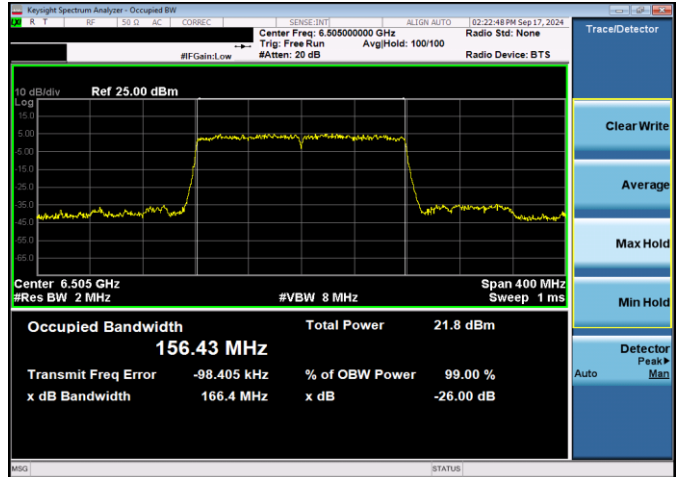
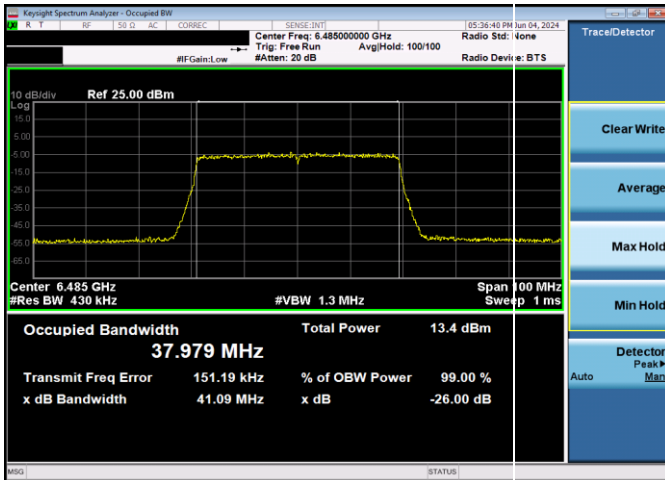


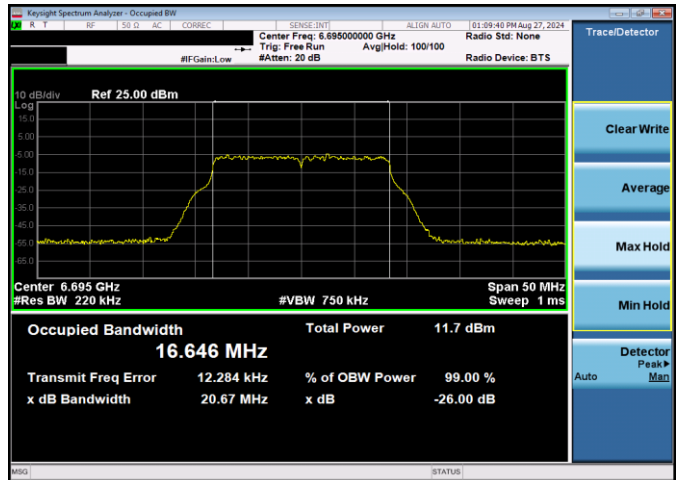
Plot 7-57. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (20MHz 802.11ax (UNII Band 6) – Ch. 105, MCS11)



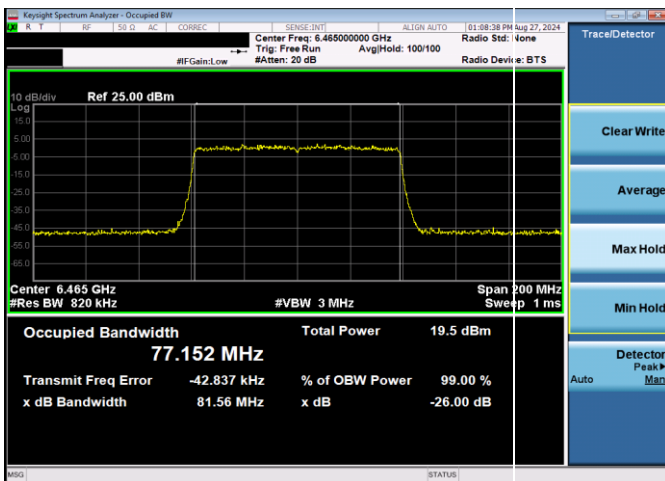
Plot 7-60. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS11)



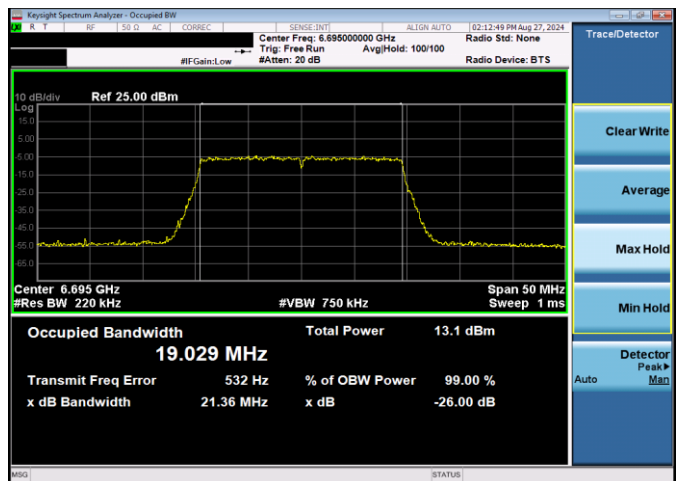
Plot 7-58. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS11)



Plot 7-61. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (20MHz 802.11a (UNII Band 7) – Ch. 149, 54Mbps)

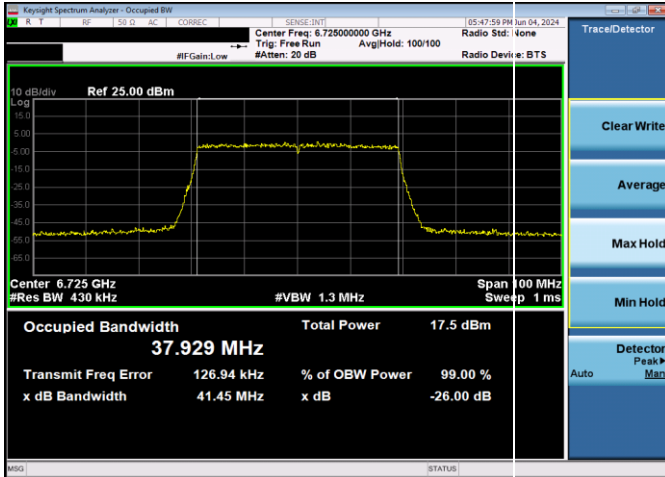


Plot 7-59. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS11)

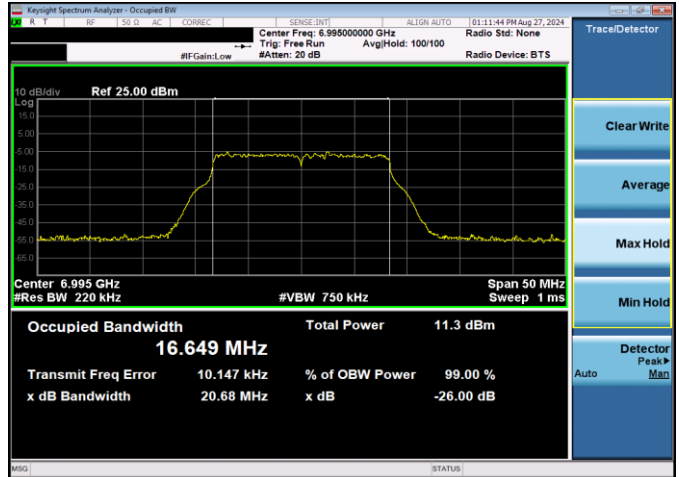


Plot 7-62. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)

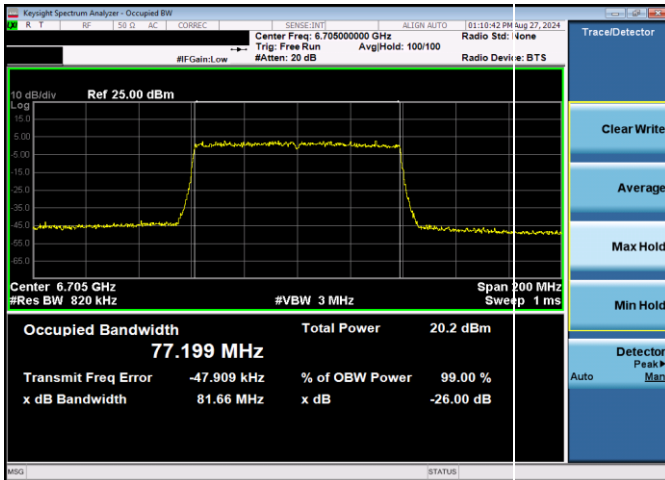
FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-13-R3.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 37 of 222



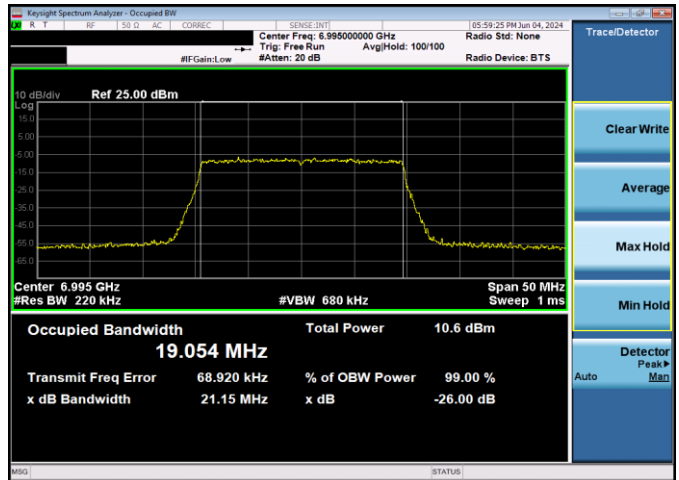
Plot 7-63. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



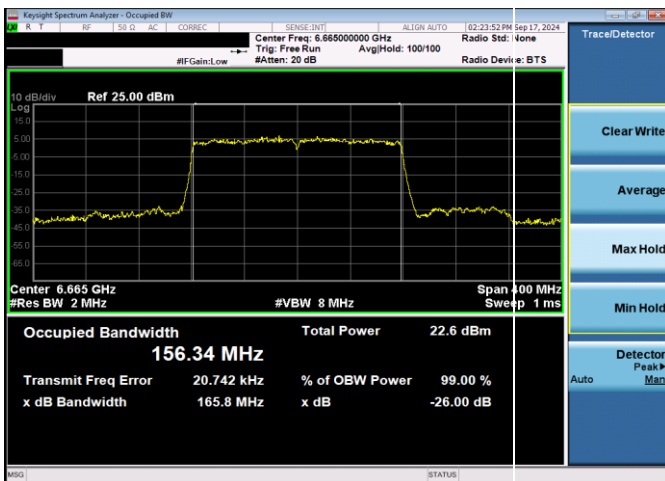
Plot 7-66. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (20MHz 802.11a (UNII Band 8) – Ch. 209, 54Mbps)



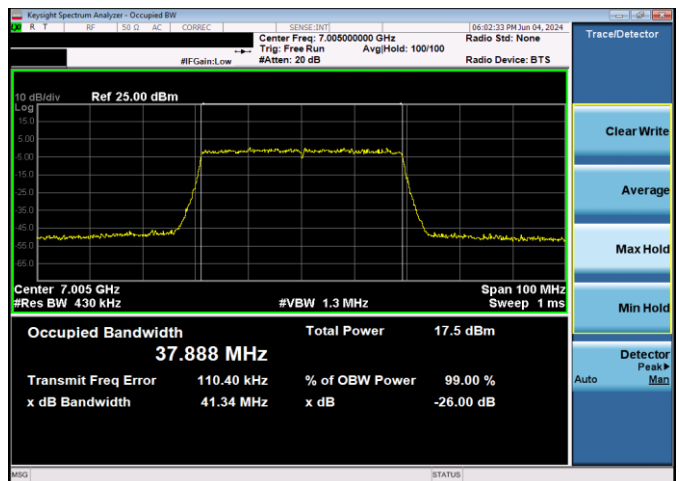
Plot 7-64. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



