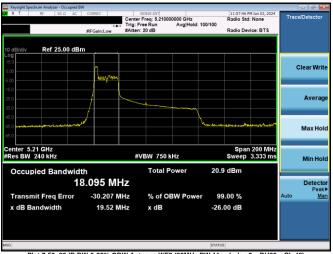




Plot 7-54. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 11ax Index 18 - RU26 - Ch.42)



Plot 7-52, 26dB BW & 99% OBW Antenna WF2 (40MHz BW 11ax - RU484 - Ch.46)



Plot 7-53. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 11ax Index 0 - RU26 - Ch.42)



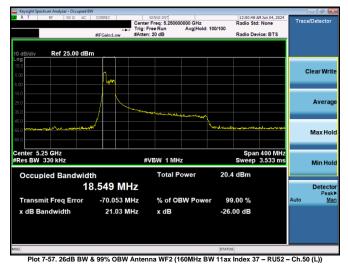




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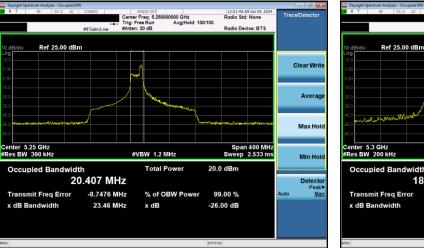
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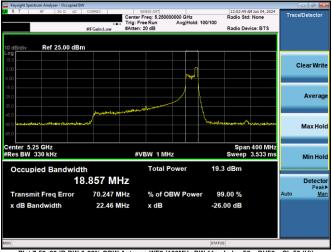


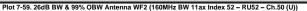


Plot 7-60. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 11ax - RU996x2 - Ch.50)

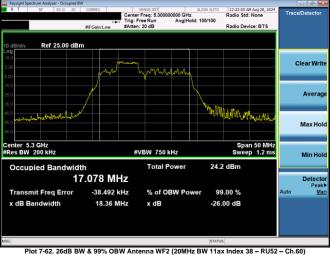


Plot 7-58. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 11ax Index 52 - RU52 - Ch.50 (L))





12:06:51 AM Jun 04, 2024 Radio Std: None Trace/Detecto Center Freq: 5.30000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 20 dB Radio Device: BTS Ref 25.00 dBm Clear Write www. Averad hall Max Hold Span 50 MHz Sweep 1.2 ms #VBW 620 kHz Min Hol Occupied Bandwidth Total Power 25.1 dBm Detecto Peak 18.127 MHz -471.66 kHz % of OBW Power 99.00 % 19.82 MHz x dB -26.00 dB Plot 7-61, 26dB BW & 99% OBW Antenna WF2 (20MHz BW 11ax Index 37 - RU52 - Ch.60)



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Ref 25.00 dBm

Center 5.3 GHz #Res BW 220 kHz

Occupied Bandwidth

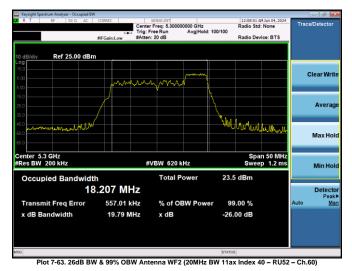
Transmit Freq Error

x dB Bandwidth

19.060 MHz

1.037 kHz

21.17 MHz



Center Freq: 5.30000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 20 dB

12:38:57 AM Aug 28, 202 Radio Std: None

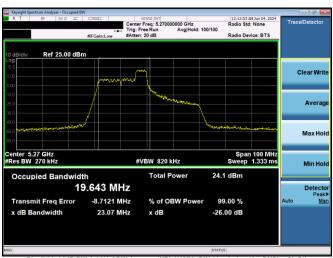
Radio Device: BTS

Span 50 MHz Sweep 1 ms

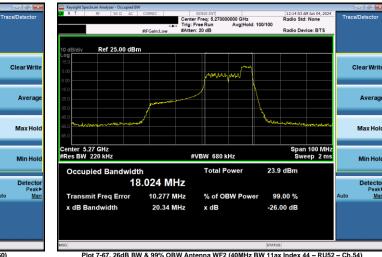
27.9 dBm

99.00 %

-26.00 dB



Plot 7-66, 26dB BW & 99% OBW Antenna WF2 (40MHz BW 11ax Index 40 - RU52 - Ch.54)



