

MEASUREMENT REPORT

FCC PART 15.407 / ISSED RSS-248 UNII 6GHz 802.11ax/be OFDMA

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014
United States

Date of Testing:

05/12/2025 - 08/13/2025

Test Report Issue Date:

9/11/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170041-25-R2.BCG

FCC ID:

BCGA3361

IC:

579C-A3361

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3361, A3362

EUT Type:

Tablet Device

Frequency Range:

5955 – 7115MHz

Modulation Type:

OFDMA

FCC Classification:

15E 6GHz Low Power Dual Client (6CD)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISED Specification:

RSS-248 Issue 3

Test Procedure(s):

ANSI C63.10-2020, KDB 789033 D02 v02r01
KDB 662911 D01 v02r01, KDB 987594 D02 v03
KDB 987594 D03 v03r04, KDB 987594 D04 v03
KDB 987594 D01 v03r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013 and KDB 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2504170041-25-R2.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



Rj Ortanez
Executive Vice President



FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 1 of 635

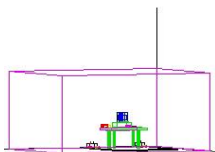
TABLE OF CONTENTS

1.0	INTRODUCTION	4
1.1	Scope.....	4
1.2	Element Materials Technology Test Location	4
1.3	Test Facility / Accreditations	4
2.0	PRODUCT INFORMATION	5
2.1	Equipment Description	5
2.2	Device Capabilities.....	5
2.3	Antenna Description	10
2.4	Test Support Equipment.....	10
2.5	Test Configuration.....	11
2.6	Software and Firmware	11
2.7	EMI Suppression Device(s)/Modifications.....	11
3.0	DESCRIPTION OF TESTS	12
3.1	Evaluation Procedure	12
3.2	AC Line Conducted Emissions	12
3.3	Radiated Emissions.....	13
3.4	Environmental Conditions.....	13
4.0	ANTENNA REQUIREMENTS	14
5.0	MEASUREMENT UNCERTAINTY	15
6.0	TEST EQUIPMENT CALIBRATION DATA.....	16
7.0	TEST RESULTS	17
7.1	Summary.....	17
7.2	26dB & 99% Bandwidth Measurement	18
7.3	Conducted Output Power and Max EIRP Measurement	94
7.4	Maximum Power Spectral Density	156
7.5	In-Band Emissions	281
7.6	Contention Based Protocol.....	384
7.7	Radiated Spurious Emissions – Above 1GHz	406
7.8	Radiated Spurious Emissions – Below 1GHz	612
7.9	AC Line-Conducted Emissions Measurement.....	619
7.10	Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point.....	629
7.11	Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP	633
8.0	CONCLUSION.....	635

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 2 of 635

V 11.0 05/2025

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MEASUREMENT REPORT



UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO						CDD/SDM Primary		CDD/SDM Diversity	
				Antenna WF5B		Antenna 4a		Antenna 2a		Summed		Summed	
				Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)
5	20	802.11be	5955 - 6415	117.761	20.71	77.268	18.88	97.724	19.90	230.144	23.62	192.752	22.85
6		802.11be	6435 - 6515	101.625	20.07	67.764	18.31	65.615	18.17	199.526	23.00	133.968	21.27
7		802.11be	6535 - 6855	130.918	21.17	67.608	18.30	50.003	16.99	258.821	24.13	163.305	22.13
5	40	802.11be	5965 - 6405	121.619	20.85	77.090	18.87	97.949	19.91	236.592	23.74	194.536	22.89
6		802.11be	6445 - 6525	125.026	20.97	67.453	18.29	67.453	18.29	254.683	24.06	158.125	21.99
7		802.11be	6565 - 6845	128.233	21.08	69.823	18.44	49.774	16.97	255.270	24.07	161.808	22.09
5	80	802.11be	5985 - 6385	118.032	20.72	75.509	18.78	101.391	20.06	230.675	23.63	192.752	22.85
6		802.11be	6465	95.499	19.80	67.453	18.29	65.917	18.19	195.884	22.92	129.122	21.11
7		802.11be	6545 - 6805	128.233	21.08	68.865	18.38	49.659	16.96	250.035	23.98	159.588	22.03
5	160	802.11be	6025 - 6345	116.413	20.66	78.886	18.97	93.541	19.71	236.592	23.74	203.704	23.09
6		802.11be	6505	102.094	20.09	69.343	18.41	68.707	18.37	196.336	22.93	133.968	21.27
7		802.11be	6665	124.165	20.94	65.766	18.18	49.091	16.91	251.189	24.00	158.489	22.00

EUT Overview Standard Power

UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO						SDM Primary		SDM Diversity	
				Antenna WF5B		Antenna 4a		Antenna 2a		Summed		Summed	
				Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)
5	20	802.11be	5955 - 6415	8.492	9.29	9.162	9.62	7.161	8.55	8.204	9.14	7.345	8.66
6		802.11be	6435 - 6515	8.260	9.17	6.653	8.23	5.559	7.45	7.852	8.95	6.266	7.97
7		802.11be	6535 - 6875	8.128	9.10	5.649	7.52	3.034	4.82	8.054	9.06	5.047	7.03
8		802.11be	6895 - 7115	8.072	9.07	9.683	9.86	2.748	4.39	8.054	9.06	3.828	5.83
5	40	802.11be	5965 - 6405	15.849	12.00	18.155	12.59	14.488	11.61	15.776	11.98	14.825	11.71
6		802.11be	6445 - 6525	15.959	12.03	13.740	11.38	11.066	10.44	16.827	12.26	13.614	11.34
7		802.11be	6565 - 6845	15.812	11.99	10.940	10.39	6.026	7.80	15.885	12.01	9.817	9.92
8		802.11be	6885 - 7085	16.482	12.17	19.679	12.94	5.458	7.37	15.959	12.03	7.621	8.82
5	80	802.11be	5985 - 6385	32.434	15.11	35.400	15.49	26.977	14.31	32.063	15.06	28.379	14.53
6		802.11be	6465	32.434	15.11	27.353	14.37	21.380	13.30	32.810	15.16	26.002	14.15
7		802.11be	6545 - 6865	31.477	14.98	21.086	13.24	12.331	10.91	32.509	15.12	20.045	13.02
8		802.11be	6945 - 7025	33.189	15.21	39.084	15.92	10.691	10.29	31.769	15.02	15.276	11.84
5	160	802.11be	6025 - 6345	60.256	17.80	70.632	18.49	53.456	17.28	61.944	17.92	56.754	17.54
6		802.11be	6505	48.978	16.90	41.020	16.13	33.037	15.19	48.753	16.88	39.446	15.96
7		802.11be	6665 - 6825	53.333	17.27	40.272	16.05	20.606	13.14	57.016	17.56	33.963	15.31
8		802.11be	6985	61.094	17.86	69.984	18.45	20.184	13.05	61.094	17.86	29.376	14.68

EUT Overview Low Power Indoor

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Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device		Page 3 of 635

1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology located in Morgan Hill, CA 95037, U.S.A.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISSED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISSED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISSED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 4 of 635

V 11.0 05/2025

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA3361** and **IC: 579C-A3361**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter while operating in the 6GHz band.

Test Device Serial No.: P2194C1YXR, X93KQ4PY7T, L04WLKNX96, MYY6CF7PN4, H9HHG4000GA0000SDW, H4D7HYW6H9

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE, HDR, HDT), Narrowband (NB) UNII (5GHz and 6GHz), WPT

This device supports BT Beamforming.

This device supports channel puncturing and channel bandwidth reduction.

Standard Power (SP) mode is supported in U-NII Bands 5 and 7 for FCC and U-NII Bands 5, 6 and 7 for ISM. Low Power Indoor (LPI) mode is supported in U-NII Bands 5, 6, 7, 8. Throughout report, data of Standard Power mode is denoted as SP while data of Low Power Indoor mode is denoted as LPI.

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 5 of 635

V 11.0 05/2025

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Band 5

Ch.	Frequency (MHz)
1	5955
:	:
45	6175
:	:
93	6415

Band 6

Ch.	Frequency (MHz)
97	6435
:	:
105	6475
:	:
113	6515

Band 7

Ch.	Frequency (MHz)
117	6535
:	:
149	6695
:	:
185	6875

Band 8

Ch.	Frequency (MHz)
189	6895
:	:
209	6995
:	:
233	7115

Table 2-1. 802.11a/ax/be (20MHz) Frequency / Channel Operations

Band 5

Ch.	Frequency (MHz)
3	5965
:	:
43	6165
:	:
91	6405

Band 6

Ch.	Frequency (MHz)
99	6445
:	:
107	6485
:	:
115	6525

Band 7

Ch.	Frequency (MHz)
123	6565
:	:
155	6725
:	:
179	6845

Band 8

Ch.	Frequency (MHz)
187	6885
:	:
211	7005
:	:
227	7085

Table 2-2. 802.11ax/be (40MHz BW) Frequency / Channel Operations

Band 5

Ch.	Frequency (MHz)
7	5985
:	:
39	6145
:	:
87	6385

Band 6

Ch.	Frequency (MHz)
103	6465

Band 7

Ch.	Frequency (MHz)
119	6545
:	:
151	6705
:	:
183	6865

Band 8

Ch.	Frequency (MHz)
199	6945
:	:
215	7025

Table 2-3. 802.11ax/be (80MHz BW) Frequency / Channel Operations

Band 5

Ch.	Frequency (MHz)
15	6025
:	:
47	6185
:	:
79	6345

Band 6

Ch.	Frequency (MHz)
111	6505

Band 7

Ch.	Frequency (MHz)
143	6665
:	:
175	6825

Band 8

Ch.	Frequency (MHz)
207	6985

Table 2-4. 802.11ax/be (160MHz BW) Frequency / Channel Operations

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 6 of 635

V 11.0 05/2025

6GHz NII operation is possible in 20MHz, 40MHz, 80MHz and 160MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) KDB 789033 D02 v02r01 and ANSI C63.10-2020. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

802.11 Mode/Band	Duty Cycle [%]									
	Antenna WF5B		Antenna 4a		Antenna 2a		CDD/SDM Primary		CDD/SDM Diversity	
	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]	Duty Cycle [%]	DCCF [dB]
be(RU) 26T EHT20	98.130	0.082	97.454	0.112	97.904	0.092	97.432	0.113	97.611	0.105
be(RU) 52T EHT20	97.454	0.112	97.611	0.105	97.769	0.098	97.949	0.090	97.432	0.113
be(RU) 106T EHT20	97.769	0.098	97.454	0.112	98.288	0.075	97.432	0.113	98.288	0.075
be(RU) 242T EHT20	97.701	0.101	97.454	0.112	97.701	0.101	98.220	0.078	97.791	0.097
be(RU) 26T EHT40	97.791	0.097	97.432	0.113	97.701	0.101	97.949	0.090	97.432	0.113
be(RU) 52T EHT40	98.130	0.082	97.769	0.098	97.949	0.090	97.701	0.101	97.454	0.112
be(RU) 106T EHT40	97.701	0.101	97.949	0.090	97.791	0.097	97.454	0.112	97.454	0.112
be(RU) 242T EHT40	97.454	0.112	97.949	0.090	97.949	0.090	98.107	0.083	98.130	0.082
be(RU) 484T EHT40	97.611	0.105	97.949	0.090	98.107	0.083	97.701	0.101	97.791	0.097
be(RU) 26T EHT80	97.769	0.098	98.130	0.082	97.432	0.113	98.107	0.083	97.701	0.101
be(RU) 52T EHT80	98.152	0.081	97.611	0.105	97.701	0.101	97.432	0.113	98.130	0.082
be(RU) 106T EHT80	97.791	0.097	97.454	0.112	98.288	0.075	98.017	0.087	97.454	0.112
be(RU) 242T EHT80	97.769	0.098	98.265	0.076	97.454	0.112	97.454	0.112	98.220	0.078
be(RU) 484T EHT80	97.566	0.107	97.611	0.105	97.949	0.090	97.454	0.112	97.949	0.090
be(RU) 996T EHT80	97.769	0.098	98.017	0.087	97.611	0.105	97.432	0.113	97.566	0.107
be(RU) 26T EHT160	97.701	0.101	97.949	0.090	97.769	0.098	97.701	0.101	97.611	0.105
be(RU) 52T EHT160	97.432	0.113	97.904	0.092	98.265	0.076	97.769	0.098	97.611	0.105
be(RU) 106T EHT160	97.949	0.090	96.962	0.134	98.130	0.082	97.949	0.090	98.288	0.075
be(RU) 242T EHT160	97.611	0.105	97.949	0.090	97.769	0.098	97.949	0.090	98.107	0.083
be(RU) 484T EHT160	97.949	0.090	97.611	0.105	98.288	0.075	97.454	0.112	97.769	0.098
be(RU) 996T EHT160	96.962	0.134	97.769	0.098	97.769	0.098	97.454	0.112	98.130	0.082
be(RU) 996x2T EHT160	96.962	0.134	97.769	0.098	97.769	0.098	97.454	0.112	97.949	0.090
be(RU) 78T EHT20	97.791	0.097	97.611	0.105	97.769	0.098	98.130	0.082	97.454	0.112
be(RU) 132T EHT20	97.949	0.090	97.769	0.098	97.949	0.090	97.611	0.105	97.611	0.105
be(RU) 78T EHT40	97.949	0.090	97.208	0.123	97.949	0.090	98.130	0.082	98.130	0.082
be(RU) 132T EHT40	97.769	0.098	97.611	0.105	97.949	0.090	97.769	0.098	97.769	0.098
be(RU) 78T EHT80	97.769	0.098	98.017	0.087	97.769	0.098	97.769	0.098	97.972	0.089
be(RU) 132T EHT80	97.949	0.090	97.949	0.090	97.949	0.090	97.769	0.098	97.701	0.101
be(RU) 726T EHT80	97.611	0.105	97.949	0.090	97.454	0.112	97.611	0.105	98.220	0.078
be(RU) 1480T EHT160	97.791	0.097	97.769	0.098	97.791	0.097	98.152	0.081	97.611	0.105
be(RU) 1722T EHT160	97.949	0.090	97.791	0.097	97.949	0.090	97.949	0.090	97.949	0.090