Plot 7-67. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS11)

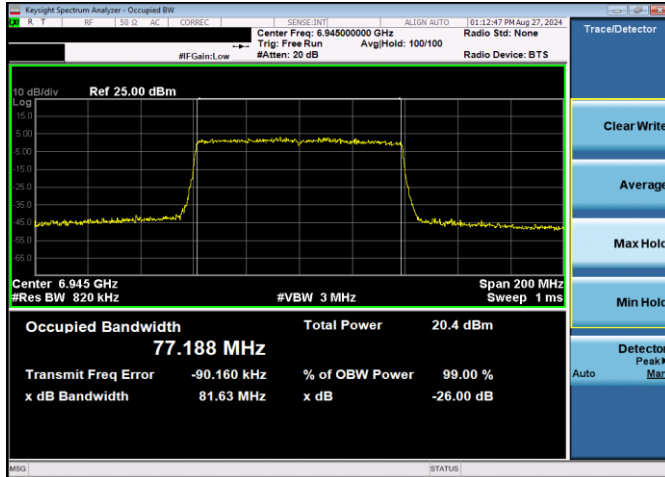


Plot 7-65. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)

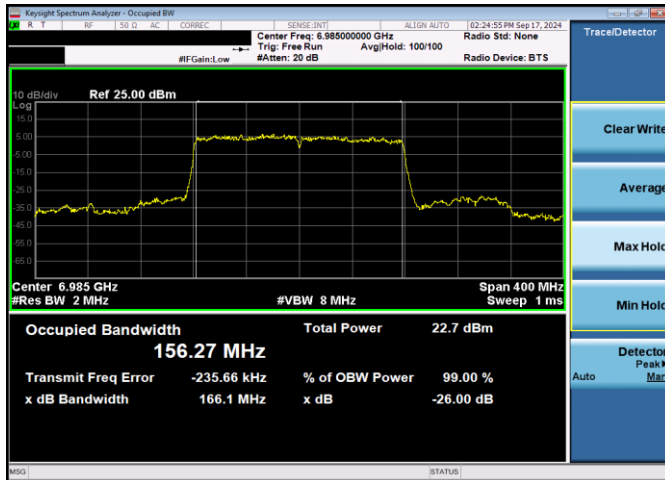


Plot 7-68. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (40MHz 802.11ax (UNII Band 8) – Ch. 211, MCS11)

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-13-R3.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 38 of 222

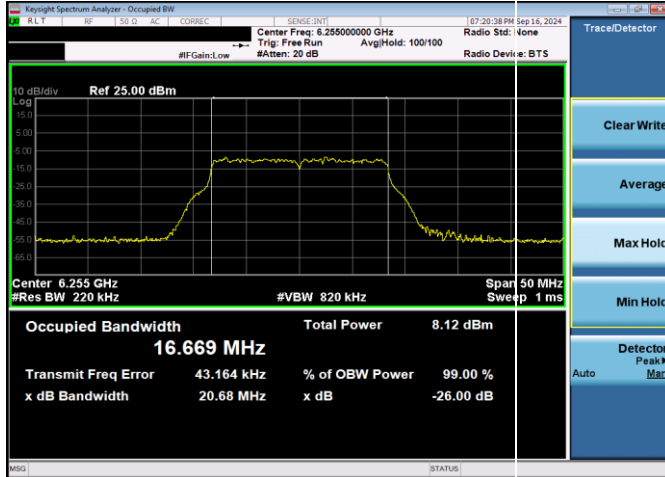


Plot 7-69. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (80MHz 802.11ax (UNII Band 8) – Ch. 199, MCS11)

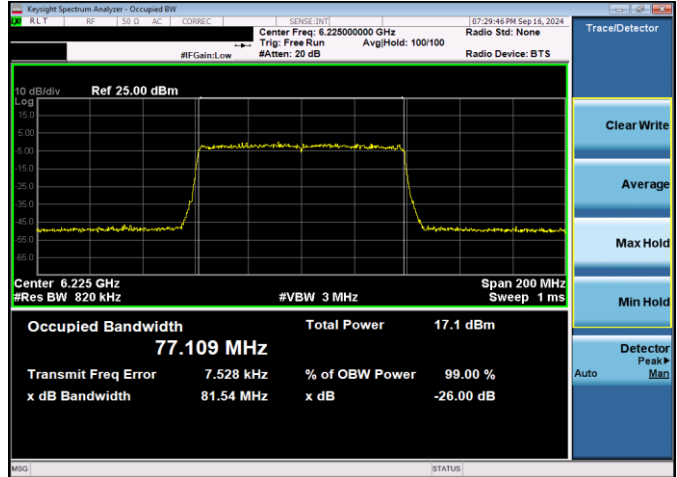


Plot 7-70. 26dB & 99% Bandwidth Plot Antenna WF2 LPI (160MHz 802.11ax (UNII Band 8) – Ch. 207, MCS11)

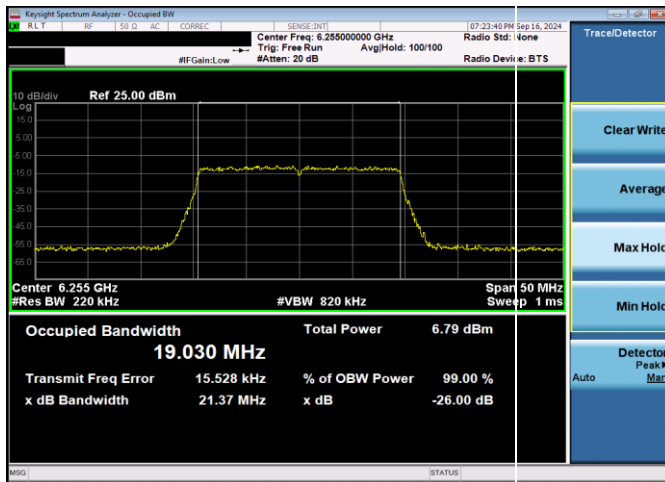
FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-13-R3.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 39 of 222



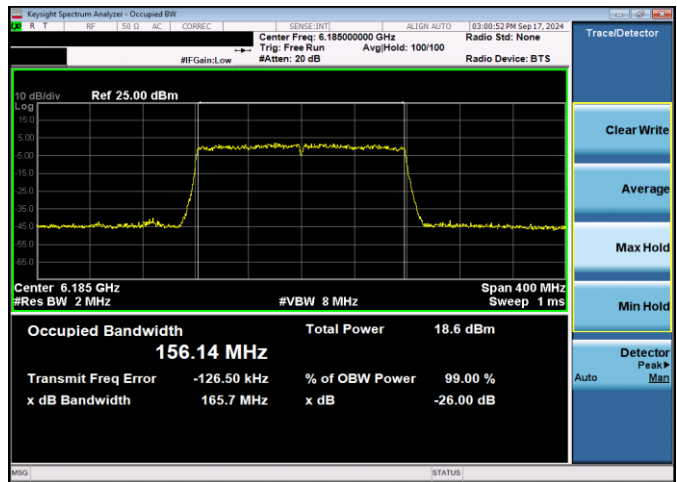
Plot 7-71. 26dB & 99% Bandwidth Plot Antenna WF2 VLP (20MHz 802.11a (UNII Band 5) – Ch. 33, 54Mbps)



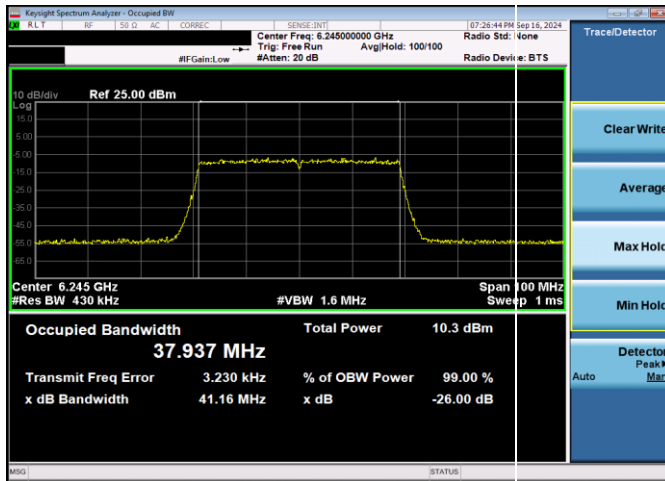
Plot 7-74. 26dB & 99% Bandwidth Plot Antenna WF2 VLP (80MHz 802.11ax (UNII Band 5) – Ch. 55, MCS11)



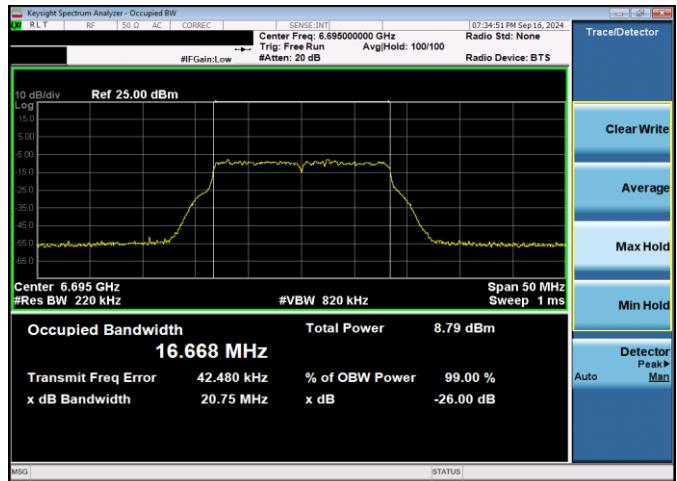
Plot 7-72. 26dB & 99% Bandwidth Plot Antenna WF2 VLP (20MHz 802.11ax (UNII Band 5) – Ch. 61, MCS11)



Plot 7-75. 26dB & 99% Bandwidth Plot Antenna WF2 VLP (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)

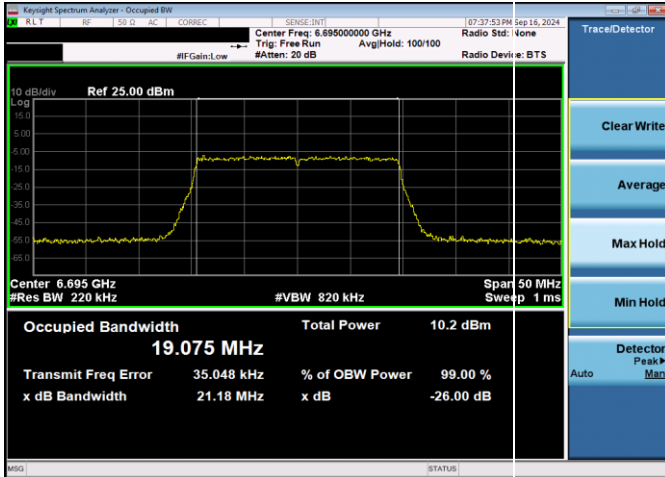


Plot 7-73. 26dB & 99% Bandwidth Plot Antenna WF2 VLP (40MHz 802.11ax (UNII Band 5) – Ch. 59, MCS11)

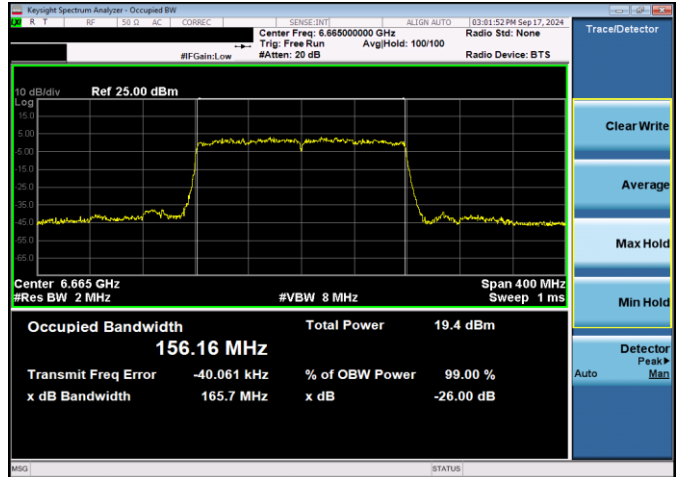


Plot 7-76. 26dB & 99% Bandwidth Plot Antenna WF2 VLP (20MHz 802.11a (UNII Band 7) – Ch. 149, 54Mbps)