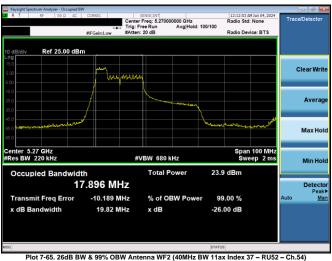
Plot 7-64, 26dB BW & 99% OBW Antenna WF2 (20MHz BW 11ax- RU242 - Ch.60)

#VBW 820 kHz

x dB

Total Power

% of OBW Power



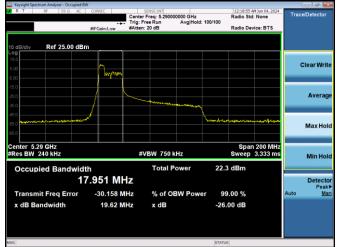


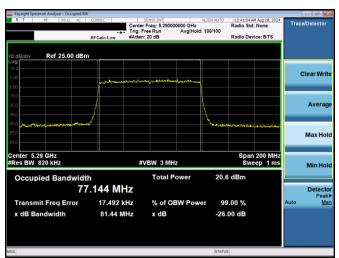
FCC ID: BCGA2993 Approved by: MEASUREMENT REPORT element IC: 579C-A2993 (CERTIFICATION) **Technical Manager** EUT Type: Test Report S/N: Test Dates: Page 34 of 274 1C2405200017-12-R1.BCG 5/20/2024 - 8/28/2024 **Tablet Device** V 10.6 10/27/2023

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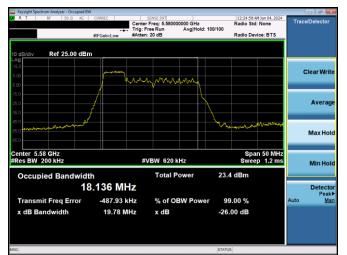
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Plot 7-72. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 11ax - RU996 - Ch.58)



Total Powe

% of OBW Power

#VBW 1.6 MHz

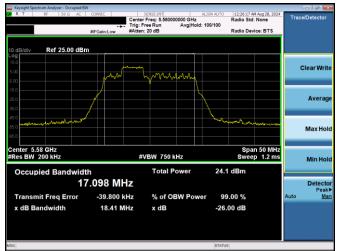
x dB

Plot 7-70. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 11ax Index 44 - RU52 - Ch.58)



Plot 7-71. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 11ax Index 52 - RU52 - Ch.58)

Plot 7-73. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 11ax Index 37 - RU52 - Ch.116)



Plot 7-74. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 11ax Index 38 - RU52 - Ch.116)

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Plot 7-69. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 11ax Index 37 - RU52 - Ch.58)

#IFGain:Lo

20.022 MHz

-9.0029 MHz

22.72 MHz

Ref 25.00 dBm

Center 5.29 GHz #Res BW 390 kHz

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

 SENSE INT]
 ALIGN AUTO
 [12:24:12 AM Aug 28, 2024]

 Center Freq: 5.29000000 GHz
 Radio Stdl: None
 Radio Stdl: None

 Trig: Free Run
 Aug 10, 100/100
 Radio Stdl: None

 Atten: 20 dB
 Aug 10, 100/100
 Radio Stdl: None

Clear Writ

Averag

Max Hold

Min Hol

Detect

Span 200 MHz Sweep 1.267 ms

21.8 dBm

99.00 %

-26.00 dB



Ref 25.00 dBm

Center 5.58 GHz #Res BW 220 kHz

Occupied Bandwidth

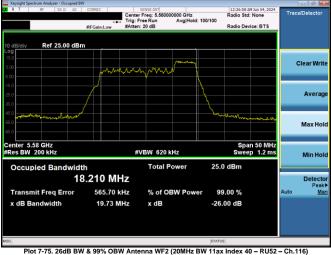
Transmit Freq Error

x dB Bandwidth

19.089 MHz

89.588 kHz

21.17 MHz



Center Freq: 5.58000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 20 dB

01:37:13 AM Jun 04, 2024 Radio Std: None

Span 50 MHz Sweep 1 ms

27.1 dBm

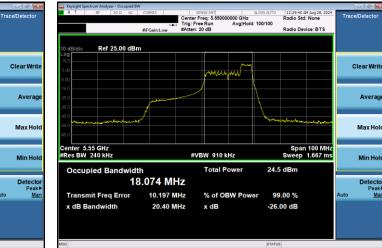
99.00 %

-26.00 dB

Radio Device: BTS



Plot 7-78. 26dB BW & 99% OBW Antenna WF2 (40MHz BW 11ax Index 40 - RU52 - Ch.110)



