

**2.51. Occupied Bandwidth for SA\_Part22-24-27(Channel:353500, 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
1767.5	99	26	1	Peak	24.25	26.21	25	Pass

Agilent
Measure

Ch Freq 1.7675 GHz Trig Free

Occupied Bandwidth Averages: 1

Center 1.767 500 GHz Span 50 MHz

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

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**Occupied Bandwidth**

**24.2482 MHz**

Transmit Freq Error 20.391 kHz

x dB Bandwidth 26.212 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**2.52. Occupied Bandwidth for SA\_Part22-24-27(Channel:344500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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
1722.5	99	26	1	Peak	24.11	26.2	25	Pass

Agilent

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

Ch Freq 1.7225 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.722 500 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 %
24.1132 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-80.528 kHz	
<b>x dB Bandwidth</b>	26.202 MHz	

Copyright 2000-2012 Agilent Technologies

**2.53. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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
1745	99	26	1	Peak	24	26.18	25	Pass

Agilent

Measure

Ch Freq 1.745 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
dB/

10
Offst

10.4
dB

Center 1.745 000 GHz
Span 50 MHz

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

**Occupied Bandwidth**

**24.0044 MHz**

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 15.008 kHz

x dB Bandwidth 26.179 MHz

Power Stat CCDF
More 1 of 2

Copyright 2000-2012 Agilent Technologies

**2.54. Occupied Bandwidth for SA\_Part22-24-27(Channel:353500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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
1767.5	99	26	1	Peak	24.17	26.34	25	Pass

Agilent
Measure

Ch Freq 1.7675 GHz
Ext Ref

Occupied Bandwidth
Trig Free

Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log

10

dB/

Offst

10.4

dB

Center 1.767 500 GHz
Span 50 MHz

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

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

**24.1668 MHz**
x dB -26.00 dB

Transmit Freq Error -31.042 kHz

x dB Bandwidth 26.339 MHz

Power Stat CCDF

More

1 of 2

**Copyright 2000-2012 Agilent Technologies**

**2.55. Occupied Bandwidth for SA\_Part22-24-27(Channel:344500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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
1722.5	99	26	1	Peak	24.11	26.16	25	Pass

Agilent
Measure

Ch Freq 1.7225 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.722 500 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 %
24.1061 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-95.802 kHz
<b>x dB Bandwidth</b>	26.156 MHz

**Copyright 2000-2012 Agilent Technologies**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**2.56. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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
1745	99	26	1	Peak	24	26.18	25	Pass

Agilent
Measure

Ch Freq 1.745 GHz Trig Free

Occupied Bandwidth Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**Occupied Bandwidth**

**23.9961 MHz**

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 1.729 kHz

x dB Bandwidth 26.178 MHz

Copyright 2000-2012 Agilent Technologies

**2.57. Occupied Bandwidth for SA\_Part22-24-27(Channel:353500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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
1767.5	99	26	1	Peak	24.16	26.26	25	Pass

Agilent
Measure

Ch Freq 1.7675 GHz Trig Free

Occupied Bandwidth Averages: 1

Center 1.767 500 GHz Span 50 MHz

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

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**Occupied Bandwidth**

**24.1552 MHz**

Transmit Freq Error -42.016 kHz

x dB Bandwidth 26.258 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**2.58. Occupied Bandwidth for SA\_Part22-24-27(Channel:344500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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
1722.5	99	26	1	Peak	24.14	26.16	25	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The center frequency is 1.7225 GHz, and the span is 50 MHz. The occupied bandwidth is measured as 24.1407 MHz. The power is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -120.213 kHz, and the XdB bandwidth is 26.162 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 1 of 2'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
24.1407 MHz	x dB	-26.00 dB
Transmit Freq Error	-120.213 kHz	
x dB Bandwidth	26.162 MHz	

**2.59. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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
1745	99	26	1	Peak	24.07	26.22	25	Pass

Agilent
Measure

Ch Freq 1.745 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.745 000 GHz Span 50 MHz

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

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**Occupied Bandwidth**

**24.0690 MHz**

Transmit Freq Error -23.495 kHz

x dB Bandwidth 26.215 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**2.60. Occupied Bandwidth for SA\_Part22-24-27(Channel:353500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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
1767.5	99	26	1	Peak	24.2	26.25	25	Pass

Agilent

Measure

Ch Freq 1.7675 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

10.4
dB

Center 1.767 500 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 %
24.2013 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-65.077 kHz
<b>x dB Bandwidth</b>	26.248 MHz

**Copyright 2000-2012 Agilent Technologies**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**2.61. Occupied Bandwidth for SA\_Part22-24-27(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	28.92	31.05	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 %
28.9246 MHz	x dB	-26.00 dB
Transmit Freq Error	-117.851 kHz	
x dB Bandwidth	31.051 MHz	

Copyright 2000-2012 Agilent Technologies

**2.62. Occupied Bandwidth for SA\_Part22-24-27(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	28.79	31.11	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 1.745 GHz. The Occupied Bandwidth (OBW) is measured as 28.7871 MHz, which is 99.00% of the 30 MHz channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is -52.672 kHz, and the x dB Bandwidth is 31.110 MHz. The interface includes various measurement controls and a list of available measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	28.7871 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-52.672 kHz
x dB Bandwidth	31.110 MHz

**Copyright 2000-2012 Agilent Technologies**

**2.63. Occupied Bandwidth for SA\_Part22-24-27(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	28.96	31.11	30	Pass

Agilent
Measure

Ch Freq 1.765 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 1.765 00 GHz Span 60 MHz

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

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

**28.9646 MHz** x dB -26.00 dB

Transmit Freq Error -89.566 kHz

x dB Bandwidth 31.115 MHz

Copyright 2000-2012 Agilent Technologies

**2.64. Occupied Bandwidth for SA\_Part22-24-27(Channel:345000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	28.93	31.11	30	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 dB/Offst' with values 10, 10.4, and dB. The x-axis is labeled 'Center' with a value of 1.725 00 GHz and 'Span' with a value of 60 MHz. The plot shows a signal with a peak at approximately 1.725 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 28.9347 MHz. The 'Occ BW % Pwr' is 99.00 % and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -73.626 kHz and the 'x dB Bandwidth' is 31.107 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth	Occ BW % Pwr	x dB
28.9347 MHz	99.00 %	-26.00 dB

**2.65. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	28.78	31	30	Pass

**Agilent**
**Measure**

Ch Freq 1.745 GHz Trig Free

Occupied Bandwidth Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

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

**28.7819 MHz** x dB -26.00 dB

Transmit Freq Error 1.581 kHz

x dB Bandwidth 31.002 MHz

Copyright 2000-2012 Agilent Technologies

**2.66. Occupied Bandwidth for SA\_Part22-24-27(Channel:353000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	28.96	31.05	30	Pass

Agilent
Measure

Ch Freq 1.765 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

**Occupied Bandwidth**

**28.9624 MHz**

Transmit Freq Error -52.244 kHz

x dB Bandwidth 31.045 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**2.67. Occupied Bandwidth for SA\_Part22-24-27(Channel:345000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	28.9	31.02	30	Pass

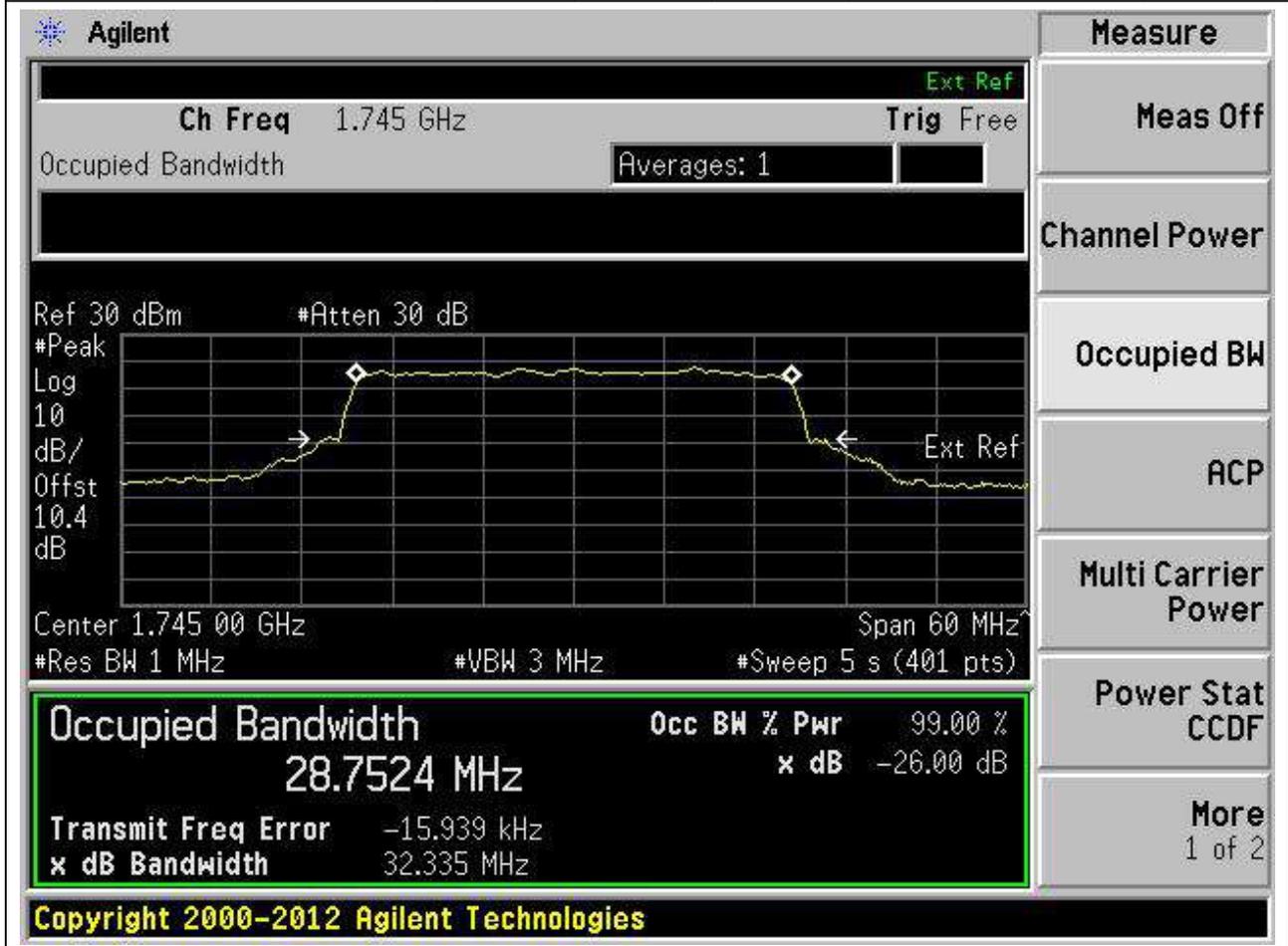
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 1.725 GHz, and the span is 60 MHz. The occupied bandwidth is measured as 28.8992 MHz, which is 99.00% of the 30 MHz channel bandwidth. The power level is -26.00 dB. The interface includes various measurement controls and a list of available measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	28.8992 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-86.282 kHz
x dB Bandwidth	31.020 MHz