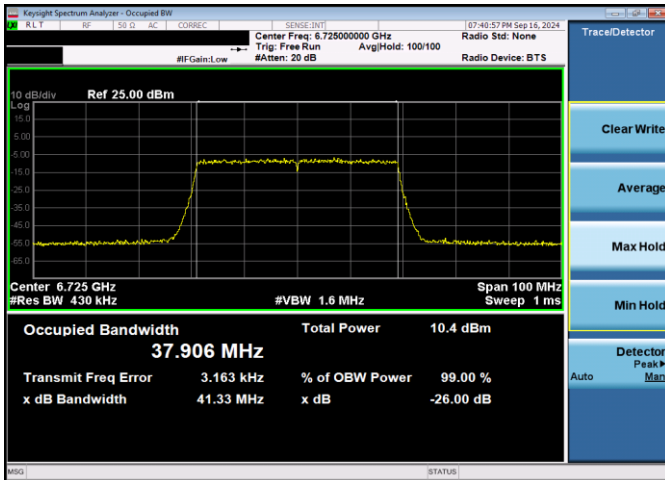
FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-13-R3.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 40 of 222



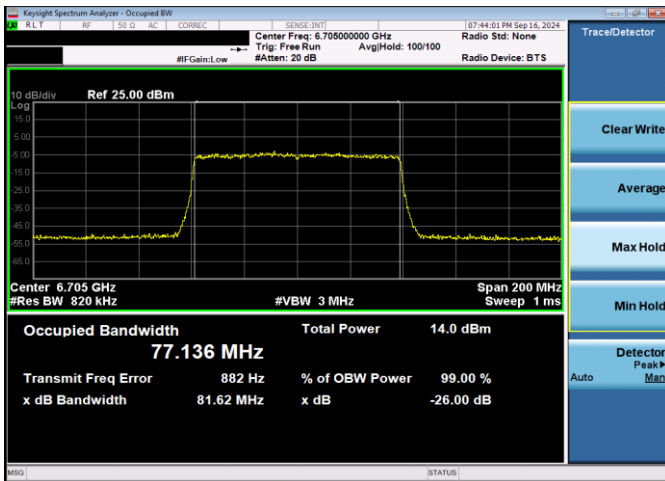
Plot 7-77. 26dB & 99% Bandwidth Plot Antenna WF2 VLP (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11



Plot 7-80. 26dB & 99% Bandwidth Plot Antenna WF2 VLP (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)



Plot 7-78. 26dB & 99% Bandwidth Plot Antenna WF2 VLP (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



Plot 7-79. 26dB & 99% Bandwidth Plot Antenna WF2 VLP (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-13-R3.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 41 of 222

7.3 Conducted Output Power and Max EIRP Measurement – 802.11a/ax(SU) §15.407(a)(7), 15.407(a)(8), 15.407(a)(9)

Test Overview and Limits

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter 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.

In the 5.925 – 7.125GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm for Standard Power mode (SP), 14dBm for Very Low Power (VLP), and 24dBm for Low Power Indoor mode (LPI).

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.3.2 Method PM-G
 KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G
 ANSI C63.10-2020 – Section 14.4 Measure-and-Sum Technique
 KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

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

None

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.3.1 Antenna WF5T Conducted Output Power Measurements

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
				5955	1				
6175	45	AVG	4.99	4.88	3.40	8.39	24.00	-15.61	
6415	93	AVG	4.72	4.98	3.40	8.38	24.00	-15.62	
6435	97	AVG	4.85	4.69	3.40	8.25	24.00	-15.75	
6475	105	AVG	4.73	4.62	3.40	8.13	24.00	-15.87	
6515	113	AVG	4.75	4.88	3.40	8.28	24.00	-15.72	
6535	117	AVG	4.99	4.75	3.20	8.19	24.00	-15.81	
6695	149	AVG	4.78	4.98	3.20	8.18	24.00	-15.82	
6875	185	AVG	4.76	4.83	3.20	8.03	24.00	-15.97	
6895	189	AVG	4.72	4.76	2.90	7.66	24.00	-16.34	
6995	209	AVG	4.81	4.83	2.90	7.73	24.00	-16.27	
7115	233	AVG	4.66	4.67	2.90	7.57	24.00	-16.43	

Table 7-8. Antenna WF5T 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – LPI

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]								
									5965	3	AVG	8.08	3.40	11.48	24.00	-12.52
									6165	43	AVG	7.90	3.40	11.30	24.00	-12.70
6405	91	AVG	7.96	3.40	11.36	24.00	-12.64									
6445	99	AVG	7.92	3.40	11.32	24.00	-12.68									
6485	107	AVG	7.99	3.40	11.39	24.00	-12.61									
6525	115	AVG	7.74	3.20	10.94	24.00	-13.06									
6565	123	AVG	7.83	3.20	11.03	24.00	-12.97									
6725	155	AVG	7.89	3.20	11.09	24.00	-12.91									
6845	179	AVG	7.93	3.20	11.13	24.00	-12.87									
6885	187	AVG	7.96	2.90	10.86	24.00	-13.14									
7005	211	AVG	7.98	2.90	10.88	24.00	-13.12									
7085	227	AVG	7.89	2.90	10.79	24.00	-13.21									

Table 7-9. Antenna WF5T 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – LPI

FCC ID: BCGA2993			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	11.00	3.40	14.40	24.00	-9.60
	6145	39	AVG	10.97	3.40	14.37	24.00	-9.63
	6385	87	AVG	10.83	3.40	14.23	24.00	-9.77
	6465	103	AVG	10.81	3.40	14.21	24.00	-9.79
	6545	119	AVG	10.67	3.20	13.87	24.00	-10.13
	6705	151	AVG	10.94	3.20	14.14	24.00	-9.86
	6865	183	AVG	10.95	3.20	14.15	24.00	-9.85
	6945	199	AVG	10.88	2.90	13.78	24.00	-10.22
	7025	215	AVG	10.74	2.90	13.64	24.00	-10.36

Table 7-10. Antenna WF5T 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – LPI

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	13.51	3.40	16.91	24.00	-7.09
	6185	47	AVG	13.10	3.40	16.50	24.00	-7.50
	6345	79	AVG	13.27	3.40	16.67	24.00	-7.33
	6505	111	AVG	13.50	3.40	16.90	24.00	-7.10
	6665	143	AVG	13.37	3.20	16.57	24.00	-7.43
	6825	175	AVG	13.27	3.20	16.47	24.00	-7.53
	6985	207	AVG	13.44	2.90	16.34	24.00	-7.66

Table 7-11. Antenna WF5T 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – LPI

FCC ID: BCGA2993	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200017-13-R3.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 44 of 222

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
				5955	1				
6175	45	AVG	18.54	18.73	3.40	22.13	30.00	-7.87	
6415	93	AVG	18.77	18.73	3.40	22.17	30.00	-7.83	
6535	117	AVG	18.78	18.65	3.20	21.98	30.00	-8.02	
6695	149	AVG	18.78	18.85	3.20	22.05	30.00	-7.95	
6855	181	AVG	18.96	18.73	3.20	22.16	30.00	-7.84	

Table 7-12. Antenna WF5T 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – SP

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	18.71	3.40	22.11	30.00	-7.89
	6165	43	AVG	18.73	3.40	22.13	30.00	-7.87
	6405	91	AVG	18.81	3.40	22.21	30.00	-7.79
	6565	123	AVG	18.89	3.20	22.09	30.00	-7.91
	6725	155	AVG	18.95	3.20	22.15	30.00	-7.85
	6845	179	AVG	18.71	3.20	21.91	30.00	-8.09

Table 7-13. Antenna WF5T 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – SP

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	18.60	3.40	22.00	30.00	-8.00
	6145	39	AVG	18.82	3.40	22.22	30.00	-7.78
	6385	87	AVG	18.88	3.40	22.28	30.00	-7.73
	6625	135	AVG	18.67	3.20	21.87	30.00	-8.14
	6705	151	AVG	18.95	3.20	22.15	30.00	-7.85
	6785	167	AVG	18.83	3.20	22.03	30.00	-7.97

Table 7-14. Antenna WF5T 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – SP

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	18.62	3.40	22.02	30.00	-7.98
	6185	47	AVG	18.88	3.40	22.28	30.00	-7.72
	6345	79	AVG	18.67	3.40	22.07	30.00	-7.94
	6665	143	AVG	18.75	3.20	21.95	30.00	-8.05

Table 7-15. Antenna WF5T 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – SP

FCC ID: BCGA2993			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
				6115	33				
6255	61	AVG	0.81	0.67	3.40	4.21	14.00	-9.79	
6415	93	AVG	0.71	0.73	3.40	4.13	14.00	-9.87	
6535	117	AVG	1.09	1.19	3.20	4.39	14.00	-9.62	
6695	149	AVG	0.82	1.22	3.20	4.42	14.00	-9.58	
6855	181	AVG	1.23	0.80	3.20	4.43	14.00	-9.57	

Table 7-16. Antenna WF5T 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – VLP

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6125	35	AVG	3.70	3.40	7.10	14.00	-6.90
	6245	59	AVG	3.63	3.40	7.03	14.00	-6.97
	6405	91	AVG	3.61	3.40	7.01	14.00	-6.99
	6565	123	AVG	3.94	3.20	7.14	14.00	-6.86
	6725	155	AVG	4.24	3.20	7.44	14.00	-6.56
	6845	179	AVG	4.19	3.20	7.39	14.00	-6.61

Table 7-17. Antenna WF5T 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – VLP

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6145	39	AVG	6.77	3.40	10.17	14.00	-3.83
	6225	55	AVG	6.77	3.40	10.17	14.00	-3.83
	6385	87	AVG	6.95	3.40	10.35	14.00	-3.65
	6625	135	AVG	6.99	3.20	10.19	14.00	-3.81
	6705	151	AVG	7.01	3.20	10.21	14.00	-3.79
	6785	167	AVG	6.99	3.20	10.19	14.00	-3.81

Table 7-18. Antenna WF5T 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6185	47	AVG	9.26	3.40	12.66	14.00	-1.34
	6345	79	AVG	9.24	3.40	12.64	14.00	-1.36
	6665	143	AVG	9.75	3.20	12.95	14.00	-1.05

Table 7-19. Antenna WF5T 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

FCC ID: BCGA2993			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-13-R3.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device		Page 46 of 222

7.3.2 Antenna WF2 Conducted Output Power Measurements

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
				5955	1				
6175	45	AVG	4.71	4.62	2.00	6.71	24.00	-17.29	
6415	93	AVG	4.72	4.86	2.00	6.86	24.00	-17.14	
6435	97	AVG	4.84	4.85	1.30	6.15	24.00	-17.85	
6475	105	AVG	4.66	4.74	1.30	6.04	24.00	-17.97	
6515	113	AVG	4.95	4.86	1.30	6.25	24.00	-17.75	
6535	117	AVG	4.94	4.81	1.80	6.74	24.00	-17.26	
6695	149	AVG	4.93	4.98	1.80	6.78	24.00	-17.22	
6875	185	AVG	4.94	4.97	1.80	6.77	24.00	-17.23	
6895	189	AVG	4.84	4.92	0.30	5.22	24.00	-18.78	
6995	209	AVG	4.93	4.74	0.30	5.23	24.00	-18.77	
7115	233	AVG	4.77	4.67	0.30	5.07	24.00	-18.93	

Table 7-20. Antenna WF2 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – LPI

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	7.86	2.00	9.86	24.00	-14.15
	6165	43	AVG	7.71	2.00	9.71	24.00	-14.30
	6405	91	AVG	7.95	2.00	9.95	24.00	-14.05
	6445	99	AVG	7.72	1.30	9.02	24.00	-14.99
	6485	107	AVG	7.80	1.30	9.10	24.00	-14.91
	6525	115	AVG	7.79	1.80	9.59	24.00	-14.41
	6565	123	AVG	7.97	1.80	9.77	24.00	-14.23
	6725	155	AVG	7.74	1.80	9.54	24.00	-14.46
	6845	179	AVG	7.84	1.80	9.64	24.00	-14.36
	6885	187	AVG	7.81	0.30	8.11	24.00	-15.89
	7005	211	AVG	7.76	0.30	8.06	24.00	-15.94
	7085	227	AVG	7.62	0.30	7.92	24.00	-16.08

Table 7-21. Antenna WF2 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – LPI

FCC ID: BCGA2993	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	11.18	2.00	13.18	24.00	-10.82
	6145	39	AVG	10.78	2.00	12.78	24.00	-11.22
	6385	87	AVG	10.68	2.00	12.68	24.00	-11.32
	6465	103	AVG	10.75	1.30	12.05	24.00	-11.95
	6545	119	AVG	10.80	1.80	12.60	24.00	-11.40
	6705	151	AVG	10.66	1.80	12.46	24.00	-11.54
	6865	183	AVG	10.69	1.80	12.49	24.00	-11.51
	6945	199	AVG	10.70	0.30	11.00	24.00	-13.00
	7025	215	AVG	10.93	0.30	11.23	24.00	-12.77