Table 2-5. Measured Duty Cycles

CDD/SDM Primary = Antenna WF5B + Antenna 4a

CDD/SDM Diversity = Antenna 4a + Antenna 2a

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Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 7 of 635

1. The device employs MIMO technology. Below are the possible configurations.

WiFi Configurations		SISO			CDD/SDM			STBC		
		Antenna WF5B	Antenna 4a	Antenna 2a	Antenna WF5B	Antenna 4a	Antenna 2a	Antenna WF5B	Antenna 4a	Antenna 2a
6GHz	11ax/be(RU) (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax/be(RU) (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax/be(RU) (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax/be(RU) (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓

Table 2-6. WIFI Configurations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity - 2Tx Function

STBC = Space-Time Block Coding – 2Tx Function

2. The device supports the following data rates (shown in Mbps):

MCS Index		Spatial Stream	MU-OFDMA (802.11ax/be)																							
			26-tone RU			52-tone RU			106-tone RU			242-tone RU			484-tone RU			996-tone RU			2x996-tone RU					
HE	EHT		0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI
0	0	1	0.9	0.8	0.8	1.8	1.7	1.5	3.8	3.5	3.2	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3	144.1	136.1	122.5
1	1	1	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	288.2	272.2	245
2	2	1	2.6	2.5	2.3	5.3	5	4.5	11.3	10.6	9.6	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8	432.4	408.3	367.5
3	3	1	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	576.5	544.4	490
4	4	1	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	864.7	816.7	735
5	5	1	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	1152.9	1088.9	980
6	6	1	7.9	7.5	6.8	15.9	15	13.5	33.8	31.9	28.7	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3	1297.1	1225	1102.5
7	7	1	8.8	8.3	7.5	17.6	16.7	15	37.5	35.4	31.9	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5	1512.9	1439.9	1300
8	8	1	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	1729.4	1633.3	1470
9	9	1	11.8	11.1	10	23.5	22.2	20	50	47.2	42.5	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7	2041.7	1937.5	1755
10	10	1	13.2	12.5	11.3	26.5	25	22.5	56.3	53.1	47.8	129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8	2297.1	2182.5	1980
11	11	1	14.7	13.9	12.5	29.4	27.8	25	62.5	59	53.1	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8	2402	2268.5	2041.7
0	0	2	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	288.2	272.2	245
1	1	2	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	576.5	544.4	490
2	2	2	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	864.7	816.7	735
3	3	2	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	1152.9	1088.9	980
4	4	2	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	1729.4	1633.3	1470
5	5	2	14.1	13.3	12	28.2	26.7	24	60	56.7	51	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980	2297.1	2182.5	1980
6	6	2	15.9	15	13.5	31.8	30	27	67.5	63.8	57.4	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	2755.5	2625	2350
7	7	2	17.6	16.7	15	35.3	33.3	30	75	70.8	63.8	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1297.1	1225	1102.5	2971.5	2825	2550
8	8	2	21.2	20	18	42.4	40	36	90	85	76.5	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470	3555.5	3375	3030
9	9	2	23.5	22.2	20	47.1	44.4	40	100	94.4	85	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3	4082.5	3885	3510
10	10	2	26.5	25	22.5	52.9	50	45	112.5	106.3	95.6	258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5	4497.5	4275	3855
11	11	2	29.4	27.8	25	58.8	55.6	50	125	118.1	106.3	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7	4697.5	4475	4050

Table 2-7. Supported Data Rates

3. This device supports simultaneous transmission operations, which allows multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

FCC ID: BCGA3361 IC: 579C-A3361	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2-BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 8 of 635

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be	LB	MB/HB	UHB
Ant 4a	Config 1	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 2	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 3	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 4	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 5	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 4a	Config 6	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 4a	Config 7	✗	✗	✓	✗	✗	✓	✗	✗	✗
Ant 2a	Config 8	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 9	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 10	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 11	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 12	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 2a	Config 13	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 2a	Config 14	✗	✗	✓	✗	✗	✓	✗	✗	✗

Table 2-8. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 1 and reported in RF Bluetooth and RF UNII 5GHz OFDM test reports.

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG				Test Dates: 05/12/2025 - 08/13/2025

V 11.0 05/2025

2.3 Antenna Description

Following antenna gains provided by the manufacturer were used for testing.

UNII Band	Frequency [GHz]	Highest Antenna Gain (dBi)			Lowest Antenna Gain (dBi)		
		Antenna WF5B	Antenna 4a	Antenna 2a	Antenna WF5B	Antenna 4a	Antenna 2a
5	5.955 – 6.105	2.2	0.1	0.1	1.8	-0.4	-0.3
	6.105 – 6.265	2.4	-0.3	1.6	1.4	-0.8	1.4
	6.265 – 6.425	1.6	-0.5	1.0	1.6	-0.5	1.0
6	6.425 – 6.525	2.6	0.9	0.9	2.6	0.9	0.9
7	6.525 – 6.875	3.7	1.7	-0.5	2.7	-1.1	-2.7
8	6.875 – 7.125	4.3	-0.8	-0.6	3.3	-1.5	-0.7

Table 2-9. Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXXK1336018XKTR024
3	USB-C Cable	Model:	A2795	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A
6	Netgear	Model:	RAXE500	S/N:	6JX215GA10A5

Table 2-10. Test Support Equipment List

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 10 of 635

V 11.0 05/2025

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020, KDB 789033 D02 v02r01 and KDB 987594 D02 v03. ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups.

There are two vendors of the WiFi/Bluetooth radio modules, variant 1 and variant 2. Both radio modules have the same mechanical outline, same on-board antenna matching circuit, identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances. The worst case configuration was found between the two variants. The EUT was also investigated with and without charger.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel were reported.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted and radiated test below 1GHz, following configuration were investigated and EUT powered by AC/DC was the worst case.

- EUT powered by AC/DC adaptor via USB-C cable with wire charger
- EUT powered by host PC via USB-C cable with wire charger

802.11be-mode test data provided in this report covers 802.11ax as target powers are identical.

For 802.11be-SU test results, see separate UNII 6GHz OFDM report, 1C2504170041-24.BCG.

2.6 Software and Firmware

The test was conducted with firmware version 23A256 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 11 of 635

V 11.0 05/2025

3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2020) and the guidance provided in KDB 789033 D02 v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.9. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 12 of 635

V 11.0 05/2025

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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

FCC ID: BCGA3361 IC: 579C-A3361			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device		Page 13 of 635

V 11.0 05/2025

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4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antennas of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT complies with the requirement of §15.203.

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 14 of 635

V 11.0 05/2025

5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	2.07
Line Conducted Disturbance	1.91
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz - 1GHz)	4.85
Radiated Disturbance (1 - 18GHz)	5.08
Radiated Disturbance (>18GHz)	5.22

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 15 of 635

V 11.0 05/2025

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6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance with the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Anritsu	ML2496A	Power Meter	2/10/2025	Annual	2/10/2026	1306009
Anritsu	MA2411B	Pulse Power Sensor	2/10/2025	Annual	2/10/2026	1315051
Anritsu	MA2411B	Pulse Power Sensor	2/10/2025	Annual	2/10/2026	1339027
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/25/2024	Annual	9/25/2025	00240109
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Fairview Microwave	FM2CP1122-10	Directional Coupler *	6/10/2025	Annual	6/10/2026	1946
Keysight Technology	N9040B	UXA Signal Analyzer	9/5/2024	Annual	9/5/2025	MY61320121
Keysight Technology	N9030A	PXA Signal Analyzer	10/16/2024	Annual	10/16/2025	MY49430494
Mini-Circuits	ZN2PD-9G	Power Splitter*	8/16/2024	Annual	8/16/2025	SF456200530
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	11/21/2024	Annual	11/21/2025	104093
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	9/20/2024	Annual	9/20/2025	102327
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2025	Annual	4/24/2026	101364
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	CMX500	Wideband Radio Communication Tester	6/21/2024	Annual	6/21/2025	101898
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	00358

Table 6-1. Test Equipment List

Note:

1. For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
2. * denotes passive equipment that have been internally verified/calibrated.

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 16 of 635

V 11.0 05/2025

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3361
 IC: 579C-A3361
 FCC Classification: 15E 6GHz Low Power Dual Client (6CD)

FCC Part Section(s) / KDB Reference	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049, 15.407(a)(11)	RSS Gen [6.7], RSS-248 [4.4]	Occupied Bandwidth/ 26dB Bandwidth	99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands < 320MHz (5.925 - 7.125GHz)	CONDUCTED	PASS	Section 7.2
15.407(a)(8)	RSS-248 [4.5.3]	Maximum Power Spectral Density	< -1dBm/MHz e.i.r.p. for Low Power Indoor		PASS	Section 7.4
15.407(a)(7)	RSS-248 [4.5.5]		< 17dBm/MHz e.i.r.p. for Standard Power		PASS	
15.407(a)(8)	RSS-248 [4.5.3]	Maximum EIRP	< 24dBm over the frequency band of operation		PASS	Section 7.3
15.407(a)(7)	RSS-248 [4.5.5]		< 30dBm over the frequency band of operation		PASS	
15.407(b)(7)	RSS-248 [4.6.2]	In-Band Emissions	EUT must meet the limits detailed in 15.407(b)(7) and RSS-248 [4.6.2] b)		PASS	Section 7.5
15.407(d)(6)	RSS-248 [4.7]	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS	Section 7.6
15.407(a)(7)	RSS-248 [4.5.5]	Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point	EUT maintains its power level at least 6 dB lower than that of the standard-power access point		PASS	Section 7.10
987594 D02 v03	987594 D02 v03	Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP	EUT maximum power level shall not exceed 30dBm EIRP when connected to Standard Power AP, and 24dBm EIRP when connected to Low Power Indoor AP	RADIATED	PASS	Section 7.11
15.407(b)(6)	RSS-248 [4.6.2]	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band		PASS	Section 7.7
15.205, 15.209	RSS-248 [4.6.2] RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.7, 7.8
15.407(b)(9)	RSS-Gen [8.8]	AC Conducted Emissions (150kHz – 30MHz)	< FCC 15.207 (RSS-Gen [8.8]) limits	LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Conducted Automation," Version 1.4.0.
- 5) For radiated testing, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.4.2.
- 6) All radiated measurements were tested at the highest supported power setting per band.
- 7) 802.11be OFDMA testing was performed for all signal tone configurations as specified by the 802.11be standard. Worst case results are determined and reported per the guidance provided at the October 2022 TCB Workshop.

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 17 of 635

V 11.0 05/2025

7.2 26dB & 99% Bandwidth Measurement

§2.1049; §15.407; RSS-Gen [6.7]

Test Overview and Limit

The bandwidth at 26dB 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 26dB bandwidth.

