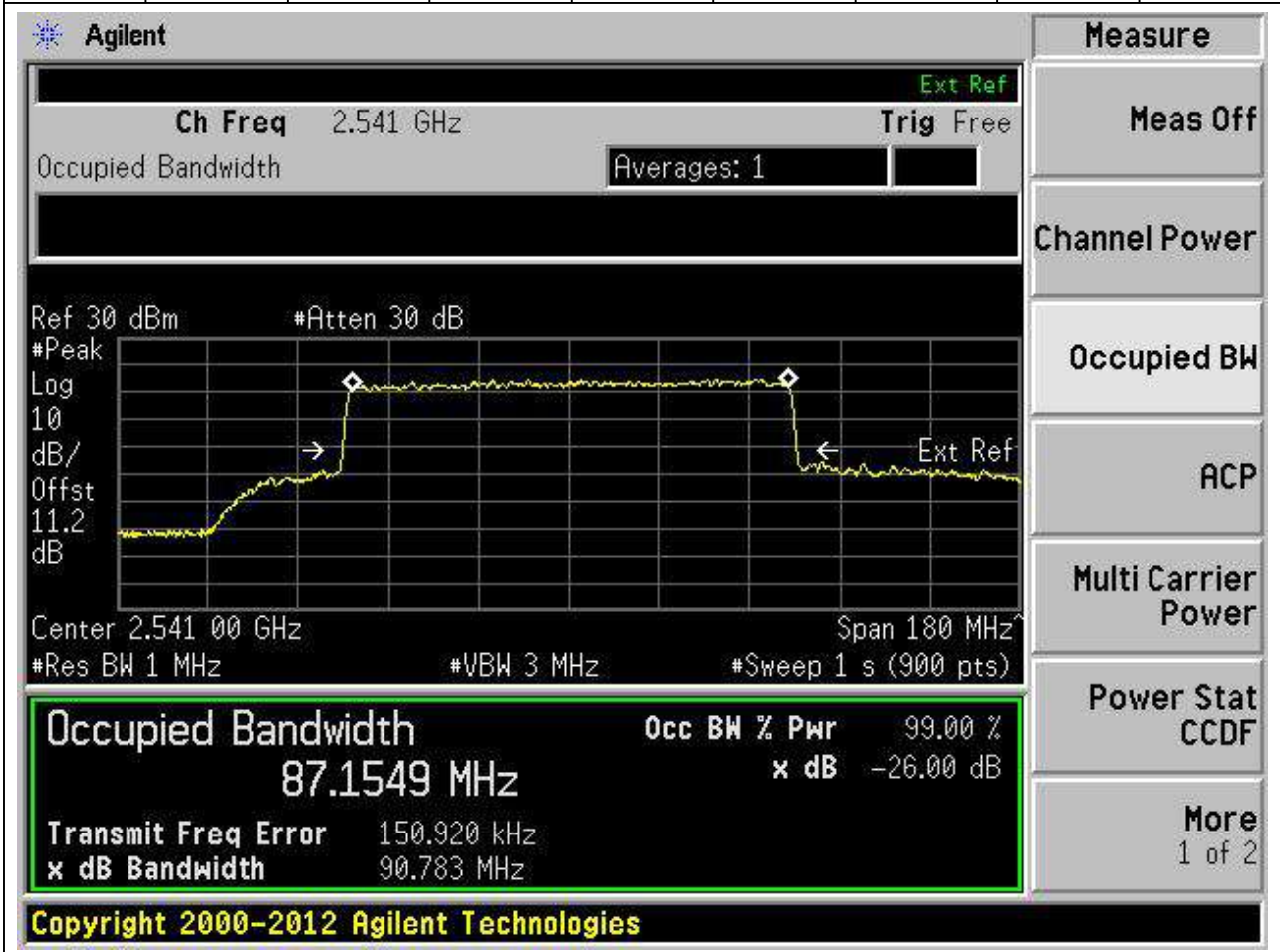
**30.21. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:529998, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:217, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2649.99	99	26	1	Peak	77.31	80.97	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.64999 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.3 dB'. The plot shows a signal with a peak at approximately 2.64999 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 77.3085 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -138.638 kHz', and 'x dB Bandwidth 80.973 MHz'. The bottom of the screen displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**30.22. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:508200, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:245, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2541	99	26	1	Peak	87.15	90.78	90	Pass



**30.23. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:518598, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:245, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.99	99	26	1	Peak	87.34	90.84	90	Pass

**Agilent**

Ch Freq 2.59299 GHz Trig Free

Occupied Bandwidth Averages: 1

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Ref 30 dBm #Atten 30 dB

#Peak

Center 2.592 99 GHz Span 180 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (900 pts)

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

**87.3429 MHz** x dB -26.00 dB

Transmit Freq Error -40.219 kHz

x dB Bandwidth 90.837 MHz

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**Measure**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**30.24. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:528996, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:245, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2644.98	99	26	1	Peak	87.16	90.83	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.64498 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.4 dB'. The plot shows a signal with a sharp peak and a wider bandwidth. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 87.1613 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -182.881 kHz', and 'x dB Bandwidth 90.831 MHz'. The interface also includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**30.25. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:509202, Bandwidth:100, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:273, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2546.01	99	26	1	Peak	97.05	101.1	100	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.54601 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.2 dB'. The plot shows a signal with a flat top and sloping sides, characteristic of a modulated signal. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 97.0459 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error 176.891 kHz', and 'x dB Bandwidth 101.105 MHz'. The interface also includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**30.26. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:518598, Bandwidth:100, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:273, RB Position:0)**