**Copyright 2000-2012 Agilent Technologies**

**2.68. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	28.75	32.34	30	Pass



**2.69. Occupied Bandwidth for SA\_Part22-24-27(Channel:353000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	28.94	31.77	30	Pass

Agilent
Measure

Ch Freq 1.765 GHz Trig Free

Occupied Bandwidth Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**Occupied Bandwidth**

**28.9402 MHz**

Transmit Freq Error -64.475 kHz

x dB Bandwidth 31.770 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**2.70. Occupied Bandwidth for SA\_Part22-24-27(Channel:345000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	28.87	31.15	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	28.8712 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-92.190 kHz
x dB Bandwidth	31.146 MHz

Other visible parameters include: Ch Freq 1.725 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 10.4 dB, Center 1.725 00 GHz, Span 60 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (401 pts).

Copyright 2000-2012 Agilent Technologies

**2.71. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	28.7	31.12	30	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
Ext Ref Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
28.7046 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-16.160 kHz	
<b>x dB Bandwidth</b>	31.116 MHz	

Copyright 2000-2012 Agilent Technologies

**2.72. Occupied Bandwidth for SA\_Part22-24-27(Channel:353000, Bandwidth:30, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	28.91	31.16	30	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 1.765 GHz with a span of 60 MHz. The y-axis is labeled 'Log 10 dB/Offst 10.4 dB'. The plot shows a signal with a peak at approximately 1.765 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 28.9076 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -69.319 kHz and the 'x dB Bandwidth' is 31.158 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom of the screen.

Occupied Bandwidth	Occ BW % Pwr	x dB
28.9076 MHz	99.00 %	-26.00 dB

Transmit Freq Error: -69.319 kHz  
x dB Bandwidth: 31.158 MHz

Copyright 2000-2012 Agilent Technologies

**3.1. Occupied Bandwidth for SA\_Part22-24-27(Channel:345500, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:188, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1727.5	99	26	1	Peak	33.86	36.14	35	Pass

Agilent
Measure

Ch Freq 1.7275 GHz Ext Ref

Occupied Bandwidth Trig Free

Averages: 1

Center 1.727 500 GHz Span 70 MHz

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

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**Occupied Bandwidth**

**33.8607 MHz**

Transmit Freq Error -86.415 kHz

x dB Bandwidth 36.138 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**3.2. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:188, 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	33.65	36.14	35	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 1.745 GHz. The Occupied Bandwidth (OBW) is measured as 33.6546 MHz, which is 99.00% of the 35 MHz channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is -52.903 kHz, and the x dB Bandwidth is 36.138 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 %
33.6546 MHz	x dB	-26.00 dB
Transmit Freq Error	-52.903 kHz	
x dB Bandwidth	36.138 MHz	

**3.3. Occupied Bandwidth for SA\_Part22-24-27(Channel:352500, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:188, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1762.5	99	26	1	Peak	33.8	36.13	35	Pass

Agilent
Measure

Ch Freq 1.7625 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.762 500 GHz Span 70 MHz

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

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
33.7981 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-86.128 kHz
<b>x dB Bandwidth</b>	36.130 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**3.4. Occupied Bandwidth for SA\_Part22-24-27(Channel:345500, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, RB Number:188, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1727.5	99	26	1	Peak	33.99	36.24	35	Pass

Agilent
Measure

Ch Freq 1.7275 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.727 500 GHz Span 70 MHz

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

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**Occupied Bandwidth**

**33.9873 MHz**

Transmit Freq Error -24.733 kHz

x dB Bandwidth 36.237 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**3.5. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, RB Number:188, 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	33.78	36.18	35	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 1.745 GHz, and the span is 70 MHz. The occupied bandwidth is measured as 33.7828 MHz, which is 99.00% of the 35 MHz channel bandwidth. The XdB down is -26.00 dB. The transmit frequency error is -3.856 kHz, and the XdB bandwidth is 36.183 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 %
33.7828 MHz	x dB	-26.00 dB
Transmit Freq Error	-3.856 kHz	
x dB Bandwidth	36.183 MHz	

Copyright 2000-2012 Agilent Technologies

**3.6. Occupied Bandwidth for SA\_Part22-24-27(Channel:352500, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, RB Number:188, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1762.5	99	26	1	Peak	33.93	36.23	35	Pass

Agilent
Measure

Ch Freq 1.7625 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.762 500 GHz Span 70 MHz

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

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**Occupied Bandwidth**

**33.9256 MHz**

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -28.273 kHz

x dB Bandwidth 36.229 MHz

Copyright 2000-2012 Agilent Technologies

**3.7. Occupied Bandwidth for SA\_Part22-24-27(Channel:345500, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, RB Number:188, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1727.5	99	26	1	Peak	33.9	36.15	35	Pass

Agilent

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

Ch Freq 1.7275 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak

Log

10

dB/

Offst

10.4

dB

Center 1.727 500 GHz Span 70 MHz

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

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

**33.9021 MHz** x dB -26.00 dB

Transmit Freq Error -45.538 kHz

x dB Bandwidth 36.152 MHz

Copyright 2000-2012 Agilent Technologies

**3.8. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, RB Number:188, 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	33.69	36.09	35	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 1.745 GHz and a span of 70 MHz. The y-axis is labeled 'Log 10 dB/Offst 10.4 dB'. The plot shows a signal with a peak at approximately 1.745 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 33.6912 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include 'Transmit Freq Error' of -20.071 kHz and 'x dB Bandwidth' of 36.089 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'.

**3.9. Occupied Bandwidth for SA\_Part22-24-27(Channel:352500, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, RB Number:188, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1762.5	99	26	1	Peak	33.82	36.1	35	Pass

Agilent
Measure

Ch Freq 1.7625 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.762 500 GHz Span 70 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>33.8220 MHz</b>	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b>	-53.678 kHz
<b>x dB Bandwidth</b>	36.101 MHz

**Copyright 2000-2012 Agilent Technologies**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**3.10. Occupied Bandwidth for SA\_Part22-24-27(Channel:345500, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, RB Number:188, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1727.5	99	26	1	Peak	33.9	36.16	35	Pass

Agilent

Measure

Ch Freq 1.7275 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

10.4
dB

Center 1.727 500 GHz
Span 70 MHz

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

**Occupied Bandwidth**

**33.9040 MHz**

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -15.854 kHz

x dB Bandwidth 36.160 MHz

Power Stat CCDF
More 1 of 2

Copyright 2000-2012 Agilent Technologies

**3.11. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, RB Number:188, 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	33.68	36.02	35	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	33.6807 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	4.339 kHz
x dB Bandwidth	36.019 MHz

Additional parameters shown in the interface include: Ch Freq 1.745 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 10.4 dB, Center 1.745 000 GHz, Span 70 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (401 pts).

Copyright 2000-2012 Agilent Technologies

**3.12. Occupied Bandwidth for SA\_Part22-24-27(Channel:352500, Bandwidth:35, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, RB Number:188, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1762.5	99	26	1	Peak	33.84	36.13	35	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The center frequency is 1.7625 GHz, and the span is 70 MHz. The occupied bandwidth is highlighted as 33.8359 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -13.549 kHz, and the XdB bandwidth is 36.134 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 1 of 2'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
33.8359 MHz	x dB	-26.00 dB
Transmit Freq Error	-13.549 kHz	
x dB Bandwidth	36.134 MHz	



**2.73. Occupied Bandwidth for SA\_Part22-24-27(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	38.83	41.26	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 1.73 GHz. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 38.8343 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include Center 1.7300 GHz, Span 80 MHz, Res BW 1 MHz, VBW 3 MHz, and Sweep 5 s (401 pts). 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).

Occupied Bandwidth	Occ BW % Pwr	x dB
38.8343 MHz	99.00 %	-26.00 dB

Copyright 2000-2012 Agilent Technologies

**2.74. Occupied Bandwidth for SA\_Part22-24-27(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	38.64	41.21	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 1.745 GHz. The Occupied Bandwidth is measured as 38.6378 MHz, which is 99.00% of the 40 MHz channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is -43.141 kHz, and the XdB Bandwidth is 41.206 MHz. The interface includes various measurement controls and a list of available measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	38.6378 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-43.141 kHz
x dB Bandwidth	41.206 MHz

**Copyright 2000-2012 Agilent Technologies**

**2.75. Occupied Bandwidth for SA\_Part22-24-27(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	38.71	41.17	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	38.7138 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-36.190 kHz
x dB Bandwidth	41.170 MHz

Additional parameters shown in the interface include: Ch Freq 1.76 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 10.4 dB, Center 1.760 0 GHz, Span 80 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (401 pts).

