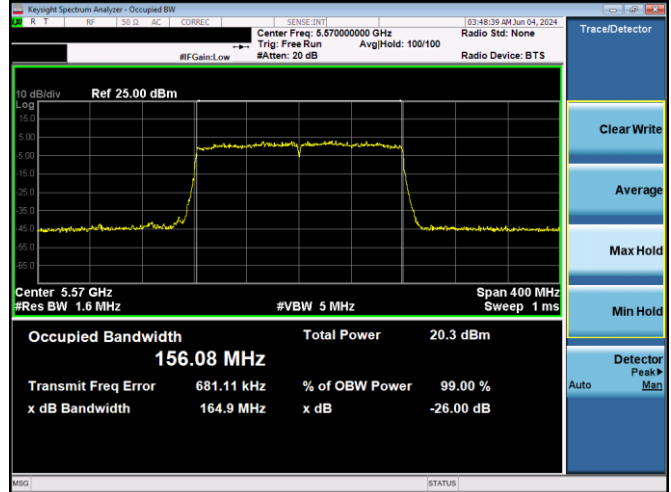


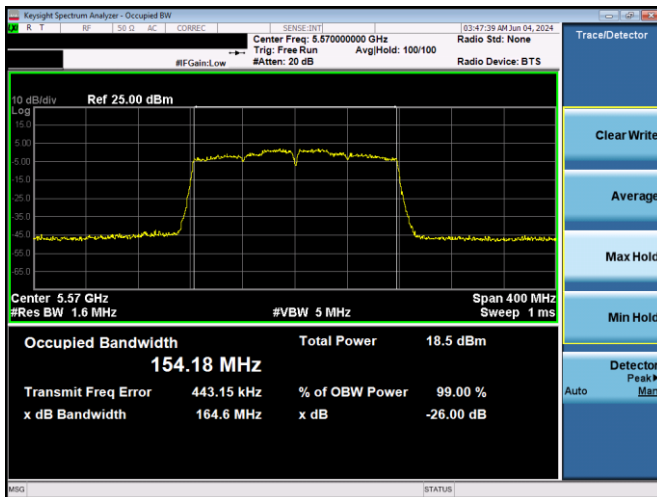
Plot 7-107. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ac – Ch. 122, MCS4)



Plot 7-110. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ax – Ch. 114, MCS4)



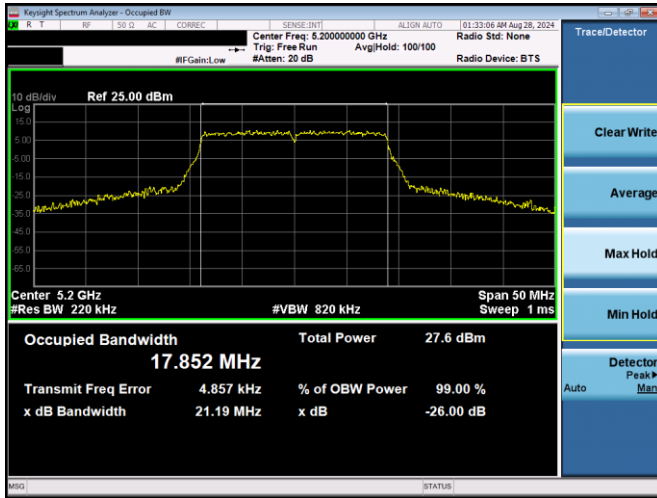
Plot 7-108. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ax(SU) – Ch. 122, MCS4)



Plot 7-109. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ac – Ch. 114, MCS4)

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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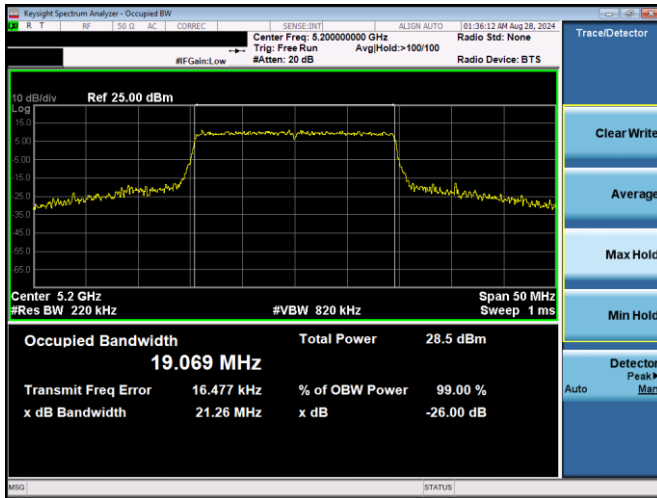
# High Data Rate



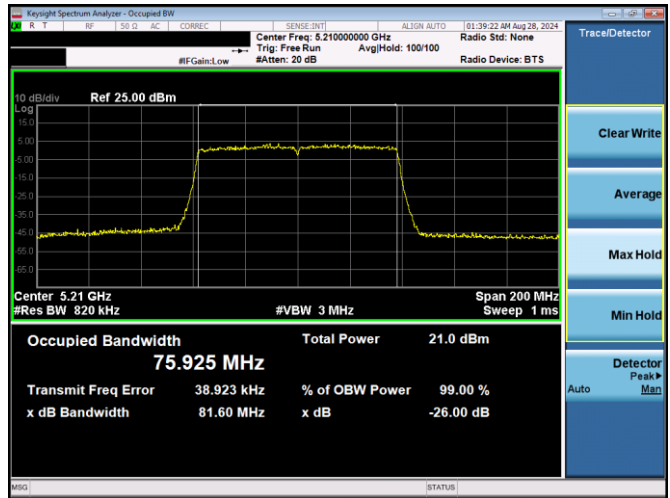
Plot 7-111. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11n – Ch. 40, MCS7)



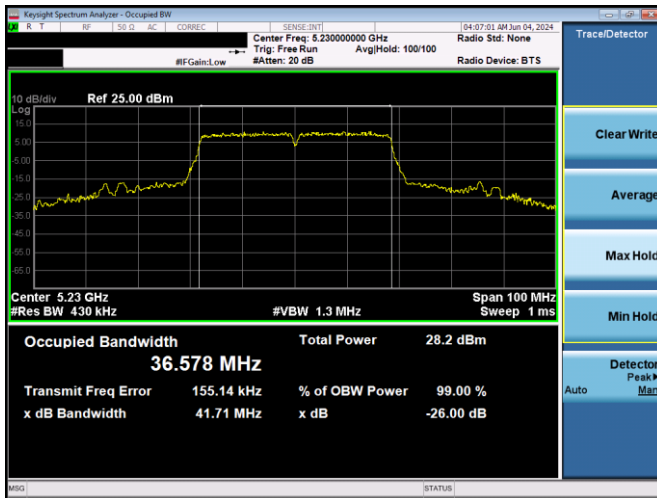
Plot 7-114. 26dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11ax(SU) – Ch. 46, MCS11)