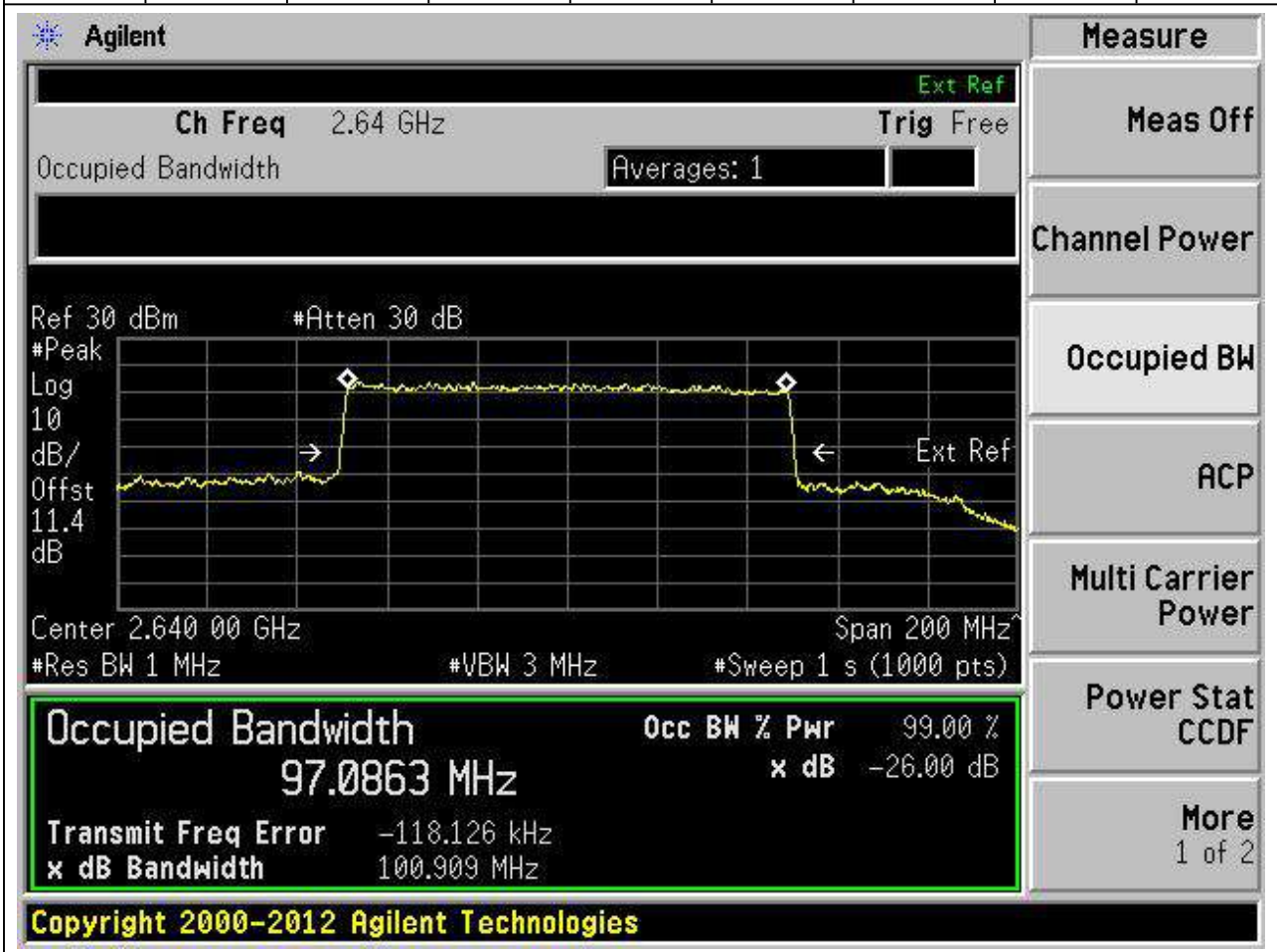
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2592.99	99	26	1	Peak	97.22	101.01	100	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.59299 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is labeled with 'Ref 30 dBm', '#Atten 30 dB', and '#Peak Log 10 dB/Offst 11.3 dB'. The plot shows a signal with a flat top and sharp edges, indicating a narrowband signal. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 97.2206 MHz. Other parameters shown include 'Occ BW % Pwr 99.00 %' and 'x dB -26.00 dB'. The bottom of the screen displays the copyright information: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
97.2206 MHz		x dB	-26.00 dB
Transmit Freq Error	33.465 kHz		
x dB Bandwidth	101.011 MHz		

**30.27. Occupied Bandwidth for SA\_Part22-24-27(NTNV)(Channel:528000, Bandwidth:100, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:273, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2640	99	26	1	Peak	97.09	100.91	100	Pass



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