

1.2. Occupied Bandwidth for SA_Part90(Channel:163800, 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
819	99	26	0.1	Peak	4.51	5.28	5	Pass

Agilent Measure

Ch Freq 819 MHz Trig Free

Occupied Bandwidth Averages: 1

Ref 28.97 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.97 dB

Center 819.000 MHz Span 10 MHz

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

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.5111 MHz	x dB	-26.00 dB
Transmit Freq Error		-8.578 kHz
x dB Bandwidth		5.279 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

1.3. Occupied Bandwidth for SA_Part90(Channel:164300, 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
821.5	99	26	0.1	Peak	4.52	5.32	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 821.500 MHz, and the span is 10 MHz. The occupied bandwidth is highlighted as 4.5180 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -3.687 kHz, and the XdB bandwidth is 5.319 MHz. 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	99.00 %
4.5180 MHz	x dB	-26.00 dB
Transmit Freq Error	-3.687 kHz	
x dB Bandwidth	5.319 MHz	

1.4. Occupied Bandwidth for SA_Part90(Channel:163300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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
816.5	99	26	0.1	Peak	4.5	5.28	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is centered at 816.500 MHz with a span of 10 MHz. The vertical axis is labeled 'Log 10 dB/Offst 8.95 dB'. The horizontal axis is labeled 'Span 10 MHz'. The plot shows a signal with a peak at approximately 816.5 MHz. The signal is labeled 'Ext Ref'.

Below the plot, the following parameters are displayed:

- Center: 816.500 MHz
- Span: 10 MHz
- #Res BW: 100 kHz
- #VBW: 300 kHz
- #Sweep: 5 s (500 pts)

The measurement results are shown in a green-bordered box:

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.4987 MHz	x dB	-26.00 dB
Transmit Freq Error		-6.509 kHz
x dB Bandwidth		5.281 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
- More 1 of 2

At the bottom of the interface, the copyright notice reads: Copyright 2000-2012 Agilent Technologies

1.5. Occupied Bandwidth for SA_Part90(Channel:163800, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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
819	99	26	0.1	Peak	4.5	5.22	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 819.000 MHz, and the span is 10 MHz. The occupied bandwidth is highlighted as 4.4980 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -576.082 Hz. The XdB bandwidth is 5.223 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: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.4980 MHz	x dB	-26.00 dB
Transmit Freq Error	-576.082 Hz	
x dB Bandwidth	5.223 MHz	

1.6. Occupied Bandwidth for SA_Part90(Channel:164300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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
821.5	99	26	0.1	Peak	4.51	5.26	5	Pass

Agilent
Measure

Ch Freq 821.5 MHz
Ext Ref

Occupied Bandwidth
Trig Free

Averages: 1

Ref 28.98 dBm
#Atten 30 dB

#Peak
Log
10
dB/
Offst
8.98
dB

Center 821.500 MHz
Span 10 MHz

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

Occupied Bandwidth

4.5140 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 1.247 kHz

x dB Bandwidth 5.259 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

1.7. Occupied Bandwidth for SA_Part90(Channel:163300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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
816.5	99	26	0.1	Peak	4.52	5.34	5	Pass

Agilent
Measure

Ch Freq 816.5 MHz
Ext Ref

Occupied Bandwidth
Trig Free

Averages: 1

Ref 28.95 dBm
#Atten 30 dB

#Peak
Ext Ref

Log 10 dB/Offst 8.95 dB

Center 816.500 MHz
Span 10 MHz

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

Occupied Bandwidth	4.5222 MHz	Occ BW % Pwr	99.00 %
		x dB	-26.00 dB
Transmit Freq Error	-17.327 kHz		
x dB Bandwidth	5.340 MHz		

Power Stat CCDF
More 1 of 2

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1.8. Occupied Bandwidth for SA_Part90(Channel:163800, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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
819	99	26	0.1	Peak	4.5	5.26	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The y-axis is labeled 'Log 10 dB/Offst 8.97 dB'. The x-axis is labeled 'Center 819.000 MHz' and 'Span 10 MHz'. The plot shows a signal with a peak at 819 MHz. The 'Occupied Bandwidth' is highlighted in a green box with the following values:

