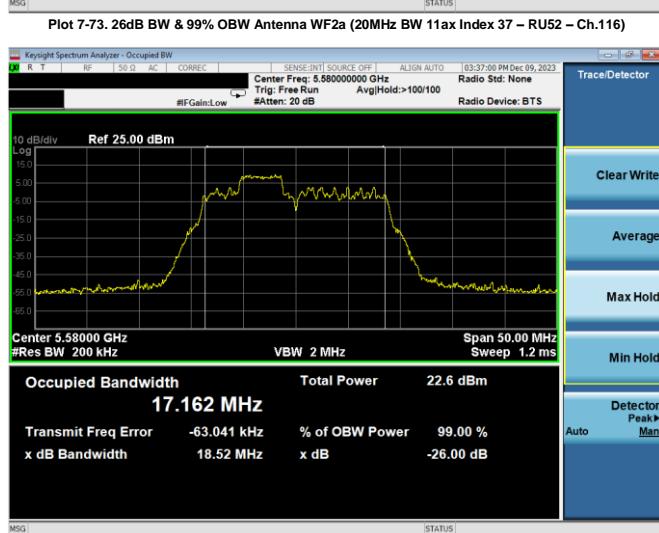
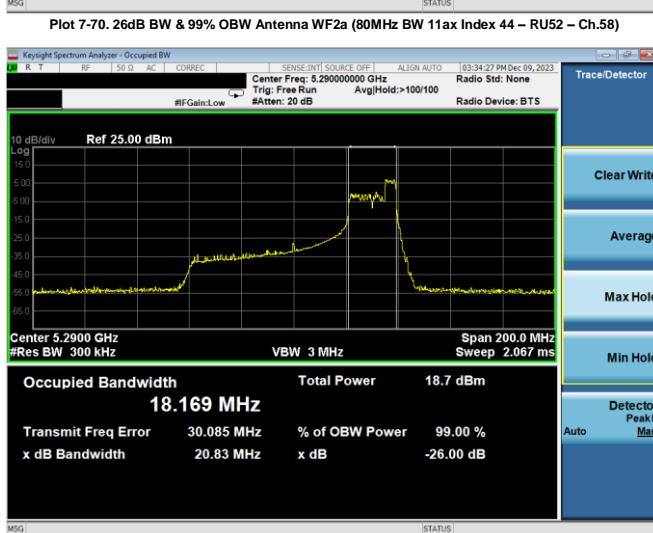
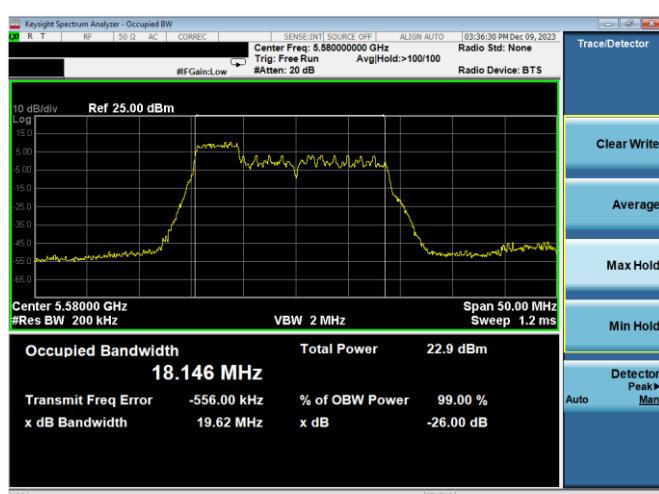
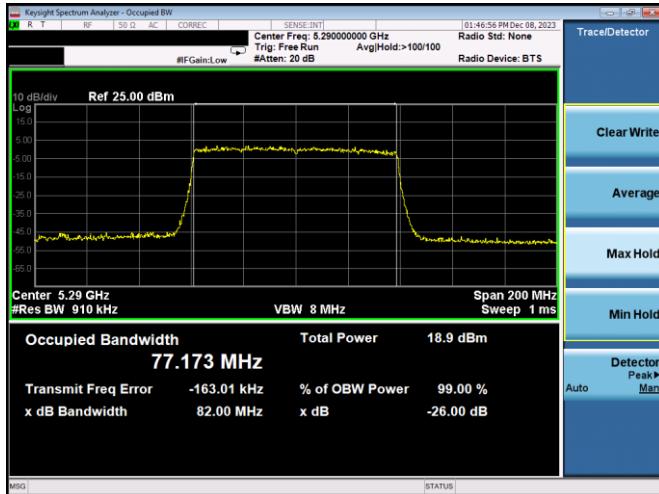
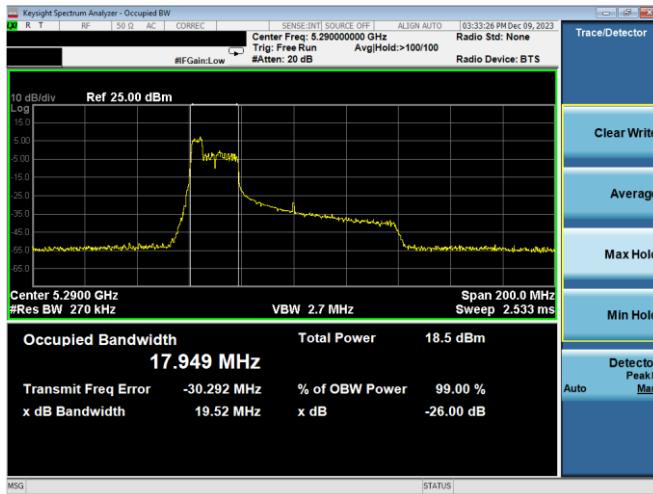


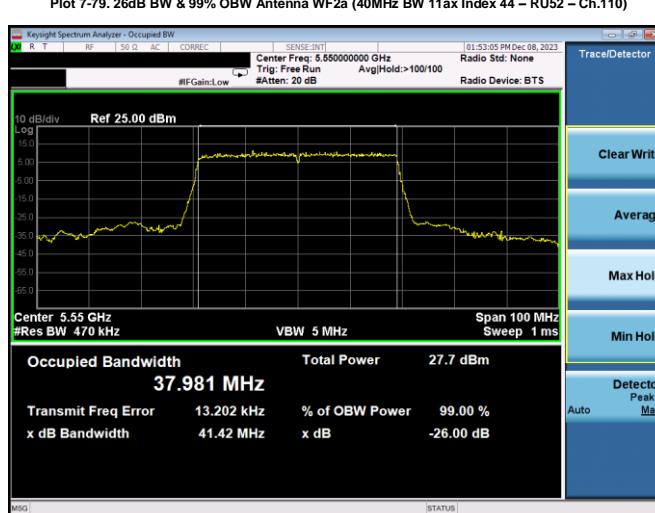
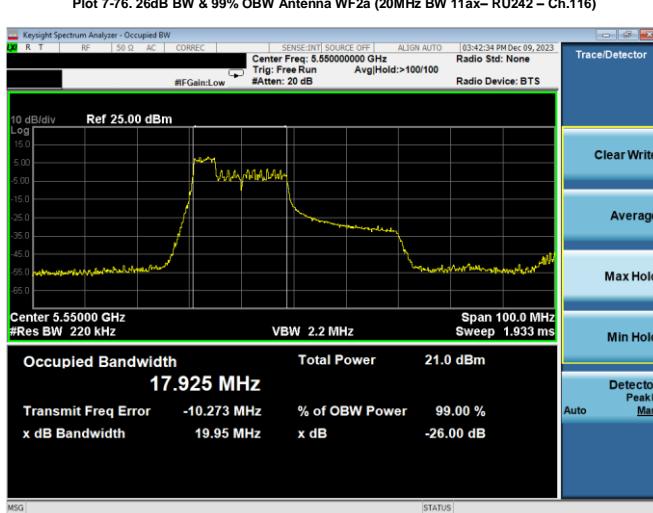
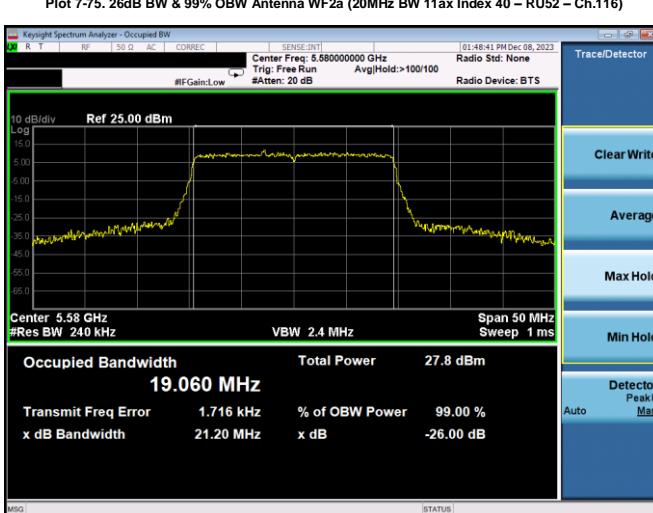
FCC ID: BCGA2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 34 of 447