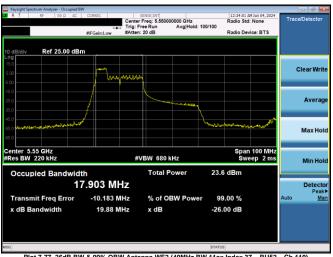
Plot 7-76, 26dB BW & 99% OBW Antenna WF2 (20MHz BW 11ax- RU242 - Ch.116)

#VBW 680 kHz

x dB

Total Power

% of OBW Power



Plot 7-77. 26dB BW & 99% OBW Antenna WF2 (40MHz BW 11ax Index 37 - RU52 - Ch.110)

Plot 7-79, 26dB BW & 99% OBW Antenna WF2 (40MHz BW 11ax Index 44 - RU52 - Ch.110)



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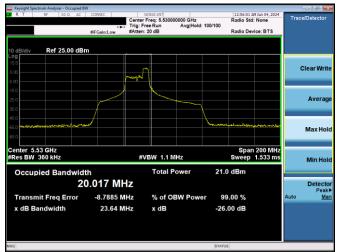
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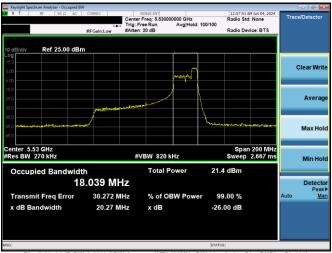




Plot 7-81. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 11ax Index 37 - RU52 - Ch.106)



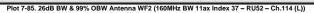
Plot 7-82. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 11ax Index 44 - RU52 - Ch.106)

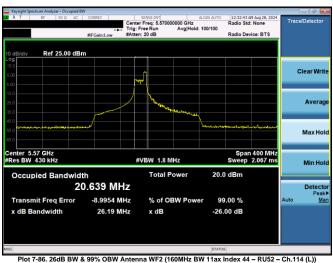


Plot 7-83. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 11ax Index 52 - RU52 - Ch.106)

Plot 7-84. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 11ax - RU996 - Ch.106)







 FCC ID: BCGA2993 IC: 579C-A2993
 Image: Comparison of the comparison of t

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Keysight Spectrum	n Analyzer - Oci					SENSE:INT				01:06:56 0	M Jun 04. 2024	_	
K I	Nr. 30.32	AL	CONNEC		Center	Freq: 5.570	000000 G	Hz		Radio Std		Trac	e/Detector
				-+-	Trig: Fi #Atten:	ree Run	Avg	(Hold:	100/100	Radio Dev	In DTC		
			#IFGain:L	ow	#Atten:	20 08				Radio Dev	ICE: BIS		
I0 dB/div	Ref 25.0	0 dBm						<u> </u>					
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5.00													Clear Writ
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5.0													Wax nu
Center 5.57											400 MHz		
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0						Tetal	Powe		4.0	2 dBm			
Occupie	a Bana					rotar	Fowe		10.	z ubili			
		18	.775	MH	Z								Detecto
T			70.0	13 M		0/ -5/	OBW F			9.00 %		Auto	Peak Ma
Transmit		or				% OT 0		OWe	er e	9.00 %		Auto	IVIA
x dB Ban	dwidth		22.	13 M	Hz	x dB			-26	.00 dB			
ig.									STAT	21			_
								_			- RU52 -		

Plot 7-87. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 11ax Index 52 - RU52 - Ch.114 (U))