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.4985 MHz	x dB	-26.00 dB
Transmit Freq Error	-10.369 kHz	
x dB Bandwidth	5.258 MHz	

Other parameters visible in the screenshot include: Ch Freq 819 MHz, Trig Free, Averages: 1, Ref 28.97 dBm, #Atten 30 dB, #Res BW 100 kHz, #VBW 300 kHz, #Sweep 5 s (500 pts). The right-hand side of the interface shows 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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1.9. Occupied Bandwidth for SA_Part90(Channel:164300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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
821.5	99	26	0.1	Peak	4.5	5.28	5	Pass

Agilent

Ext Ref

Ch Freq 821.5 MHz **Trig** Free

Occupied Bandwidth Averages: 1

Measure

Ref 28.98 dBm #Atten 30 dB

#Peak

Log

10

dB/

Offst

8.98

dB

Ext Ref

Center 821.500 MHz

Span 10 MHz

#Res BW 100 kHz

#VBW 300 kHz

#Sweep 5 s (500 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.4988 MHz	x dB	-26.00 dB
Transmit Freq Error	-14.544 kHz	
x dB Bandwidth	5.277 MHz	

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

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1.10. Occupied Bandwidth for SA_Part90(Channel:163300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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
816.5	99	26	0.1	Peak	4.53	5.36	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 816.500 MHz, and the span is 10 MHz. The occupied bandwidth is highlighted as 4.5300 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface includes various measurement controls and a list of measurement options on the right side.

Measurement	Value
Occupied Bandwidth	4.5300 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-5.164 kHz
x dB Bandwidth	5.357 MHz

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1.11. Occupied Bandwidth for SA_Part90(Channel:163800, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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
819	99	26	0.1	Peak	4.52	5.31	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 819.000 MHz, and the span is 10 MHz. The occupied bandwidth is highlighted as 4.5183 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -11.694 kHz, and the XdB bandwidth is 5.311 MHz. The interface includes various measurement controls and a 'Measure' menu on the right side.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.5183 MHz	x dB	-26.00 dB
Transmit Freq Error	-11.694 kHz	
x dB Bandwidth	5.311 MHz	

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1.12. Occupied Bandwidth for SA_Part90(Channel:164300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, RB Number:25, RB Position:0)