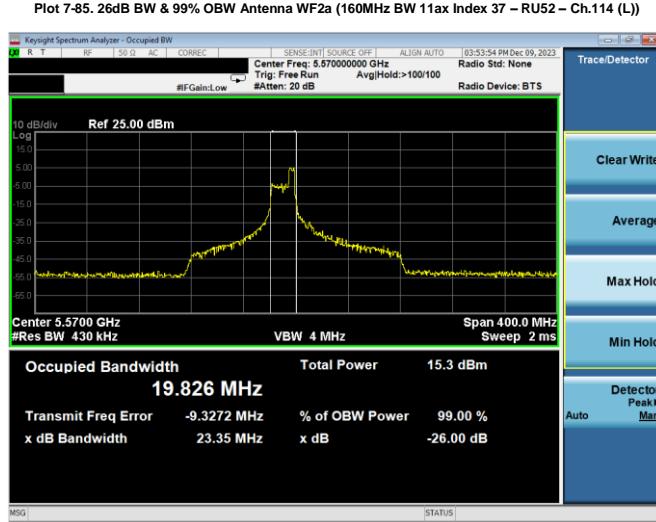
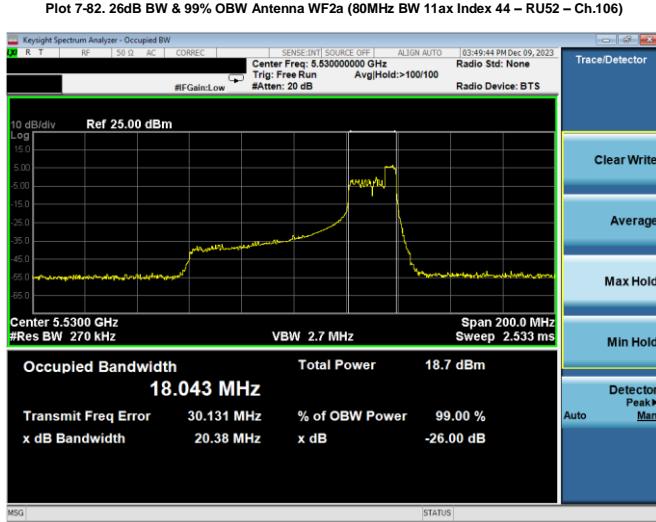
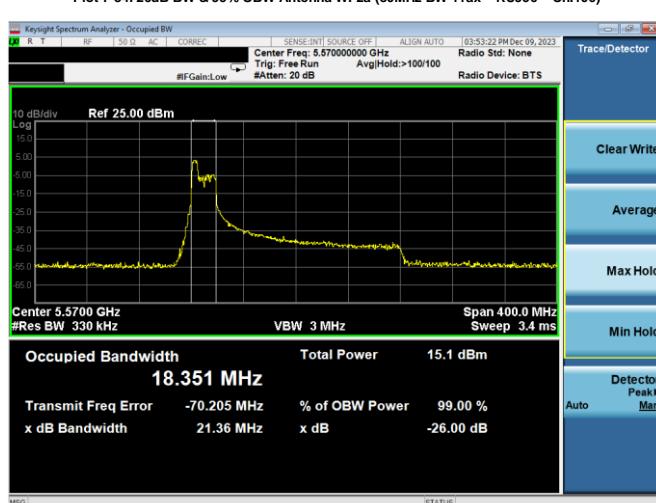
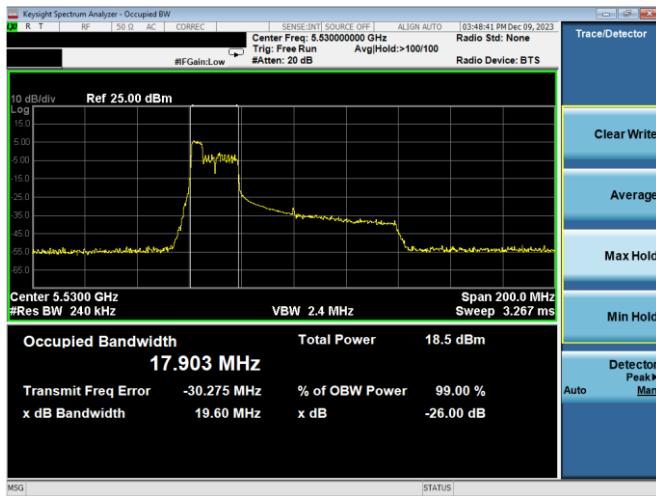
Plot 7-71. 26dB BW & 99% OBW Antenna WF2a (80MHz BW 11ax Index 52 – RU52 – Ch.58)

Plot 7-74. 26dB BW & 99% OBW Antenna WF2a (20MHz BW 11ax Index 38 – RU52 – Ch.116)