Test Procedure Used

ANSI C63.10-2020 – Section 12.5.2
KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. 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 = in the range of 1% to 5% of the emission bandwidth
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold

Test Setup

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



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

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

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 18 of 635

V 11.0 05/2025

7.2.1 Antenna WF5B 26dB & 99% Bandwidth Measurements – SP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	26	8	MCS5	18.31	20.29	320	Pass
	6175	45	be (20MHz)	26	0	MCS5	18.44	20.20	320	Pass
	6415	93	be (20MHz)	26	0	MCS5	18.47	20.26	320	Pass
	5965	3	be (40MHz)	26	8	MCS5	18.74	20.48	320	Pass
	6165	43	be (40MHz)	26	8	MCS5	18.70	20.27	320	Pass
	6405	91	be (40MHz)	26	8	MCS5	18.77	20.67	320	Pass
	5985	7	be (80MHz)	26	36	MCS5	18.37	20.34	320	Pass
	6145	39	be (80MHz)	26	0	MCS5	18.21	20.32	320	Pass
	6385	87	be (80MHz)	26	17	MCS5	18.34	20.33	320	Pass
	6025	15	be (160MHz)	26	0-L	MCS5	18.44	20.66	320	Pass
Band 6	6185	47	be (160MHz)	26	0-L	MCS5	18.55	20.99	320	Pass
	6345	79	be (160MHz)	26	36-H	MCS5	18.34	20.67	320	Pass
	6435	97	be (20MHz)	26	0	MCS5	18.55	20.43	320	Pass
	6475	105	be (20MHz)	26	0	MCS5	18.53	20.22	320	Pass
	6515	113	be (20MHz)	26	0	MCS5	18.45	20.09	320	Pass
	6445	99	be (40MHz)	26	8	MCS5	18.74	20.29	320	Pass
	6485	107	be (40MHz)	26	8	MCS5	18.73	20.45	320	Pass
	6525	115	be (40MHz)	26	8	MCS5	18.73	20.40	320	Pass
	6465	103	be (80MHz)	26	0	MCS5	18.36	20.60	320	Pass
	6505	111	be (160MHz)	26	0-L	MCS5	18.37	20.63	320	Pass
Band 7	6535	117	be (20MHz)	26	0	MCS5	18.49	20.57	320	Pass
	6695	149	be (20MHz)	26	8	MCS5	18.27	20.33	320	Pass
	6855	181	be (20MHz)	26	8	MCS5	18.33	20.40	320	Pass
	6565	123	be (40MHz)	26	8	MCS5	18.74	20.41	320	Pass
	6725	155	be (40MHz)	26	0	MCS5	18.19	20.38	320	Pass
	6845	179	be (40MHz)	26	8	MCS5	18.78	20.43	320	Pass
	6545	119	be (80MHz)	26	0	MCS5	18.33	20.44	320	Pass
	6705	151	be (80MHz)	26	36	MCS5	18.33	20.07	320	Pass
	6785	167	be (80MHz)	26	36	MCS5	18.31	20.41	320	Pass
	6665	143	be (160MHz)	26	0-L	MCS5	18.50	20.92	320	Pass

Table 7-2. Conducted Bandwidth Measurements Antenna WF5B (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5935	1	be (20MHz)	106+26	82	MCS5	18.17	21.23	320	Pass
	6175	45	be (20MHz)	106+26	82	MCS5	18.17	21.29	320	Pass
	6415	93	be (20MHz)	106+26	82	MCS5	18.20	21.24	320	Pass
	5985	7	be (80MHz)	484+242	91	MCS5	78.45	126.62	320	Pass
	6145	39	be (80MHz)	484+242	91	MCS5	78.26	124.45	320	Pass
	6385	87	be (80MHz)	484+242	91	MCS5	78.51	126.53	320	Pass
	6025	15	be (160MHz)	996+484+242	96-L	MCS5	138.09	287.18	320	Pass
	6185	47	be (160MHz)	996+484+242	97-L	MCS5	158.07	304.98	320	Pass
	6345	79	be (160MHz)	996+484+242	96-L	MCS5	138.62	295.81	320	Pass
	6345	97	be (20MHz)	106+26	82	MCS5	18.20	21.44	320	Pass
Band 6	6475	105	be (20MHz)	106+26	82	MCS5	18.20	21.35	320	Pass
	6515	113	be (20MHz)	106+26	82	MCS5	18.14	21.43	320	Pass
	6465	103	be (80MHz)	484+242	91	MCS5	78.28	109.81	320	Pass
	6505	111	be (160MHz)	996+484+242	98-L	MCS5	157.46	288.11	320	Pass
	6535	117	be (20MHz)	106+26	82	MCS5	18.15	21.34	320	Pass
Band 7	6695	149	be (20MHz)	106+26	82	MCS5	18.15	20.93	320	Pass
	6875	181	be (20MHz)	106+26	82	MCS5	18.22	21.66	320	Pass
	6545	119	be (80MHz)	484+242	91	MCS5	78.32	124.03	320	Pass
	6705	151	be (80MHz)	484+242	91	MCS5	78.39	126.49	320	Pass
	6865	167	be (80MHz)	484+242	91	MCS5	78.49	125.78	320	Pass
	6665	143	be (160MHz)	996+484+242	96-L	MCS5	138.49	289.17	320	Pass

Table 7-3. Conducted Bandwidth Measurements Antenna WF5B (MRU)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 19 of 635

V 11.0 05/2025

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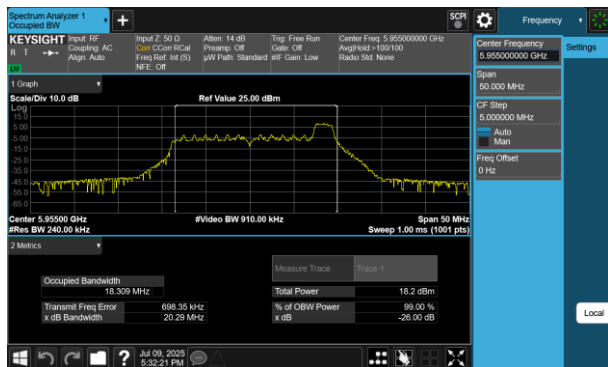
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Mbeimum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	242	61	MCS5	19.05	22.55	320	Pass
	6175	45	be (20MHz)	242	61	MCS5	19.08	22.30	320	Pass
	6415	93	be (20MHz)	242	61	MCS5	19.05	22.54	320	Pass
	5965	3	be (40MHz)	484	65	MCS5	38.07	43.86	320	Pass
	6165	43	be (40MHz)	484	65	MCS5	38.06	43.79	320	Pass
	6405	91	be (40MHz)	484	65	MCS5	38.09	43.80	320	Pass
	5985	7	be (80MHz)	996	67	MCS5	77.60	82.94	320	Pass
	6145	39	be (80MHz)	996	67	MCS5	77.60	82.94	320	Pass
	6385	87	be (80MHz)	996	67	MCS5	77.67	82.85	320	Pass
	6025	15	be (160MHz)	996x2	68	MCS5	156.60	179.04	320	Pass
Band 6	6185	47	be (160MHz)	996x2	68	MCS5	156.69	174.68	320	Pass
	6345	79	be (160MHz)	996x2	68	MCS5	156.75	183.17	320	Pass
	6435	97	be (20MHz)	242	61	MCS5	19.07	22.43	320	Pass
	6475	105	be (20MHz)	242	61	MCS5	19.05	22.58	320	Pass
	6515	113	be (20MHz)	242	61	MCS5	19.11	22.41	320	Pass
	6445	99	be (40MHz)	484	65	MCS5	38.07	44.29	320	Pass
	6485	107	be (40MHz)	484	65	MCS5	38.06	44.56	320	Pass
	6525	115	be (40MHz)	484	65	MCS5	38.07	43.37	320	Pass
	6465	103	be (80MHz)	996	67	MCS5	77.58	82.53	320	Pass
	6505	111	be (160MHz)	996x2	68	MCS5	156.44	178.22	320	Pass
Band 7	6535	117	be (20MHz)	242	61	MCS5	19.03	22.47	320	Pass
	6695	149	be (20MHz)	242	61	MCS5	19.07	22.57	320	Pass
	6855	181	be (20MHz)	242	61	MCS5	19.02	22.53	320	Pass
	6565	123	be (40MHz)	484	65	MCS5	38.04	44.24	320	Pass
	6725	155	be (40MHz)	484	65	MCS5	38.08	43.38	320	Pass
	6845	179	be (40MHz)	484	65	MCS5	38.12	45.79	320	Pass
	6545	119	be (80MHz)	996	67	MCS5	77.66	82.67	320	Pass
	6705	151	be (80MHz)	996	67	MCS5	77.71	82.79	320	Pass
	6785	167	be (80MHz)	996	67	MCS5	77.71	94.47	320	Pass
	6665	143	be (160MHz)	996x2	68	MCS5	156.67	176.71	320	Pass

Table 7-4. Conducted Bandwidth Measurements Antenna WF5B (Fully – Loaded RU)

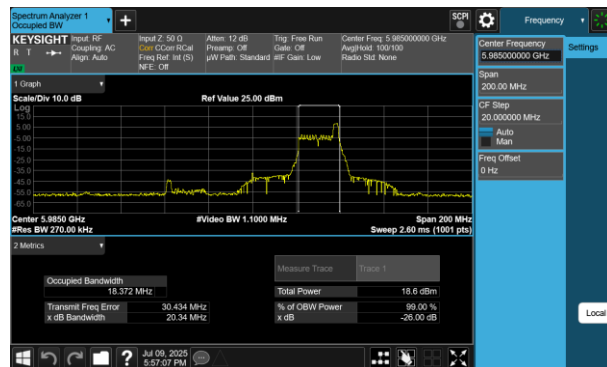
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Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 20 of 635

V 11.0 05/2025

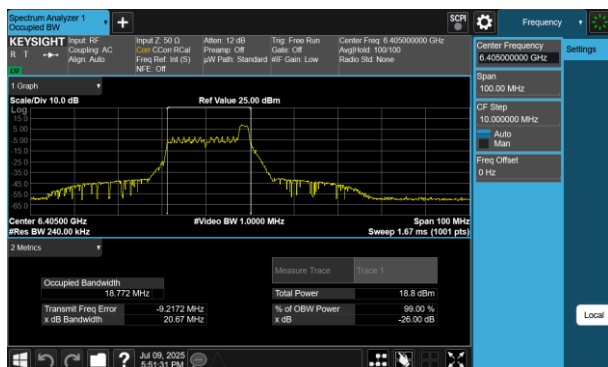
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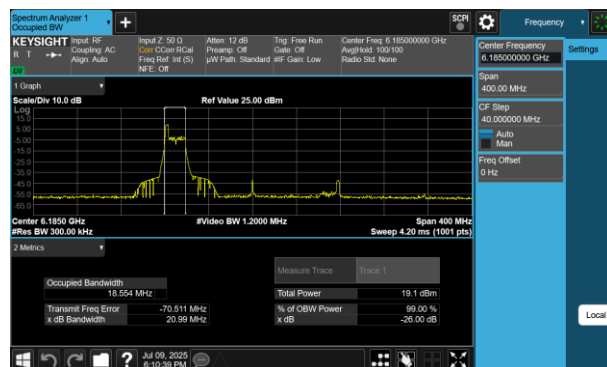
Plot 7-1 26dB BW & 99% OBW Antenna WF5B (20MHz BW 802.11be(RU) RU26 Index8 - Ch.1)



Plot 7-3 26dB BW & 99% OBW Antenna WF5B (80MHz BW 802.11be(RU) RU26 Index36 - Ch.7)

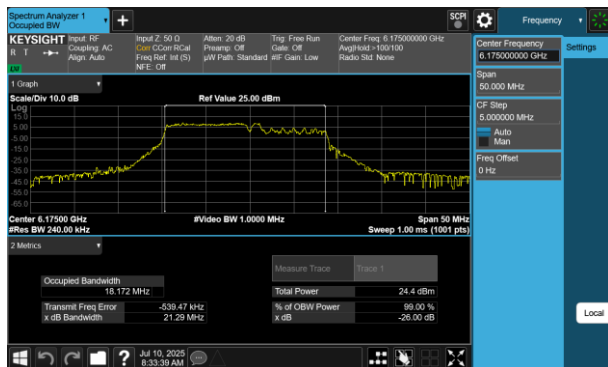


Plot 7-2 26dB BW & 99% OBW Antenna WF5B (40MHz BW 802.11be(RU) RU26 Index8 - Ch.91)

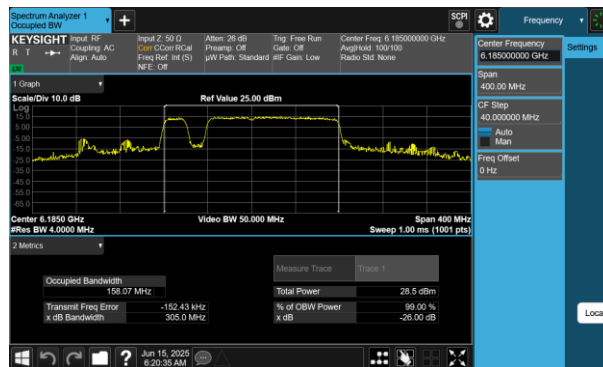


Plot 7-4 26dB BW & 99% OBW Antenna WF5B (160MHz BW 802.11be(RU) RU26 Index0 - Ch.47)

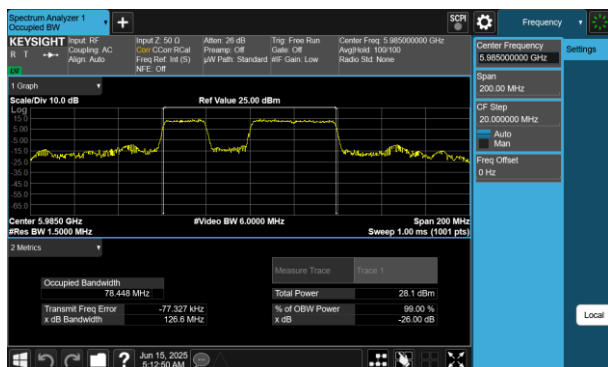
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Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device		Page 21 of 635



Plot 7-5 26dB BW & 99% OBW Antenna WF5B (20MHz BW 802.11be(RU) RU106+26 Index82 - Ch.45)



Plot 7-7 26dB BW & 99% OBW Antenna WF5B (160MHz BW 802.11be(RU) RU996+484+242 Index97 - Ch.47)