Table 7-22. Antenna WF2 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – LPI

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	13.42	2.00	15.42	24.00	-8.58
	6185	47	AVG	13.47	2.00	15.47	24.00	-8.54
	6345	79	AVG	13.28	2.00	15.28	24.00	-8.72
	6505	111	AVG	13.13	1.30	14.43	24.00	-9.57
	6665	143	AVG	13.45	1.80	15.25	24.00	-8.76
	6825	175	AVG	13.38	1.80	15.18	24.00	-8.82
	6985	207	AVG	13.32	0.30	13.62	24.00	-10.38

Table 7-23. Antenna WF2 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – LPI

FCC ID: BCGA2993	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
				5955	1				
6175	45	AVG	18.68	18.82	2.00	20.82	30.00	-9.18	
6415	93	AVG	18.92	18.97	2.00	20.97	30.00	-9.03	
6535	117	AVG	18.65	18.78	1.80	20.58	30.00	-9.43	
6695	149	AVG	18.83	18.74	1.80	20.63	30.00	-9.37	
6855	181	AVG	18.80	18.65	1.80	20.60	30.00	-9.40	

Table 7-24. Antenna WF2 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – SP

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5965	3	AVG	18.96	2.00	20.96	30.00	-9.04
	6165	43	AVG	18.80	2.00	20.80	30.00	-9.20
	6405	91	AVG	18.61	2.00	20.61	30.00	-9.39
	6565	123	AVG	18.73	1.80	20.53	30.00	-9.47
	6725	155	AVG	18.88	1.80	20.68	30.00	-9.32
	6845	179	AVG	18.81	1.80	20.61	30.00	-9.39

Table 7-25. Antenna WF2 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – SP

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5985	7	AVG	18.78	2.00	20.78	30.00	-9.22
	6145	39	AVG	18.93	2.00	20.93	30.00	-9.07
	6385	87	AVG	18.98	2.00	20.98	30.00	-9.02
	6625	135	AVG	18.69	1.80	20.49	30.00	-9.51
	6705	151	AVG	18.87	1.80	20.67	30.00	-9.33
	6785	167	AVG	18.61	1.80	20.41	30.00	-9.59

Table 7-26. Antenna WF2 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – SP

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6025	15	AVG	18.98	2.00	20.98	30.00	-9.02
	6185	47	AVG	18.63	2.00	20.63	30.00	-9.37
	6345	79	AVG	18.89	2.00	20.89	30.00	-9.11
	6665	143	AVG	18.91	1.80	20.71	30.00	-9.29

Table 7-27. Antenna WF2 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – SP

FCC ID: BCGA2993			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]		Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
				802.11a	802.11ax				
				6115	33				
6255	61	AVG	1.00	0.84	2.00	3.00	14.00	-11.00	
6415	93	AVG	0.35	0.88	2.00	2.88	14.00	-11.12	
6535	117	AVG	1.09	1.12	1.80	2.92	14.00	-11.08	
6695	149	AVG	0.88	0.97	1.80	2.77	14.00	-11.23	
6855	181	AVG	0.92	0.67	1.80	2.72	14.00	-11.28	

Table 7-28. Antenna WF2 20MHz BW 802.11a/ax(SU) (UNII) Maximum Conducted Output Power – VLP

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6125	35	AVG	3.85	2.00	5.85	14.00	-8.15
	6245	59	AVG	3.89	2.00	5.89	14.00	-8.11
	6405	91	AVG	3.83	2.00	5.83	14.00	-8.17
	6565	123	AVG	3.97	1.80	5.77	14.00	-8.23
	6725	155	AVG	4.17	1.80	5.97	14.00	-8.03
	6845	179	AVG	4.22	1.80	6.02	14.00	-7.98

Table 7-29. Antenna WF2 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power – VLP

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6145	39	AVG	6.60	2.00	8.60	14.00	-5.40
	6225	55	AVG	6.61	2.00	8.61	14.00	-5.39
	6385	87	AVG	6.97	2.00	8.97	14.00	-5.03
	6625	135	AVG	6.89	1.80	8.69	14.00	-5.31
	6705	151	AVG	7.15	1.80	8.95	14.00	-5.05
	6785	167	AVG	7.05	1.80	8.85	14.00	-5.15

Table 7-30. Antenna WF2 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Detector	Conducted Power [dBm]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	6185	47	AVG	9.13	2.00	11.13	14.00	-2.87
	6345	79	AVG	9.26	2.00	11.26	14.00	-2.74
	6665	143	AVG	9.64	1.80	11.44	14.00	-2.56

Table 7-31. Antenna WF2 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

FCC ID: BCGA2993			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.3.3 SDM/CDD Conducted Output Power Measurements

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
					5955	1	SDM				
6175	45	SDM	AVG	2.39	2.23	5.32	2.76	8.08	24.00	-15.92	
6415	93	SDM	AVG	2.80	2.80	5.81	2.76	8.57	24.00	-15.43	
6435	97	SDM	AVG	2.49	2.55	5.53	2.48	8.01	24.00	-15.99	
6475	105	SDM	AVG	2.47	2.45	5.47	2.48	7.95	24.00	-16.05	
6515	113	SDM	AVG	2.70	2.44	5.58	2.48	8.06	24.00	-15.94	
6535	117	SDM	AVG	2.44	2.42	5.44	2.56	8.00	24.00	-16.00	
6695	149	SDM	AVG	2.49	2.41	5.46	2.56	8.02	24.00	-15.98	
6875	185	SDM	AVG	2.59	2.37	5.49	2.56	8.05	24.00	-15.95	
6895	189	SDM	AVG	3.23	3.06	6.16	1.79	7.95	24.00	-16.05	
6995	209	SDM	AVG	3.04	3.00	6.03	1.79	7.82	24.00	-16.18	
7115	233	SDM	AVG	3.11	3.24	6.19	1.79	7.98	24.00	-16.02	

Table 7-32. SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – LPI

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
					5965	3	SDM				
6165	43	SDM	AVG	5.13	5.22	8.18	2.76	10.94	24.00	-13.06	
6405	91	SDM	AVG	5.94	5.95	8.96	2.76	11.72	24.00	-12.28	
6445	99	SDM	AVG	5.37	5.70	8.55	2.48	11.03	24.00	-12.97	
6485	107	SDM	AVG	5.57	5.64	8.61	2.48	11.09	24.00	-12.91	
6525	115	SDM	AVG	5.28	5.31	8.31	2.56	10.87	24.00	-13.13	
6565	123	SDM	AVG	5.44	5.42	8.44	2.56	11.00	24.00	-13.00	
6725	155	SDM	AVG	5.42	5.22	8.33	2.56	10.89	24.00	-13.11	
6845	179	SDM	AVG	5.43	5.31	8.38	2.56	10.94	24.00	-13.06	
6885	187	SDM	AVG	5.28	5.28	8.29	1.79	10.08	24.00	-13.92	
7005	211	SDM	AVG	5.90	6.24	9.08	1.79	10.87	24.00	-13.13	
7085	227	SDM	AVG	5.88	6.20	9.05	1.79	10.84	24.00	-13.16	

Table 7-33. SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – LPI

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
					5985	7	SDM				
6145	39	SDM	AVG	8.13	8.12	11.13	2.76	13.89	24.00	-10.11	
6385	87	SDM	AVG	8.63	8.65	11.65	2.76	14.41	24.00	-9.59	
6465	103	SDM	AVG	8.73	8.45	11.60	2.48	14.08	24.00	-9.92	
6545	119	SDM	AVG	8.27	8.26	11.27	2.56	13.83	24.00	-10.17	
6705	151	SDM	AVG	8.15	8.30	11.23	2.56	13.79	24.00	-10.21	
6865	183	SDM	AVG	8.20	8.30	11.26	2.56	13.82	24.00	-10.18	
6945	199	SDM	AVG	9.02	9.00	12.02	1.79	13.81	24.00	-10.19	
7025	215	SDM	AVG	8.88	9.20	12.05	1.79	13.84	24.00	-10.16	

Table 7-34. SDM 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – LPI

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
					6025	15	SDM				
6185	47	SDM	AVG	10.64	11.00	13.83	2.76	16.59	24.00	-7.41	
6345	79	SDM	AVG	11.41	11.18	14.31	2.76	17.07	24.00	-6.93	
6505	111	SDM	AVG	10.61	10.76	13.70	2.48	16.18	24.00	-7.82	
6665	143	SDM	AVG	10.62	10.79	13.72	2.56	16.28	24.00	-7.72	
6825	175	SDM	AVG	10.87	10.77	13.83	2.56	16.39	24.00	-7.61	
6985	207	SDM	AVG	11.64	11.64	14.65	1.79	16.44	24.00	-7.56	

Table 7-35. SDM 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – LPI

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6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
	5955	1	SDM	AVG	18.61	18.83	21.73	2.76	24.49	30.00	-5.51
	6175	45	SDM	AVG	18.62	18.62	21.63	2.76	24.39	30.00	-5.61
	6415	93	SDM	AVG	18.99	18.87	21.94	2.76	24.70	30.00	-5.30
	6535	117	SDM	AVG	18.90	18.89	21.91	2.56	24.47	30.00	-5.53
	6695	149	SDM	AVG	18.82	18.92	21.88	2.56	24.44	30.00	-5.56
	6855	181	SDM	AVG	18.72	18.97	21.86	2.56	24.42	30.00	-5.58

Table 7-36. SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – SP

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
	5965	3	CDD	AVG	18.91	18.81	21.87	3.40	25.27	30.00	-4.73
	6165	43	CDD	AVG	18.67	18.87	21.78	3.40	25.18	30.00	-4.82
	6405	91	CDD	AVG	18.88	19.00	21.95	3.40	25.35	30.00	-4.65
	6565	123	CDD	AVG	18.77	18.76	21.77	3.20	24.97	30.00	-5.03
	6725	155	CDD	AVG	18.80	18.66	21.74	3.20	24.94	30.00	-5.06
	6845	179	CDD	AVG	18.62	18.61	21.62	3.20	24.82	30.00	-5.18

Table 7-37. CDD 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – SP

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
	5985	7	CDD	AVG	18.73	18.67	21.71	3.40	25.11	30.00	-4.89
	6145	39	CDD	AVG	18.95	18.97	21.97	3.40	25.37	30.00	-4.63
	6385	87	CDD	AVG	18.98	18.67	21.84	3.40	25.24	30.00	-4.76
	6625	135	CDD	AVG	18.67	18.77	21.73	3.20	24.93	30.00	-5.07
	6705	151	CDD	AVG	18.88	18.95	21.92	3.20	25.12	30.00	-4.88
	6785	167	CDD	AVG	18.87	18.70	21.80	3.20	25.00	30.00	-5.00

Table 7-38. CDD 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – SP

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
	6025	15	CDD	AVG	18.55	18.60	21.58	3.40	24.98	30.00	-5.02
	6185	47	CDD	AVG	18.73	18.64	21.69	3.40	25.09	30.00	-4.91
	6345	79	CDD	AVG	18.87	18.78	21.84	3.40	25.24	30.00	-4.76
	6665	143	CDD	AVG	18.63	18.63	21.64	3.20	24.84	30.00	-5.16

Table 7-39. CDD 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – SP

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6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
					6115	33	SDM				
6255	61	SDM	AVG	-1.25	-1.46	1.65	2.76	4.41	14.00	-9.59	
6415	93	SDM	AVG	-0.99	-0.86	2.09	2.76	4.85	14.00	-9.15	
6535	117	SDM	AVG	-1.65	-1.33	1.52	2.56	4.08	14.00	-9.92	
6695	149	SDM	AVG	-1.64	-1.56	1.41	2.56	3.97	14.00	-10.03	
6855	181	SDM	AVG	-1.68	-1.37	1.49	2.56	4.05	14.00	-9.95	

Table 7-40. SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
					6125	35	SDM				
6245	59	SDM	AVG	1.35	1.73	4.55	2.76	7.31	14.00	-6.69	
6405	91	SDM	AVG	2.24	1.89	5.08	2.76	7.84	14.00	-6.16	
6565	123	SDM	AVG	1.64	1.62	4.64	2.56	7.20	14.00	-6.80	
6725	155	SDM	AVG	1.62	1.59	4.61	2.56	7.17	14.00	-6.83	
6845	179	SDM	AVG	1.50	1.38	4.45	2.56	7.01	14.00	-6.99	