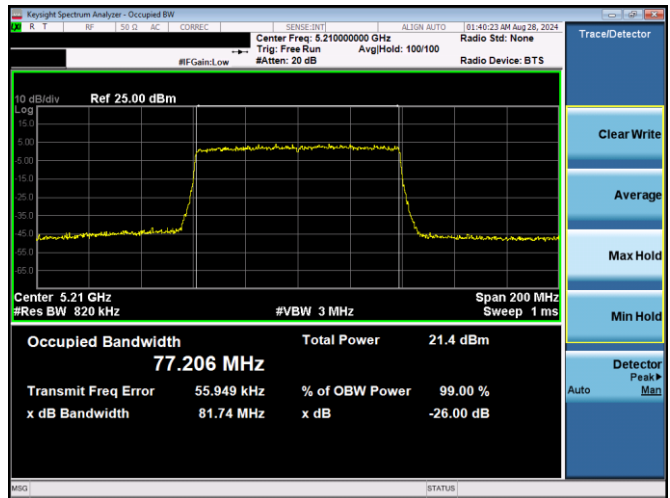
Plot 7-112. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11ax(SU) – Ch. 40, MCS11)



Plot 7-115. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ac – Ch. 42, MCS9)

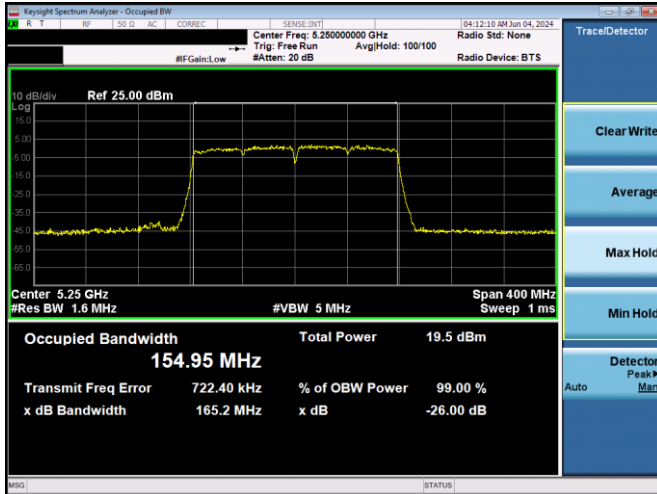


Plot 7-113. 26dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11n – Ch. 46, MCS7)

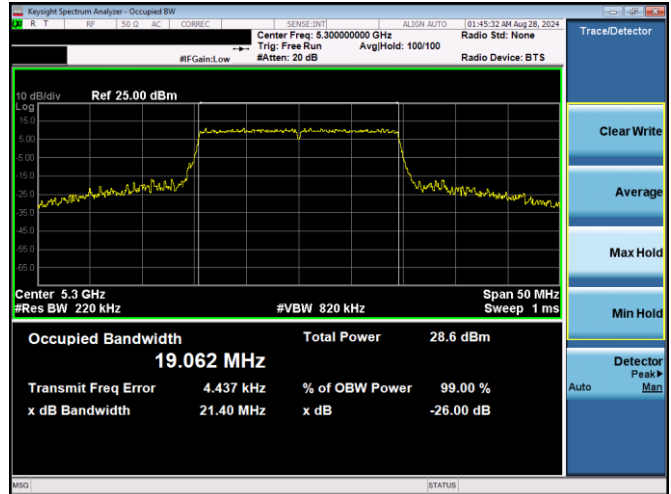


Plot 7-116. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ax(SU) – Ch. 42, MCS11)

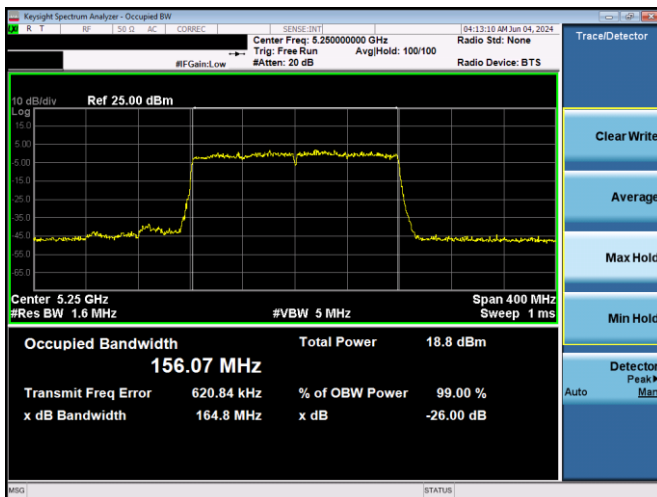
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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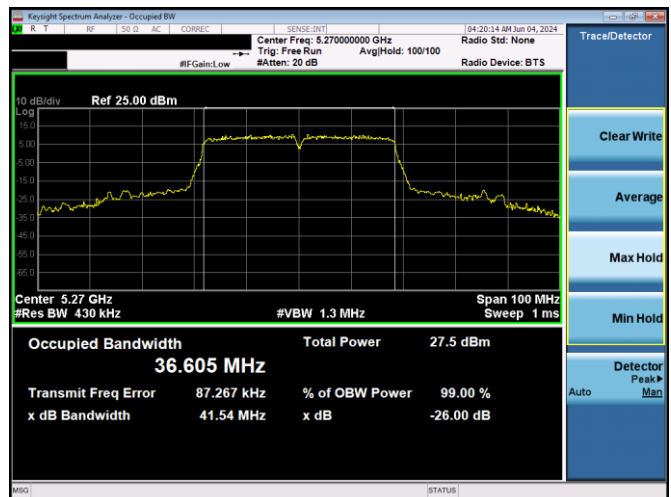
Plot 7-117. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ac – Ch. 50, MCS9)



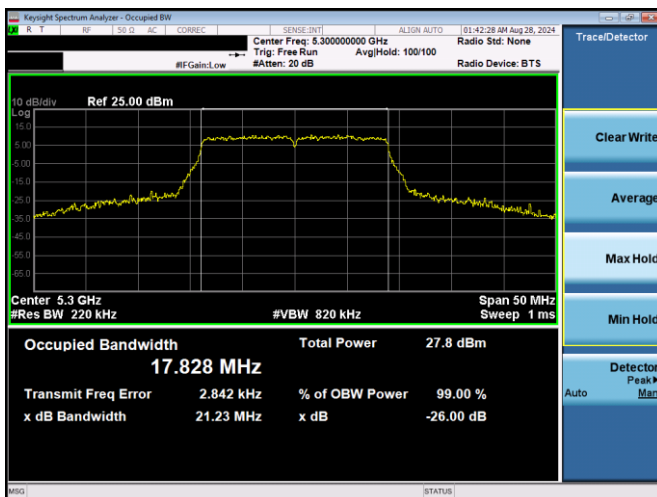
Plot 7-120. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11ax(SU) – Ch. 60, MCS11)