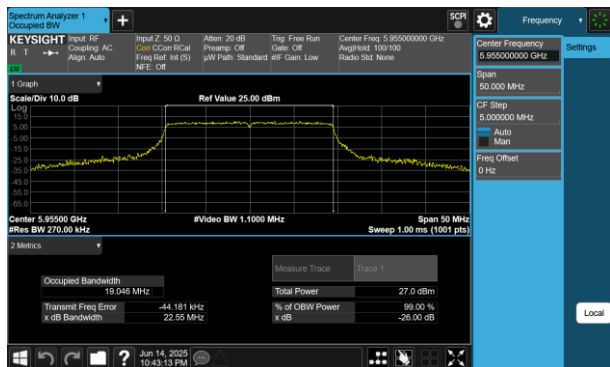


Plot 7-6 26dB BW & 99% OBW Antenna WF5B (80MHz BW 802.11be(RU) RU484+242 Index91 - Ch.7)

FCC ID: BCGA3361 IC: 579C-A3361			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 22 of 635	

V 11.0 05/2025

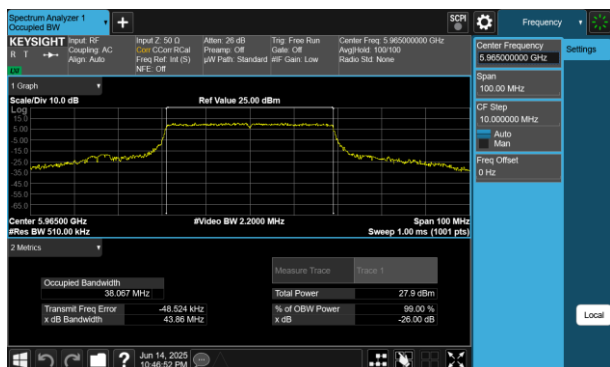
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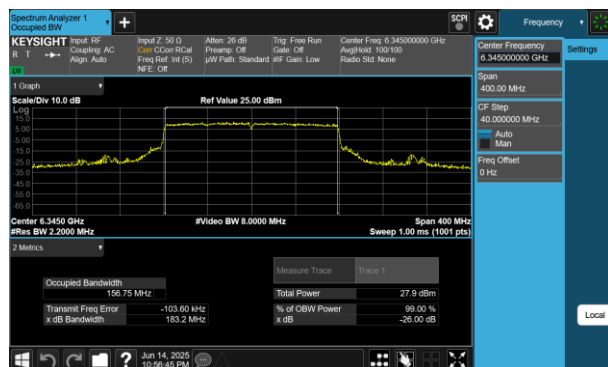
Plot 7-8 26dB BW & 99% OBW Antenna WF5B (20MHz BW 802.11be(RU) RU242 Index61 - Ch.1)



Plot 7-10 26dB BW & 99% OBW Antenna WF5B (80MHz BW 802.11be(RU) RU996 Index67 - Ch.7)

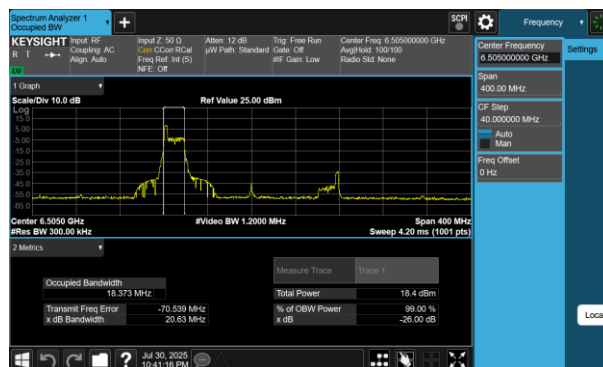
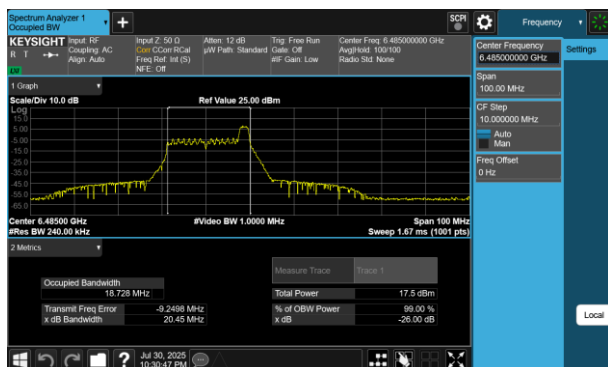
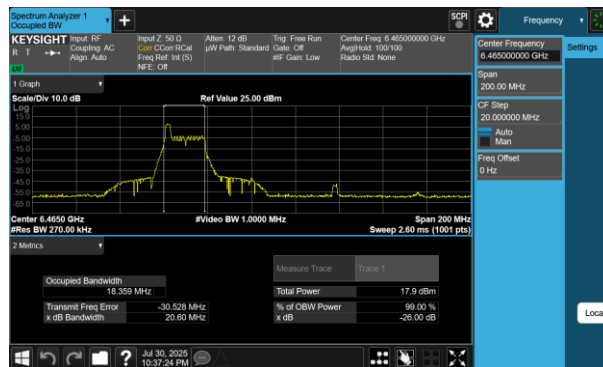
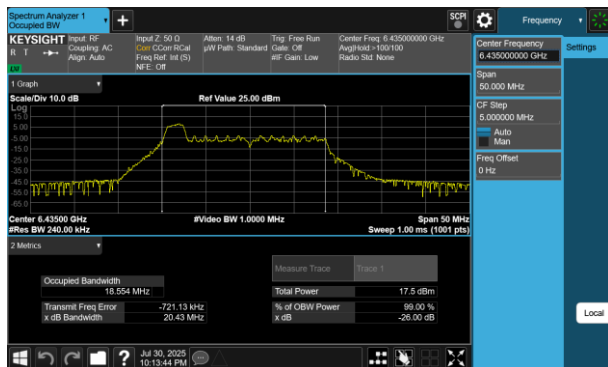


Plot 7-9 26dB BW & 99% OBW Antenna WF5B (40MHz BW 802.11be(RU) RU484 Index65 - Ch.3)

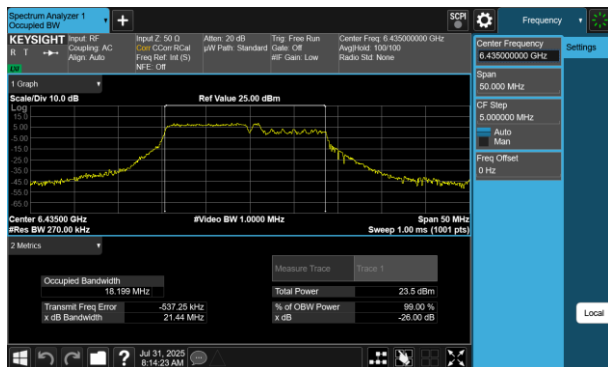


Plot 7-11 26dB BW & 99% OBW Antenna WF5B (160MHz BW 802.11be(RU) RU996X2 Index68 - Ch.79)

FCC ID: BCGA3361 IC: 579C-A3361			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 23 of 635	



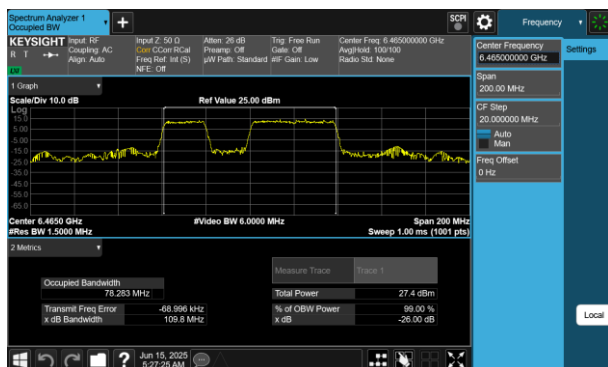
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Plot 7-16 26dB BW & 99% OBW Antenna WF5B (20MHz BW
802.11be(RU) RU106+26 Index82 - Ch.97)

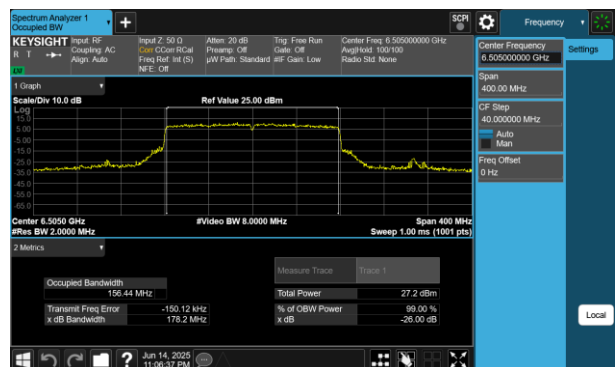
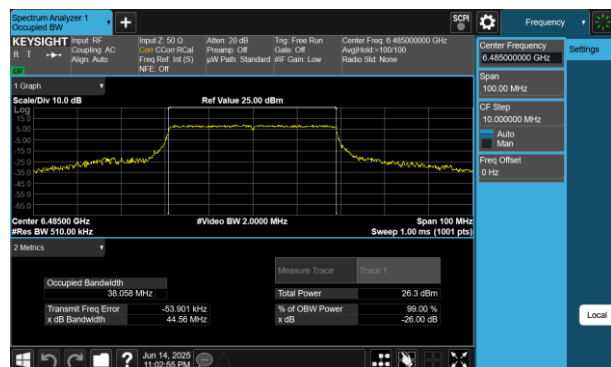
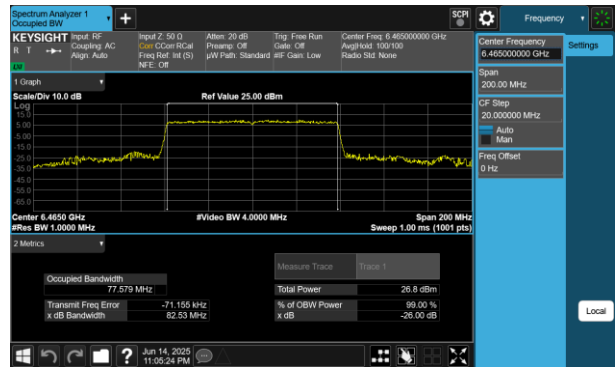


Plot 7-18 26dB BW & 99% OBW Antenna WF5B (160MHz BW
802.11be(RU) RU996+484+242 Index98 - Ch.111)

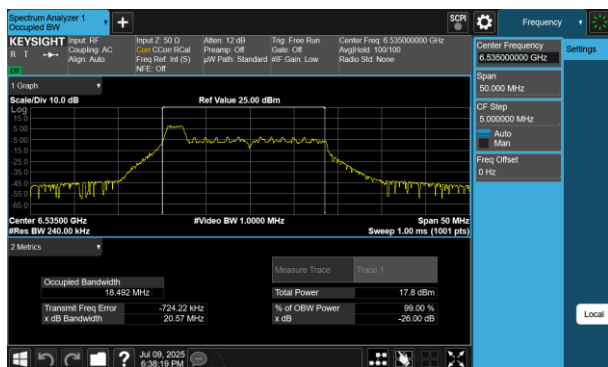


Plot 7-17 26dB BW & 99% OBW Antenna WF5B (80MHz BW
802.11be(RU) RU484+242 Index91 - Ch.103)

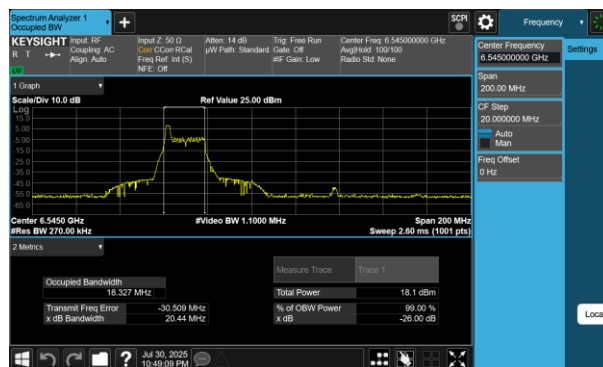
FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG			Page 25 of 635
Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device		



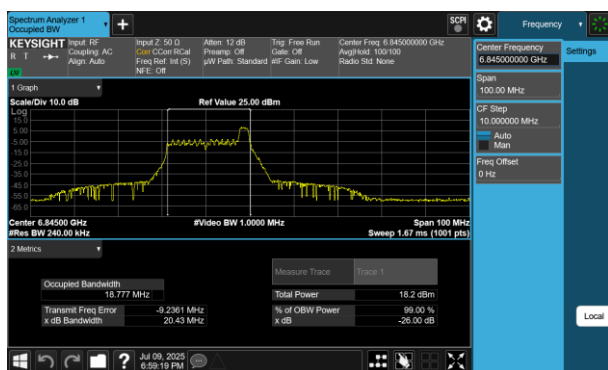
FCC ID: BCGA3361 IC: 579C-A3361	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 26 of 635