Copyright 2000-2012 Agilent Technologies

**2.76. Occupied Bandwidth for SA\_Part22-24-27(Channel:346000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	38.95	41.22	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 1.73 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 highlighted in a green box with the following values:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>38.9504 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-83.821 kHz
<b>x dB Bandwidth</b>		41.224 MHz

On the right side of the interface, a vertical menu lists various measurement options: Measure, Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

Copyright 2000-2012 Agilent Technologies

**2.77. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	38.71	41.19	40	Pass

Agilent
Measure

Ch Freq 1.745 GHz Trig Free

Occupied Bandwidth Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
38.7115 MHz	x dB -26.00 dB
Transmit Freq Error	-80.419 kHz
x dB Bandwidth	41.189 MHz

Copyright 2000-2012 Agilent Technologies

**2.78. Occupied Bandwidth for SA\_Part22-24-27(Channel:352000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	38.82	41.16	40	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 10.4 dB' and the x-axis is 'Center 1.760 0 GHz'. The plot shows a signal with a sharp peak and a wider base, indicating occupied bandwidth. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 38.8159 MHz. Other parameters include 'Ch Freq 1.76 GHz', 'Trig Free', 'Averages: 1', 'Ref 30 dBm', '#Atten 30 dB', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 5 s (401 pts)'. 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 shows the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

Measurement	Value
Occupied Bandwidth	38.8159 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-67.067 kHz
x dB Bandwidth	41.163 MHz

**2.79. Occupied Bandwidth for SA\_Part22-24-27(Channel:346000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	39	41.27	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 1.730 GHz, and the span is 80 MHz. The occupied bandwidth is highlighted as 39.0010 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.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
39.0010 MHz		x dB	-26.00 dB
Transmit Freq Error	5.606 kHz		
x dB Bandwidth	41.272 MHz		

**Copyright 2000-2012 Agilent Technologies**

**2.80. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	38.74	41.16	40	Pass

Agilent
Measure

Ch Freq 1.745 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 1.745 0 GHz Span 80 MHz

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

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

**38.7393 MHz** x dB -26.00 dB

Transmit Freq Error 3.066 kHz

x dB Bandwidth 41.155 MHz

Copyright 2000-2012 Agilent Technologies

**2.81. Occupied Bandwidth for SA\_Part22-24-27(Channel:352000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	38.85	41.18	40	Pass

Agilent
Measure

Ch Freq 1.76 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 1.760 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>38.8499 MHz</b>	<b>x dB</b>	-26.00 dB
Transmit Freq Error	21.633 kHz	
x dB Bandwidth	41.183 MHz	

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**2.82. Occupied Bandwidth for SA\_Part22-24-27(Channel:346000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	38.83	41.19	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 1.73 GHz. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 38.8263 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include Transmit Freq Error (-19.660 kHz) and x dB Bandwidth (41.189 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'.

**2.83. Occupied Bandwidth for SA\_Part22-24-27(Channel:349000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	38.59	41.16	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 1.745 GHz. The Occupied Bandwidth (OBW) is measured as 38.5879 MHz, which is 99.00% of the 40 MHz channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is -47.970 kHz, and the x dB Bandwidth is 41.161 MHz. The interface includes various measurement controls and a list of available measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	38.5879 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-47.970 kHz
x dB Bandwidth	41.161 MHz

**Copyright 2000-2012 Agilent Technologies**

**2.84. Occupied Bandwidth for SA\_Part22-24-27(Channel:352000, Bandwidth:40, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	38.72	41.16	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	38.7200 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-6.778 kHz
x dB Bandwidth	41.160 MHz

Other visible parameters include: Ch Freq 1.76 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst 10.4 dB, Center 1.7600 GHz, Span 80 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (401 pts).

Copyright 2000-2012 Agilent Technologies

### 3. n7

#### 3.1. Occupied Bandwidth for SA\_Part22-24-27(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	4.51	5.29	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 2.5025 GHz. The 'Occupied Bandwidth' is measured as 4.5050 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -6.409 kHz and the 'x dB Bandwidth' is 5.286 MHz. The interface includes a 'Measure' menu 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'.

**3.2. Occupied Bandwidth for SA\_Part22-24-27(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	4.51	5.27	5	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

11.4

dB

Center 2.535 000 GHz Span 10 MHz

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

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
4.5080 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-6.670 kHz
<b>x dB Bandwidth</b>	5.273 MHz

Copyright 2000-2012 Agilent Technologies

**3.3. Occupied Bandwidth for SA\_Part22-24-27(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	4.51	5.28	5	Pass

Agilent

Measure

Ch Freq 2.5675 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

11.8
dB

Center 2.567 500 GHz
Span 10 MHz

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

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
4.5091 MHz	x dB	-26.00 dB
<b>Transmit Freq Error</b>		-8.125 kHz
x dB Bandwidth		5.277 MHz

Power Stat
CCDF

More
1 of 2

**Copyright 2000-2012 Agilent Technologies**

**3.4. Occupied Bandwidth for SA\_Part22-24-27(Channel:500500, 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
2502.5	99	26	0.1	Peak	4.51	5.28	5	Pass

Agilent
Measure

Ch Freq 2.5025 GHz Trig Free

Occupied Bandwidth Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**Occupied Bandwidth**  
4.5110 MHz

Transmit Freq Error -1.756 kHz  
x dB Bandwidth 5.283 MHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**3.5. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, 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
2535	99	26	0.1	Peak	4.51	5.29	5	Pass

Agilent

Measure

Ch Freq 2.535 GHz
Ext Ref

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Trig Free

Log
Ext Ref

10

dB/

Offst

11.4

dB

Center 2.535 000 GHz
Span 10 MHz

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

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
4.5089 MHz	x dB	-26.00 dB
<b>Transmit Freq Error</b>		
x dB Bandwidth		

<b>Transmit Freq Error</b>	-3.364 kHz
<b>x dB Bandwidth</b>	5.292 MHz

Copyright 2000-2012 Agilent Technologies

More  
1 of 2

**3.6. Occupied Bandwidth for SA\_Part22-24-27(Channel:513500, 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
2567.5	99	26	0.1	Peak	4.51	5.3	5	Pass

Agilent
Measure

Ch Freq 2.5675 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.567 500 GHz Span 10 MHz  
#Res BW 100 kHz #VBW 300 kHz #Sweep 5 s (500 pts)

**Occupied Bandwidth** Occ BW % Pwr 99.00 %  
4.5099 MHz x dB -26.00 dB

Transmit Freq Error -4.601 kHz  
x dB Bandwidth 5.304 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**3.7. Occupied Bandwidth for SA\_Part22-24-27(Channel:500500, 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
2502.5	99	26	0.1	Peak	4.53	5.4	5	Pass

Agilent

Measure

Ch Freq 2.5025 GHz
Ext Ref

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Trig Free

Log
Ext Ref

10

dB/

Offst

11.3

dB

Center 2.502 500 GHz
Span 10 MHz

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

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
4.5313 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-12.824 kHz
<b>x dB Bandwidth</b>	5.401 MHz

Power Stat
More

CCDF
1 of 2

**Copyright 2000-2012 Agilent Technologies**

**3.8. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, 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
2535	99	26	0.1	Peak	4.54	5.39	5	Pass

Agilent
Measure

Ch Freq 2.535 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm    #Atten 30 dB    Span 10 MHz  
#Res BW 100 kHz    #VBW 300 kHz    #Sweep 5 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
4.5373 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-11.130 kHz
<b>x dB Bandwidth</b>	5.395 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**3.9. Occupied Bandwidth for SA\_Part22-24-27(Channel:513500, 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
2567.5	99	26	0.1	Peak	4.54	5.38	5	Pass

Agilent
Measure

Ch Freq 2.5675 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.567 500 GHz Span 10 MHz  
#Res BW 100 kHz #VBW 300 kHz #Sweep 5 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
4.5376 MHz	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b>	-14.370 kHz
<b>x dB Bandwidth</b>	5.383 MHz

**Copyright 2000-2012 Agilent Technologies**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**3.10. Occupied Bandwidth for SA\_Part22-24-27(Channel:500500, 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
2502.5	99	26	0.1	Peak	4.53	5.33	5	Pass

Agilent
Measure

Ch Freq 2.5025 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.3 dB

Center 2.502500 GHz Span 10 MHz

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

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**Occupied Bandwidth**

**4.5304 MHz**

Transmit Freq Error -13.062 kHz

x dB Bandwidth 5.325 MHz

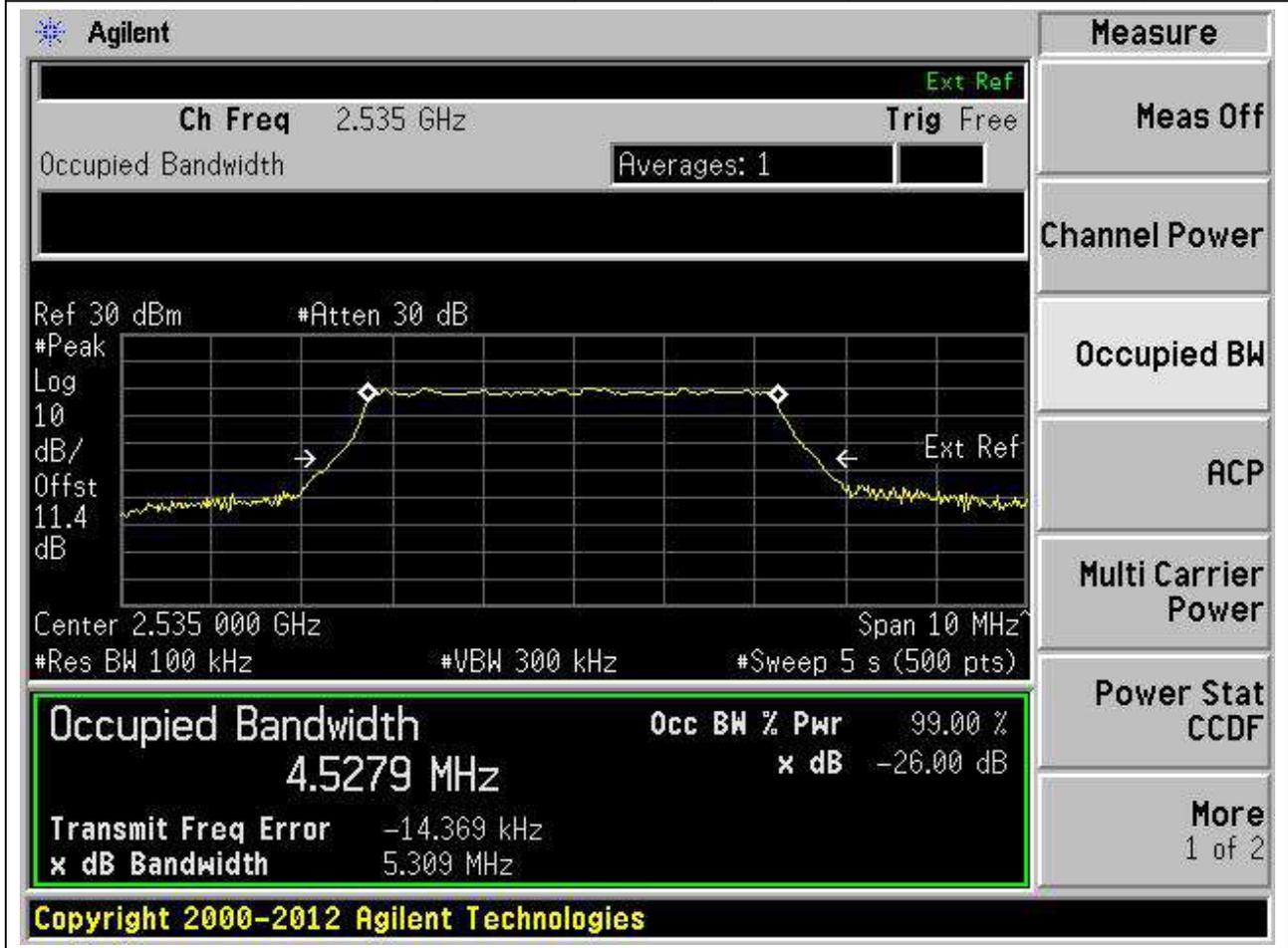
Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**3.11. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, 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
2535	99	26	0.1	Peak	4.53	5.31	5	Pass