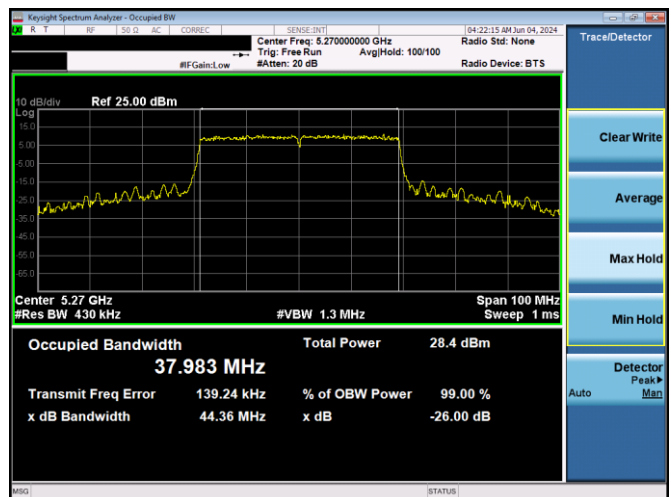
Plot 7-118. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ac – Ch. 50, MCS11)



Plot 7-121. 26dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11n – Ch. 54, MCS7)

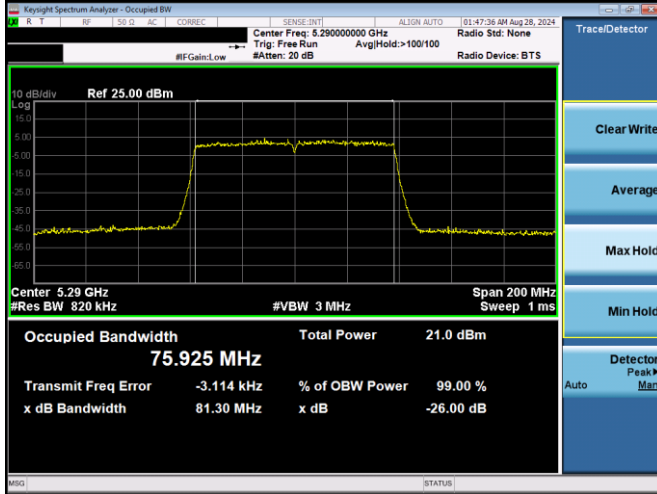


Plot 7-119. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11n – Ch. 60, MCS7)



Plot 7-122. 26dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11ax(SU) – Ch. 54, MCS11)

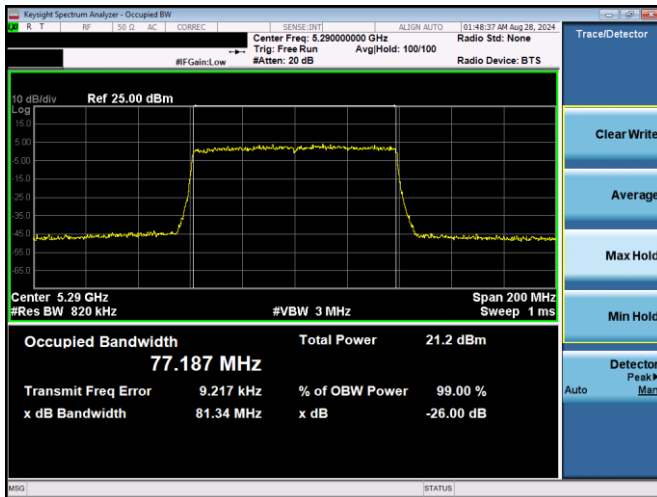
FCC ID: BCGA2993 IC: 579C-A2993		<b>MEASUREMENT REPORT</b> (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-11.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 47 of 380



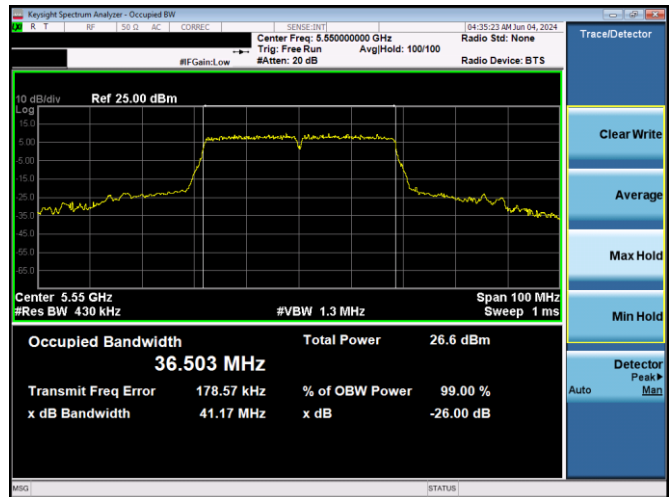
Plot 7-123. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ac – Ch. 58, MCS9)



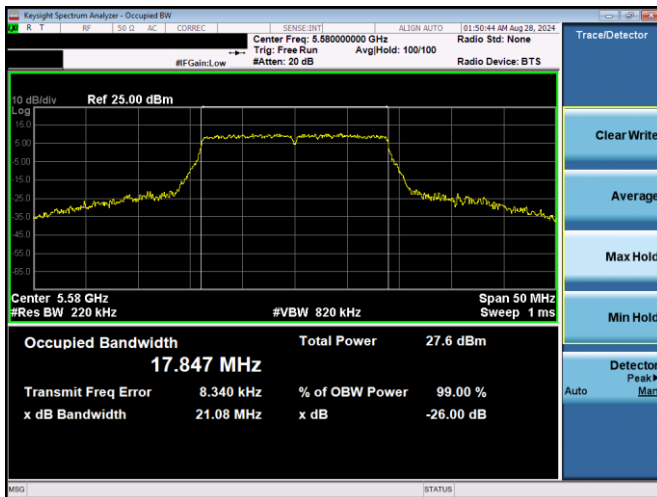
Plot 7-126. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11ax(SU) – Ch. 116, MCS11)



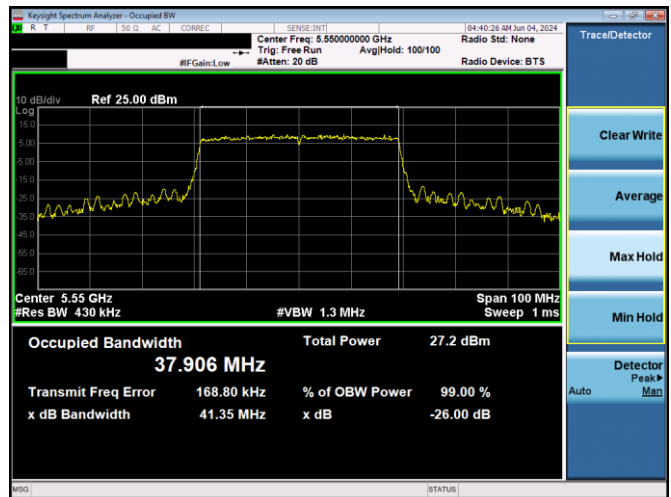
Plot 7-124. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ax(SU) – Ch. 58, MCS11)