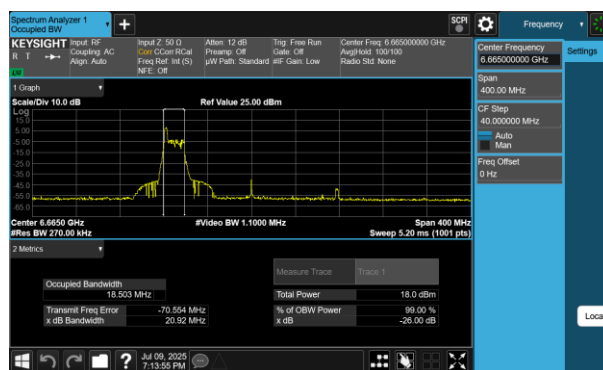
Plot 7-23 26dB BW & 99% OBW Antenna WF5B (20MHz BW
802.11be(RU) RU26 Index0 - Ch.117)



Plot 7-25 26dB BW & 99% OBW Antenna WF5B (80MHz BW
802.11be(RU) RU26 Index0 - Ch.119)



Plot 7-24 26dB BW & 99% OBW Antenna WF5B (40MHz BW
802.11be(RU) RU26 Index8 - Ch.179)

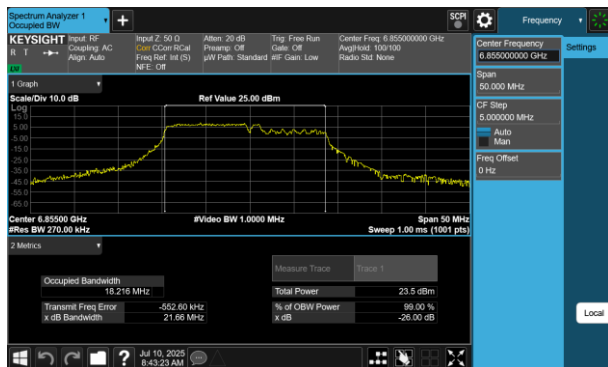


Plot 7-26 26dB BW & 99% OBW Antenna WF5B (160MHz BW
802.11be(RU) RU26 Index0 - Ch.143)

FCC ID: BCGA3361 IC: 579C-A3361			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device		Page 27 of 635

V 11.0 05/2025

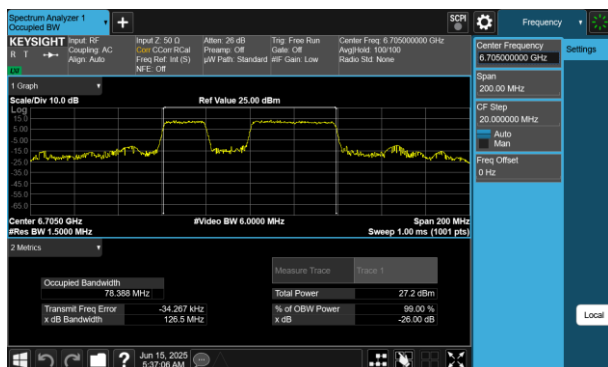
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Plot 7-27 26dB BW & 99% OBW Antenna WF5B (20MHz BW
802.11be(RU) RU106+26 Index82 - Ch.181)



Plot 7-29 26dB BW & 99% OBW Antenna WF5B (160MHz BW
802.11be(RU) RU996+484+242 Index96 - Ch.143)

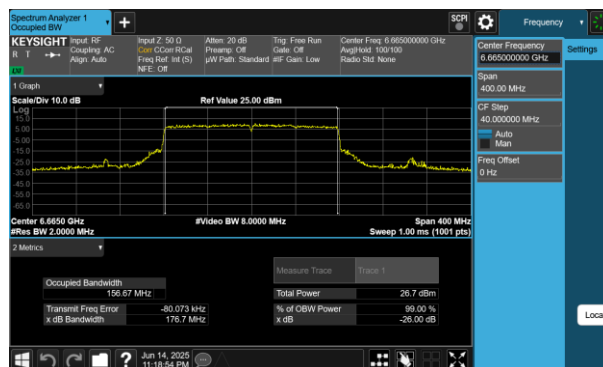
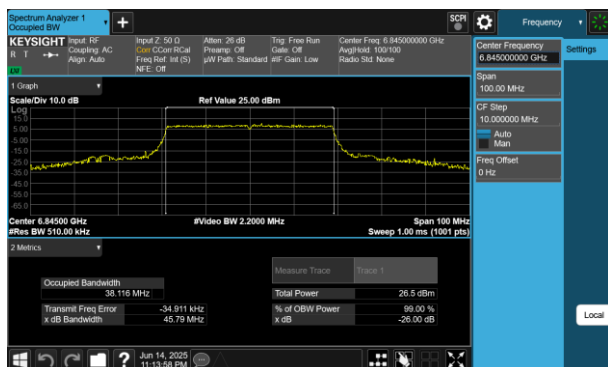


Plot 7-28 26dB BW & 99% OBW Antenna WF5B (80MHz BW
802.11be(RU) RU484+242 Index91 - Ch.151)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 28 of 635

V 11.0 05/2025

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FCC ID: BCGA3361 IC: 579C-A3361	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 29 of 635

7.2.2 Antenna WF5B 26dB & 99% Bandwidth Measurements – LPI

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	26	0	MCS5	18.47	20.40	320	Pass
	6175	45	be (20MHz)	26	8	MCS5	18.76	20.81	320	Pass
	6415	93	be (20MHz)	26	8	MCS5	18.44	20.23	320	Pass
	5965	3	be (40MHz)	26	8	MCS5	18.67	20.42	320	Pass
	6165	43	be (40MHz)	26	8	MCS5	18.75	20.32	320	Pass
	6405	91	be (40MHz)	26	8	MCS5	18.73	20.43	320	Pass
	5985	7	be (80MHz)	26	0	MCS5	18.34	20.30	320	Pass
	6145	39	be (80MHz)	26	0	MCS5	18.25	20.32	320	Pass
	6385	87	be (80MHz)	26	17	MCS5	18.25	20.26	320	Pass
	6025	15	be (160MHz)	26	36-L	MCS5	18.35	20.77	320	Pass
Band 6	6185	47	be (160MHz)	26	36-L	MCS5	18.30	20.60	320	Pass
	6345	79	be (160MHz)	26	0-L	MCS5	18.57	20.73	320	Pass
	6435	97	be (20MHz)	26	0	MCS5	18.46	20.08	320	Pass
	6475	105	be (20MHz)	26	0	MCS5	18.49	20.25	320	Pass
	6515	113	be (20MHz)	26	0	MCS5	18.41	20.22	320	Pass
	6445	99	be (40MHz)	26	8	MCS5	18.76	20.52	320	Pass
	6485	107	be (40MHz)	26	0	MCS5	18.18	20.49	320	Pass
	6525	115	be (40MHz)	26	8	MCS5	18.74	20.51	320	Pass
	6465	103	be (80MHz)	26	0	MCS5	18.33	20.31	320	Pass
	6505	111	be (160MHz)	26	0-L	MCS5	18.42	20.72	320	Pass
Band 7	6535	117	be (20MHz)	26	8	MCS5	18.36	20.20	320	Pass
	6695	149	be (20MHz)	26	0	MCS5	18.49	20.47	320	Pass
	6875	185	be (20MHz)	26	8	MCS5	18.22	20.27	320	Pass
	6565	123	be (40MHz)	26	8	MCS5	18.73	20.31	320	Pass
	6725	155	be (40MHz)	26	8	MCS5	18.81	20.68	320	Pass
	6845	179	be (40MHz)	26	8	MCS5	18.75	20.34	320	Pass
	6545	119	be (80MHz)	26	17	MCS5	18.32	20.27	320	Pass
	6705	151	be (80MHz)	26	0	MCS5	18.38	20.20	320	Pass
	6865	183	be (80MHz)	26	17	MCS5	18.13	20.43	320	Pass
	6665	143	be (160MHz)	26	36-L	MCS5	18.41	20.73	320	Pass
Band 8	6825	175	be (160MHz)	26	36-H	MCS5	18.39	20.63	320	Pass
	6895	189	be (20MHz)	26	8	MCS5	18.35	20.39	320	Pass
	6995	209	be (20MHz)	26	8	MCS5	18.34	20.15	320	Pass
	7095	229	be (20MHz)	26	8	MCS5	18.35	20.15	320	Pass
	6885	187	be (40MHz)	26	8	MCS5	18.81	20.48	320	Pass
	7005	211	be (40MHz)	26	8	MCS5	18.78	20.70	320	Pass
	7085	227	be (40MHz)	26	8	MCS5	18.72	20.74	320	Pass
	6945	199	be (80MHz)	26	0	MCS5	18.25	20.49	320	Pass
	7025	215	be (80MHz)	26	0	MCS5	18.28	20.35	320	Pass
	6985	207	be (160MHz)	26	0-L	MCS5	18.25	20.37	320	Pass

Table 7-5. Conducted Bandwidth Measurements Antenna WF5B (RU26)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 30 of 635

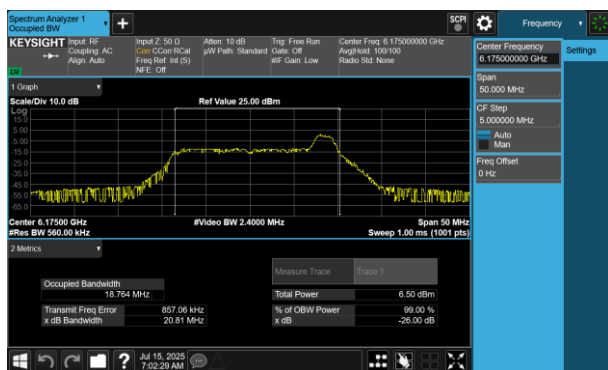
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	106+26	82	MCS5	18.17	21.24	320	Pass
	6175	45	be (20MHz)	106+26	82	MCS5	18.17	21.06	320	Pass
	6415	93	be (20MHz)	106+26	82	MCS5	18.15	21.24	320	Pass
	5985	7	be (80MHz)	484+242	92	MCS5	77.98	82.49	320	Pass
	6145	39	be (80MHz)	484+242	91	MCS5	77.88	82.60	320	Pass
	6385	87	be (80MHz)	484+242	91	MCS5	77.84	82.38	320	Pass
	6025	15	be (160MHz)	996+484+242	98-L	MCS5	156.65	164.53	320	Pass
	6185	47	be (160MHz)	996+484+242	97-L	MCS5	156.68	164.54	320	Pass
Band 6	6345	79	be (160MHz)	996+484+242	97-L	MCS5	157.08	164.79	320	Pass
	6435	97	be (20MHz)	106+26	82	MCS5	18.14	21.19	320	Pass
	6475	105	be (20MHz)	106+26	82	MCS5	18.23	21.57	320	Pass
	6515	113	be (20MHz)	106+26	82	MCS5	18.16	21.45	320	Pass
	6465	103	be (80MHz)	484+242	91	MCS5	77.78	82.74	320	Pass
Band 7	6505	111	be (160MHz)	996+484+242	99-L	MCS5	156.67	164.59	320	Pass
	6535	117	be (20MHz)	106+26	82	MCS5	18.17	21.41	320	Pass
	6695	149	be (20MHz)	106+26	82	MCS5	18.18	21.18	320	Pass
	6875	185	be (20MHz)	106+26	82	MCS5	18.16	21.23	320	Pass
	6545	119	be (80MHz)	484+242	91	MCS5	77.88	82.36	320	Pass
	6705	151	be (80MHz)	484+242	92	MCS5	77.82	82.57	320	Pass
	6865	183	be (80MHz)	484+242	92	MCS5	77.84	82.43	320	Pass
	6665	143	be (160MHz)	996+484+242	98-L	MCS5	156.71	164.65	320	Pass
Band 8	6825	175	be (160MHz)	996+484+242	99-L	MCS5	156.53	164.99	320	Pass
	6895	189	be (20MHz)	106+26	82	MCS5	18.12	21.11	320	Pass
	6995	209	be (20MHz)	106+26	82	MCS5	18.15	21.30	320	Pass
	7095	229	be (20MHz)	106+26	82	MCS5	18.15	21.01	320	Pass
	6945	199	be (80MHz)	484+242	92	MCS5	77.77	82.49	320	Pass
	7025	215	be (80MHz)	484+242	92	MCS5	77.83	82.41	320	Pass
	6985	207	be (160MHz)	996+484+242	97-L	MCS5	156.72	164.63	320	Pass

Table 7-6. Conducted Bandwidth Measurements Antenna WF5B (MRU)