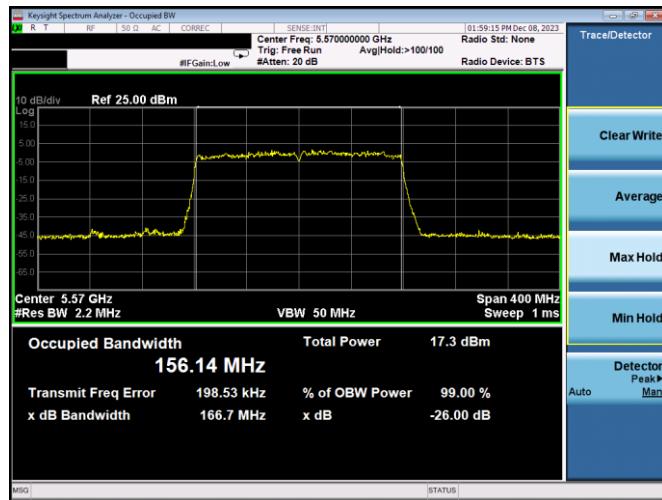
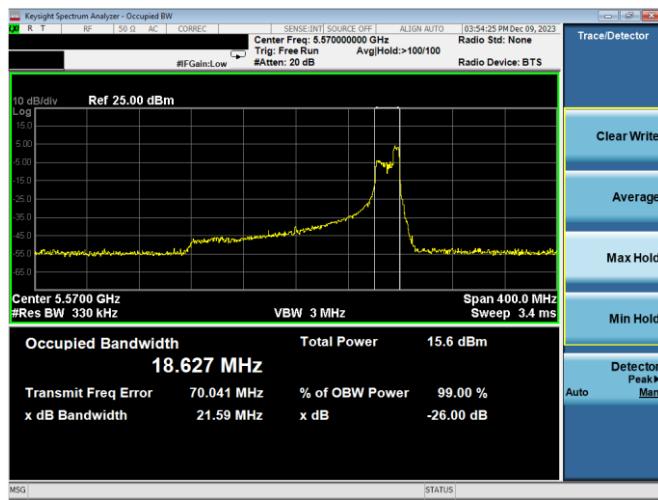
FCC ID: BCGA2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 35 of 447



FCC ID: BCGA2898	IC: 579C-A2898	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device		Page 36 of 447



FCC ID: BCGA2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 37 of 447



Plot 7-87. 26dB BW & 99% OBW Antenna WF2a (160MHz BW 11ax Index 52 – RU52 – Ch.114 (U))

Plot 7-88. 26dB BW & 99% OBW Antenna WF2a (160MHz BW 11ax – RU996x2 – Ch.114)

FCC ID: BCGA2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 38 of 447

V 10.5 12/15/2021

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Antenna WF7b 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.27	19.64
				26	4	12.5/14.7 (MCS11)	17.07	18.16
				26	8	12.5/14.7 (MCS11)	18.26	19.55
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.26	19.51
				26	4	12.5/14.7 (MCS11)	17.05	18.07
				26	8	12.5/14.7 (MCS11)	18.31	19.46
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.21	19.61
				26	4	12.5/14.7 (MCS11)	17.04	18.15
				26	8	12.5/14.7 (MCS11)	18.32	19.67
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.00	19.61
				26	8	12.5/14.7 (MCS11)	19.53	21.91
				26	17	12.5/14.7 (MCS11)	18.16	19.64
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.12	19.77
				26	8	12.5/14.7 (MCS11)	19.59	21.34
				26	17	12.5/14.7 (MCS11)	18.16	19.89
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	18.13	19.38
				26	18	12.5/14.7 (MCS11)	37.20	38.45
				26	36	12.5/14.7 (MCS11)	18.11	19.26

Table 7-8. Conducted Bandwidth Measurements Antenna WF7b (RU26)

FCC ID: BCGA2898	IC: 579C-A2898	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device		Page 39 of 447

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1/2A	5250	50 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	18.42	20.46
				52	52	25/29.4 (MCS11)	19.46	22.95
		50 (U)		52	52	25/29.4 (MCS11)	19.00	22.62
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	18.14	19.59
				52	38	25/29.4 (MCS11)	17.14	18.30
				52	40	25/29.4 (MCS11)	18.20	19.69
	5300	60	ax (20MHz)	52	37	25/29.4 (MCS11)	18.12	19.65
				52	38	25/29.4 (MCS11)	17.11	18.42
				52	40	25/29.4 (MCS11)	18.23	19.42
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	18.15	19.75
				52	38	25/29.4 (MCS11)	17.15	18.31
				52	40	25/29.4 (MCS11)	18.24	19.86
Band 2C	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	17.94	20.05
				52	40	25/29.4 (MCS11)	19.49	22.73
				52	44	25/29.4 (MCS11)	18.12	20.52
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	17.88	19.90
				52	40	25/29.4 (MCS11)	19.55	24.62
				52	44	25/29.4 (MCS11)	18.09	20.55
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	17.93	19.55
				52	44	25/29.4 (MCS11)	20.32	24.44
				52	52	25/29.4 (MCS11)	18.05	20.52
Band 2C	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	18.14	19.77
				52	38	25/29.4 (MCS11)	17.14	18.45
				52	40	25/29.4 (MCS11)	18.22	19.69
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	18.10	19.67
				52	38	25/29.4 (MCS11)	17.13	18.44
				52	40	25/29.4 (MCS11)	18.21	19.53
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	18.11	19.66
				52	38	25/29.4 (MCS11)	17.14	18.40
				52	40	25/29.4 (MCS11)	18.23	19.64
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	17.91	20.06
				52	40	25/29.4 (MCS11)	19.53	23.41
				52	44	25/29.4 (MCS11)	18.08	20.13
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	17.91	19.93
				52	40	25/29.4 (MCS11)	19.77	23.82
				52	44	25/29.4 (MCS11)	18.01	20.36
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	17.96	20.18
				52	40	25/29.4 (MCS11)	19.55	24.54
				52	44	25/29.4 (MCS11)	18.12	20.56
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	17.94	19.48
				52	44	25/29.4 (MCS11)	20.64	25.51
				52	52	25/29.4 (MCS11)	18.02	20.46
	5610*	122	ax (80MHz)	52	37	25/29.4 (MCS11)	17.94	19.49
				52	44	25/29.4 (MCS11)	20.02	24.38
				52	52	25/29.4 (MCS11)	18.04	20.38
	5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	17.95	19.62
				52	44	25/29.4 (MCS11)	20.18	23.90
				52	52	25/29.4 (MCS11)	18.12	20.17
	5570*	114 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	18.52	21.28
				52	52	25/29.4 (MCS11)	21.64	25.53
		114 (U)		52	52	25/29.4 (MCS11)	19.02	22.39

Table 7-9. Conducted Bandwidth Measurements Antenna WF7b (RU52)

*TDWR channel is not supported for ISED (denoted by a * next to the frequency)

FCC ID: BCGA2898 IC: 579C-A2898	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 40 of 447