**3.12. Occupied Bandwidth for SA\_Part22-24-27(Channel:513500, 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
2567.5	99	26	0.1	Peak	4.53	5.3	5	Pass

Agilent

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

Ch Freq 2.5675 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.567 500 GHz Span 10 MHz

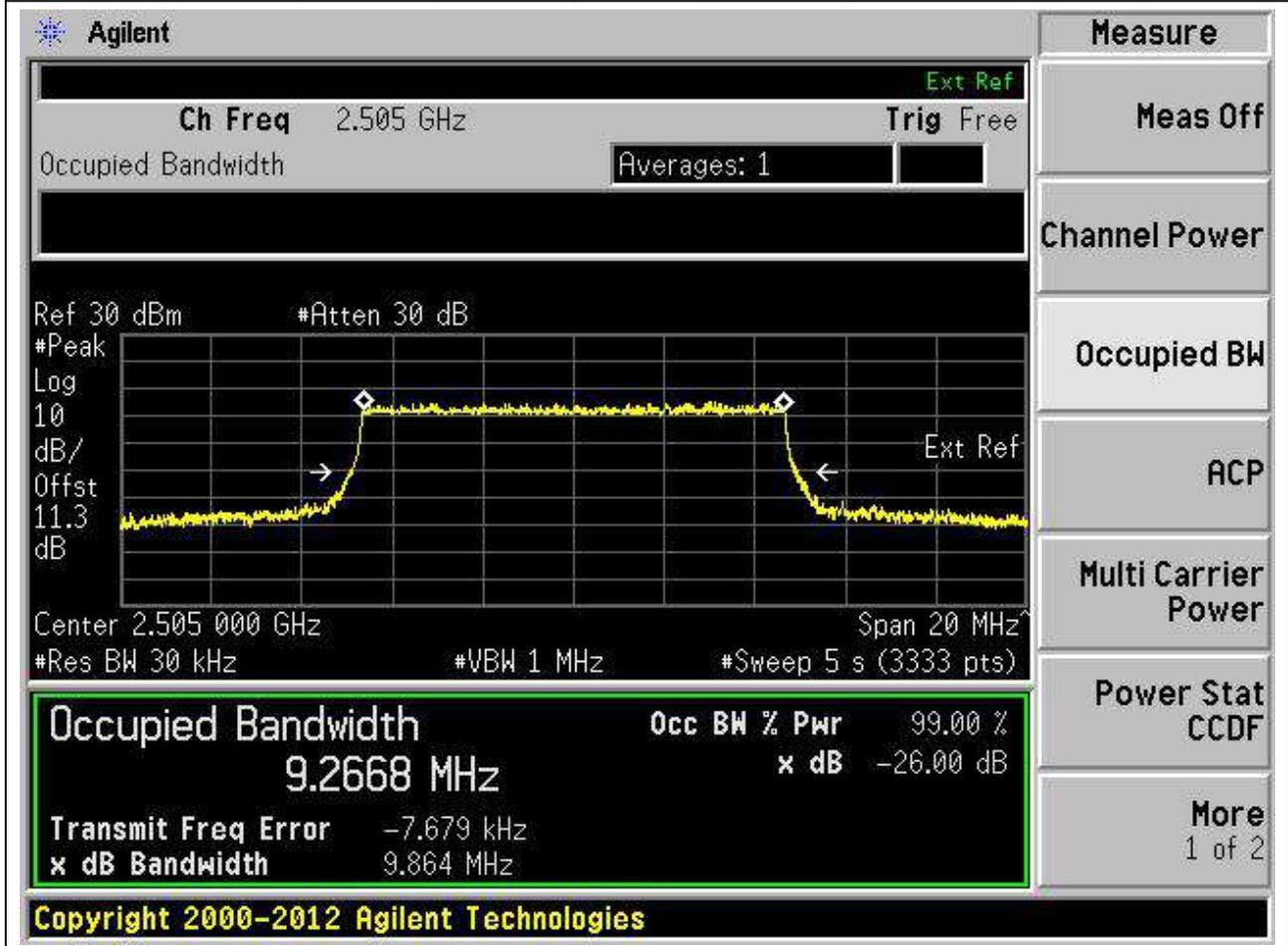
#Res BW 100 kHz #VBW 300 kHz #Sweep 5 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>4.5264 MHz</b>	<b>x dB</b>	-26.00 dB
Transmit Freq Error	-16.953 kHz	
x dB Bandwidth	5.300 MHz	

Copyright 2000-2012 Agilent Technologies

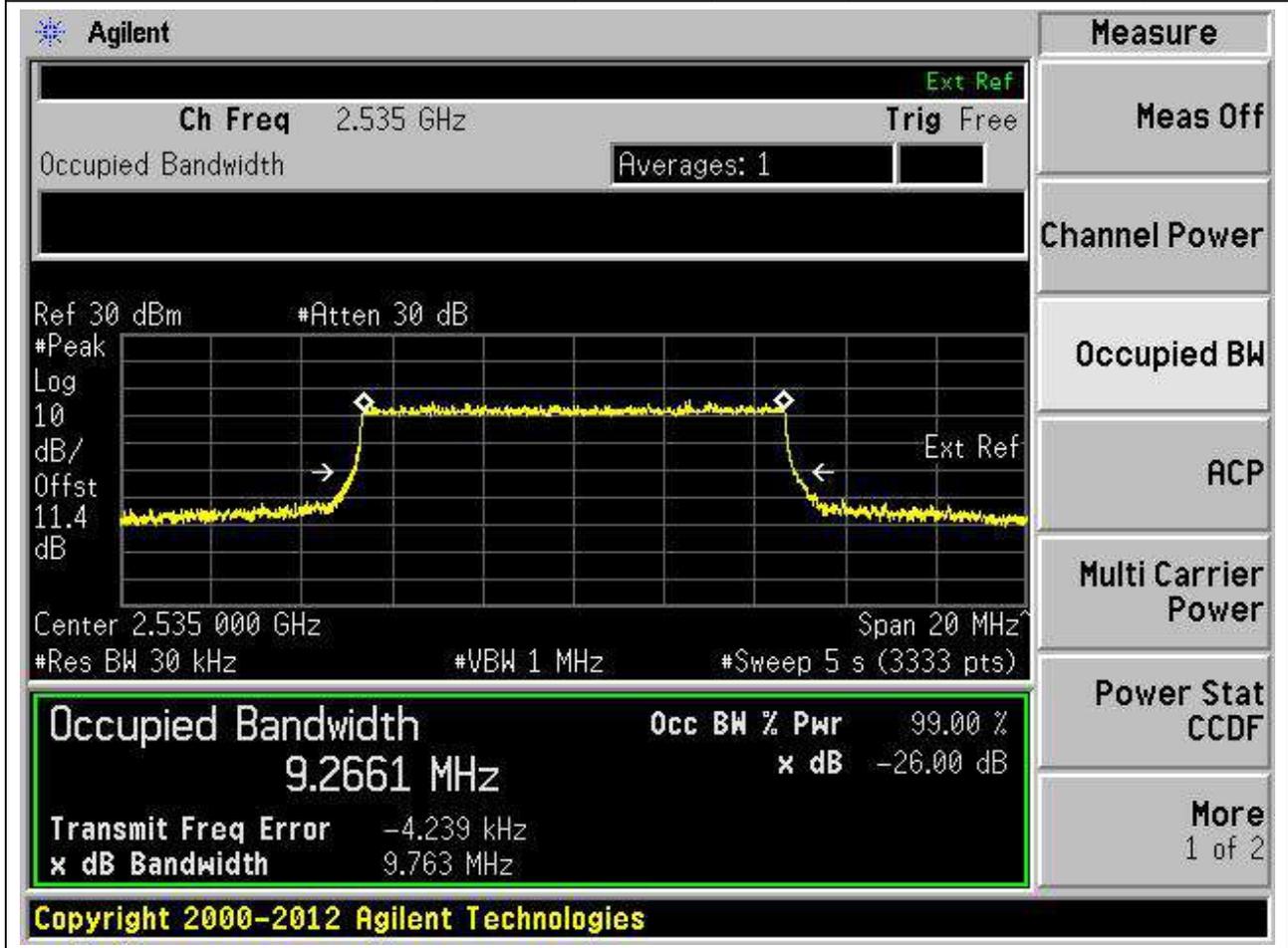
**3.13. Occupied Bandwidth for SA\_Part22-24-27(Channel:501000, Bandwidth:10, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:52, RB Position:0)**

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	9.27	9.86	10	Pass



**3.14. Occupied Bandwidth for SA\_Part22-24-27(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	9.27	9.76	10	Pass



**3.15. Occupied Bandwidth for SA\_Part22-24-27(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	9.27	9.84	10	Pass

Agilent
Measure

Ch Freq 2.565 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.7 dB

Center 2.565 000 GHz Span 20 MHz

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

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

**9.2674 MHz** x dB -26.00 dB

Transmit Freq Error -10.254 kHz

x dB Bandwidth 9.841 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**3.16. Occupied Bandwidth for SA\_Part22-24-27(Channel:501000, 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
2505	99	26	0.03	Peak	9.28	9.76	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow signal trace. The plot is centered at 2.505 GHz with a span of 20 MHz. The signal level is approximately 11.3 dB. The occupied bandwidth is highlighted with a green box, showing a value of 9.2762 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface also shows various measurement parameters such as Res BW (30 kHz), VBW (1 MHz), and Sweep (5 s).