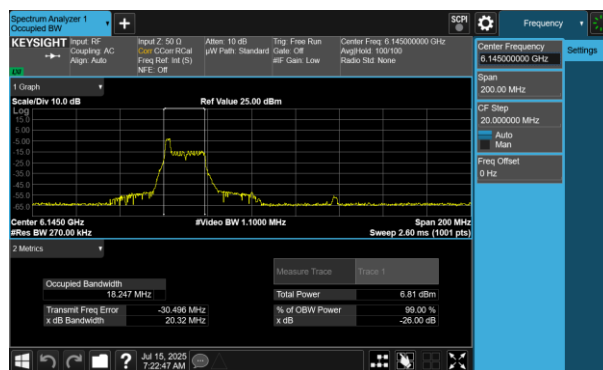
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	242	61	MCS5	19.04	22.52	320	Pass
	6175	45	be (20MHz)	242	61	MCS5	19.05	22.24	320	Pass
	6415	93	be (20MHz)	242	61	MCS5	19.03	22.43	320	Pass
	5965	3	be (40MHz)	484	65	MCS5	38.04	43.92	320	Pass
	6165	43	be (40MHz)	484	65	MCS5	38.01	44.24	320	Pass
	6405	91	be (40MHz)	484	65	MCS5	38.02	44.06	320	Pass
	5985	7	be (80MHz)	996	67	MCS5	77.45	82.56	320	Pass
	6145	39	be (80MHz)	996	67	MCS5	77.58	82.36	320	Pass
	6385	87	be (80MHz)	996	67	MCS5	77.47	82.61	320	Pass
	6025	15	be (160MHz)	996x2	68	MCS5	156.51	172.10	320	Pass
	6185	47	be (160MHz)	996x2	68	MCS5	156.33	173.91	320	Pass
Band 6	6345	79	be (160MHz)	996x2	68	MCS5	156.54	179.01	320	Pass
	6435	97	be (20MHz)	242	61	MCS5	19.03	22.30	320	Pass
	6475	105	be (20MHz)	242	61	MCS5	19.03	22.39	320	Pass
	6515	113	be (20MHz)	242	61	MCS5	19.03	22.36	320	Pass
	6445	99	be (40MHz)	484	65	MCS5	38.01	44.51	320	Pass
	6485	107	be (40MHz)	484	65	MCS5	38.03	43.99	320	Pass
	6525	115	be (40MHz)	484	65	MCS5	38.05	43.63	320	Pass
	6465	103	be (80MHz)	996	67	MCS5	77.54	82.48	320	Pass
Band 7	6505	111	be (160MHz)	996x2	68	MCS5	156.67	164.33	320	Pass
	6535	117	be (20MHz)	242	61	MCS5	19.01	22.22	320	Pass
	6695	149	be (20MHz)	242	61	MCS5	19.03	22.07	320	Pass
	6875	185	be (20MHz)	242	61	MCS5	19.06	22.36	320	Pass
	6565	123	be (40MHz)	484	65	MCS5	38.06	43.81	320	Pass
	6725	155	be (40MHz)	484	65	MCS5	38.04	43.65	320	Pass
	6845	179	be (40MHz)	484	65	MCS5	38.09	44.04	320	Pass
	6545	119	be (80MHz)	996	67	MCS5	77.50	82.35	320	Pass
	6705	151	be (80MHz)	996	67	MCS5	77.50	82.31	320	Pass
	6865	183	be (80MHz)	996	67	MCS5	77.49	82.56	320	Pass
	6665	143	be (160MHz)	996x2	68	MCS5	156.50	172.80	320	Pass
Band 8	6825	175	be (160MHz)	996x2	68	MCS5	156.43	170.98	320	Pass
	6895	189	be (20MHz)	242	61	MCS5	19.02	22.53	320	Pass
	6995	209	be (20MHz)	242	61	MCS5	19.04	22.36	320	Pass
	7115	233	be (20MHz)	242	61	MCS5	19.01	22.39	320	Pass
	6885	187	be (40MHz)	484	65	MCS5	38.01	43.37	320	Pass
	7005	211	be (40MHz)	484	65	MCS5	38.00	43.72	320	Pass
	7085	227	be (40MHz)	484	65	MCS5	37.99	43.86	320	Pass
	6945	199	be (80MHz)	996	67	MCS5	77.41	82.81	320	Pass
	7025	215	be (80MHz)	996	67	MCS5	77.50	82.33	320	Pass
	6985	207	be (160MHz)	996x2	68	MCS5	156.58	169.64	320	Pass

Table 7-7. Conducted Bandwidth Measurements Antenna WF5B (Fully – Loaded RU)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 31 of 635



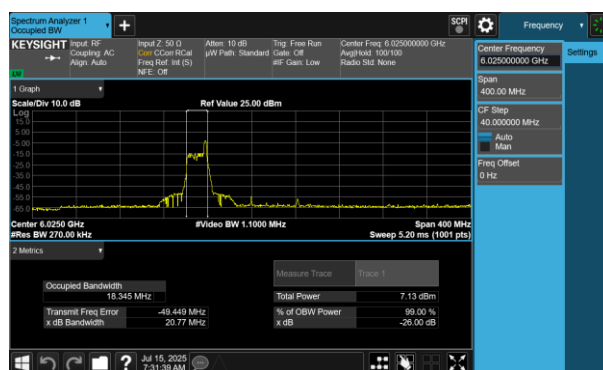
Plot 7-34 26dB BW & 99% OBW Antenna WF5B (20MHz BW
802.11be(RU) RU26 Index8 - Ch.45)



Plot 7-36 26dB BW & 99% OBW Antenna WF5B (80MHz BW
802.11be(RU) RU26 Index0 - Ch.39)



Plot 7-35 26dB BW & 99% OBW Antenna WF5B (40MHz BW
802.11be(RU) RU26 Index8 - Ch.91)

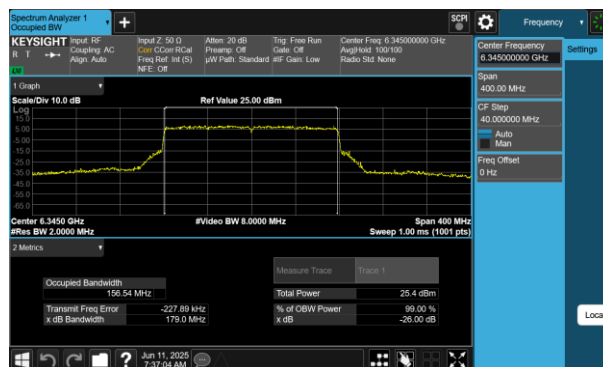
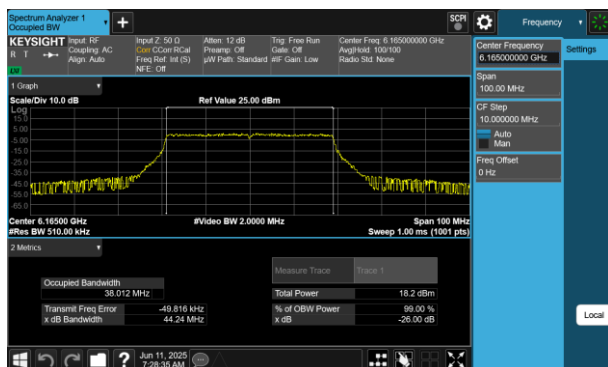
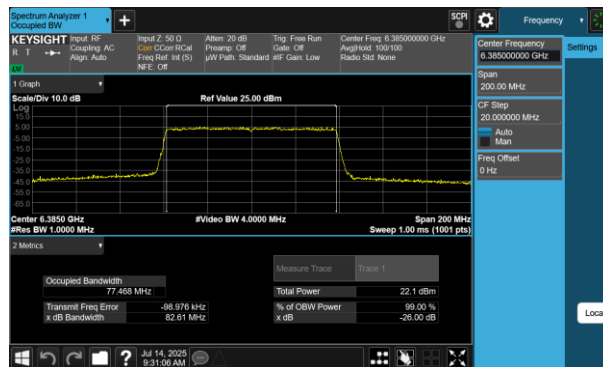
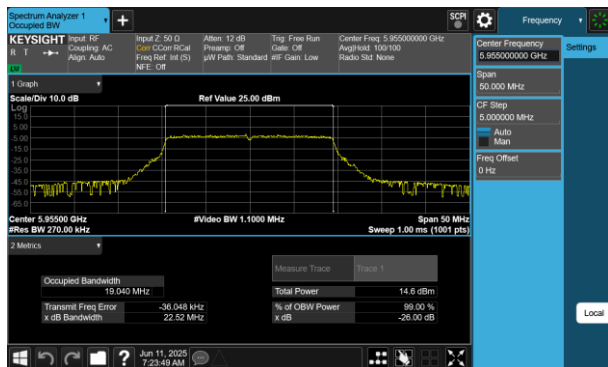


Plot 7-37 26dB BW & 99% OBW Antenna WF5B (160MHz BW
802.11be(RU) RU26 Index17 - Ch.15)

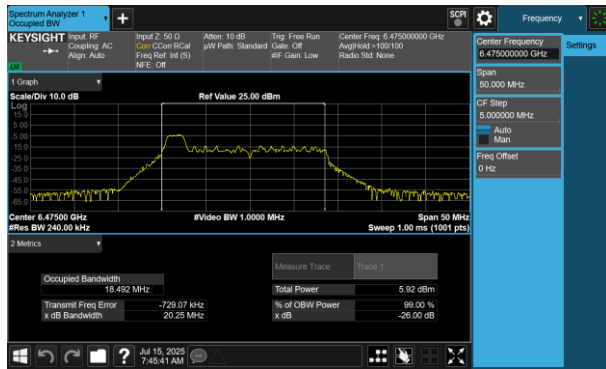
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Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 32 of 635

FCC ID: BCGA3361 IC: 579C-A3361	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 33 of 635

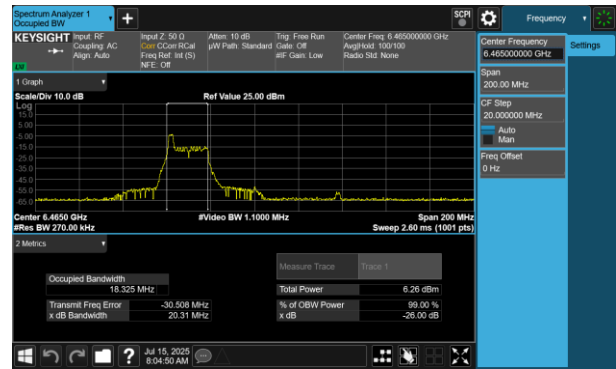
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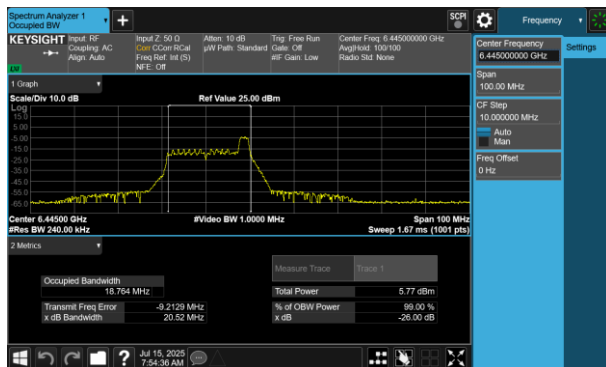
FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 34 of 635



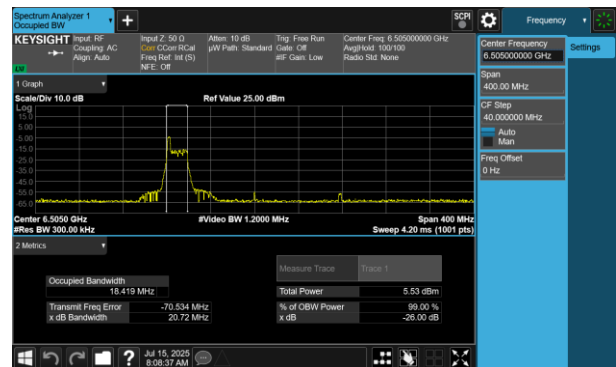
Plot 7-45 26dB BW & 99% OBW Antenna WF5B (20MHz BW
802.11be(RU) RU26 Index0 - Ch.105)



Plot 7-47 26dB BW & 99% OBW Antenna WF5B (80MHz BW
802.11be(RU) RU26 Index0 - Ch.103)

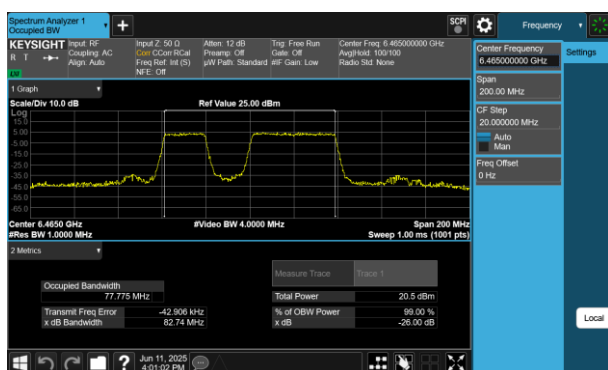
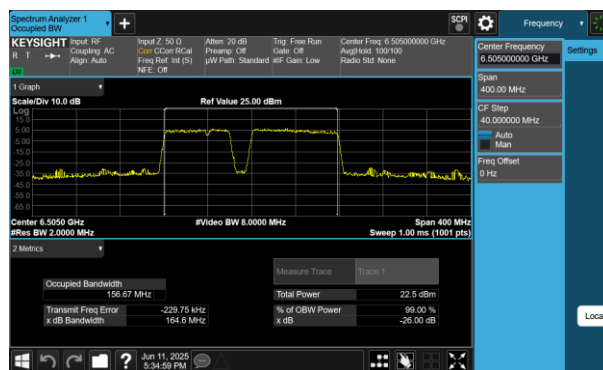
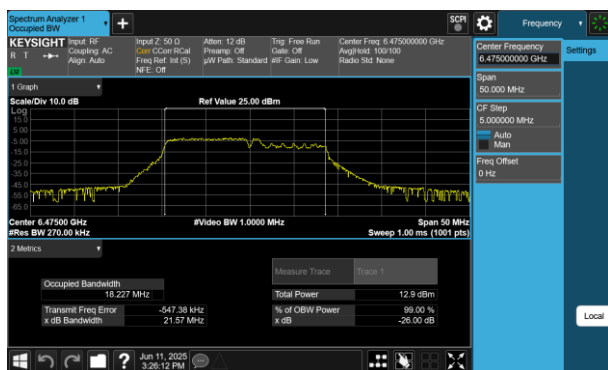