Plot 7-127. 26dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11n – Ch. 110) , MCS7)

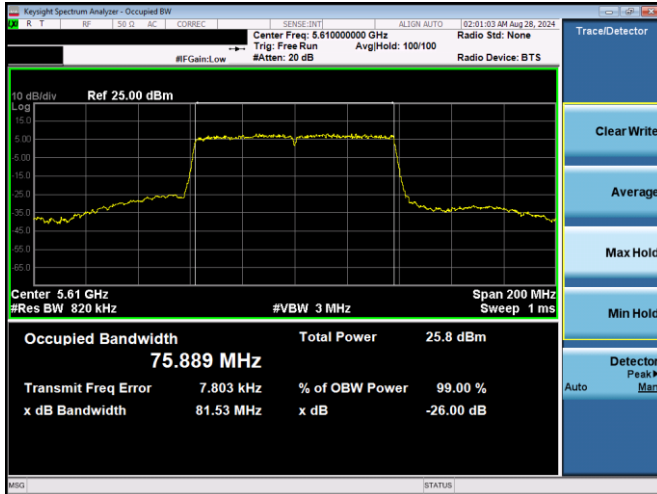


Plot 7-125. 26dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11n – Ch. 116, MCS7)

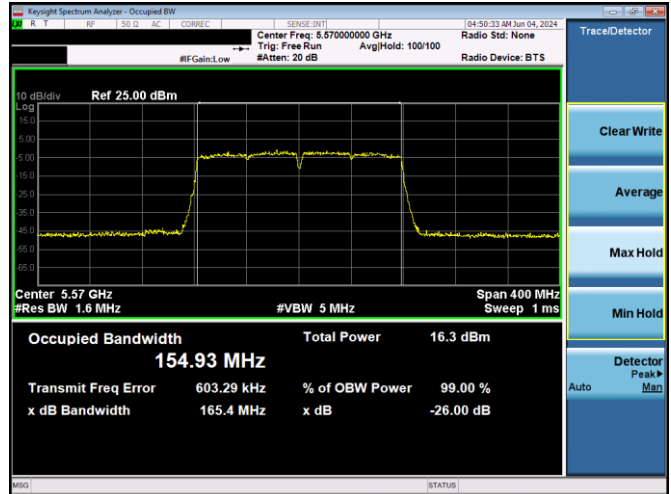


Plot 7-128. 26dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11ax(SU) – Ch. 110, MCS11)

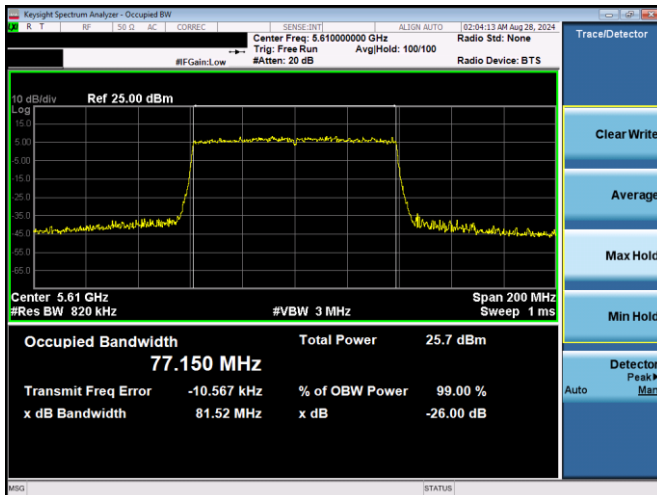
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-11.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 48 of 380



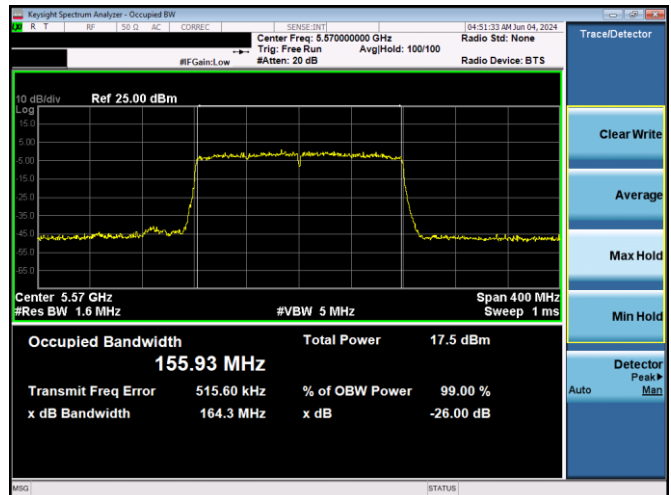
Plot 7-129. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ac – Ch. 122, MCS9)



Plot 7-131. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ac – Ch. 114, MCS9)



Plot 7-130. 26dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ax(SU) – Ch. 122, MCS11)



Plot 7-132. 26dB BW & 99% OBW Antenna WF2 (160MHz BW 802.11ax(SU) – Ch. 114, MCS11)

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-11.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 49 of 380

### 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

1. 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  $\geq 3 \times$  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 and data rates were investigated and only the worst case are reported.
2. The data rates have been classified into three different groups; Low Data Rate, middle rate, and High Data Rate. All three data rate groups of data rate have been investigated and only the worst case data rate per group is 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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V 10.6 10/27/2023

### 7.3.1 WF5T 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	19.5/21.7 (MCS2)	17.62	17.58	0.50	Pass
	5785	157	n (20MHz)	19.5/21.7 (MCS2)	17.63	17.11	0.50	Pass
	5825	165	n (20MHz)	19.5/21.7 (MCS2)	17.61	17.29	0.50	Pass
	5745	149	ax (SU) (20MHz)	24/25.8 (MCS2)	18.95	19.09	0.50	Pass
	5785	157	ax (SU) (20MHz)	24/25.8 (MCS2)	18.97	19.09	0.50	Pass
	5825	165	ax (SU) (20MHz)	24/25.8 (MCS2)	18.94	19.09	0.50	Pass
	5755	151	n (40MHz)	40/40.5 (MCS2)	36.01	36.06	0.50	Pass
	5795	159	n (40MHz)	40/40.5 (MCS2)	36.02	35.80	0.50	Pass
	5755	151	ax (SU) (40MHz)	49/51.6 (MCS2)	37.84	38.22	0.50	Pass
	5795	159	ax (SU) (40MHz)	49/51.6 (MCS2)	37.82	38.20	0.50	Pass
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	75.32	75.58	0.50	Pass
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	77.02	77.94	0.50	Pass

Table 7-8. Conducted Bandwidth Measurements Antenna WF5T (Low Data Rate)