Occupied Bandwidth		Occ BW % Pwr	99.00 %
9.2762 MHz		x dB	-26.00 dB
Transmit Freq Error	-3.377 kHz		
x dB Bandwidth	9.765 MHz		

Copyright 2000-2012 Agilent Technologies

**3.17. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, 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
2535	99	26	0.03	Peak	9.27	9.76	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	9.2720 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	40.875 Hz
x dB Bandwidth	9.764 MHz

Additional parameters shown in the interface include: Ch Freq 2.535 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 11.4 dB, Center 2.535 000 GHz, Span 20 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (3333 pts).

Copyright 2000-2012 Agilent Technologies

**3.18. Occupied Bandwidth for SA\_Part22-24-27(Channel:513000, 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
2565	99	26	0.03	Peak	9.27	9.79	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow signal trace. The plot is centered at 2.565 GHz with a span of 20 MHz. The vertical axis is labeled 'Log 10 dB/Offst 11.7 dB'. The horizontal axis is labeled 'Center 2.565 000 GHz' and 'Span 20 MHz'. The plot shows a signal with a peak level of approximately 11.7 dB. The 'Occupied Bandwidth' is measured as 9.2748 MHz, and the 'Occ BW % Pwr' is 99.00%. The 'x dB Bandwidth' is 9.789 MHz. The 'Transmit Freq Error' is -4.156 kHz. The 'Verdict' is 'Pass'.

**Occupied Bandwidth** 9.2748 MHz

**Occ BW % Pwr** 99.00 %

**x dB Bandwidth** 9.789 MHz

**Transmit Freq Error** -4.156 kHz

**Copyright 2000-2012 Agilent Technologies**

**3.19. Occupied Bandwidth for SA\_Part22-24-27(Channel:501000, 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
2505	99	26	0.03	Peak	9.27	9.81	10	Pass

Agilent

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

Ch Freq 2.505 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.505 000 GHz Span 20 MHz  
 #Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (3333 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>9.2669 MHz</b>	<b>x dB</b>	-26.00 dB
Transmit Freq Error	-10.914 kHz	
x dB Bandwidth	9.813 MHz	

Copyright 2000-2012 Agilent Technologies

**3.20. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, 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
2535	99	26	0.03	Peak	9.26	9.88	10	Pass

Agilent
Measure

Ch Freq 2.535 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 11.4 dB

Center 2.535 000 GHz Span 20 MHz

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

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

**9.2625 MHz** x dB -26.00 dB

Transmit Freq Error -12.286 kHz

x dB Bandwidth 9.883 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**3.21. Occupied Bandwidth for SA\_Part22-24-27(Channel:513000, 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
2565	99	26	0.03	Peak	9.26	9.86	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a yellow highlight indicating the occupied bandwidth. The measurement results are summarized in the bottom section:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
9.2620 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-11.836 kHz
<b>x dB Bandwidth</b>		9.861 MHz

Additional parameters shown in the interface include: Ch Freq 2.565 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log 10 dB/Offst 11.7 dB, Center 2.565 000 GHz, Span 20 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (3333 pts).

Copyright 2000-2012 Agilent Technologies

**3.22. Occupied Bandwidth for SA\_Part22-24-27(Channel:501000, 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
2505	99	26	0.03	Peak	9.28	9.83	10	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 2.505 GHz with a span of 20 MHz. The y-axis is labeled 'Log 10 dB/Offst 11.3 dB'. The plot shows a signal with a flat top and sloped sides, indicating a multi-carrier signal. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen.

**Occupied Bandwidth** 9.2770 MHz

**Occ BW % Pwr** 99.00 %

**x dB** -26.00 dB

**Transmit Freq Error** -14.167 kHz

**x dB Bandwidth** 9.829 MHz

Copyright 2000-2012 Agilent Technologies

**3.23. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, 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
2535	99	26	0.03	Peak	9.27	9.85	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The center frequency is 2.535 GHz, and the span is 20 MHz. The occupied bandwidth is measured as 9.2741 MHz, which is 99.00% of the 9.848 MHz bandwidth. The power level is -26.00 dB. The interface includes various measurement controls and a list of measurement options on the right side.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
9.2741 MHz		x dB	-26.00 dB
Transmit Freq Error		-10.722 kHz	
x dB Bandwidth		9.848 MHz	

Copyright 2000-2012 Agilent Technologies

**3.24. Occupied Bandwidth for SA\_Part22-24-27(Channel:513000, 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
2565	99	26	0.03	Peak	9.27	9.8	10	Pass

Agilent

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

Ch Freq 2.565 GHz
Ext Ref Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.7 dB

Center 2.565 000 GHz Span 20 MHz

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

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
9.2710 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-9.606 kHz	
<b>x dB Bandwidth</b>	9.796 MHz	

Copyright 2000-2012 Agilent Technologies

**3.25. Occupied Bandwidth for SA\_Part22-24-27(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	14.73	15	Pass

Agilent

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

Ch Freq 2.5075 GHz
Ext Ref Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Peak Log 10 dB/Offst 11.3 dB
#Atten 30 dB

Center 2.507 500 GHz
Span 30 MHz

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

**Occupied Bandwidth**

**14.0844 MHz**

Transmit Freq Error -5.432 kHz

x dB Bandwidth 14.732 MHz

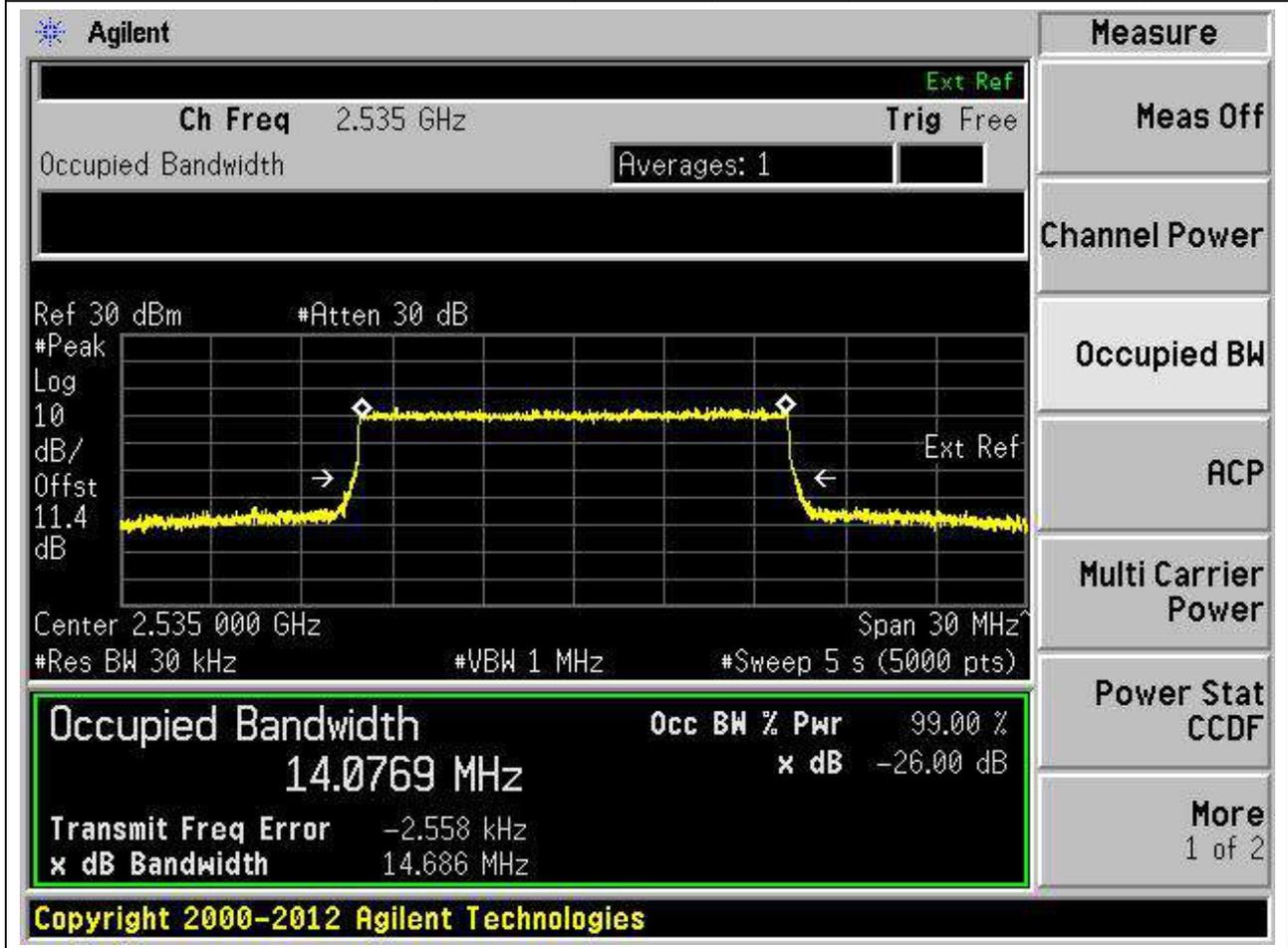
Occ BW % Pwr 99.00 %

x dB -26.00 dB

**Copyright 2000-2012 Agilent Technologies**

**3.26. Occupied Bandwidth for SA\_Part22-24-27(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	14.69	15	Pass



**3.27. Occupied Bandwidth for SA\_Part22-24-27(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	14.08	14.71	15	Pass

Agilent

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

Ch Freq 2.5625 GHz
Ext Ref Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.562 500 GHz 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 %
14.0812 MHz	<b>x dB</b>	-26.00 dB
Transmit Freq Error	-6.217 kHz	
x dB Bandwidth	14.707 MHz	

**Copyright 2000-2012 Agilent Technologies**

**3.28. Occupied Bandwidth for SA\_Part22-24-27(Channel:501500, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	14.07	14.64	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.5075 GHz, and the span is 30 MHz. The occupied bandwidth is highlighted as 14.0697 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 %
14.0697 MHz	x dB	-26.00 dB
Transmit Freq Error		-13.521 kHz
x dB Bandwidth		14.636 MHz

**3.29. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	14.07	14.59	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.535 GHz, and the span is 30 MHz. The occupied bandwidth is highlighted as 14.0687 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -10.255 kHz, and the XdB bandwidth is 14.595 MHz. The interface includes various measurement controls and a list of measurement options on the right side.