Plot 7-46 26dB BW & 99% OBW Antenna WF5B (40MHz BW
802.11be(RU) RU26 Index8 - Ch.99)



Plot 7-48 26dB BW & 99% OBW Antenna WF5B (160MHz BW
802.11be(RU) RU26 Index0 - Ch.111)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 35 of 635



FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 36 of 635

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input RF
Tone/Mod: Off
Align: Auto

Input 2: 50.0
Gain: 0.00 dB
Freq Ref: Int (3)
NPL: Off

Attenu: 12.0 dB
Preamp: Off
Fwd Ref: Int (3)
dW Path: Standard
dB Gain: Low

Center Freq: 6.45500000 GHz
Avg/Mod: 100 Hz
Radio Std: None

Center Frequency
6.45500000 GHz

Settings

Span
200.00 MHz

CF Sweep
20.0000000 MHz

☒ Auto
☐ Man

Freq Offset
0 Hz

Scale/Div 10.0 dB
Log

Ref Value 25.00 dBm

Center 6.45500000 GHz
Span 200 MHz
#Res BW 1.0009 MHz
#Video BW 4.0000 MHz
Sweep 1.00 ms (1001 pts)

2 Metrics

Measure Trace	Trace 1
Occupied Bandwidth	
77.537 MHz	
Total Power	21.9 dBm
Transmit Freq Error	-58.180 MHz
% of CBW Power	99.00 %
% dB Bandwidth	82.48 MHz
% dB	-26.00 dB

Jun 11, 2025
7:45:28 AM

The screenshot displays the Keysight Spectrum Analyzer software interface. The main window shows a frequency spectrum plot with a yellow trace. A horizontal white line indicates the reference level at 25.00 dBm. The plot shows a signal with a peak at 6.445 GHz, which is within the 6.440 GHz to 6.450 GHz range specified in the table. The plot also shows noise floor and other signal components.

Keysight Spectrum Analyzer 1
Occupied BW
 R 1 0 dB
 Input RF
 Coaxial A2
 Align: Auto
 Input 2: 50.0
 Gen: Noise
 Freq Ref Int (S)
 N/E: Off
 Alton 12 dB
 Power: Off
 μW Path: Standard
 #F: Gain Low
 Trig: Free Run
 Gate: Off
 #F: Gain Low
 Center Freq: 6.445000000 GHz
 Resolution: 100.000
 Radio Sht: None

Center Frequency
 6.445000000 GHz

Span
 100.00 MHz

CF Step
 10.000000 MHz

Auto
 Main

Freq Offset
 0 Hz

Center: 6.4450 GHz
uses BW 510.00 kHz

#Video BW 2.0000 MHz

Span 100 MHz
Sweep 1.00 ms (1500 pts)

2 Micks

Occupied Bandwidth
 38.014 MHz

Transmit Freq Error
 -49.730 MHz

x dB Bandwidth
 44.51 MHz

Measure Trace
 Trace 1

Total Power
 17.8 dBm

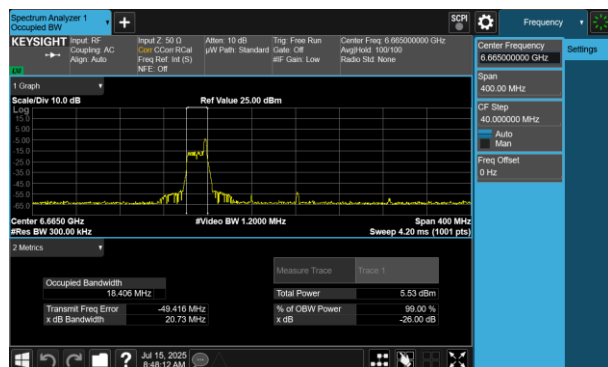
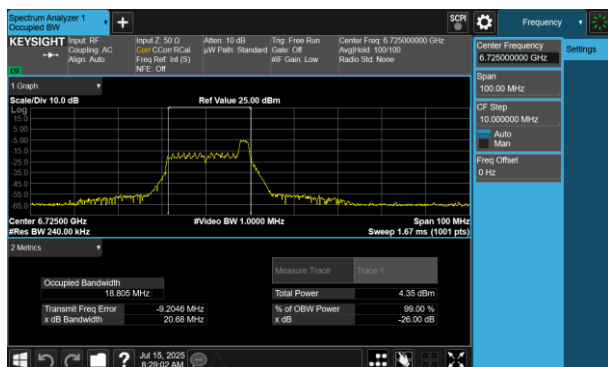
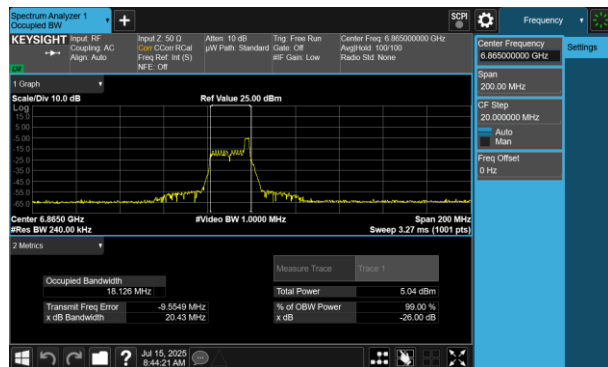
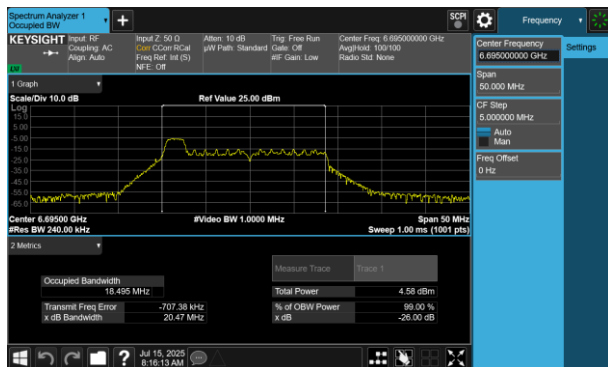
% of CBW Power
 99.00 %

x dB
 -26.00 dB

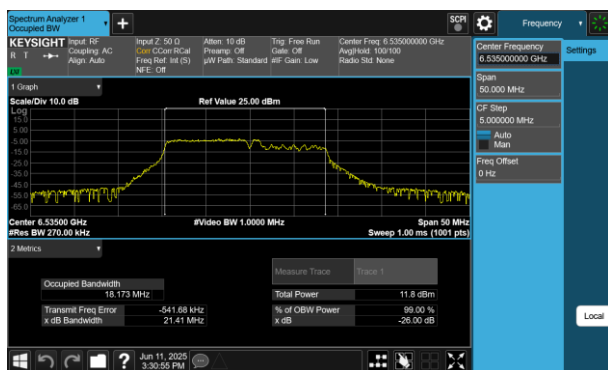
Local

[illegible]

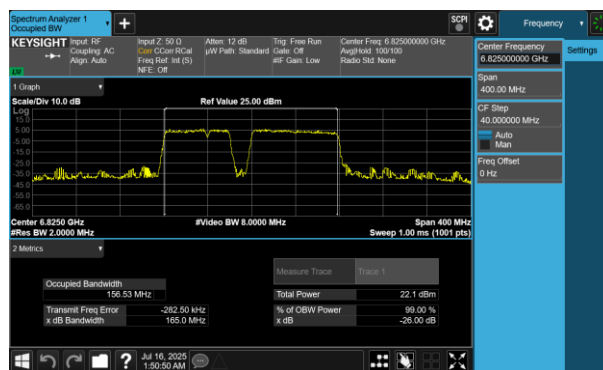
V 11.0 05/2025



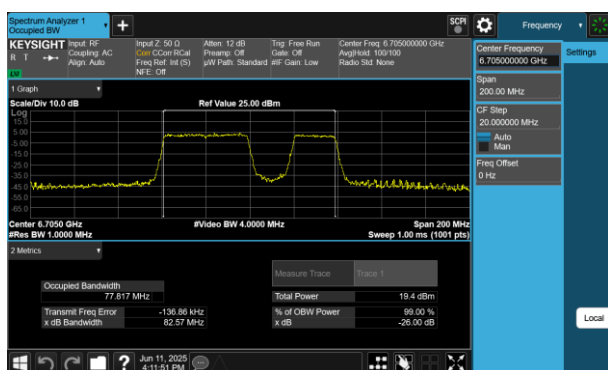
FCC ID: BCGA3361 IC: 579C-A3361			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 38 of 635	



Plot 7-60 26dB BW & 99% OBW Antenna WF5B (20MHz BW
802.11be(RU) RU106+26 Index82 - Ch.117)



Plot 7-62 26dB BW & 99% OBW Antenna WF5B (160MHz BW
802.11be(RU) RU996+484+242 Index99 - Ch.175)

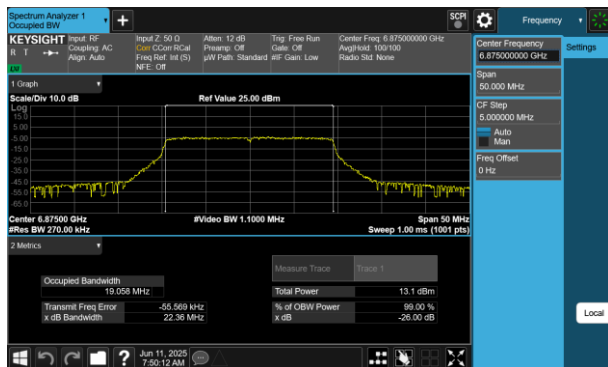


Plot 7-61 26dB BW & 99% OBW Antenna WF5B (80MHz BW
802.11be(RU) RU484+242 Index92 - Ch.151)

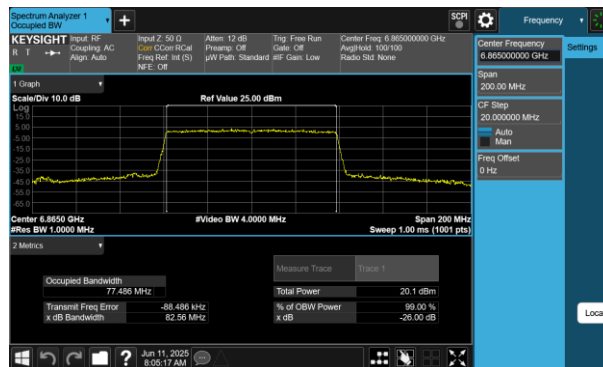
FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 39 of 635

V 11.0 05/2025

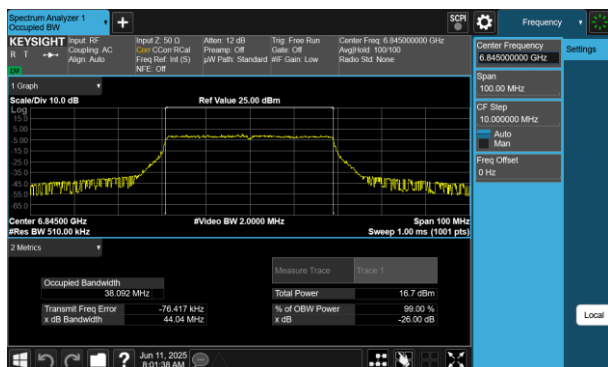
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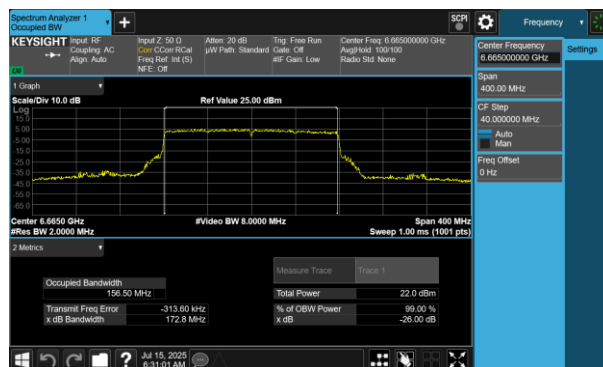
Plot 7-63 26dB BW & 99% OBW Antenna WF5B (20MHz BW
802.11be(RU) RU242 Index61 - Ch.185)



Plot 7-65 26dB BW & 99% OBW Antenna WF5B (80MHz BW
802.11be(RU) RU996 Index67 - Ch.183)

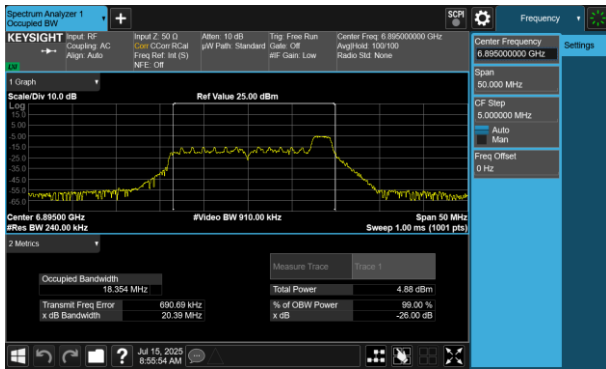


Plot 7-64 26dB BW & 99% OBW Antenna WF5B (40MHz BW
802.11be(RU) RU484 Index65 - Ch.179)