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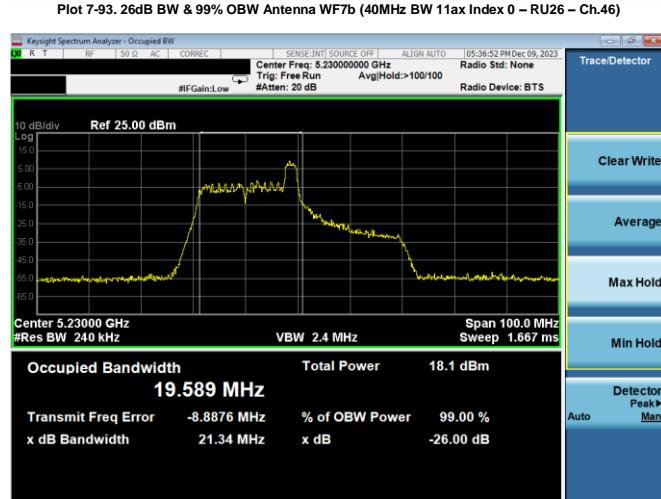
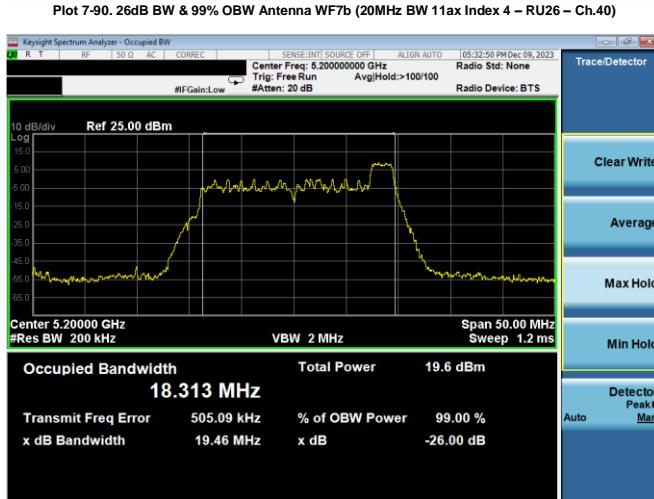
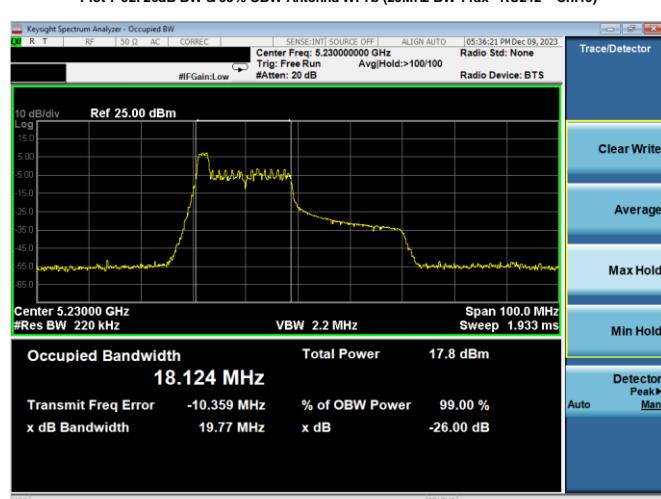
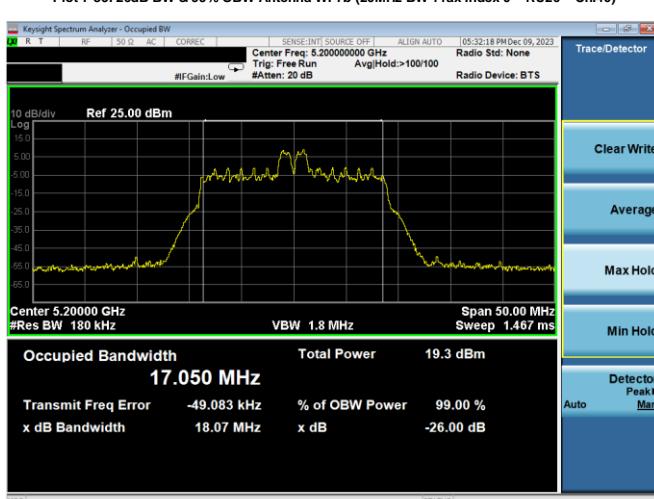
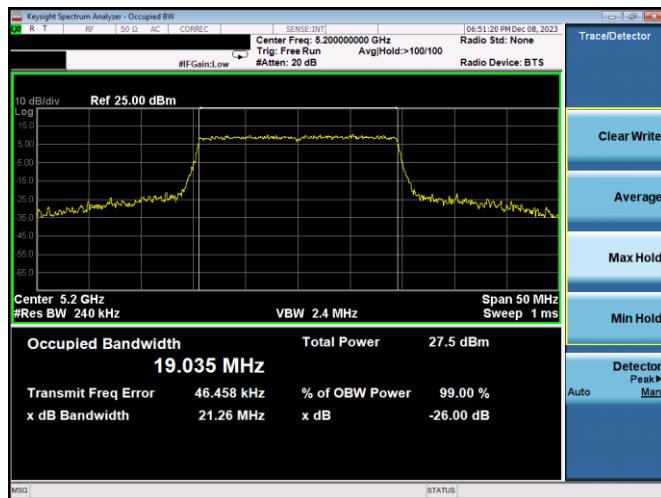
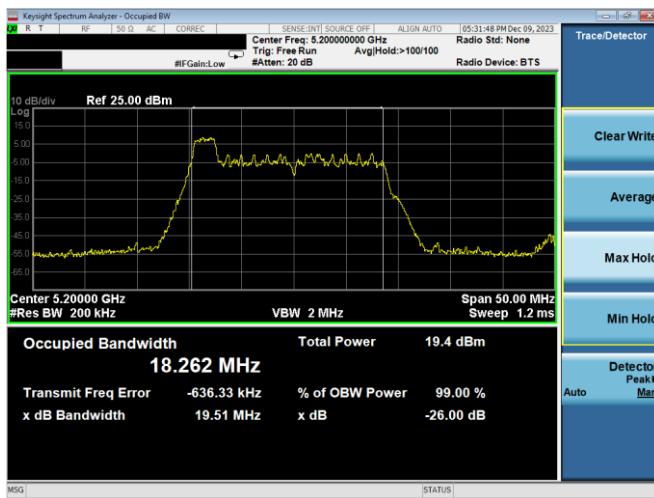
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	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	21.35
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.26
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.05	21.29
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.97	41.31
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.00	41.60
	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.06	81.50
Band 1/2A	5250	50	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.10	166.40
Band 2A	5260	52	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.08	21.24
	5300	60	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	21.12
	5320	64	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.02	21.15
	5270	54	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.00	41.41
	5310	62	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.92	41.47
	5290	58	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.12	81.69
Band 2C	5500	100	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.16
	5580	116	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	21.19
	5720	144	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.07	21.19
	5510	102	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.96	41.41
	5550	110	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.94	41.40
	5710	142	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.06	41.80
	5530	106	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.24	81.61
	5610*	122	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.13	81.91
	5690	138	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.26	81.60
	5570*	114	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.09	166.10