Measurement	Value
Occupied Bandwidth	14.0687 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-10.255 kHz
x dB Bandwidth	14.595 MHz

Copyright 2000-2012 Agilent Technologies

**3.30. Occupied Bandwidth for SA\_Part22-24-27(Channel:512500, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	14.63	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

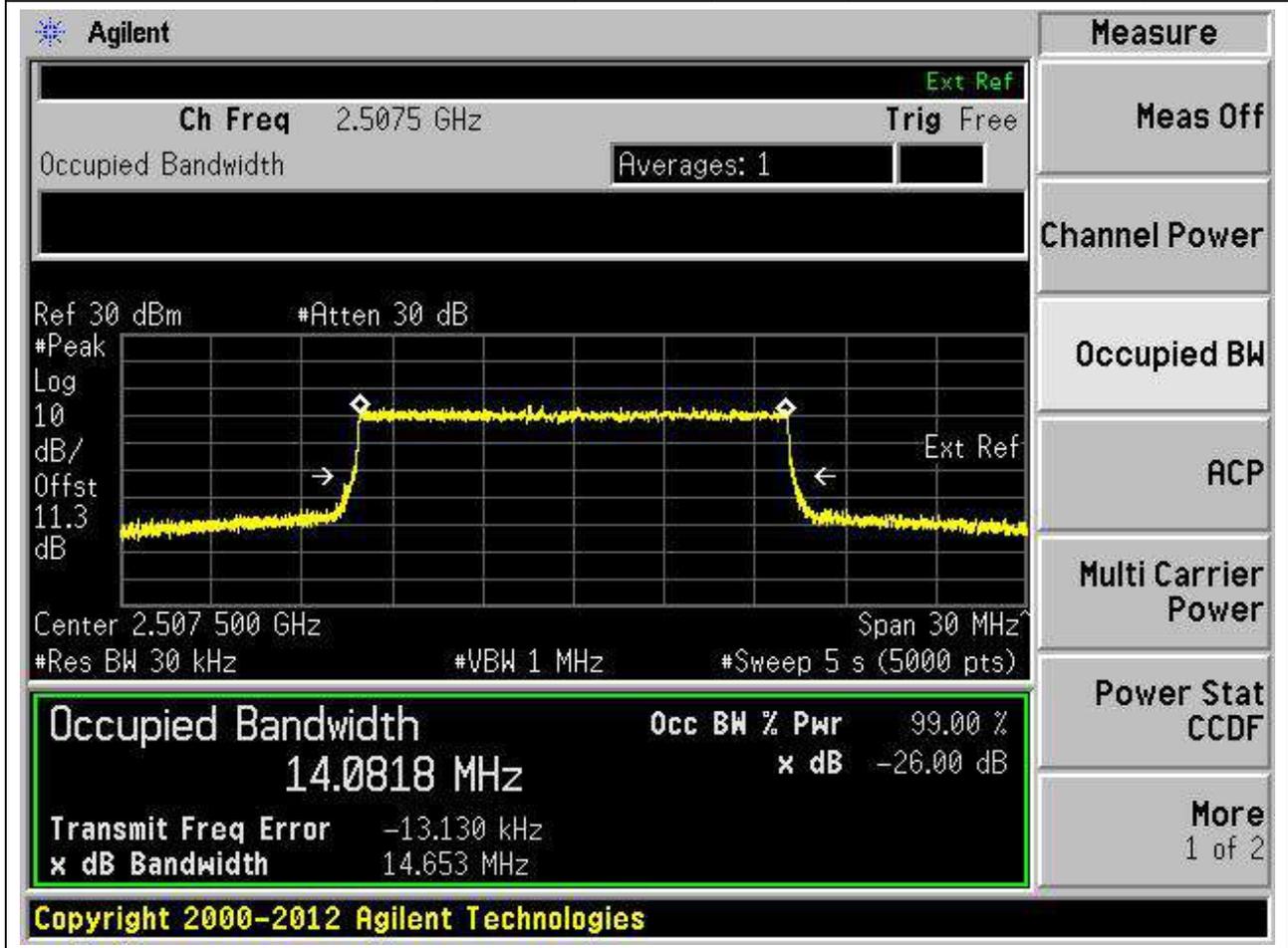
Measurement	Value
Occupied Bandwidth	14.0650 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-14.996 kHz
x dB Bandwidth	14.632 MHz

Additional parameters shown in the interface include: Ch Freq 2.5625 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 11.7 dB, Center 2.562 500 GHz, Span 30 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (5000 pts).

Copyright 2000-2012 Agilent Technologies

**3.31. Occupied Bandwidth for SA\_Part22-24-27(Channel:501500, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	14.65	15	Pass



**3.32. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	14.59	15	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 2.535 GHz with a span of 30 MHz. The vertical axis is labeled 'Log 10 dB/Offst 11.4 dB'. The horizontal axis is labeled 'Center 2.535 000 GHz' and 'Span 30 MHz'. The plot shows a signal with a peak at approximately 2.535 GHz. The signal is bounded by two white diamonds, and the area between them is highlighted in green. The signal level is approximately -26.00 dB. The plot also shows 'Ref 30 dBm' and '#Atten 30 dB'. The plot is labeled 'Ext Ref'.

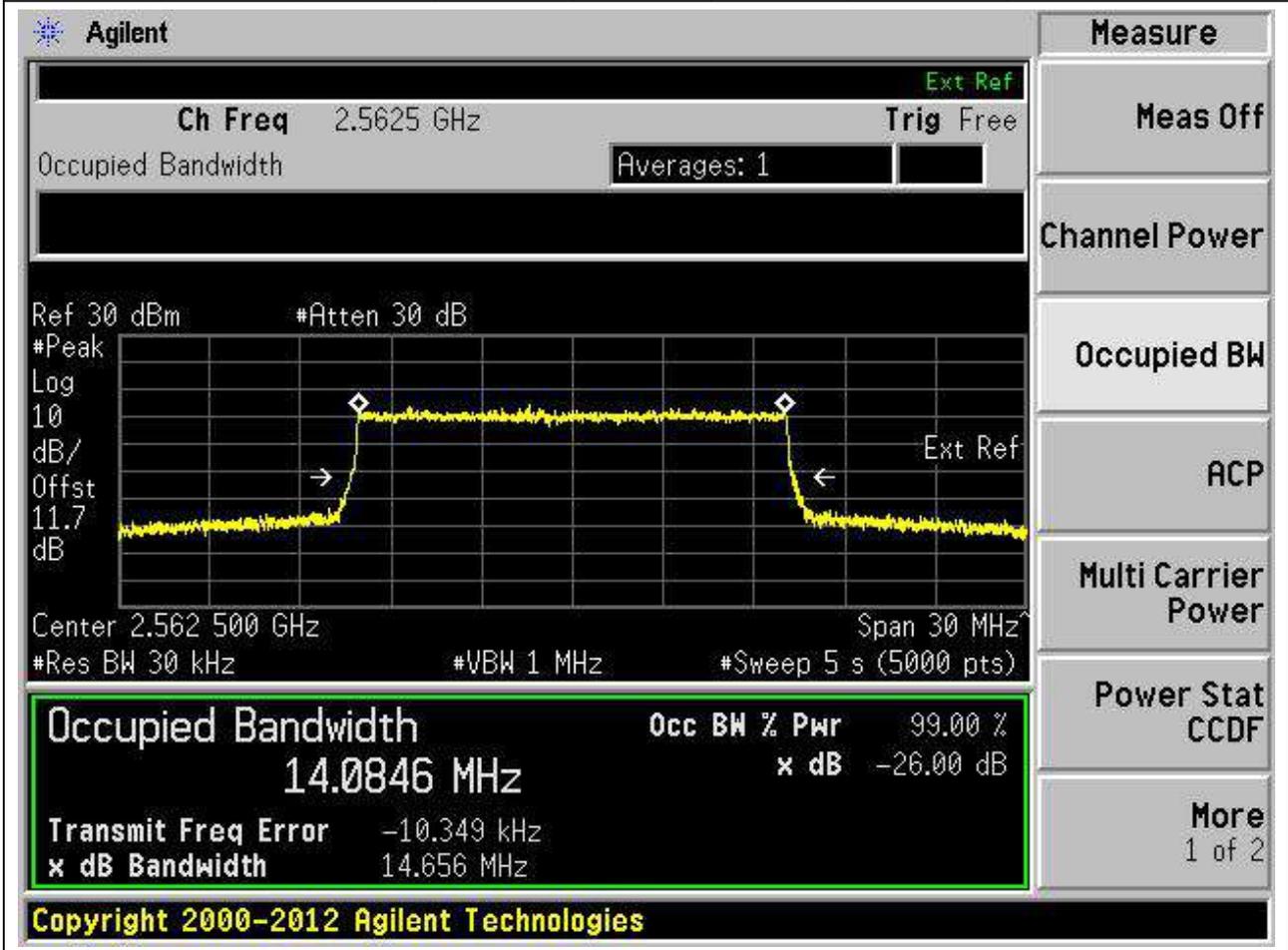
The bottom section of the screen displays the following measurement results:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
14.0834 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-9.032 kHz
<b>x dB Bandwidth</b>		14.589 MHz

The bottom of the screen displays the copyright information: **Copyright 2000-2012 Agilent Technologies**.