	Center		z old: 100/100	01:48:18 A Radio Std Radio Dev		Trace/Detector
0 dB/div Ref 25.00 dBm						
5.00						Clear Writ
15 0 15 0 15 0 15 0 16 0						Averag
50					4y1	Max Hol
enter 5.57 GHz Res BW 1.6 MHz	#V	/BW 5 MHz			400 MHz ep 1 ms	Min Ho
Occupied Bandwidth	6.22 MHz	Total Power	17.	4 dBm		Detecte
Transmit Freq Error x dB Bandwidth	515.84 kHz 166.0 MHz	% of OBW Po x dB		9.00 % .00 dB		Peak Auto <u>Ma</u>
G			STATU	IS		

Plot 7-88. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 11ax - RU996x2 - Ch.114)

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7.3 6dB & 99% Bandwidth Measurement

§2.1049; §15.407 (e); RSS-Gen [6.7]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

In the 5.725 – 5.850GHz band, the 6dB bandwidth must be \geq 500 kHz.

Test Procedure Used

ANSI C63.10-2020 – Section 12.5.1 KDB 789033 D02 v02r01 – Section C

Test Settings

- The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 100 kHz
- 3. VBW <u>></u> 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

- 1. All antenna configurations were investigated and only the worst case is reported
- 2. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's were reported.
- 3. Low, mid, and high channels were tested and tabular data has been reported. Only mid channel bandwidth plots have been reported.

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7.3.1 Antenna WF5T 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
				26	0	12.5/14.7 (MCS11)	18.10	2.10	0.50	Pass
	5745	149	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.03	2.71	0.50	Pass
				26	8	12.5/14.7 (MCS11)	18.18	2.10	0.50	Pass
				26	0	12.5/14.7 (MCS11)	18.10	2.09	0.50	Pass
	5785	157	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.05	2.70	0.50	Pass
				26	8	12.5/14.7 (MCS11)	18.20	2.10	0.50	Pass
			ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.14	2.10	0.50	Pass
	5825	165		26	4	12.5/14.7 (MCS11)	17.05	2.70	0.50	Pass
ğ				26	8	12.5/14.7 (MCS11)	18.18	2.13	0.50	Pass
Band				26	0	12.5/14.7 (MCS11)	17.80	2.16	0.50	Pass
	5755	151	ax (40MHz)	26	8	12.5/14.7 (MCS11)	18.87	2.14	0.50	Pass
				26	17	12.5/14.7 (MCS11)	17.96	2.16	0.50	Pass
				26	0	12.5/14.7 (MCS11)	17.85	2.16	0.50	Pass
	5795	159	ax (40MHz)	26	8	12.5/14.7 (MCS11)	18.84	2.14	0.50	Pass
				26	17	12.5/14.7 (MCS11)	17.96	2.14	0.50	Pass
				26	0	12.5/14.7 (MCS11)	17.78	2.24	0.50	Pass
	5775	5 155 ax (8	ax (80MHz)	26	18	12.5/14.7 (MCS11)	36.73	2.90	0.50	Pass
				26	36	12.5/14.7 (MCS11)	17.94	2.21	0.50	Pass

Table 7-8. Conducted Bandwidth Measurements Antenna WF5T (RU26)

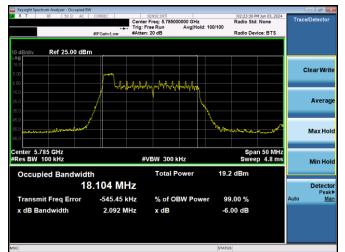
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
	5745	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.96	19.13	0.50	Pass
~	5785	157	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.97	19.13	0.50	Pass
pu	5825	165	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.96	19.12	0.50	Pass
Bar	5755	151	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.84	38.24	0.50	Pass
	5795	159	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.83	38.26	0.50	Pass
	5775	155	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.01	78.02	0.50	Pass

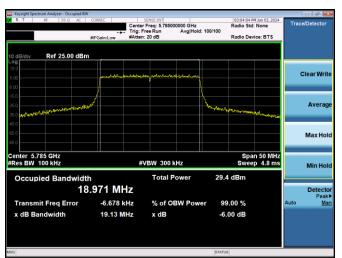
Table 7-9. Conducted Bandwidth Measurements Antenna WF5T (Fully- loaded RU)