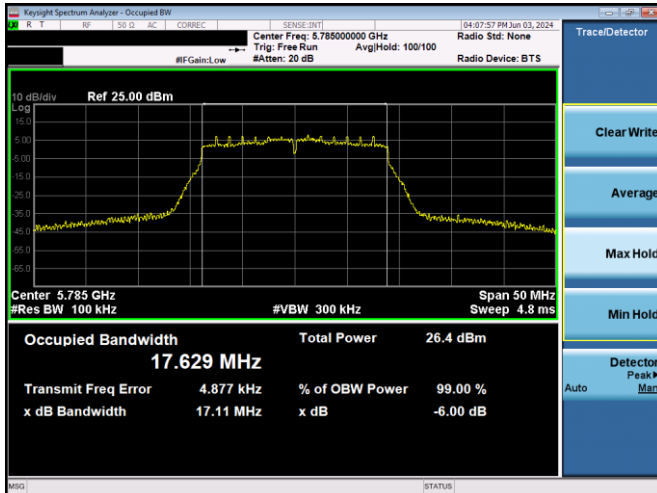
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	39/43.3 (MCS4)	17.63	17.71	0.50	Pass
	5785	157	n (20MHz)	39/43.3 (MCS4)	17.63	17.72	0.50	Pass
	5825	165	n (20MHz)	39/43.3 (MCS4)	17.63	17.71	0.50	Pass
	5745	149	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.13	0.50	Pass
	5785	157	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.11	0.50	Pass
	5825	165	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.10	0.50	Pass
	5755	151	n (40MHz)	81/90 (MCS4)	36.06	36.44	0.50	Pass
	5795	159	n (40MHz)	81/90 (MCS4)	36.11	36.46	0.50	Pass
	5755	151	ax (SU) (40MHz)	98/103.2 (MCS4)	37.81	38.20	0.50	Pass
	5795	159	ax (SU) (40MHz)	98/103.2 (MCS4)	37.83	38.23	0.50	Pass
	5775	155	ac (80MHz)	175.5/195 (MCS4)	75.34	76.17	0.50	Pass
	5775	155	ax (SU) (80MHz)	204/216.2 (MCS4)	77.09	78.11	0.50	Pass

Table 7-9. Conducted Bandwidth Measurements Antenna WF5T (Mid Data Rate)

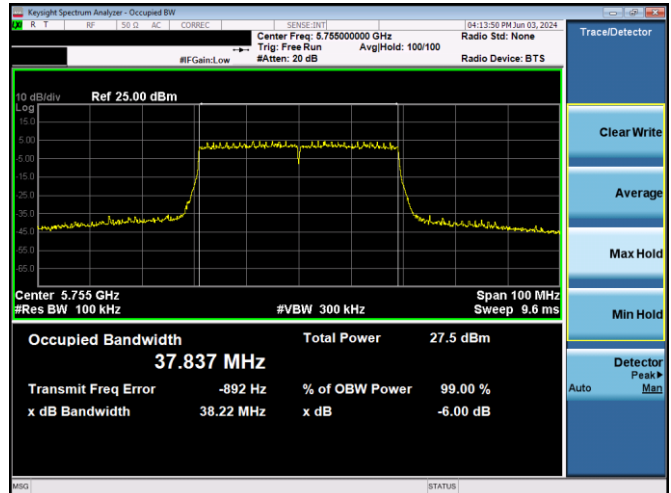
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	65/72.2 (MCS7)	17.70	17.78	0.50	Pass
	5785	157	n (20MHz)	65/72.2 (MCS7)	17.71	17.78	0.50	Pass
	5825	165	n (20MHz)	65/72.2 (MCS7)	17.70	17.77	0.50	Pass
	5745	149	ax (SU) (20MHz)	135/143.4 (MCS11)	18.98	19.13	0.50	Pass
	5785	157	ax (SU) (20MHz)	135/143.4 (MCS11)	18.98	19.13	0.50	Pass
	5825	165	ax (SU) (20MHz)	135/143.4 (MCS11)	18.99	19.13	0.50	Pass
	5755	151	n (40MHz)	135/150 (MCS7)	36.27	36.57	0.50	Pass
	5795	159	n (40MHz)	135/150 (MCS7)	36.27	36.57	0.50	Pass
	5755	151	ax (SU) (40MHz)	271/286 (MCS11)	37.84	38.24	0.50	Pass
	5795	159	ax (SU) (40MHz)	271/286 (MCS11)	37.83	38.24	0.50	Pass
	5775	155	ac (80MHz)	390/433.3 (MCS9)	75.67	76.56	0.50	Pass
	5775	155	ax (SU) (80MHz)	567/600.5 (MCS11)	77.05	78.00	0.50	Pass

Table 7-10. Conducted Bandwidth Measurements Antenna WF5T (High Data Rate)

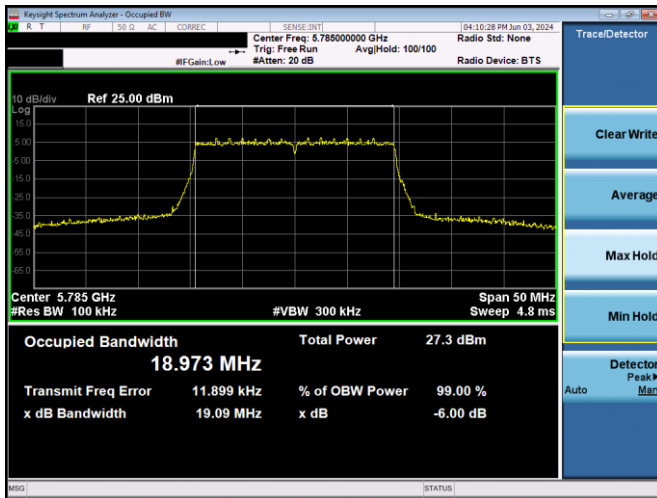
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-11.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 51 of 380



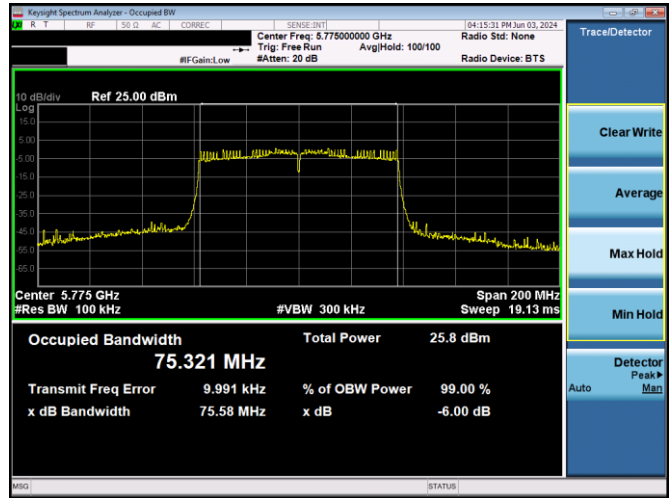
Plot 7-133. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11n – Ch. 157, MCS2)