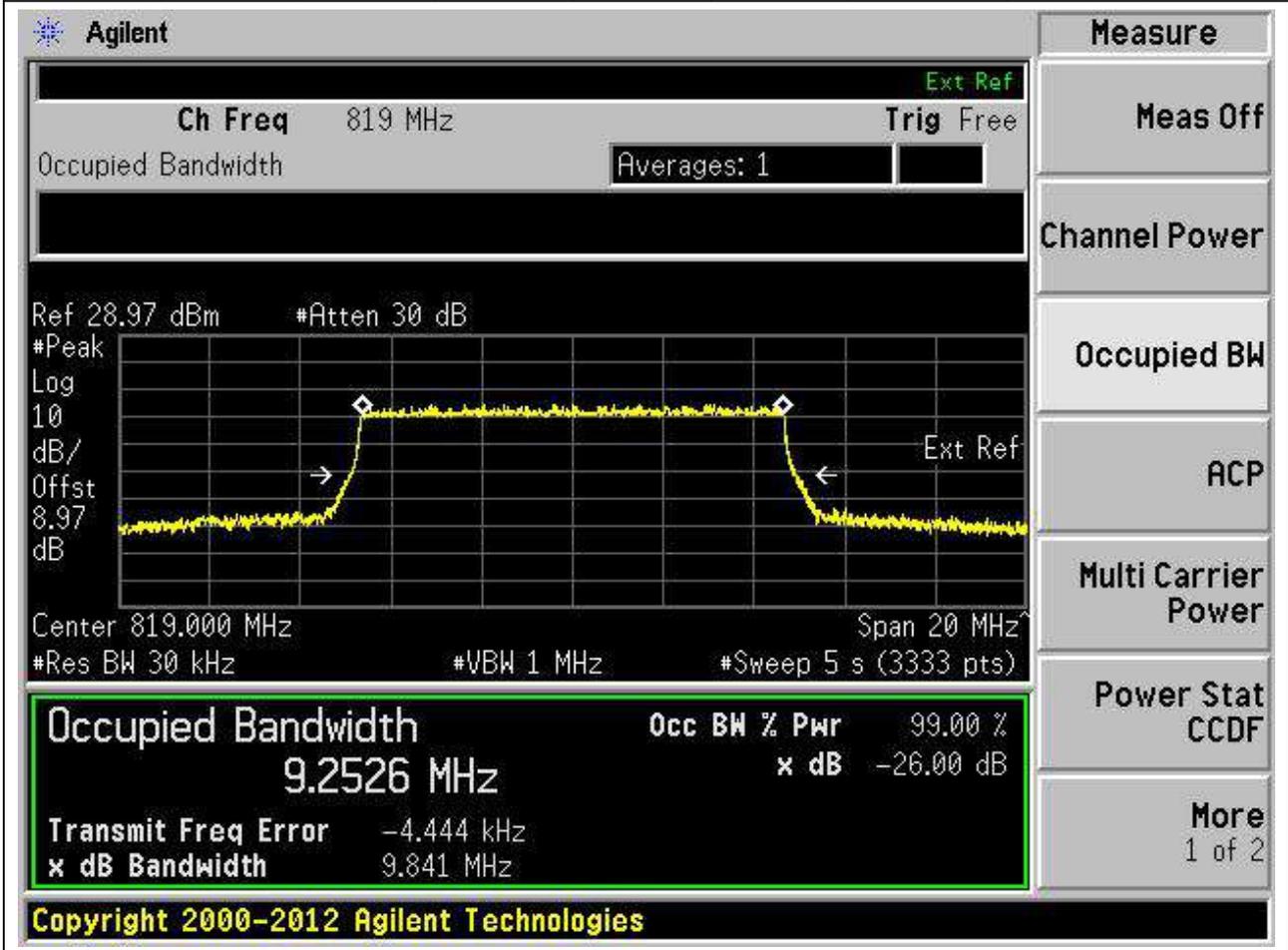
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
821.5	99	26	0.1	Peak	4.54	5.36	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 821.500 MHz, and the span is 10 MHz. The occupied bandwidth is highlighted as 4.5364 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface includes various control buttons on the right side, such as 'Measure', '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	99.00 %
4.5364 MHz	x dB	-26.00 dB
Transmit Freq Error	-16.069 kHz	
x dB Bandwidth	5.361 MHz	

1.13. Occupied Bandwidth for SA_Part90(Channel:163800, 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
819	99	26	0.03	Peak	9.25	9.84	10	Pass



1.14. Occupied Bandwidth for SA_Part90(Channel:163800, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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
819	99	26	0.03	Peak	9.26	9.72	10	Pass

Agilent
Measure

Ch Freq 819 MHz Trig Free

Occupied Bandwidth Averages: 1

Ext Ref

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

Ref 28.97 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.97 dB

Center 819.000 MHz Span 20 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (3333 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

9.2597 MHz x dB -26.00 dB

Transmit Freq Error 686.041 Hz

x dB Bandwidth 9.717 MHz

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1.15. Occupied Bandwidth for SA_Part90(Channel:163800, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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
819	99	26	0.03	Peak	9.25	9.8	10	Pass

Agilent

Ch Freq 819 MHz Trig Free

Occupied Bandwidth Averages: 1

Ref 28.97 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.97 dB

Center 819.000 MHz Span 20 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (3333 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
9.2523 MHz	x dB	-26.00 dB
Transmit Freq Error		-11.628 kHz
x dB Bandwidth		9.802 MHz

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Measure

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

1.16. Occupied Bandwidth for SA_Part90(Channel:163800, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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
819	99	26	0.03	Peak	9.27	9.74	10	Pass

Agilent

Ch Freq 819 MHz Trig Free

Occupied Bandwidth Averages: 1

Ref 28.97 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 8.97 dB

Center 819.000 MHz Span 20 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (3333 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
9.2675 MHz	x dB	-26.00 dB
Transmit Freq Error		-11.021 kHz
x dB Bandwidth		9.737 MHz

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Measure

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

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