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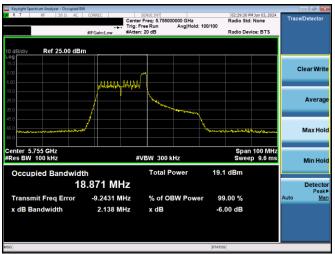




Plot 7-92. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 11ax - RU242 - Ch.157)



Plot 7-93. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 11ax Index 0 - RU26 - Ch.151)

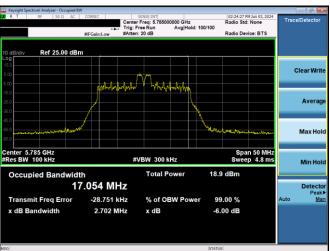


Plot 7-94. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 11ax Index 8 - RU26 - Ch.151)

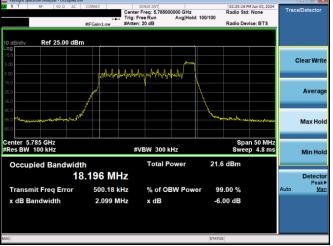
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Plot 7-89, 6dB BW & 99% OBW Antenna WF5T (20MHz BW 11ax Index 0 - RU26 - Ch.157)

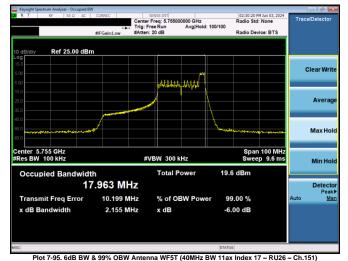


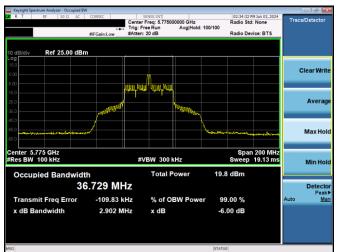
Plot 7-90. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 11ax Index 4 - RU26 - Ch.157)



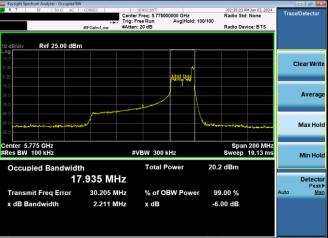
Plot 7-91. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 11ax Index 8 - RU26 - Ch.157)







Plot 7-98. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 11ax Index 18 - RU26 - Ch.155)





Plot 7-96. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 11ax - RU484 - Ch.151)



Plot 7-97. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 11ax Index 0 - RU26 - Ch.155)

Plot 7-99. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 11ax Index 36 - RU26 - Ch.155)



Plot 7-100. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 11ax - RU996 - Ch.155

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dama 40 af 074	
1C2405200017-12-R1.BCG	5/20/2024 - 8/28/2024	Tablet Device	Page 42 of 274	
			V 10.6 10/27/2023	

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7.3.2 Antenna WF2 6dB & 99% Bandwidth Measurements

		Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
					26	0	12.5/14.7 (MCS11)	18.11	2.09	0.50	Pass
		5745	149	ax (20MHz)	26	4	12.5/14.7 (MCS11)	16.98	2.68	0.50	Pass
					26	8	12.5/14.7 (MCS11)	18.20	2.11	0.50	Pass
	5785 157 5825 165		ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.11	2.07	0.50	Pass	
		157		26	4	12.5/14.7 (MCS11)	17.06	2.72	0.50	Pass	
					26	8	12.5/14.7 (MCS11)	18.15	2.12	0.50	Pass
		5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.13	2.12	0.50	Pass
					26	4	12.5/14.7 (MCS11)	17.03	2.70	0.50	Pass
					26	8	12.5/14.7 (MCS11)	18.19	2.11	0.50	Pass
			151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.81	2.15	0.50	Pass
	_	5755			26	8	12.5/14.7 (MCS11)	18.90	2.15	0.50	Pass
					26	17	12.5/14.7 (MCS11)	17.96	2.14	0.50	Pass
					26	0	12.5/14.7 (MCS11)	17.84	2.16	0.50	Pass
	5795	159	ax (40MHz)	26	8	12.5/14.7 (MCS11)	18.83	2.13	0.50	Pass	
					26	17	12.5/14.7 (MCS11)	17.98	2.15	0.50	Pass Pass Pass Pass Pass Pass Pass Pass
		5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	17.81	2.25	0.50	Pass
					26	18	12.5/14.7 (MCS11)	36.71	2.89	0.50	Pass
					26	36	12.5/14.7 (MCS11)	17.93	2.27	0.50	Pass