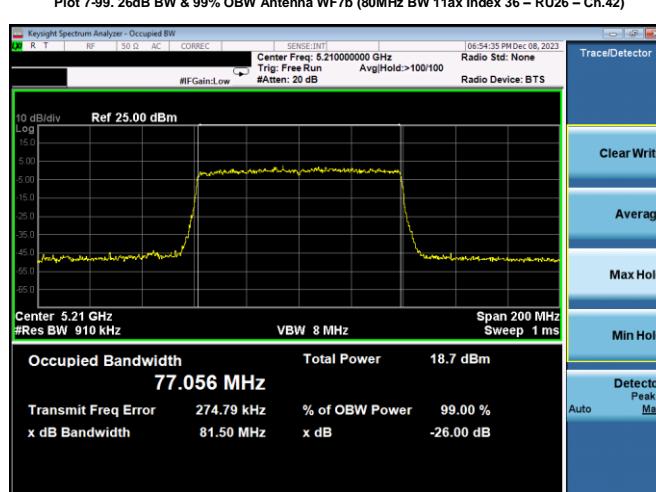
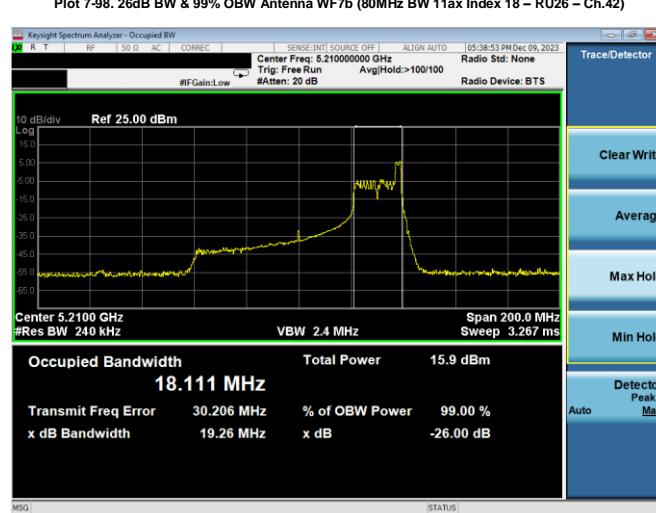
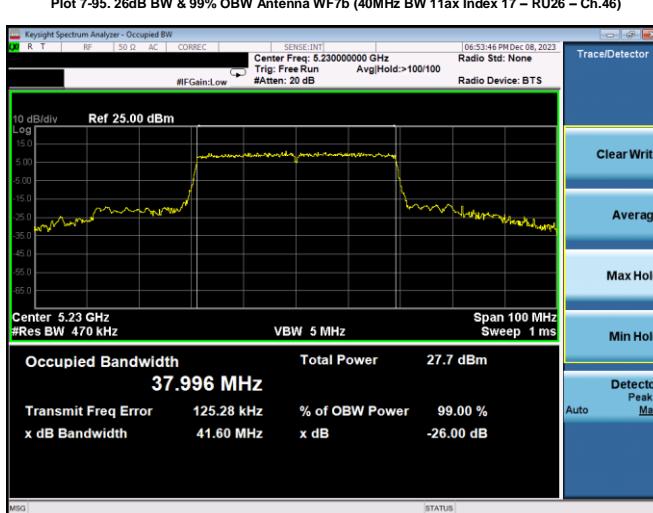
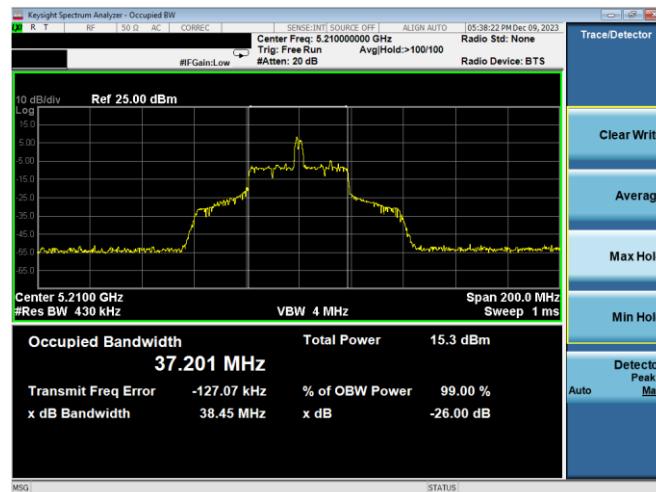
Table 7-10. Conducted Bandwidth Measurements Antenna WF7b (Fully- loaded RU)

*TDWR channel is not supported for ISED (denoted by a * next to the frequency)

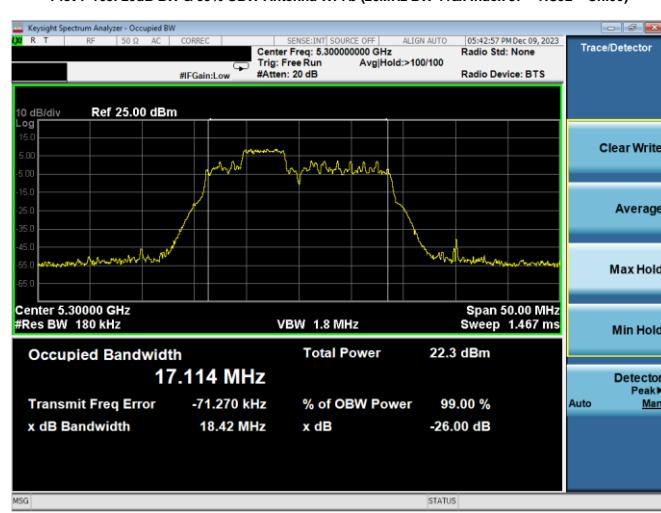
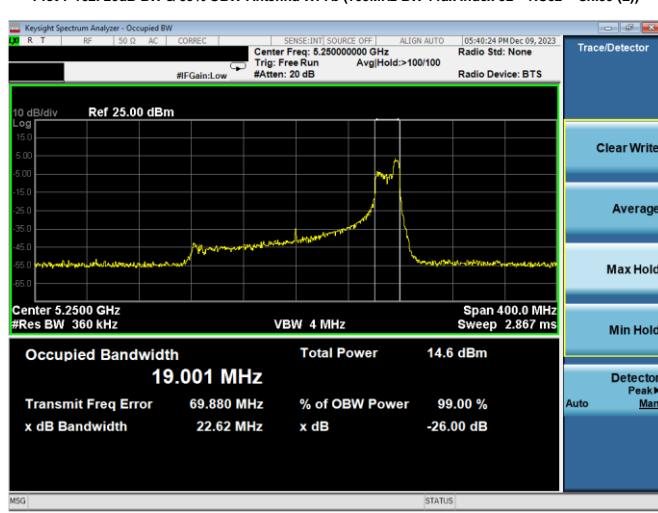
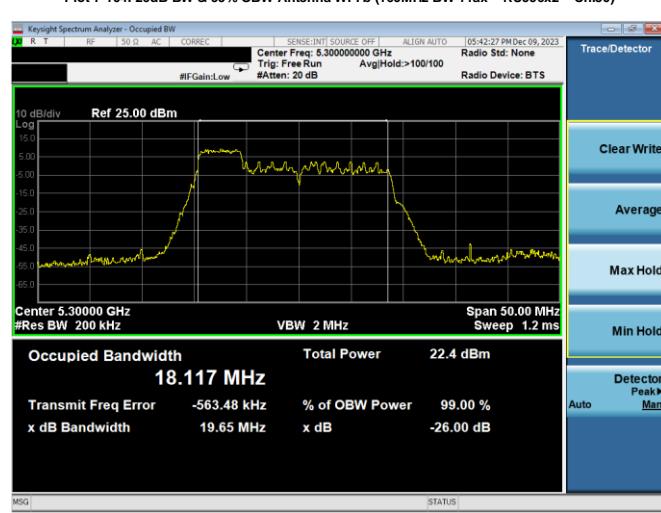
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Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 41 of 447



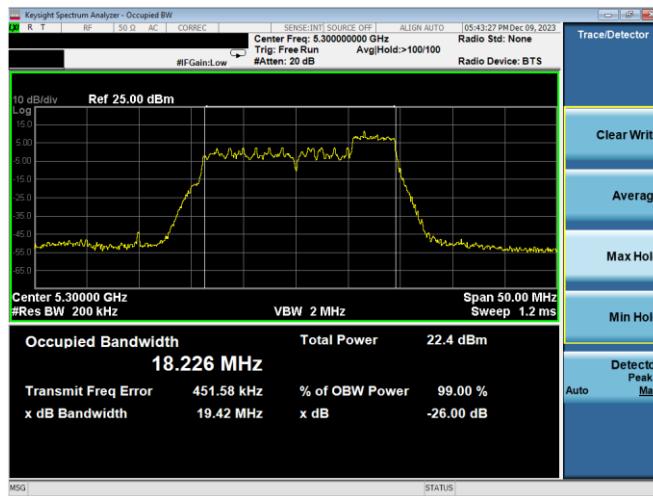
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Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 42 of 447