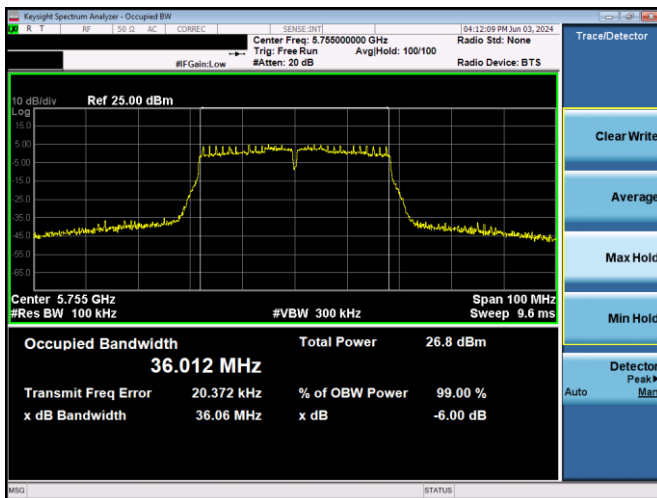
Plot 7-136. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 802.11ax(SU) – Ch. 151, MCS2)



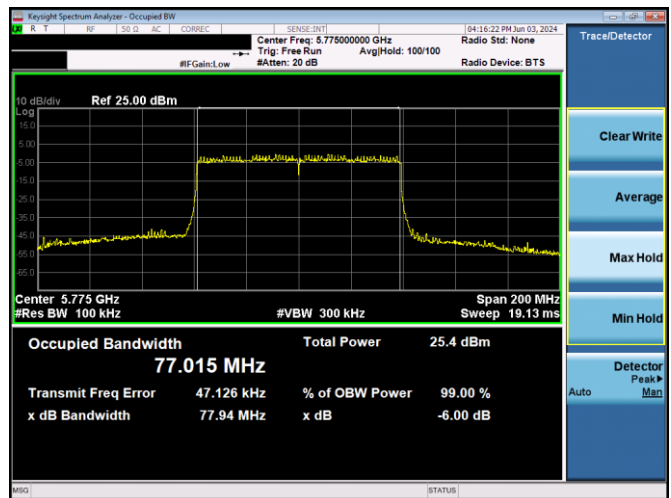
Plot 7-134. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11ax(SU) – Ch. 157, MCS2)



Plot 7-137. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 802.11ac – Ch. 155, MCS2)



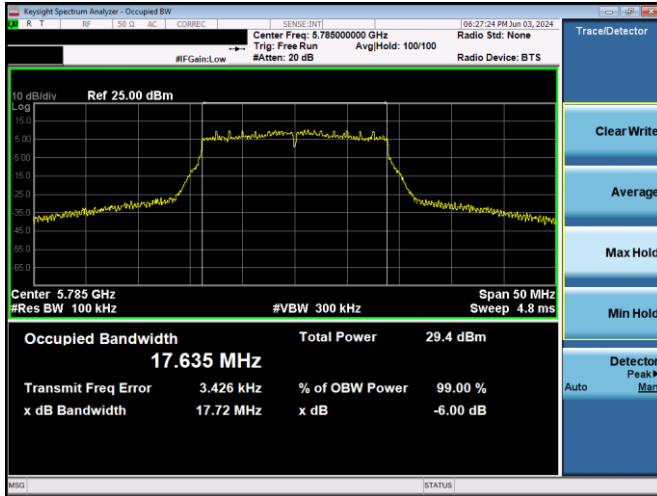
Plot 7-135. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 802.11n – Ch. 151, MCS2)



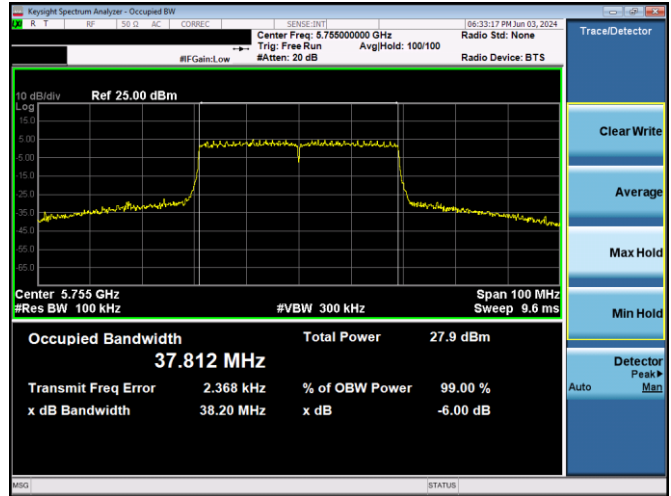
Plot 7-138. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 802.11ax(SU) – Ch. 155, MCS2)

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-139. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11n – Ch. 157, MCS4)



Plot 7-142. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 802.11ax(SU) – Ch. 151, MCS4)



Plot 7-140. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11ax(SU) – Ch. 157, MCS4)



Plot 7-143. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 802.11ac – Ch. 155, MCS4)



Plot 7-141. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 802.11n – Ch. 151, MCS4)

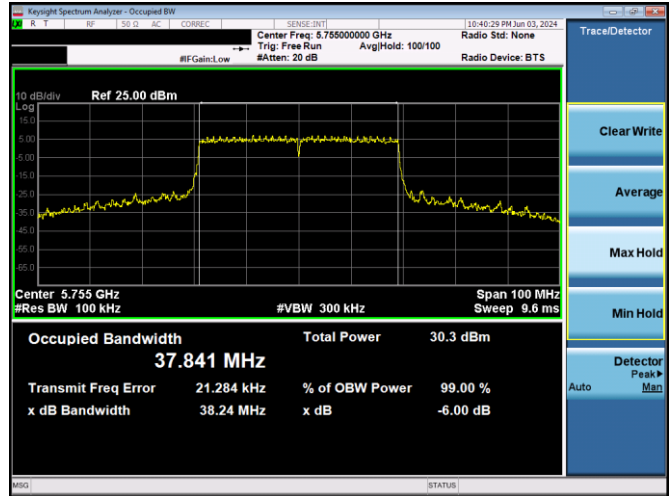


Plot 7-144. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 802.11ax(SU) – Ch. 155, MCS4)