**3.33. Occupied Bandwidth for SA\_Part22-24-27(Channel:512500, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	14.08	14.66	15	Pass



**3.34. Occupied Bandwidth for SA\_Part22-24-27(Channel:501500, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	14.07	14.71	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	14.0716 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-10.337 kHz
x dB Bandwidth	14.715 MHz

Other visible parameters include: Ch Freq 2.5075 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 11.3 dB, Center 2.507500 GHz, Span 30 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (5000 pts).

Copyright 2000-2012 Agilent Technologies

**3.35. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	14.07	14.58	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.535 GHz, and the span is 30 MHz. The occupied bandwidth is highlighted as 14.0702 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -6.268 kHz, and the XdB bandwidth is 14.581 MHz. The interface includes various measurement controls and a list of measurement options on the right side.

Measurement	Value
Occupied Bandwidth	14.0702 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-6.268 kHz
x dB Bandwidth	14.581 MHz

Copyright 2000-2012 Agilent Technologies

**3.36. Occupied Bandwidth for SA\_Part22-24-27(Channel:512500, Bandwidth:15, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	14.08	14.72	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.5625 GHz, and the span is 30 MHz. The occupied bandwidth is measured as 14.0811 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -9.121 kHz, and the XdB bandwidth is 14.717 MHz. The interface includes various measurement controls and a list of available measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	14.0811 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-9.121 kHz
x dB Bandwidth	14.717 MHz

**Copyright 2000-2012 Agilent Technologies**

**3.37. Occupied Bandwidth for SA\_Part22-24-27(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	18.9	19.56	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 2.51 GHz and a span of 40 MHz. The vertical axis is labeled 'dB/Offst' with a scale of 10 dB. The horizontal axis is labeled 'MHz' with a scale of 1 MHz. The plot shows a signal with a peak level of approximately 11.3 dB. The 'Occupied Bandwidth' is measured as 18.8960 MHz, which is 99.00% of the 19.559 MHz 'x dB Bandwidth'. The 'XdB Down' is -26.00 dB. The 'Transmit Freq Error' is -9.658 kHz. The 'Power Stat' is CCDF. The 'More' button shows 1 of 2 items.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
18.8960 MHz	x dB	-26.00 dB
Transmit Freq Error		-9.658 kHz
x dB Bandwidth		19.559 MHz

Copyright 2000-2012 Agilent Technologies

**3.38. Occupied Bandwidth for SA\_Part22-24-27(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	18.9	19.58	20	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 2.535 GHz with a span of 40 MHz. The vertical axis is labeled 'dB/Offst' with a reference of 30 dB and an offset of 11.4 dB. The horizontal axis is labeled 'MHz' with a resolution bandwidth of 30 kHz. The plot shows a signal with a peak level of approximately -26 dB. The 'Occupied Bandwidth' is measured as 18.9000 MHz, which is 99.00% of the 19.577 MHz bandwidth. The 'XdB Bandwidth' is 19.58 MHz. The 'Verdict' is 'Pass'.

**Measure**

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

**Copyright 2000-2012 Agilent Technologies**

**3.39. Occupied Bandwidth for SA\_Part22-24-27(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	18.91	19.6	20	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 2.560 000 GHz with a span of 40 MHz. The vertical axis is labeled 'Log 10 dB/Offst 11.6 dB'. The horizontal axis is labeled 'Center 2.560 000 GHz' and 'Span 40 MHz'. The plot shows a signal with a peak at approximately 2.560 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 18.9146 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -6.600 kHz and the 'x dB Bandwidth' is 19.598 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth	Occ BW % Pwr	x dB
18.9146 MHz	99.00 %	-26.00 dB

**3.40. Occupied Bandwidth for SA\_Part22-24-27(Channel:502000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	18.91	19.51	20	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 2.51 GHz with a 40 MHz span. The vertical axis is labeled 'Log 10 dB/Offst 11.3 dB'. The horizontal axis is labeled 'Center 2.510 000 GHz' and 'Span 40 MHz'. The plot shows a signal with a peak level of approximately 11.3 dB. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 18.9081 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -2.195 kHz and the 'x dB Bandwidth' is 19.509 MHz. The 'Averages' are set to 1. The 'Meas Off' button is visible on the right side of the interface.

Occupied Bandwidth	Occ BW % Pwr	x dB
18.9081 MHz	99.00 %	-26.00 dB

Copyright 2000-2012 Agilent Technologies

**3.41. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	18.9	19.49	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow signal trace. The plot is centered at 2.535 GHz with a span of 40 MHz. The signal level is approximately 11.4 dB. The occupied bandwidth is highlighted with a green box and shows a value of 18.9022 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface also shows various measurement parameters such as Res BW (30 kHz), VBW (1 MHz), and Sweep (5 s). A vertical menu on the right side contains measurement options like Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
18.9022 MHz		x dB	-26.00 dB
Transmit Freq Error		-823.924 Hz	
x dB Bandwidth		19.494 MHz	

Copyright 2000-2012 Agilent Technologies

**3.42. Occupied Bandwidth for SA\_Part22-24-27(Channel:512000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	18.9	19.61	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 2.56 GHz and a span of 40 MHz. The vertical axis is labeled 'Log 10 dB/Offst 11.6 dB'. The horizontal axis is labeled 'Center 2.560 000 GHz' and 'Span 40 MHz'. The plot shows a signal with a peak level of approximately -26 dB. The 'Occupied Bandwidth' is measured as 18.9012 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -7.626 kHz and the 'x dB Bandwidth' is 19.606 MHz. The 'Averages' are set to 1. The 'Ref' is 30 dBm and the '#Atten' is 30 dB. The '#Res BW' is 30 kHz, the '#VBW' is 1 MHz, and the '#Sweep' is 5 s (6666 pts). The 'Ext Ref' is 'Free'. The 'Meas Off' button is visible. The 'Channel Power' button is visible. The 'Occupied BW' button is visible. The 'ACP' button is visible. The 'Multi Carrier Power' button is visible. The 'Power Stat CCDF' button is visible. The 'More 1 of 2' button is visible. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth	Occ BW % Pwr	x dB
18.9012 MHz	99.00 %	-26.00 dB

Transmit Freq Error: -7.626 kHz  
x dB Bandwidth: 19.606 MHz

Copyright 2000-2012 Agilent Technologies

**3.43. Occupied Bandwidth for SA\_Part22-24-27(Channel:502000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	18.9	19.46	20	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 2.510 GHz with a span of 40 MHz. The vertical axis is labeled 'Log 10 dB/Offst 11.3 dB'. The horizontal axis is labeled 'Center 2.510 000 GHz' and 'Span 40 MHz'. The plot shows a signal with a bandwidth of approximately 18.9 MHz, bounded by two white diamonds. The signal level is approximately -26.00 dB. The plot is labeled 'Ext Ref'.

Below the plot, the following measurement results are displayed:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>18.8985 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-6.564 kHz
<b>x dB Bandwidth</b>		19.461 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, the copyright notice reads: Copyright 2000-2012 Agilent Technologies.

**3.44. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	18.89	19.46	20	Pass

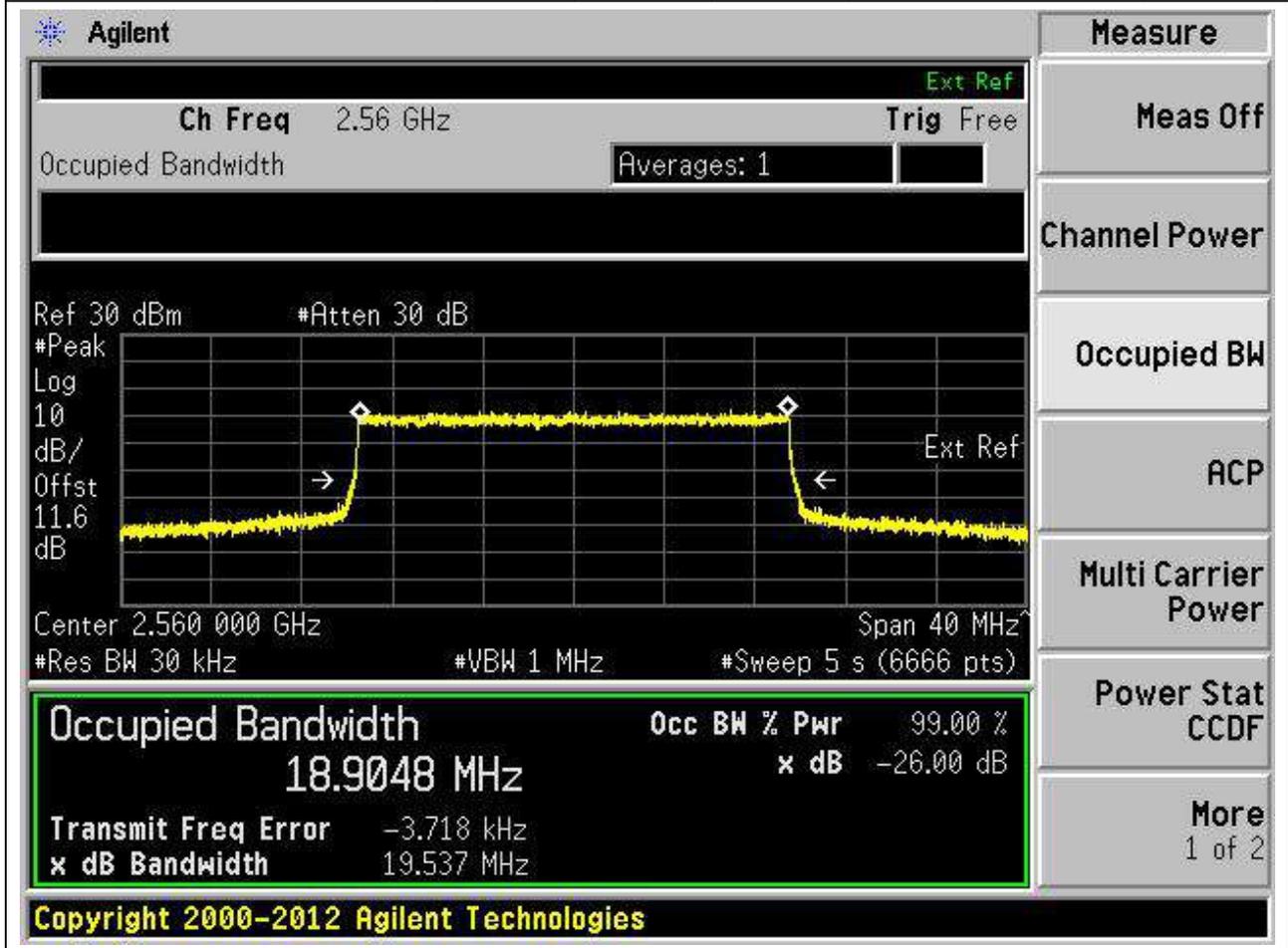
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.535 GHz, and the span is 40 MHz. The occupied bandwidth is highlighted as 18.8905 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface includes various measurement controls and a list of measurement options on the right side.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
18.8905 MHz		x dB	-26.00 dB
Transmit Freq Error	-1.887 kHz		
x dB Bandwidth	19.461 MHz		