FCC ID: BCGA2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 43 of 447



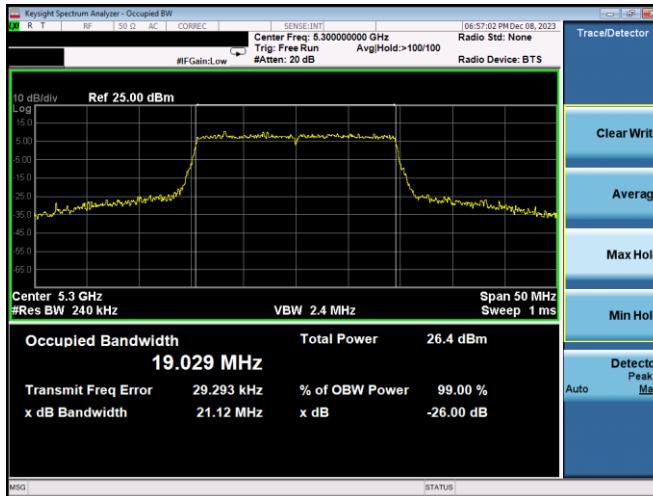
FCC ID: BCGA2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 44 of 447



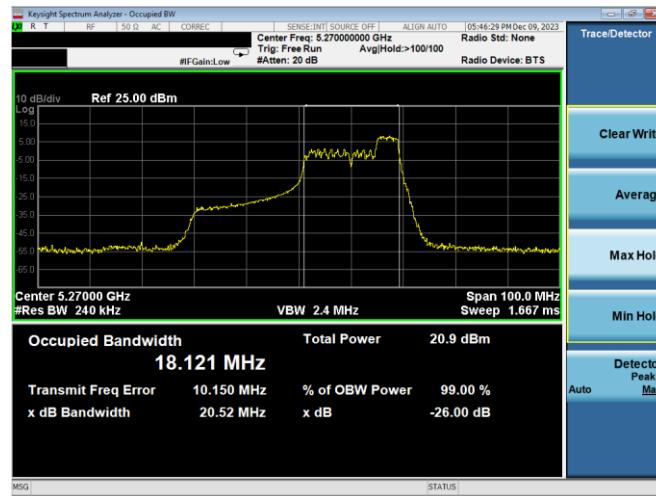
Plot 7-107. 26dB BW & 99% OBW Antenna WF7b (20MHz BW 11ax Index 40 – RU52 – Ch.60)



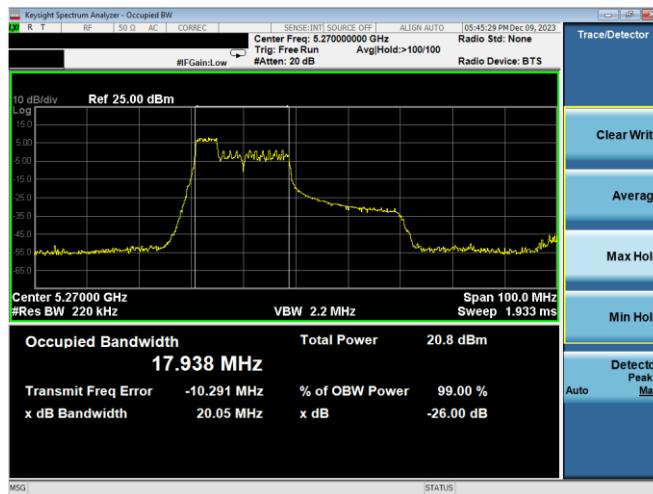
Plot 7-110. 26dB BW & 99% OBW Antenna WF7b (40MHz BW 11ax Index 40 – RU52 – Ch.54)



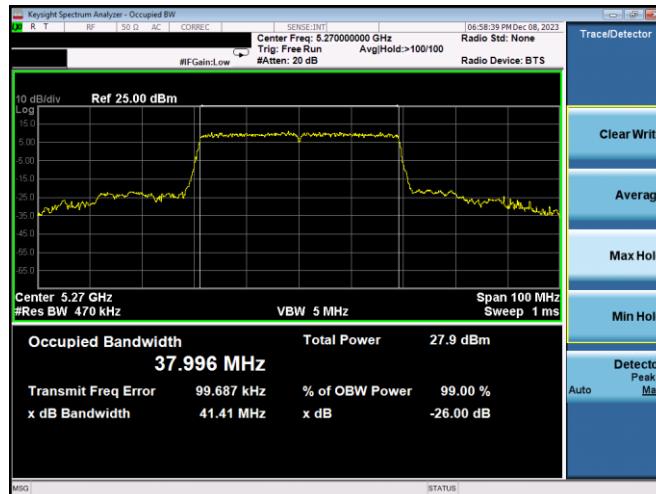
Plot 7-108. 26dB BW & 99% OBW Antenna WF7b (20MHz BW 11ax – RU242 – Ch.60)



Plot 7-111. 26dB BW & 99% OBW Antenna WF7b (40MHz BW 11ax Index 44 – RU52 – Ch.54)