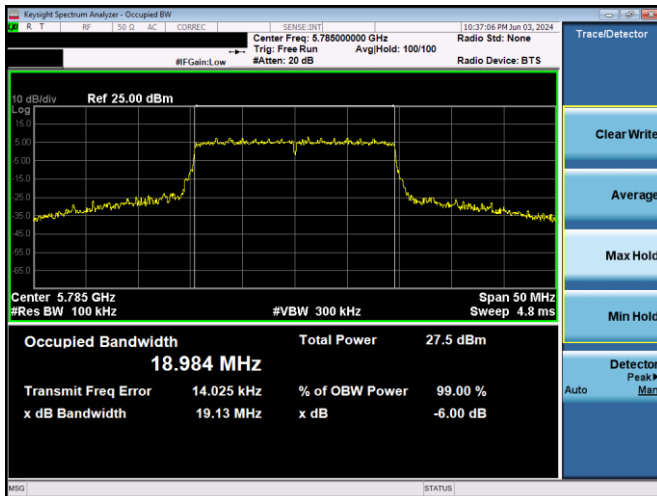
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-11.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 53 of 380



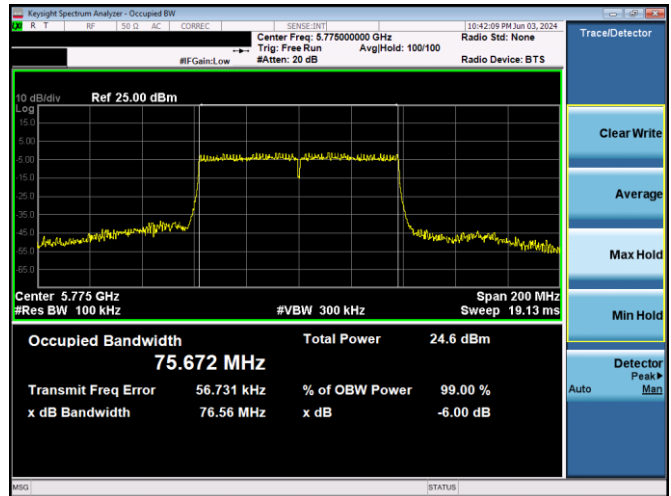
Plot 7-145. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11n – Ch. 157, MCS7)



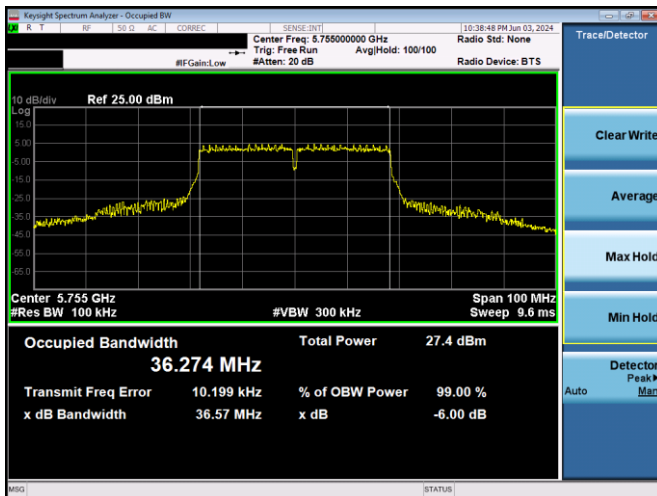
Plot 7-148. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 802.11ax(SU) – Ch. 151, MCS11)



Plot 7-146. 6dB BW & 99% OBW Antenna WF5T (20MHz BW 802.11ax(SU) – Ch. 157, MCS11)



Plot 7-149. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 802.11ac – Ch. 155, MCS9)



Plot 7-147. 6dB BW & 99% OBW Antenna WF5T (40MHz BW 802.11n – Ch. 151, MCS7)



Plot 7-150. 6dB BW & 99% OBW Antenna WF5T (80MHz BW 802.11ax(SU) – Ch. 155, MCS11)

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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### 7.3.2 WF2 6dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	19.5/21.7 (MCS2)	17.62	17.00	0.50	Pass
	5785	157	n (20MHz)	19.5/21.7 (MCS2)	17.61	17.28	0.50	Pass
	5825	165	n (20MHz)	19.5/21.7 (MCS2)	17.62	17.27	0.50	Pass
	5745	149	ax (SU) (20MHz)	24/25.8 (MCS2)	18.95	19.09	0.50	Pass
	5785	157	ax (SU) (20MHz)	24/25.8 (MCS2)	18.95	19.09	0.50	Pass
	5825	165	ax (SU) (20MHz)	24/25.8 (MCS2)	18.95	19.05	0.50	Pass
	5755	151	n (40MHz)	40/40.5 (MCS2)	36.06	36.07	0.50	Pass
	5795	159	n (40MHz)	40/40.5 (MCS2)	36.04	36.08	0.50	Pass
	5755	151	ax (SU) (40MHz)	49/51.6 (MCS2)	37.81	38.18	0.50	Pass
	5795	159	ax (SU) (40MHz)	49/51.6 (MCS2)	37.81	38.17	0.50	Pass
	5775	155	ac (80MHz)	87.8/97.5 (MCS2)	75.32	75.63	0.50	Pass
	5775	155	ax (SU) (80MHz)	102/108.1 (MCS2)	77.05	77.89	0.50	Pass

Table 7-11. Conducted Bandwidth Measurements Antenna WF2 (Low Data Rate)

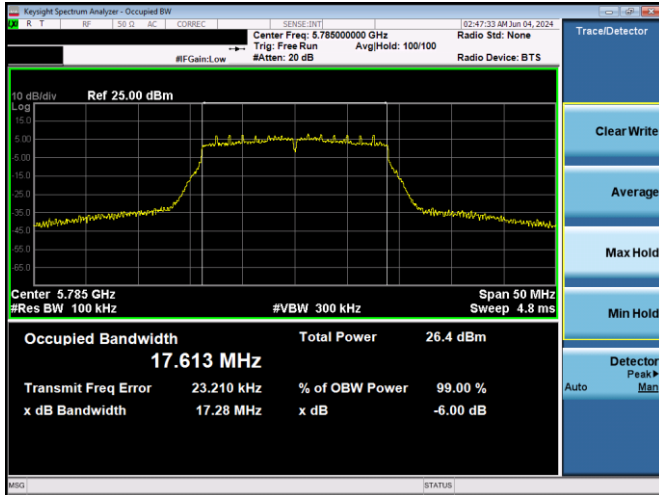
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	39/43.3 (MCS4)	17.63	17.70	0.50	Pass
	5785	157	n (20MHz)	39/43.3 (MCS4)	17.64	17.69	0.50	Pass
	5825	165	n (20MHz)	39/43.3 (MCS4)	17.64	17.68	0.50	Pass
	5745	149	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.10	0.50	Pass
	5785	157	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.10	0.50	Pass
	5825	165	ax (SU) (20MHz)	49/51.6 (MCS4)	18.97	19.11	0.50	Pass
	5755	151	n (40MHz)	81/90 (MCS4)	36.09	36.19	0.50	Pass
	5795	159	n (40MHz)	81/90 (MCS4)	36.16	36.48	0.50	Pass
	5755	151	ax (SU) (40MHz)	98/103.2 (MCS4)	37.82	38.20	0.50	Pass
	5795	159	ax (SU) (40MHz)	98/103.2 (MCS4)	37.85	38.25	0.50	Pass
	5775	155	ac (80MHz)	175.5/195 (MCS4)	75.34	76.29	0.50	Pass
	5775	155	ax (SU) (80MHz)	204/216.2 (MCS4)	76.96	77.98	0.50	Pass