Table 7-41. SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
					6145	39	SDM				
6225	55	SDM	AVG	4.72	4.70	7.72	2.76	10.48	14.00	-3.52	
6385	87	SDM	AVG	5.05	5.04	8.05	2.76	10.81	14.00	-3.19	
6625	135	SDM	AVG	4.66	4.50	7.59	2.56	10.15	14.00	-3.85	
6705	151	SDM	AVG	4.57	4.56	7.57	2.56	10.13	14.00	-3.87	
6785	167	SDM	AVG	4.59	4.49	7.55	2.56	10.11	14.00	-3.89	

Table 7-42. SDM 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna WF5T	Antenna WF2	Summed				
					6185	47	SDM				
6345	79	SDM	AVG	7.17	7.09	10.14	2.76	12.90	14.00	-1.10	
6665	143	SDM	AVG	6.96	7.09	10.04	2.56	12.60	14.00	-1.40	

Table 7-43. SDM 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power – VLP

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Notes:

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E1), the conducted powers at Antenna WF5T and Antenna WF2 were first measured separately during SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2020 Section 14.6.3, the uncorrelated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}] \text{ dBi}$$

Sample CDD/SDM Calculation:

At 5955MHz in 802.11ax (20MHz BW) mode, the average conducted output power was measured to be 2.70 dBm for Antenna WF5T and 2.59 dBm for Antenna WF2.

$$\text{Antenna WF5T} + \text{Antenna WF2} = \text{CDD/SDM}$$

$$(2.70 \text{ dBm} + 2.59 \text{ dBm}) = (1.862 \text{ mW} + 1.816 \text{ mW}) = 3.678 \text{ mW} = 5.66 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5955MHz in 802.11ax (20MHz BW) mode, the average SDM conducted power was calculated to be 5.66 dBm with directional gain of 2.76 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$5.66 \text{ dBm} + 2.76 \text{ dBi} = 8.42 \text{ dBm}$$

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7.4 Maximum Power Spectral Density – 802.11a/ax(SU) §15.407(a)(7), 15.407(a)(8), 15.407(a)(9)

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was 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. Method SA-1, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.925 – 7.125GHz band, the maximum permissible power spectral density must not exceed -1dBm e.i.r.p. in any 1-megahertz band for Low Power Indoor operating modes.

In the 5.925 – 6.425GHz & 6.525 – 6875GHz bands, the maximum permissible power spectral density must not exceed 17dBm e.i.r.p. in any 1-megahertz band for Standard Power operating modes.

In the 5.925 – 6.425GHz & 6.525 – 6875GHz bands, the maximum permissible power spectral density must not exceed -5dBm e.i.r.p. in any 1-megahertz band for Very Low Power operating modes.

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.2
KDB 789033 D02 v02r01 – Section F
ANSI C63.10-2020 – Section 14.5.2.2 Measure-and-Sum Technique
KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span}/\text{RBW})$
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. All data rates have been investigated and only the worst case data rate per mode is reported.
2. Low, mid, and high channels were tested and tabular data has been reported. Only mid channel psd plots have been reported.

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V 10.50.40 12/15/2021

7.4.1 Antenna WF5T Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	54	-5.25	3.40	-1.85	-1	-0.85
	6175	45	a	54	-5.41	3.40	-2.01	-1	-1.01
	6415	93	a	54	-5.62	3.40	-2.22	-1	-1.22
	5955	1	ax (20MHz)	135/143.4 (MCS11)	-5.48	3.40	-2.08	-1	-1.08
	6175	45	ax (20MHz)	135/143.4 (MCS11)	-6.25	3.40	-2.85	-1	-1.85
	6415	93	ax (20MHz)	135/143.4 (MCS11)	-6.05	3.40	-2.65	-1	-1.65
	5965	3	ax (40MHz)	271/286.8 (MCS11)	-5.61	3.40	-2.21	-1	-1.21
	6165	43	ax (40MHz)	271/286.8 (MCS11)	-5.88	3.40	-2.48	-1	-1.48
	6405	91	ax (40MHz)	271/286.8 (MCS11)	-5.79	3.40	-2.39	-1	-1.39
	5985	7	ax (80MHz)	567/600.5 (MCS11)	-5.30	3.40	-1.90	-1	-0.90
	6145	39	ax (80MHz)	567/600.5 (MCS11)	-5.87	3.40	-2.47	-1	-1.47
	6385	87	ax (80MHz)	567/600.5 (MCS11)	-5.32	3.40	-1.92	-1	-0.92
	6025	15	ax (160MHz)	1020.8/1201 (MCS11)	-4.89	3.40	-1.49	-1	-0.49
	6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-5.80	3.40	-2.40	-1	-1.40
6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-5.91	3.40	-2.51	-1	-1.51	
Band 6	6435	97	a	54	-5.61	3.40	-2.21	-1	-1.21
	6475	105	a	54	-5.85	3.40	-2.45	-1	-1.45
	6515	113	a	54	-5.37	3.40	-1.97	-1	-0.97
	6435	97	ax (20MHz)	135/143.4 (MCS11)	-5.99	3.40	-2.59	-1	-1.59
	6475	105	ax (20MHz)	135/143.4 (MCS11)	-6.21	3.40	-2.81	-1	-1.81
	6515	113	ax (20MHz)	135/143.4 (MCS11)	-5.97	3.40	-2.57	-1	-1.57
	6445	99	ax (40MHz)	271/286.8 (MCS11)	-5.77	3.40	-2.37	-1	-1.37
	6485	107	ax (40MHz)	271/286.8 (MCS11)	-5.87	3.40	-2.47	-1	-1.47
	6525	115	ax (40MHz)	271/286.8 (MCS11)	-5.85	3.40	-2.45	-1	-1.45
	6465	103	ax (80MHz)	567/600.5 (MCS11)	-5.77	3.40	-2.37	-1	-1.37
	6505	111	ax (160MHz)	1020.8/1201 (MCS11)	-5.85	3.40	-2.45	-1	-1.45
Band 7	6535	117	a	54	-5.15	3.20	-1.95	-1	-0.95
	6695	149	a	54	-5.41	3.20	-2.21	-1	-1.21
	6875	185	a	54	-5.64	3.20	-2.44	-1	-1.44
	6535	117	ax (20MHz)	135/143.4 (MCS11)	-5.96	3.20	-2.76	-1	-1.76
	6695	149	ax (20MHz)	135/143.4 (MCS11)	-5.77	3.20	-2.57	-1	-1.57
	6875	185	ax (20MHz)	135/143.4 (MCS11)	-6.03	3.20	-2.83	-1	-1.83
	6565	123	ax (40MHz)	271/286.8 (MCS11)	-5.58	3.20	-2.38	-1	-1.38
	6725	155	ax (40MHz)	271/286.8 (MCS11)	-5.62	3.20	-2.42	-1	-1.42
	6845	179	ax (40MHz)	271/286.8 (MCS11)	-5.58	3.20	-2.38	-1	-1.38
	6545	119	ax (80MHz)	567/600.5 (MCS11)	-5.74	3.20	-2.54	-1	-1.54
	6705	151	ax (80MHz)	567/600.5 (MCS11)	-5.26	3.20	-2.06	-1	-1.06
	6865	183	ax (80MHz)	567/600.5 (MCS11)	-5.28	3.20	-2.08	-1	-1.08
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-5.56	3.20	-2.36	-1	-1.36
	6825	175	ax (160MHz)	1020.8/1201 (MCS11)	-5.38	3.20	-2.18	-1	-1.18
Band 8	6895	189	a	54	-5.51	2.90	-2.61	-1	-1.61
	6995	209	a	54	-5.31	2.90	-2.41	-1	-1.41
	7115	233	a	54	-5.55	2.90	-2.65	-1	-1.65
	6895	189	ax (20MHz)	135/143.4 (MCS11)	-5.87	2.90	-2.97	-1	-1.97
	6995	209	ax (20MHz)	135/143.4 (MCS11)	-6.00	2.90	-3.10	-1	-2.10
	7115	233	ax (20MHz)	135/143.4 (MCS11)	-5.94	2.90	-3.04	-1	-2.04
	6885	187	ax (40MHz)	271/286.8 (MCS11)	-5.86	2.90	-2.96	-1	-1.96
	7005	211	ax (40MHz)	271/286.8 (MCS11)	-5.51	2.90	-2.61	-1	-1.61
	7085	227	ax (40MHz)	271/286.8 (MCS11)	-5.84	2.90	-2.94	-1	-1.94
	6945	199	ax (80MHz)	567/600.5 (MCS11)	-5.27	2.90	-2.37	-1	-1.37
	7025	215	ax (80MHz)	567/600.5 (MCS11)	-5.85	2.90	-2.95	-1	-1.95
	6985	207	ax (160MHz)	1020.8/1201 (MCS11)	-5.66	2.90	-2.76	-1	-1.76

Table 7-44. Power Spectral Density Measurements Antenna WF5T LPI

FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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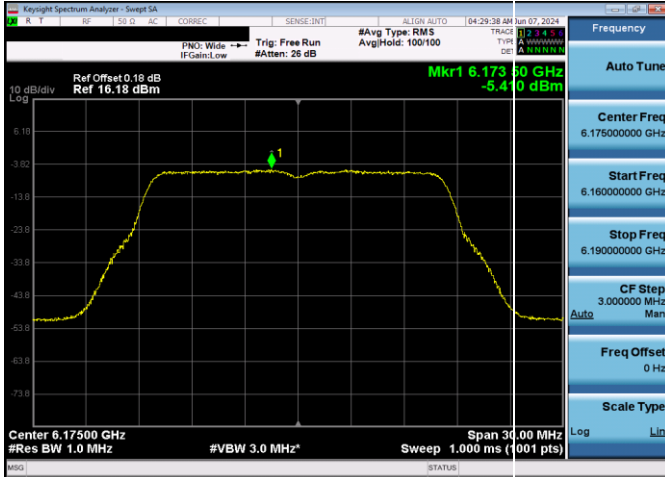
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [MHz]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	a	54	8.31	3.40	11.71	17	-5.30
	6175	45	a	54	7.89	3.40	11.29	17	-5.71
	6415	93	a	54	8.17	3.40	11.57	17	-5.43
	5955	1	ax (20MHz)	135/143.4 (MCS11)	7.78	3.40	11.18	17	-5.82
	6175	45	ax (20MHz)	135/143.4 (MCS11)	7.57	3.40	10.97	17	-6.03
	6415	93	ax (20MHz)	135/143.4 (MCS11)	7.84	3.40	11.24	17	-5.76
	5965	3	ax (40MHz)	271/286.8 (MCS11)	4.70	3.40	8.10	17	-8.90
	6165	43	ax (40MHz)	271/286.8 (MCS11)	4.63	3.40	8.03	17	-8.97
	6405	91	ax (40MHz)	271/286.8 (MCS11)	4.87	3.40	8.27	17	-8.73
	5985	7	ax (80MHz)	567/600.5 (MCS11)	2.06	3.40	5.46	17	-11.54
	6145	39	ax (80MHz)	567/600.5 (MCS11)	2.09	3.40	5.49	17	-11.51
	6385	87	ax (80MHz)	567/600.5 (MCS11)	2.48	3.40	5.88	17	-11.12
	6025	15	ax (160MHz)	1020.8/1201 (MCS11)	-0.62	3.40	2.78	17	-14.22
6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-0.37	3.40	3.03	17	-13.97	
6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-0.30	3.40	3.10	17	-13.90	
Band 7	6535	117	a	54	8.48	3.20	11.68	17	-5.32
	6695	149	a	54	8.73	3.20	11.93	17	-5.07
	6855	181	a	54	8.91	3.20	12.11	17	-4.89
	6535	117	ax (20MHz)	135/143.4 (MCS11)	7.68	3.20	10.88	17	-6.12
	6695	149	ax (20MHz)	135/143.4 (MCS11)	8.18	3.20	11.38	17	-5.62
	6855	181	ax (20MHz)	135/143.4 (MCS11)	7.99	3.20	11.19	17	-5.82
	6565	123	ax (40MHz)	271/286.8 (MCS11)	5.10	3.20	8.30	17	-8.70
	6725	155	ax (40MHz)	271/286.8 (MCS11)	5.57	3.20	8.77	17	-8.23
	6845	179	ax (40MHz)	271/286.8 (MCS11)	5.05	3.20	8.25	17	-8.75
	6625	135	ax (80MHz)	567/600.5 (MCS11)	2.23	3.20	5.43	17	-11.57
	6705	151	ax (80MHz)	567/600.5 (MCS11)	2.92	3.20	6.12	17	-10.88
	6785	167	ax (80MHz)	567/600.5 (MCS11)	2.65	3.20	5.85	17	-11.15
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-0.16	3.20	3.04	17	-13.96