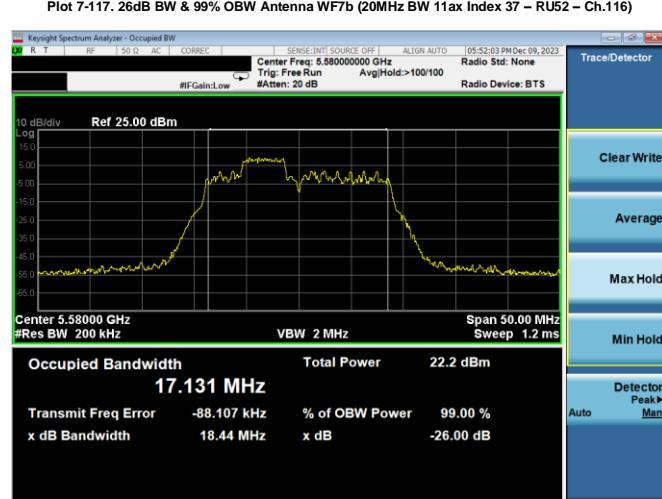
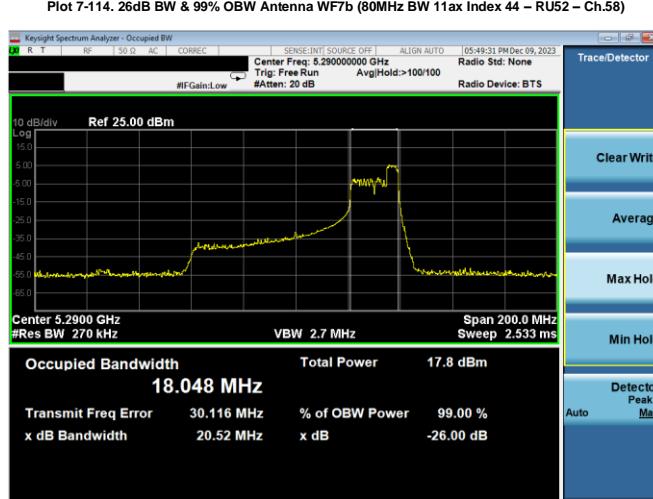
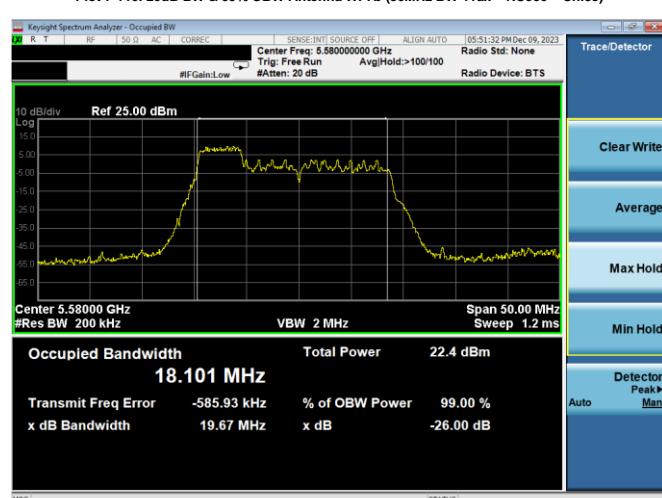
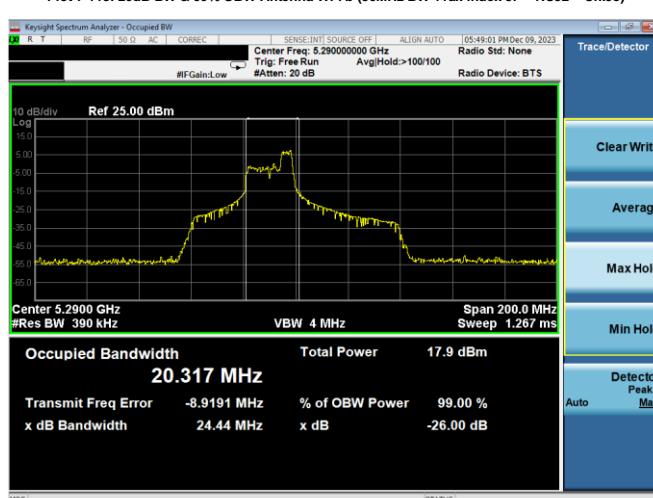
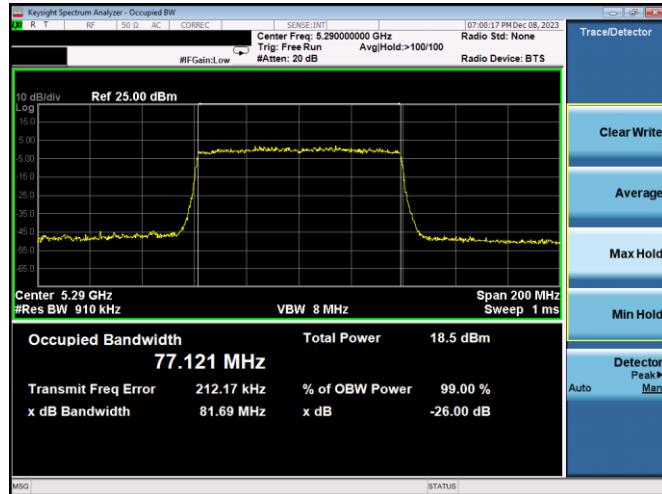


Plot 7-109. 26dB BW & 99% OBW Antenna WF7b (40MHz BW 11ax Index 37 – RU52 – Ch.54)

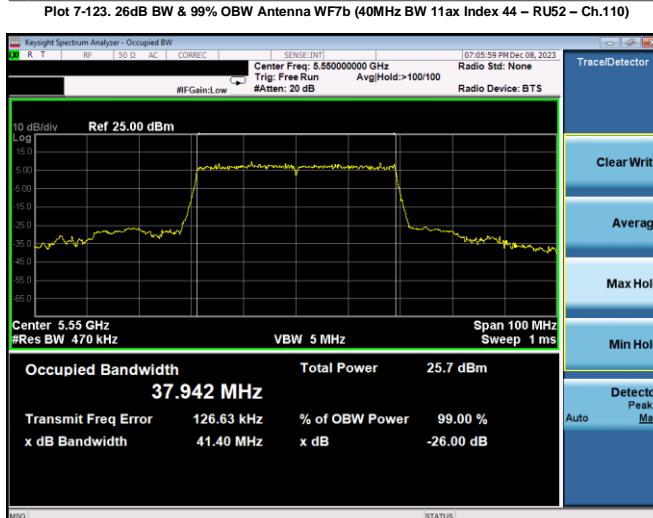
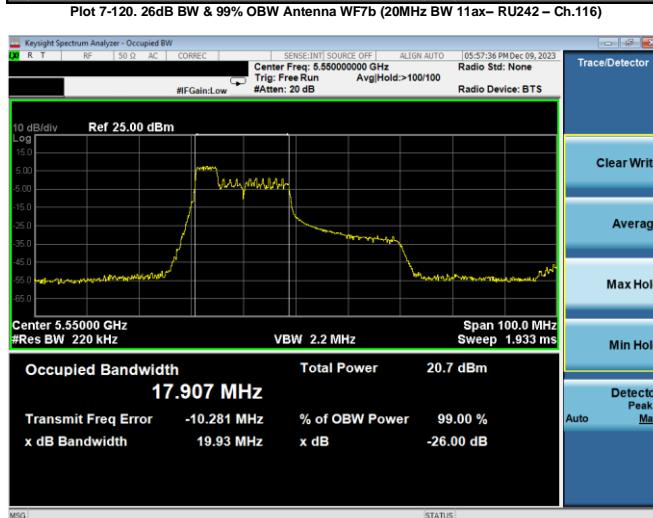
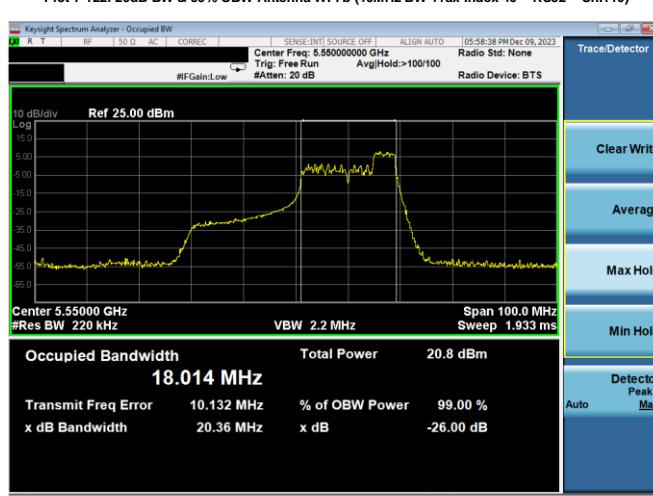
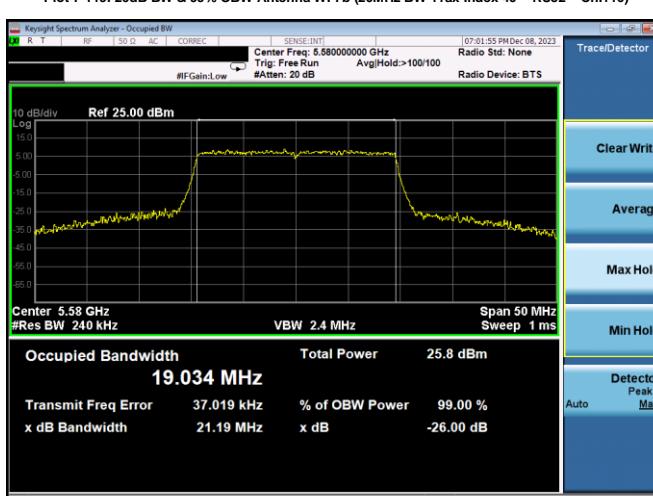
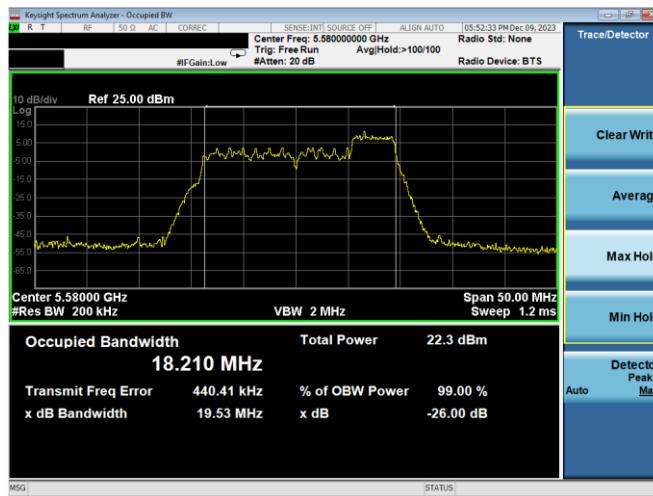