Table 7-12. Conducted Bandwidth Measurements Antenna WF2 (Mid Data Rate)

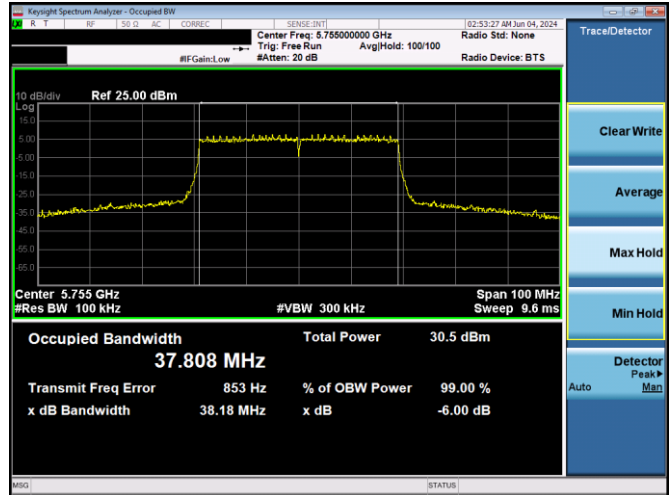
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	n (20MHz)	65/72.2 (MCS7)	17.71	17.77	0.50	Pass
	5785	157	n (20MHz)	65/72.2 (MCS7)	17.71	17.78	0.50	Pass
	5825	165	n (20MHz)	65/72.2 (MCS7)	17.71	17.77	0.50	Pass
	5745	149	ax (SU) (20MHz)	135/143.4 (MCS11)	18.99	19.11	0.50	Pass
	5785	157	ax (SU) (20MHz)	135/143.4 (MCS11)	18.98	19.12	0.50	Pass
	5825	165	ax (SU) (20MHz)	135/143.4 (MCS11)	19.00	19.12	0.50	Pass
	5755	151	n (40MHz)	135/150 (MCS7)	36.32	36.59	0.50	Pass
	5795	159	n (40MHz)	135/150 (MCS7)	36.30	36.56	0.50	Pass
	5755	151	ax (SU) (40MHz)	271/286 (MCS11)	37.84	38.18	0.50	Pass
	5795	159	ax (SU) (40MHz)	271/286 (MCS11)	37.85	38.24	0.50	Pass
	5775	155	ac (80MHz)	390/433.3 (MCS9)	75.60	76.50	0.50	Pass
	5775	155	ax (SU) (80MHz)	567/600.5 (MCS11)	77.02	77.97	0.50	Pass

Table 7-13. Conducted Bandwidth Measurements Antenna WF2 (High Data Rate)

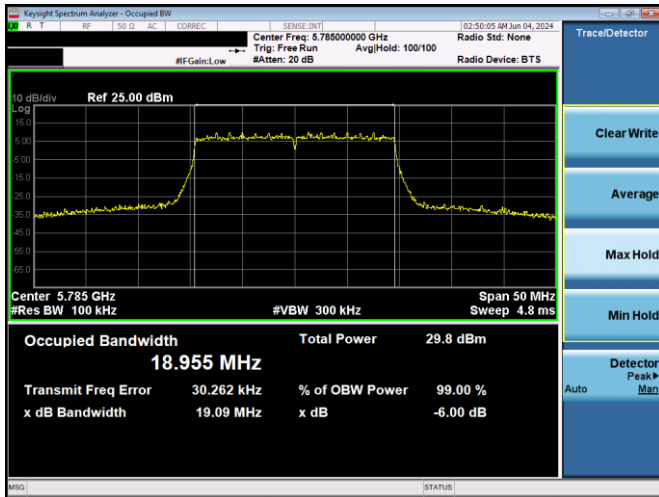
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-11.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 55 of 380



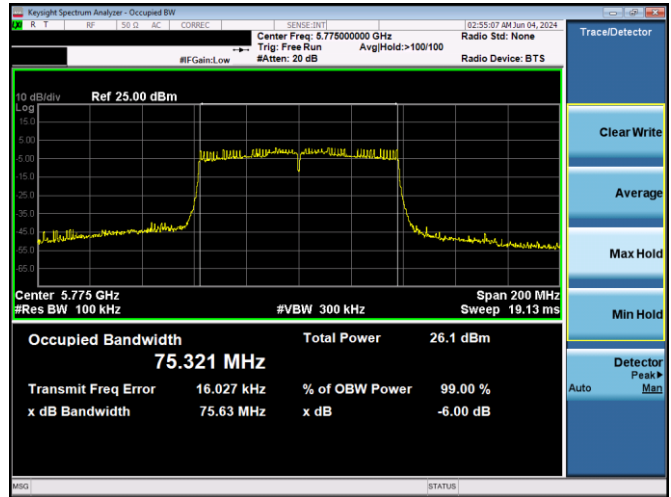
Plot 7-151. 6dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11n – Ch. 157, MCS2)



Plot 7-154. 6dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11ax(SU) – Ch. 151, MCS2)



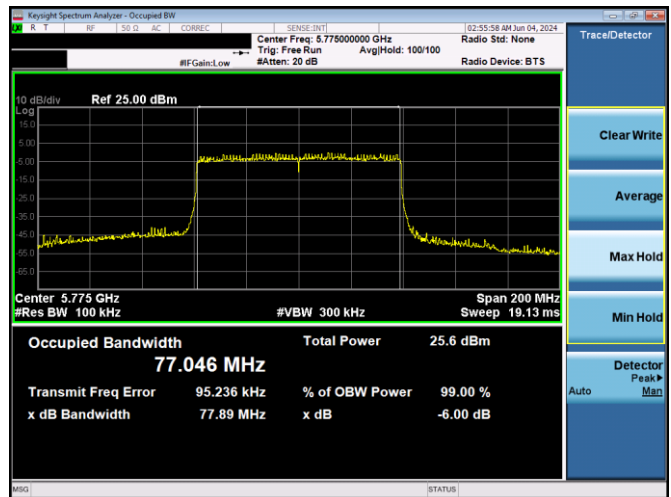
Plot 7-152. 6dB BW & 99% OBW Antenna WF2 (20MHz BW 802.11ax(SU) – Ch. 157, MCS2)



Plot 7-155. 6dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ac – Ch. 155, MCS2)



Plot 7-153. 6dB BW & 99% OBW Antenna WF2 (40MHz BW 802.11n – Ch. 151, MCS2)



Plot 7-156. 6dB BW & 99% OBW Antenna WF2 (80MHz BW 802.11ax(SU) – Ch. 155, MCS2)

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-11.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 56 of 380