Table 7-45. Power Spectral Density Measurements Antenna WF5T SP

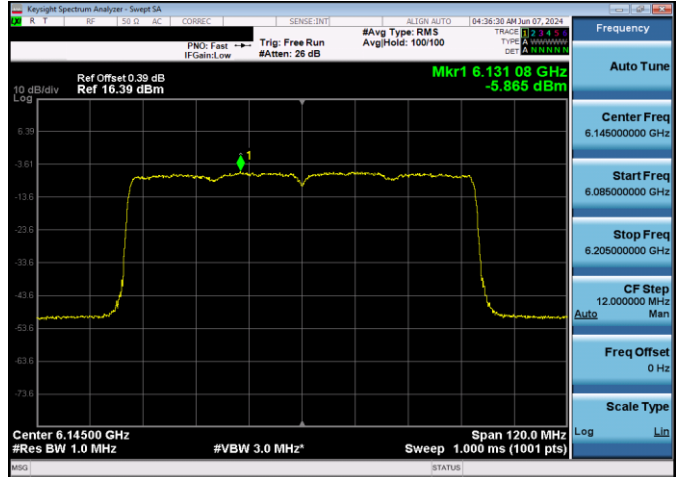
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [MHz]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	a	54	-9.87	3.40	-6.47	-5	-1.47
	6255	61	a	54	-10.19	3.40	-6.79	-5	-1.79
	6415	93	a	54	-10.12	3.40	-6.72	-5	-1.72
	6115	33	ax (20MHz)	135/143.4 (MCS11)	-10.58	3.40	-7.18	-5	-2.18
	6255	61	ax (20MHz)	135/143.4 (MCS11)	-10.60	3.40	-7.20	-5	-2.20
	6415	93	ax (20MHz)	135/143.4 (MCS11)	-10.67	3.40	-7.27	-5	-2.27
	6125	35	ax (40MHz)	271/286.8 (MCS11)	-10.28	3.40	-6.88	-5	-1.88
	6245	59	ax (40MHz)	271/286.8 (MCS11)	-10.61	3.40	-7.21	-5	-2.21
	6405	91	ax (40MHz)	271/286.8 (MCS11)	-10.29	3.40	-6.89	-5	-1.89
	6145	39	ax (80MHz)	567/600.5 (MCS11)	-10.31	3.40	-6.91	-5	-1.91
	6225	55	ax (80MHz)	567/600.5 (MCS11)	-10.04	3.40	-6.64	-5	-1.64
	6385	87	ax (80MHz)	567/600.5 (MCS11)	-9.07	3.40	-5.67	-5	-0.67
	6185	47	ax (160MHz)	1020.8/1201 (MCS11)	-10.34	3.40	-6.94	-5	-1.94
6345	79	ax (160MHz)	1020.8/1201 (MCS11)	-10.26	3.40	-6.86	-5	-1.86	
Band 7	6535	117	a	54	-9.63	3.20	-6.43	-5	-1.43
	6695	149	a	54	-9.27	3.20	-6.07	-5	-1.07
	6855	181	a	54	-8.69	3.20	-5.49	-5	-0.49
	6535	117	ax (20MHz)	135/143.4 (MCS11)	-9.40	3.20	-6.20	-5	-1.20
	6695	149	ax (20MHz)	135/143.4 (MCS11)	-9.19	3.20	-5.99	-5	-0.99
	6855	181	ax (20MHz)	135/143.4 (MCS11)	-9.84	3.20	-6.64	-5	-1.64
	6565	123	ax (40MHz)	271/286.8 (MCS11)	-9.82	3.20	-6.62	-5	-1.62
	6725	155	ax (40MHz)	271/286.8 (MCS11)	-9.17	3.20	-5.97	-5	-0.97
	6845	179	ax (40MHz)	271/286.8 (MCS11)	-9.22	3.20	-6.02	-5	-1.02
	6625	135	ax (80MHz)	567/600.5 (MCS11)	-9.29	3.20	-6.09	-5	-1.09
	6705	151	ax (80MHz)	567/600.5 (MCS11)	-9.30	3.20	-6.10	-5	-1.10
	6785	167	ax (80MHz)	567/600.5 (MCS11)	-8.96	3.20	-5.76	-5	-0.76
	6665	143	ax (160MHz)	1020.8/1201 (MCS11)	-9.38	3.20	-6.18	-5	-1.18

Table 7-46. Power Spectral Density Measurements Antenna WF5T VLP

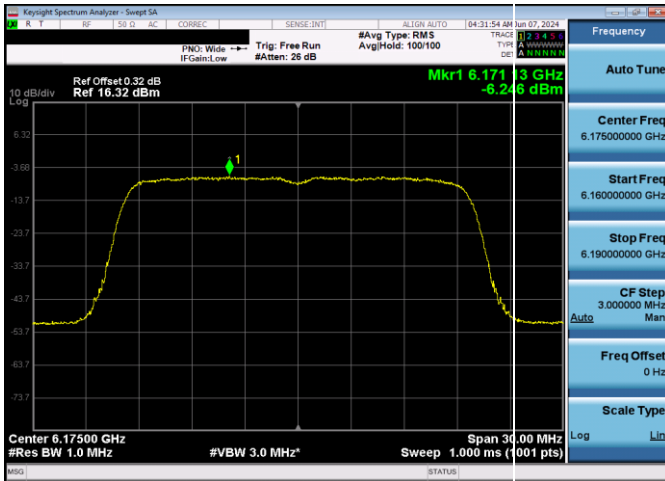
FCC ID: BCGA2993			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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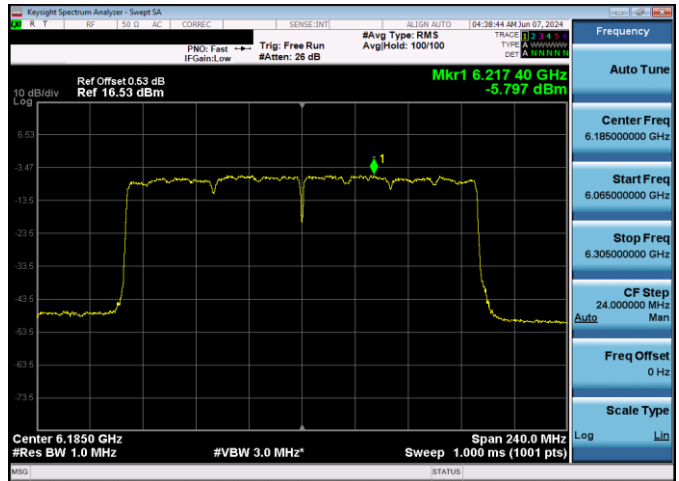
Plot 7-81. Power Spectral Density Plot Antenna WF5T LPI (20MHz 802.11a (UNII Band 5) – Ch. 45, 54Mbps)



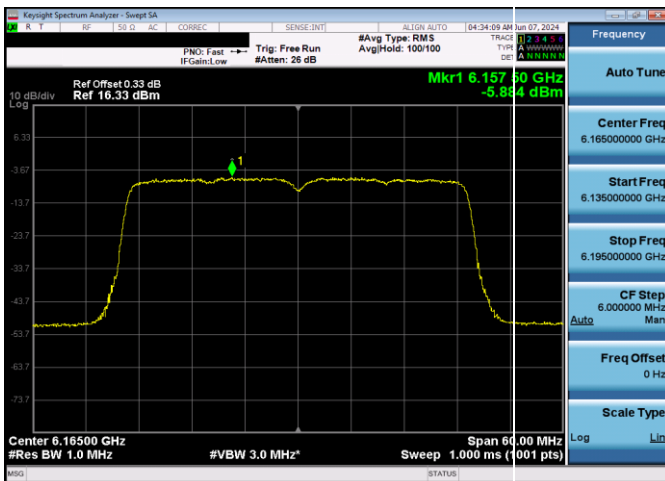
Plot 7-84. Power Spectral Density Plot Antenna WF5T LPI (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS11)



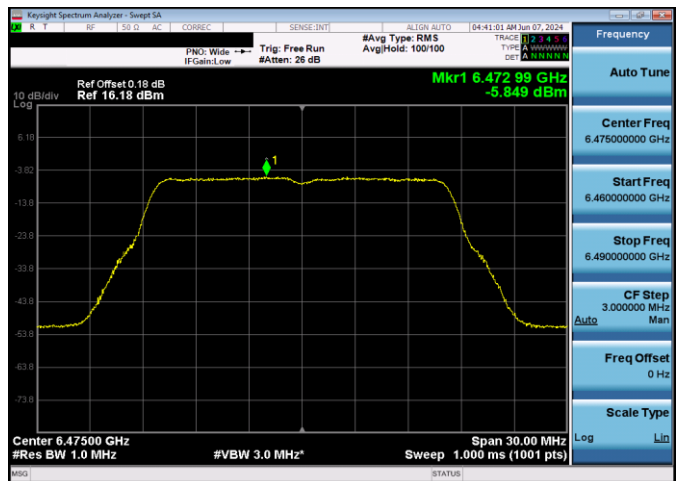
Plot 7-82. Power Spectral Density Plot Antenna WF5T LPI (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS11)



Plot 7-85. Power Spectral Density Plot Antenna WF5T LPI (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)

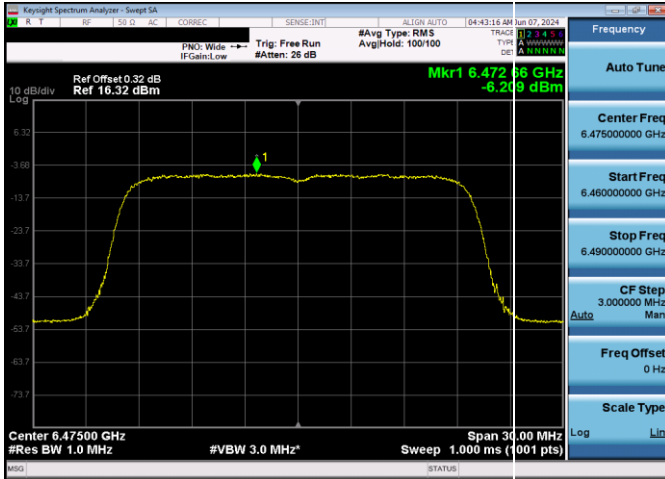


Plot 7-83. Power Spectral Density Plot Antenna WF5T LPI (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS11)

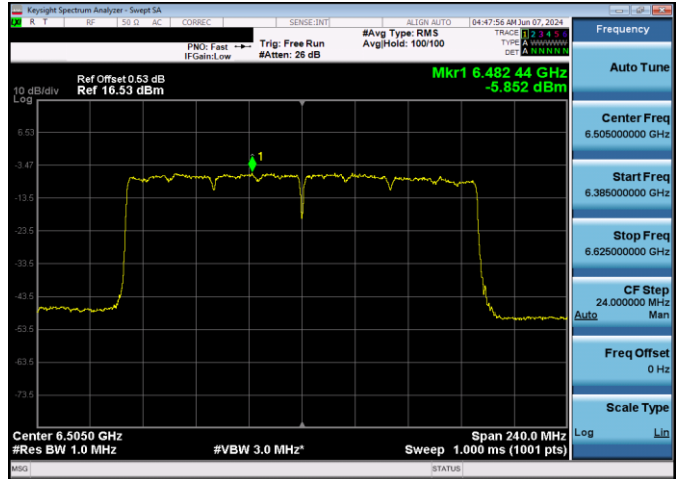


Plot 7-86. Power Spectral Density Plot Antenna WF5T LPI (20MHz 802.11a (UNII Band 6) – Ch. 105, 54Mbps)

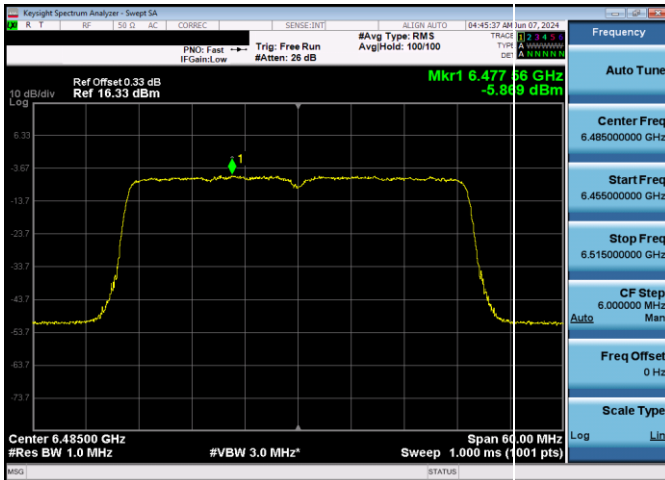
FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-13-R3.BCG	Test Dates: 5/20/2024 - 10/1/2024	EUT Type: Tablet Device	Page 58 of 222