Plot 7-112. 26dB BW & 99% OBW Antenna WF7b (40MHz BW 11ax – RU484 – Ch.54)

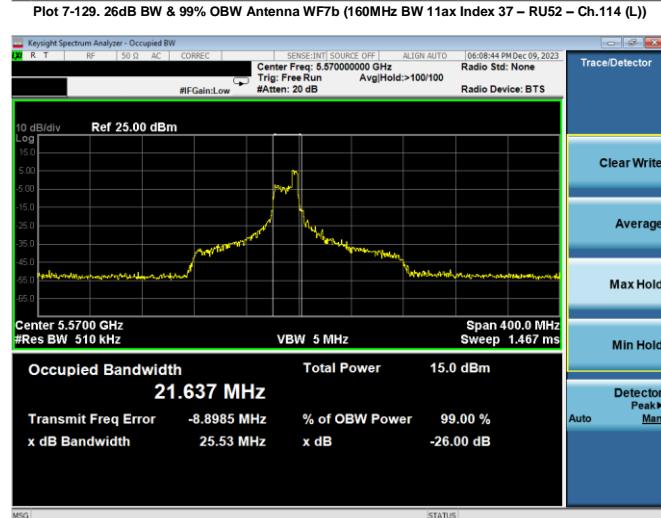
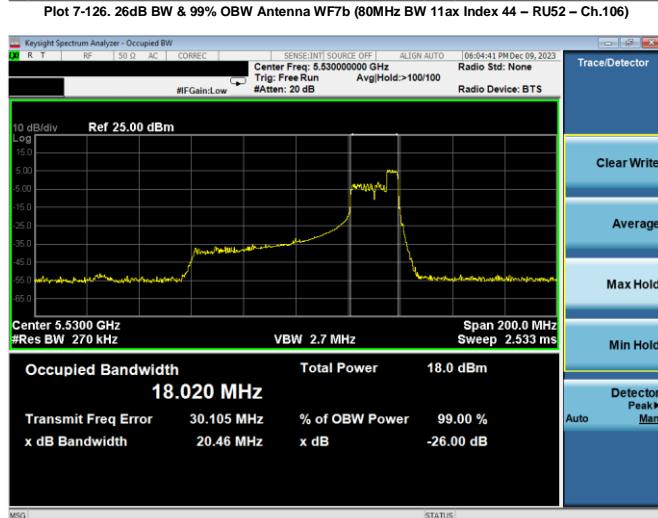
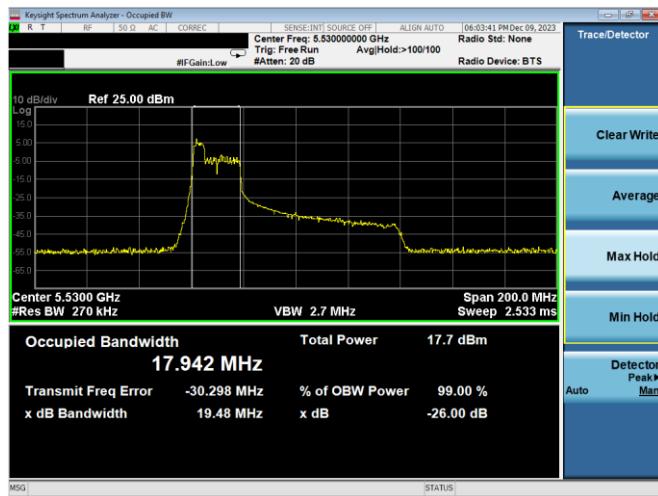
FCC ID: BCGA2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 45 of 447



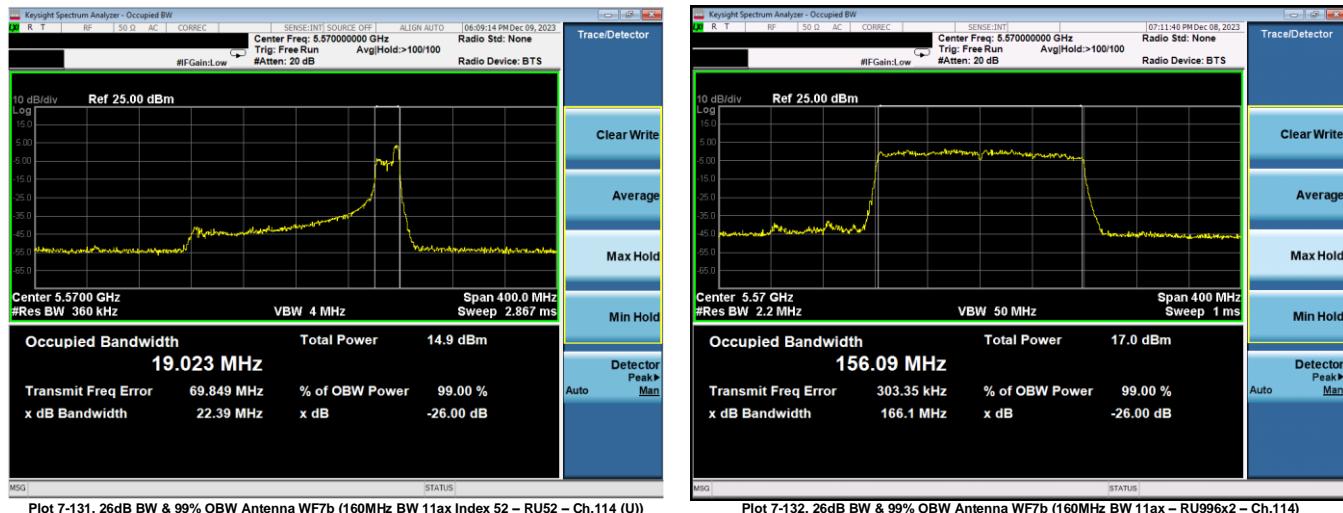
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Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 46 of 447



FCC ID: BCGA2898 IC: 579C-A2898	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 47 of 447



FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 48 of 447



FCC ID: BCGA2898	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 49 of 447

7.3 6dB & 99% Bandwidth Measurement – 802.11ax OFDMA

§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 C63.10-2013 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 ≥ 500 kHz.

Test Procedure Used

ANSI C63.10-2013 – Subclause 6.9.2
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 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.

FCC ID: BCGA2898 IC: 579C-A2898	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-12-R1.BCG	Test Dates: 11/29/2023-2/29/2024	EUT Type: Tablet Device	Page 50 of 447