Table 7-10. Conducted Bandwidth Measurements Antenna WF2 (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
	5745	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.98	19.13	0.50	Pass
	5785	157	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.98	19.12	0.50	Pass
рс С	5825	165	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.96	19.10	0.50	Pass
Bar	5755	151	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.86	38.26	0.50	Pass
	5795	159	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.87	38.24	0.50	Pass
	5775	155	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.00	77.97	0.50	Pass

Table 7-11. Conducted Bandwidth Measurements Antenna WF2 (Fully-loaded RU)

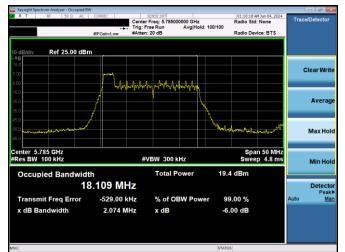
FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 43 of 274	
1C2405200017-12-R1.BCG	5/20/2024 - 8/28/2024	Tablet Device		
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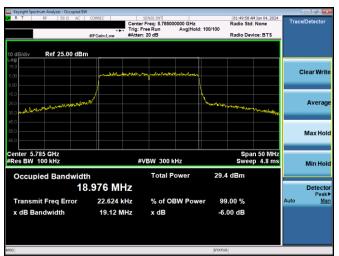
V 10.6 10/27/20 Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Keys

Ref 25.00 dBm

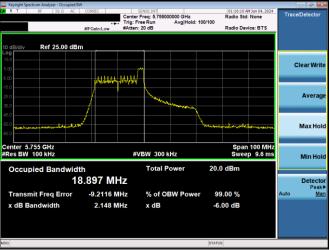




Plot 7-104, 6dB BW & 99% OBW Antenna WF2 (20MHz BW 11ax - RU242 - Ch.157)



Plot 7-105. 6dB BW & 99% OBW Antenna WF2 (40MHz BW 11ax Index 0 - RU26 - Ch.151)



Plot 7-106. 6dB BW & 99% OBW Antenna WF2 (40MHz BW 11ax Index 8 - RU26 - Ch.151)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 44 of 274	
1C2405200017-12-R1.BCG	5/20/2024 - 8/28/2024	Tablet Device		
1	•		V 10.6 10/27/2023	

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Plot 7-101, 6dB BW & 99% OBW Antenna WF2 (20MHz BW 11ax Index 0 - RU26 - Ch.157)

SENSE:INT| Center Freq: 5.785000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 20 dB

Laborer White

01:11:08 AM Jun 04, 2024 Radio Std: None

Radio Device: BTS

Frace/Detecto

Clear Writ

Averag

Max Hol

Center 5.785 GHz #Res BW 100 kHz Span 50 MHz Sweep 4.8 ms #VBW 300 kHz Min Hole Occupied Bandwidth Total Power 19.3 dBm 17.060 MHz Detect Peak -16.536 kHz % of OBW Power 99.00 % Transmit Freq Error Ma 2.717 MHz x dB Bandwidth -6.00 dB x dB Plot 7-102. 6dB BW & 99% OBW Antenna WF2 (20MHz BW 11ax Index 4 - RU26 - Ch.157) 01:11:59 AM Jun 04, 20 Radio Std: None SENSE:INT Center Freq: 6.785000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 20 dB #IFGain:Lov Radio Device: BTS Ref 25.00 dBm Clear Writ And -

Averag Max Hol Center 5.785 GHz #Res BW 100 kHz Span 50 MHz Sweep 4.8 ms #VBW 300 kHz Min Hole Total Power 21.8 dBm Occupied Bandwidth 18.154 MHz Detecto Peak Transmit Freq Error 523.20 kHz % of OBW Power 99.00 % Ma 2.115 MHz x dB Bandwidth -6.00 dB x dB

Plot 7-103. 6dB BW & 99% OBW Antenna WF2 (20MHz BW 11ax Index 8 - RU26 - Ch.157)