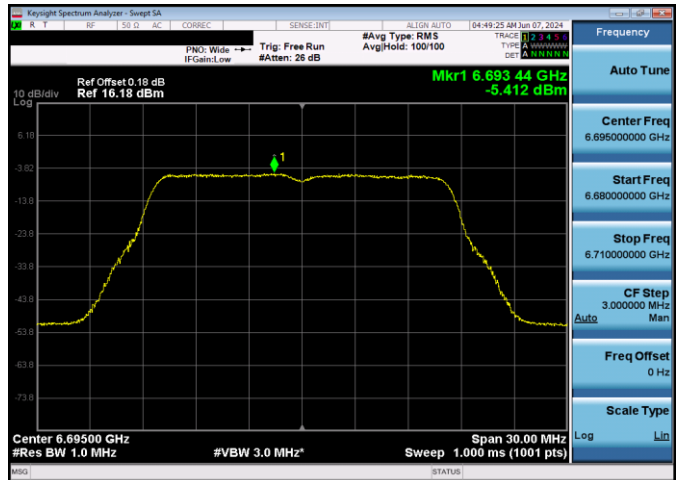
Plot 7-87. Power Spectral Density Plot Antenna WF5T LPI (20MHz 802.11ax (UNII Band 6) – Ch. 105, MCS11)



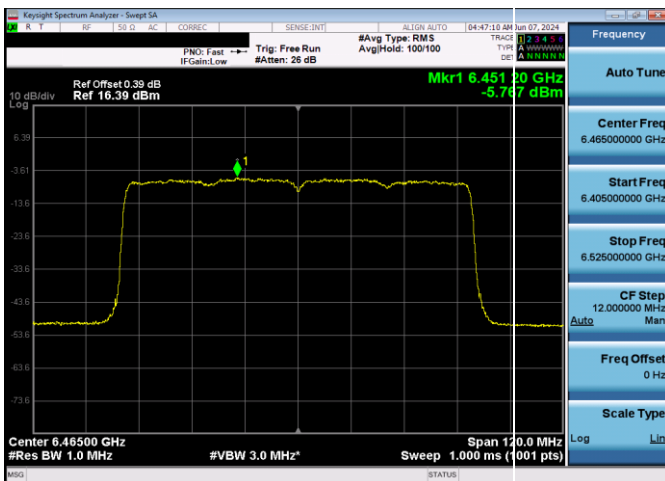
Plot 7-90. Power Spectral Density Plot Antenna WF5T LPI (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS11)



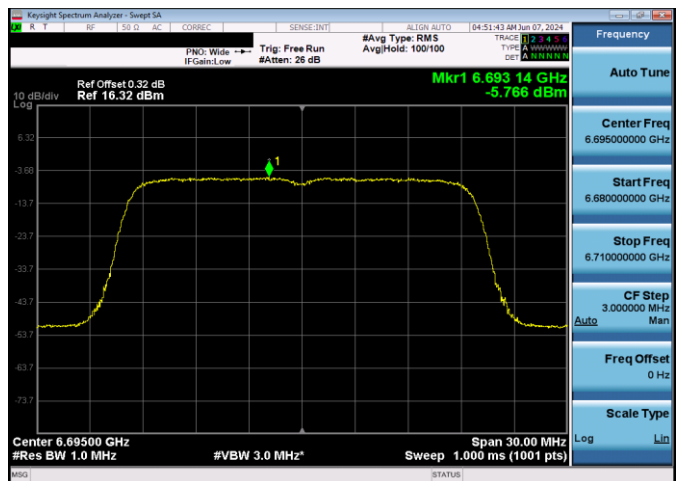
Plot 7-88. Power Spectral Density Plot Antenna WF5T LPI (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS11)



Plot 7-91. Power Spectral Density Plot Antenna WF5T LPI (20MHz 802.11a (UNII Band 7) – Ch. 149, 54Mbps)

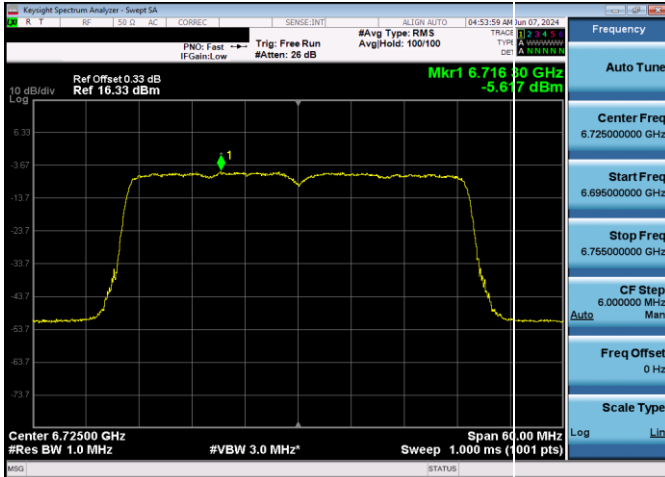


Plot 7-89. Power Spectral Density Plot Antenna WF5T LPI (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS11)

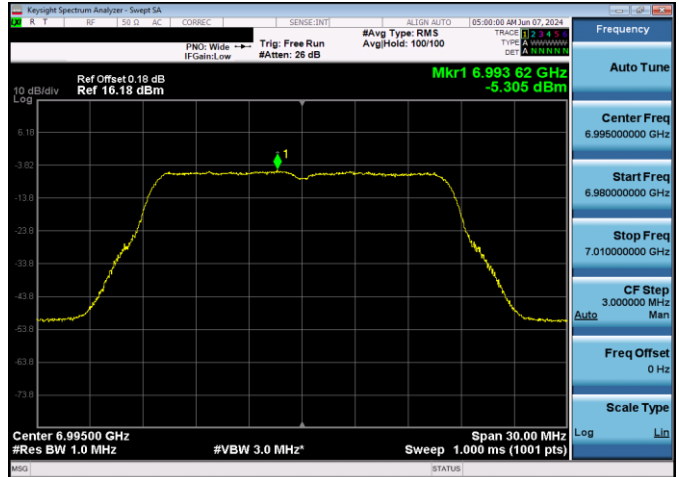


Plot 7-92. Power Spectral Density Plot Antenna WF5T LPI (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)

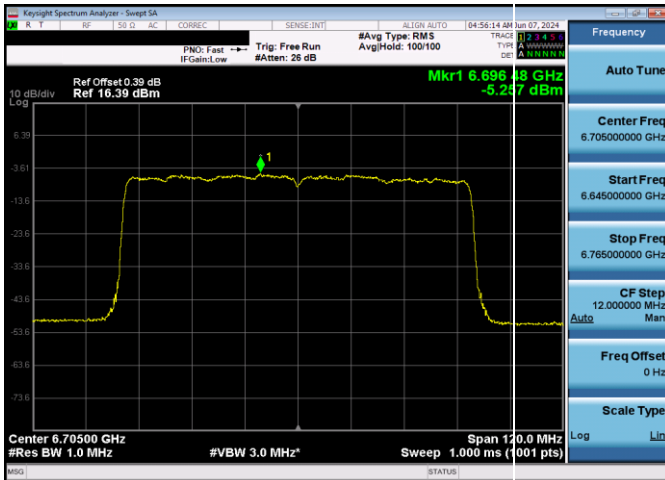
FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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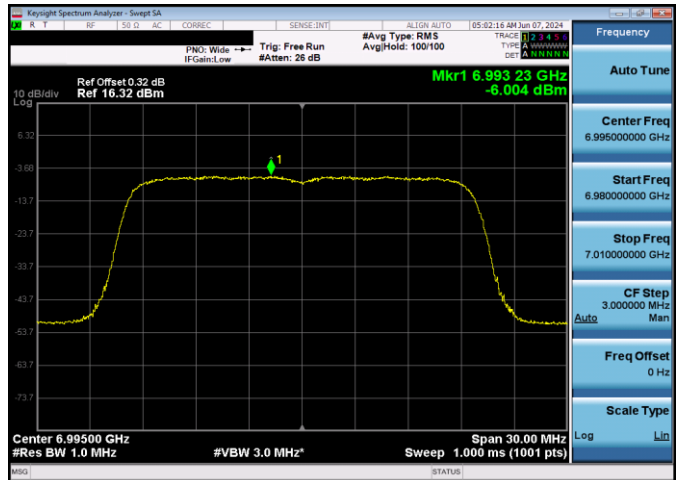
Plot 7-93. Power Spectral Density Plot Antenna WF5T LPI (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



Plot 7-96. Power Spectral Density Plot Antenna WF5T LPI (20MHz 802.11a (UNII Band 8) – Ch. 209, 54Mbps)



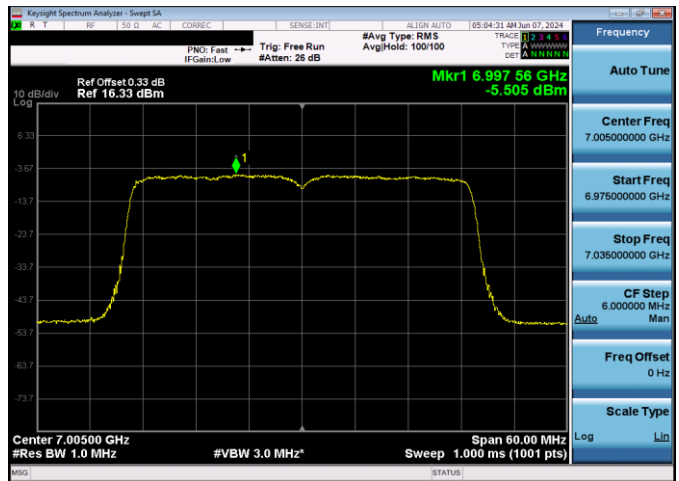
Plot 7-94. Power Spectral Density Plot Antenna WF5T LPI (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



Plot 7-97. Power Spectral Density Plot Antenna WF5T LPI (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS11)

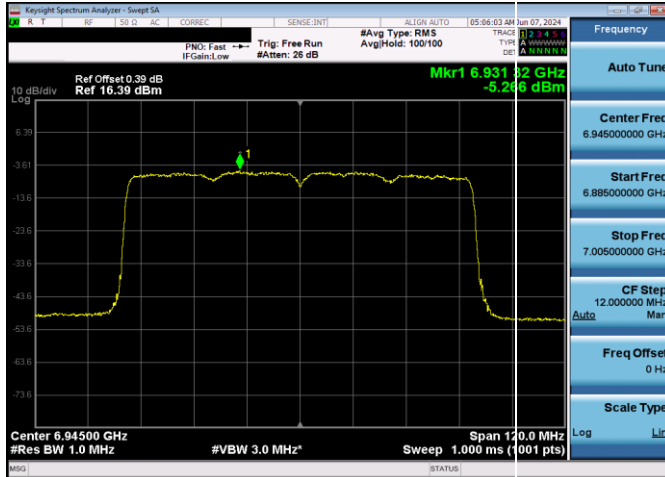


Plot 7-95. Power Spectral Density Plot Antenna WF5T LPI (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)

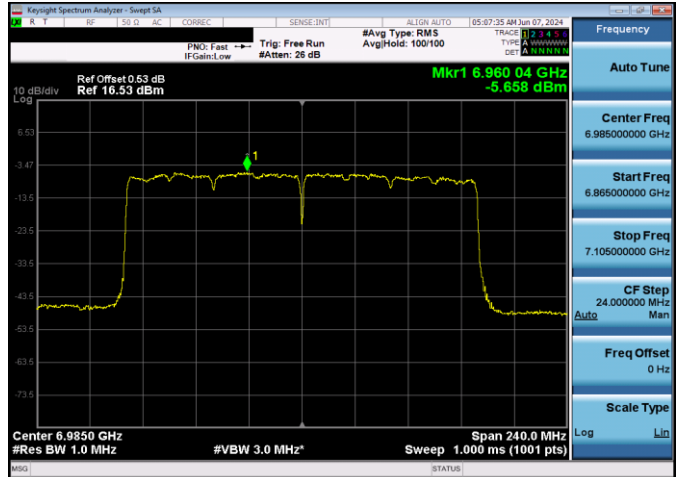


Plot 7-98. Power Spectral Density Plot Antenna WF5T LPI (40MHz 802.11ax (UNII Band 8) – Ch. 211, MCS11)