Copyright 2000-2012 Agilent Technologies

**3.45. Occupied Bandwidth for SA\_Part22-24-27(Channel:512000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	18.9	19.54	20	Pass



**3.46. Occupied Bandwidth for SA\_Part22-24-27(Channel:502000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	18.91	19.6	20	Pass

Agilent
Measure

Ch Freq 2.51 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
Ext Ref

10

dB/

Offst

11.3

dB

Center 2.510 000 GHz
Span 40 MHz

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

Occupied Bandwidth
Occ BW % Pwr 99.00 %

18.9141 MHz
x dB -26.00 dB

Transmit Freq Error -5.325 kHz

x dB Bandwidth 19.596 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**3.47. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	18.91	19.54	20	Pass

Agilent

Ext Ref

**Ch Freq** 2.535 GHz **Trig** Free

Occupied Bandwidth Averages: 1

**Measure**

Ref 30 dBm #Atten 30 dB

#Peak

Log

10

dB/

Offst

11.4

dB

Ext Ref

Center 2.535 000 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 %
18.9054 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-288.644 Hz
<b>x dB Bandwidth</b>	19.543 MHz

Power Stat CCDF

More

1 of 2

**Copyright 2000-2012 Agilent Technologies**

**3.48. Occupied Bandwidth for SA\_Part22-24-27(Channel:512000, Bandwidth:20, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	18.91	19.54	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	18.9148 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-5.545 kHz
x dB Bandwidth	19.544 MHz

Additional parameters shown in the interface include: Ch Freq 2.56 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst 11.6 dB, Center 2.560 000 GHz, Span 40 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (6666 pts).

Copyright 2000-2012 Agilent Technologies

**3.49. Occupied Bandwidth for SA\_Part22-24-27(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	24.14	26.23	25	Pass

Agilent
Measure

Ch Freq 2.5125 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.512 500 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 %
24.1415 MHz	x dB -26.00 dB
Transmit Freq Error 40.149 kHz	
x dB Bandwidth 26.228 MHz	

**Copyright 2000-2012 Agilent Technologies**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**3.50. Occupied Bandwidth for SA\_Part22-24-27(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	24.12	26.24	25	Pass

Agilent
Measure

Ch Freq 2.535 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.535 000 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 %
24.1211 MHz	<b>x dB</b>	-26.00 dB
Transmit Freq Error	44.177 kHz	
x dB Bandwidth	26.236 MHz	

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**3.51. Occupied Bandwidth for SA\_Part22-24-27(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	24.15	26.22	25	Pass

Agilent
Measure

Ch Freq 2.5575 GHz Trig Free

Occupied Bandwidth Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**Occupied Bandwidth**

24.1485 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 24.214 kHz

x dB Bandwidth 26.224 MHz

Copyright 2000-2012 Agilent Technologies

**3.52. Occupied Bandwidth for SA\_Part22-24-27(Channel:502500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	24.1	26.31	25	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Agilent' and 'Measure' options. The main display area shows a spectrum plot with a yellow trace. The plot is titled 'Occupied Bandwidth' and shows a signal centered at 2.5125 GHz. The plot parameters include: Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 11.3 dB, Center 2.512 500 GHz, Span 50 MHz, #Res BW 1 MHz, #VBW 3 MHz, and #Sweep 5 s (401 pts). The plot shows a signal with a peak at approximately 2.5125 GHz and a bandwidth of 24.1000 MHz. The signal is measured at -26.00 dB. The plot also shows 'Ext Ref' markers and 'Averages: 1'.

Below the plot, the following measurement results are displayed:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>24.1000 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-7.639 kHz
<b>x dB Bandwidth</b>		26.308 MHz

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

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

**3.53. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	24.08	26.22	25	Pass

Agilent
Measure

Ch Freq 2.535 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

**Occupied Bandwidth**

24.0804 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -1.882 kHz

x dB Bandwidth 26.225 MHz

Copyright 2000-2012 Agilent Technologies

**3.54. Occupied Bandwidth for SA\_Part22-24-27(Channel:511500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:16QAM, 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	24.12	26.31	25	Pass

Agilent
Measure

Ch Freq 2.5575 GHz Trig Free

Occupied Bandwidth Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**Occupied Bandwidth**

**24.1154 MHz**

Transmit Freq Error -24.809 kHz

x dB Bandwidth 26.308 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies

**3.55. Occupied Bandwidth for SA\_Part22-24-27(Channel:502500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	24.11	26.36	25	Pass

Agilent
Measure

Ch Freq 2.5125 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.512 500 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 %
24.1077 MHz	x dB -26.00 dB
Transmit Freq Error	-16.049 kHz
x dB Bandwidth	26.364 MHz

**Copyright 2000-2012 Agilent Technologies**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**3.56. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	24.07	26.27	25	Pass

Agilent
Measure

Ch Freq 2.535 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak

Log

10

dB/

Offst

11.4

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 %

**24.0727 MHz** x dB -26.00 dB

Transmit Freq Error -13.588 kHz

x dB Bandwidth 26.269 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**3.57. Occupied Bandwidth for SA\_Part22-24-27(Channel:511500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:64QAM, 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	24.13	26.93	25	Pass

Agilent
Measure

Ch Freq 2.5575 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 2.557 500 GHz Span 50 MHz

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

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

**24.1304 MHz** x dB -26.00 dB

Transmit Freq Error -21.142 kHz

x dB Bandwidth 26.928 MHz

Copyright 2000-2012 Agilent Technologies

**3.58. Occupied Bandwidth for SA\_Part22-24-27(Channel:502500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	24.13	26.24	25	Pass

Agilent
Measure

Ch Freq 2.5125 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.512500 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 %
24.1338 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-39.313 kHz
<b>x dB Bandwidth</b>	26.236 MHz

**Copyright 2000-2012 Agilent Technologies**

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**3.59. Occupied Bandwidth for SA\_Part22-24-27(Channel:507000, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	24.11	26.21	25	Pass

Agilent
Measure

Ch Freq 2.535 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 2.535 000 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 %				
<b>24.1145 MHz</b>	<b>x dB</b>	-26.00 dB				
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left;">Transmit Freq Error</td> <td style="text-align: right;">-36.132 kHz</td> </tr> <tr> <td style="text-align: left;">x dB Bandwidth</td> <td style="text-align: right;">26.211 MHz</td> </tr> </table>			Transmit Freq Error	-36.132 kHz	x dB Bandwidth	26.211 MHz
Transmit Freq Error	-36.132 kHz					
x dB Bandwidth	26.211 MHz					

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

**Copyright 2000-2012 Agilent Technologies**

**3.60. Occupied Bandwidth for SA\_Part22-24-27(Channel:511500, Bandwidth:25, SCS:15, OFDM:CP-OFDM, Modulation:256QAM, 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	24.14	26.23	25	Pass

Agilent
Measure

Ch Freq 2.5575 GHz Trig Free

Occupied Bandwidth Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**Occupied Bandwidth**

**24.1353 MHz**

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -50.515 kHz

x dB Bandwidth 26.232 MHz

Copyright 2000-2012 Agilent Technologies

**3.61. Occupied Bandwidth for SA\_Part22-24-27(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	28.9	31.11	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.515 GHz, and the span is 60 MHz. The occupied bandwidth is highlighted as 28.8966 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 %
28.8966 MHz	x dB	-26.00 dB
Transmit Freq Error		-44.648 kHz
x dB Bandwidth		31.108 MHz

**3.62. Occupied Bandwidth for SA\_Part22-24-27(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	28.86	31.12	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 2.535 GHz and a span of 60 MHz. The y-axis is labeled 'Log 10 dB/Offst 11.4 dB'. The plot shows a signal with a peak at approximately 2.535 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 28.8587 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -43.953 kHz and the 'x dB Bandwidth' is 31.121 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth	Occ BW % Pwr	x dB
28.8587 MHz	99.00 %	-26.00 dB

Copyright 2000-2012 Agilent Technologies

**3.63. Occupied Bandwidth for SA\_Part22-24-27(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	28.9	31.11	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 2.555 GHz. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 28.8995 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -71.271 kHz and the 'x dB Bandwidth' is 31.113 MHz. The interface also shows various settings like 'Ch Freq 2.555 GHz', 'Trig Free', 'Averages: 1', 'Ref 30 dBm', '#Atten 30 dB', 'Center 2.555 00 GHz', 'Span 60 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 5 s (401 pts)'. A vertical menu on the right side contains buttons for 'Measure', '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'.