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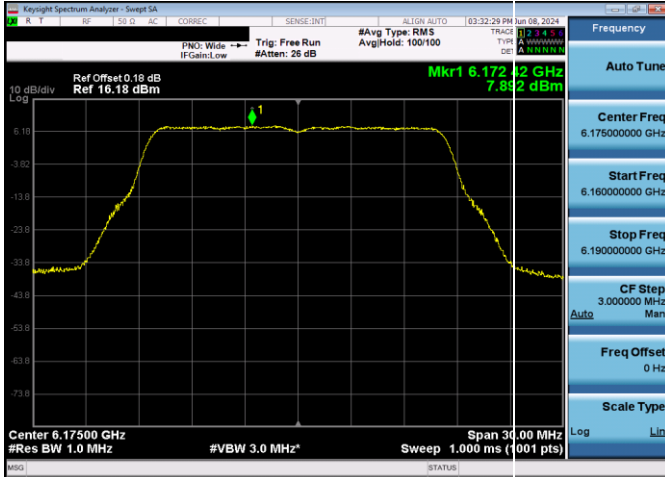


Plot 7-99. Power Spectral Density Plot Antenna WF5T LPI (80MHz 802.11ax (UNII Band 8) – Ch. 199, MCS11)

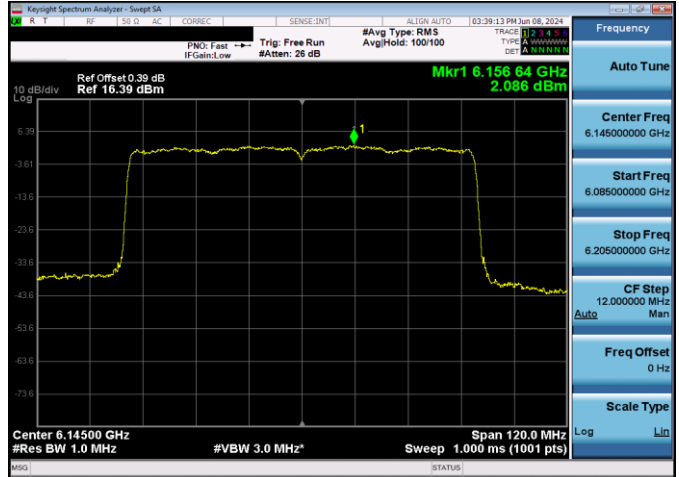


Plot 7-100. Power Spectral Density Plot Antenna WF5T LPI (160MHz 802.11ax (UNII Band 8) – Ch. 207, MCS11)

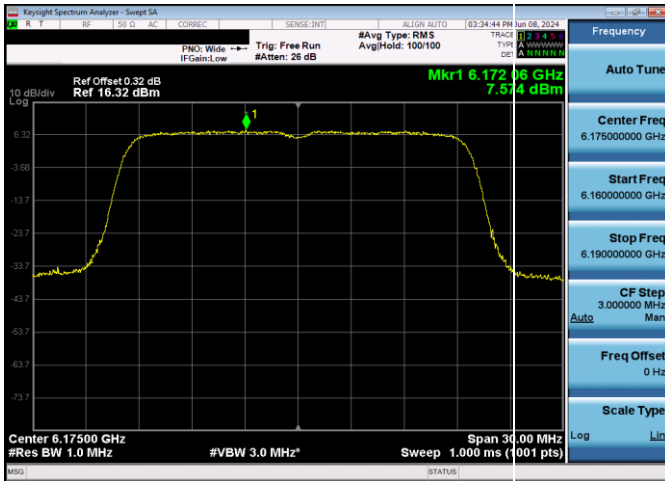
FCC ID: BCGA2993	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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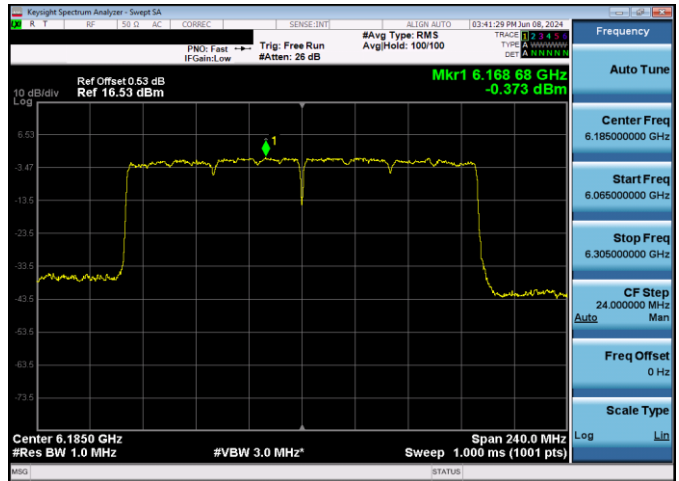
Plot 7-101. Power Spectral Density Plot Antenna WF5T SP (20MHz 802.11a (UNII Band 5) – Ch. 45, 54Mbps)



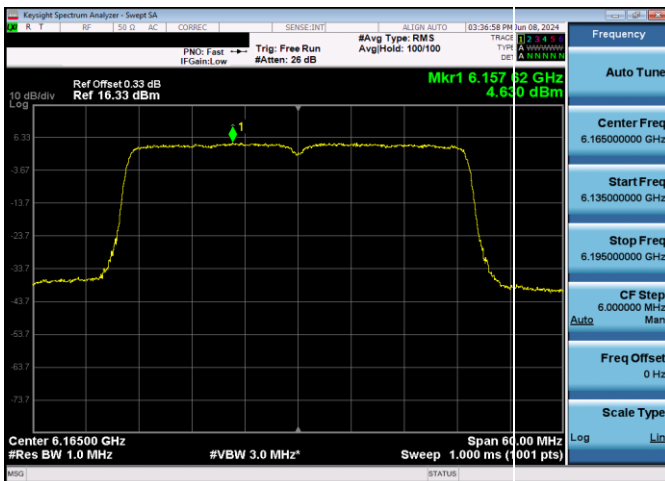
Plot 7-104. Power Spectral Density Plot Antenna WF5T SP (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS11)



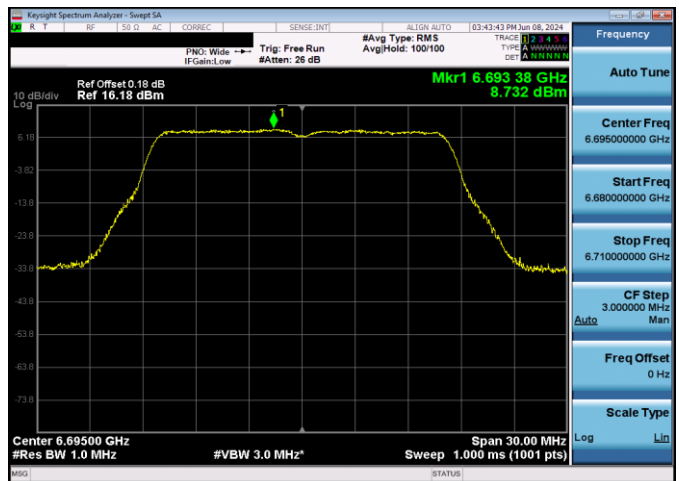
Plot 7-102. Power Spectral Density Plot Antenna WF5T SP (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS11)



Plot 7-105. Power Spectral Density Plot Antenna WF5T SP (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)

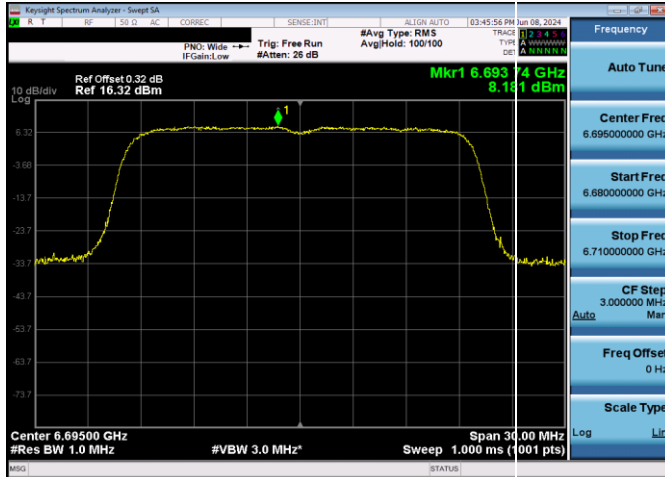


Plot 7-103. Power Spectral Density Plot Antenna WF5T SP (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS11)

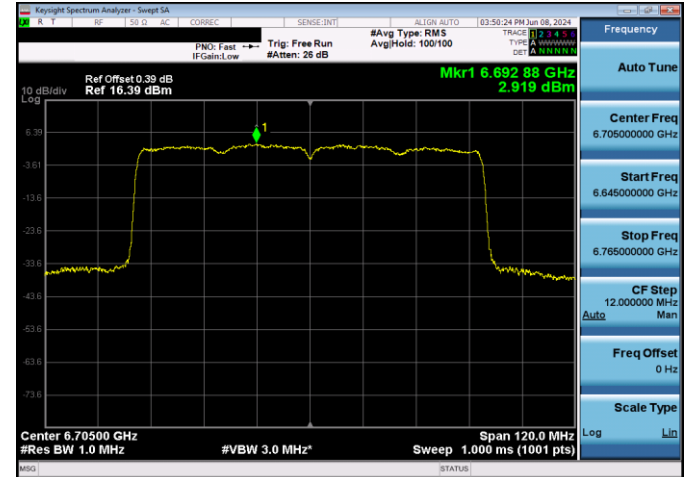


Plot 7-106. Power Spectral Density Plot Antenna WF5T SP (20MHz 802.11a (UNII Band 7) – Ch. 149, 54Mbps)

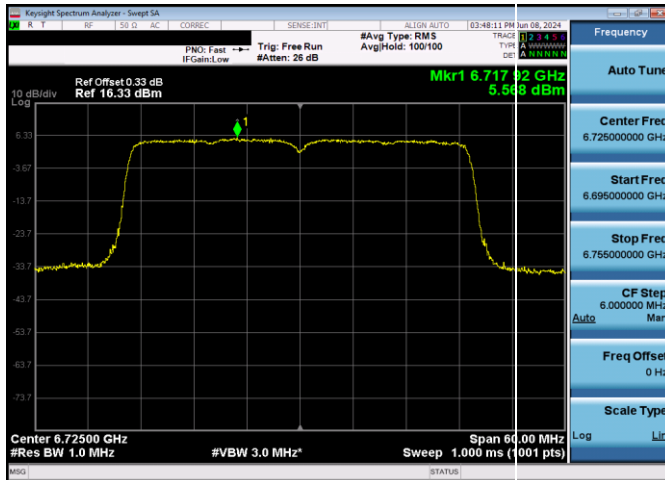
FCC ID: BCGA2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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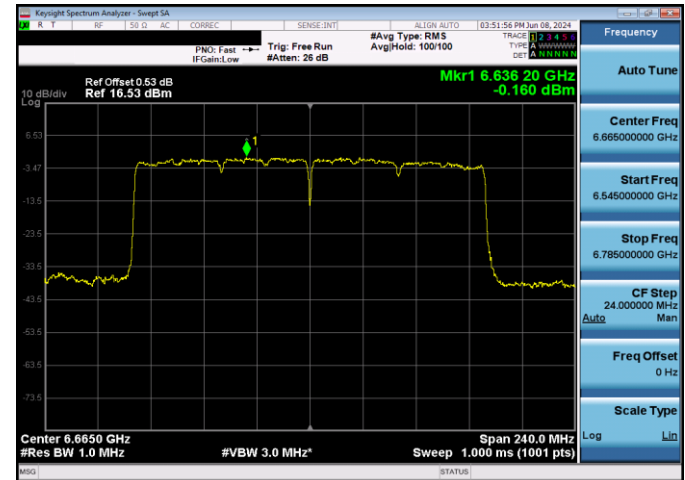
Plot 7-107. Power Spectral Density Plot Antenna WF5T SP (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)



Plot 7-109. Power Spectral Density Plot Antenna WF5T SP (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



Plot 7-108. Power Spectral Density Plot Antenna WF5T SP (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



Plot 7-110. Power Spectral Density Plot Antenna WF5T SP (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)

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