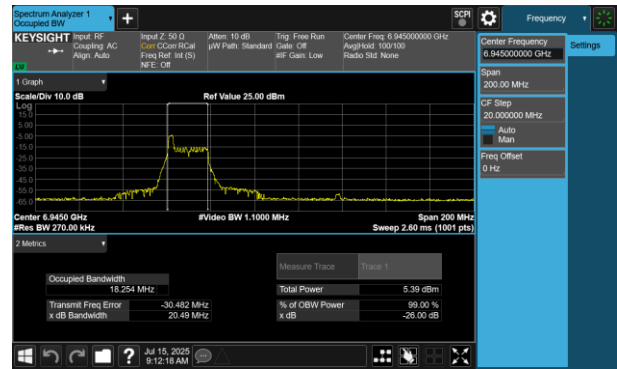


Plot 7-66 26dB BW & 99% OBW Antenna WF5B (160MHz BW
802.11be(RU) RU996X2 Index68 - Ch.143)

FCC ID: BCGA3361 IC: 579C-A3361			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device		Page 40 of 635



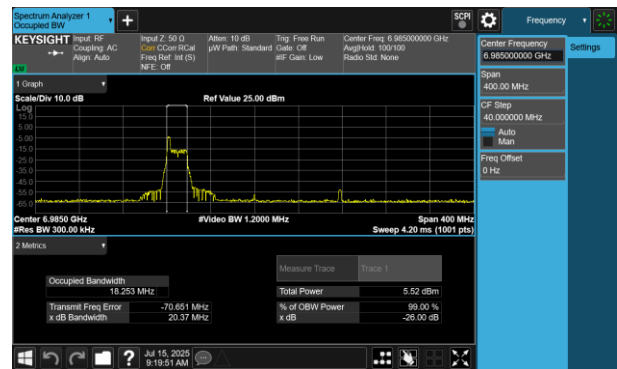
Plot 7-67 26dB BW & 99% OBW Antenna WF5B (20MHz BW
802.11be(RU) RU26 Index8 - Ch.189)



Plot 7-69 26dB BW & 99% OBW Antenna WF5B (80MHz BW
802.11be(RU) RU26 Index0 - Ch.199)

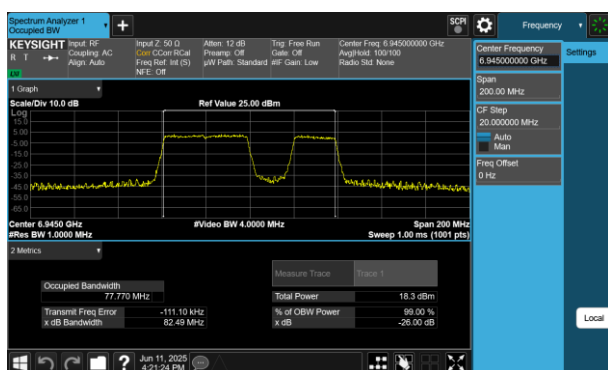
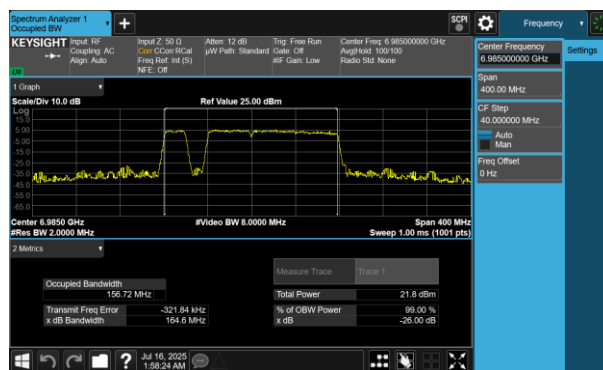
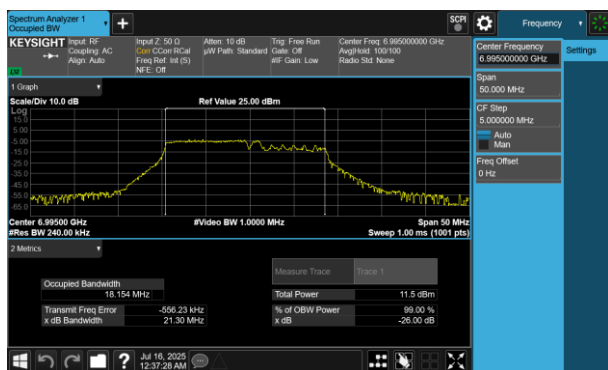


Plot 7-68 26dB BW & 99% OBW Antenna WF5B (40MHz BW
802.11be(RU) RU26 Index8 - Ch.227)



Plot 7-70 26dB BW & 99% OBW Antenna WF5B (160MHz BW
802.11be(RU) RU26 Index0 - Ch.207)

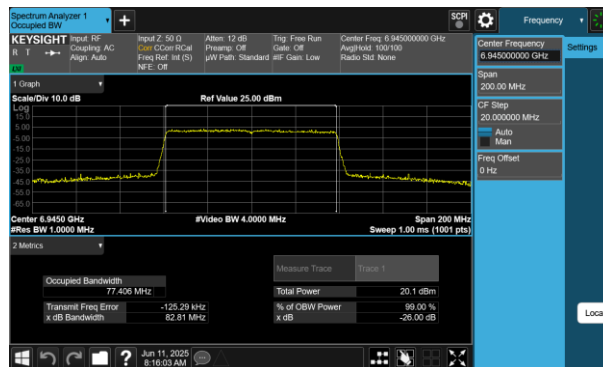
FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 41 of 635



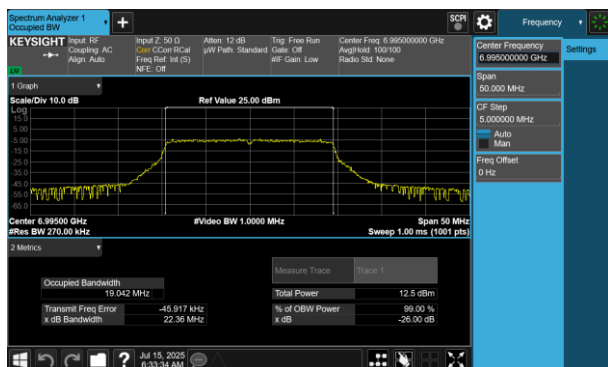
FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 42 of 635



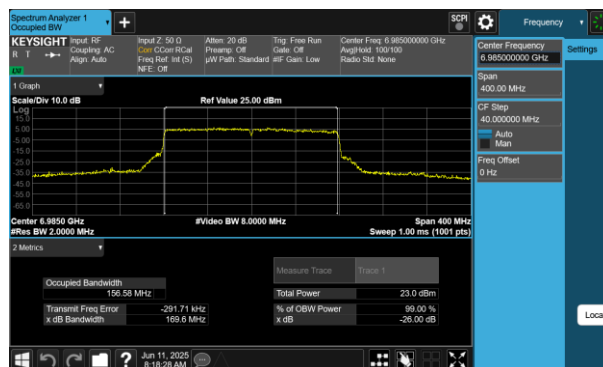
Plot 7-74 26dB BW & 99% OBW Antenna WF5B (20MHz BW
802.11be(RU) RU242 Index61 - Ch.189)



Plot 7-76 26dB BW & 99% OBW Antenna WF5B (80MHz BW
802.11be(RU) RU996 Index67 - Ch.199)



Plot 7-75 26dB BW & 99% OBW Antenna WF5B (20MHz BW
802.11be(RU) RU242 Index61 - Ch.209)



Plot 7-77 26dB BW & 99% OBW Antenna WF5B (160MHz BW
802.11be(RU) RU996X2 Index68 - Ch.207)

FCC ID: BCGA3361 IC: 579C-A3361			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device		Page 43 of 635

7.2.3 Antenna 4a 26dB & 99% Bandwidth Measurements – SP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	26	8	MCS5	18.41	20.19	320	Pass
	6175	45	be (20MHz)	26	8	MCS5	18.34	20.29	320	Pass
	6415	93	be (20MHz)	26	8	MCS5	18.40	20.17	320	Pass
	5965	3	be (40MHz)	26	8	MCS5	18.75	20.53	320	Pass
	6165	43	be (40MHz)	26	8	MCS5	18.72	20.36	320	Pass
	6405	91	be (40MHz)	26	8	MCS5	18.80	20.47	320	Pass
	5985	7	be (80MHz)	26	0	MCS5	18.24	20.25	320	Pass
	6145	39	be (80MHz)	26	0	MCS5	18.25	20.60	320	Pass
	6385	87	be (80MHz)	26	36	MCS5	18.28	20.31	320	Pass
	6025	15	be (160MHz)	26	0-L	MCS5	18.47	20.87	320	Pass
Band 6	6185	47	be (160MHz)	26	36-L	MCS5	18.22	20.60	320	Pass
	6345	79	be (160MHz)	26	0-L	MCS5	18.45	20.73	320	Pass
	6435	97	be (20MHz)	26	0	MCS5	18.53	20.19	320	Pass
	6475	105	be (20MHz)	26	0	MCS5	18.50	20.35	320	Pass
	6515	113	be (20MHz)	26	8	MCS5	18.33	20.04	320	Pass
	6445	99	be (40MHz)	26	8	MCS5	18.76	20.25	320	Pass
	6485	107	be (40MHz)	26	8	MCS5	18.70	20.54	320	Pass
	6525	115	be (40MHz)	26	8	MCS5	18.73	20.38	320	Pass
	6465	103	be (80MHz)	26	0	MCS5	18.31	20.33	320	Pass
	6505	111	be (160MHz)	26	0-L	MCS5	18.53	20.90	320	Pass
Band 7	6535	117	be (20MHz)	26	8	MCS5	18.33	20.29	320	Pass
	6695	149	be (20MHz)	26	0	MCS5	18.38	20.34	320	Pass
	6855	181	be (20MHz)	26	8	MCS5	18.34	20.30	320	Pass
	6565	123	be (40MHz)	26	8	MCS5	18.95	20.65	320	Pass
	6725	155	be (40MHz)	26	0	MCS5	18.25	20.61	320	Pass
	6845	179	be (40MHz)	26	8	MCS5	18.79	20.48	320	Pass
	6545	119	be (80MHz)	26	0	MCS5	18.24	20.33	320	Pass
	6705	151	be (80MHz)	26	17	MCS5	18.21	20.49	320	Pass
	6785	167	be (80MHz)	26	0	MCS5	18.35	20.08	320	Pass
	6665	143	be (160MHz)	26	36-H	MCS5	18.31	20.69	320	Pass

Table 7-8. Conducted Bandwidth Measurements Antenna 4a (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5935	1	be (20MHz)	106+26	83	MCS5	18.08	20.87	320	Pass
	6175	45	be (20MHz)	106+26	82	MCS5	18.19	21.39	320	Pass
	6415	93	be (20MHz)	106+26	82	MCS5	18.17	21.17	320	Pass
	5985	7	be (80MHz)	484+242	91	MCS5	78.42	125.84	320	Pass
	6145	39	be (80MHz)	484+242	91	MCS5	80.14	142.36	320	Pass
	6385	87	be (80MHz)	484+242	91	MCS5	78.49	126.95	320	Pass
	6025	15	be (160MHz)	996+484+242	98-L	MCS5	157.49	285.68	320	Pass
	6185	47	be (160MHz)	996+484+242	97-L	MCS5	157.83	304.21	320	Pass
	6345	79	be (160MHz)	996+484+242	97-L	MCS5	158.49	306.78	320	Pass
	6345	97	be (20MHz)	106+26	82	MCS5	18.20	21.12	320	Pass
Band 6	6475	105	be (20MHz)	106+26	82	MCS5	18.18	21.28	320	Pass
	6515	113	be (20MHz)	106+26	82	MCS5	18.16	21.38	320	Pass
	6465	103	be (80MHz)	484+242	91	MCS5	78.75	132.12	320	Pass
	6505	111	be (160MHz)	996+484+242	96-L	MCS5	138.42	288.94	320	Pass
	6535	117	be (20MHz)	106+26	82	MCS5	18.18	21.39	320	Pass
Band 7	6695	149	be (20MHz)	106+26	82	MCS5	18.19	21.69	320	Pass
	6875	181	be (20MHz)	106+26	82	MCS5	18.14	21.23	320	Pass
	6545	119	be (80MHz)	484+242	91	MCS5	78.56	126.26	320	Pass
	6705	151	be (80MHz)	484+242	91	MCS5	78.43	123.65	320	Pass
	6865	167	be (80MHz)	484+242	91	MCS5	78.39	126.84	320	Pass
	6665	143	be (160MHz)	996+484+242	96-L	MCS5	138.71	295.02	320	Pass

Table 7-9. Conducted Bandwidth Measurements Antenna 4a (MRU)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 44 of 635

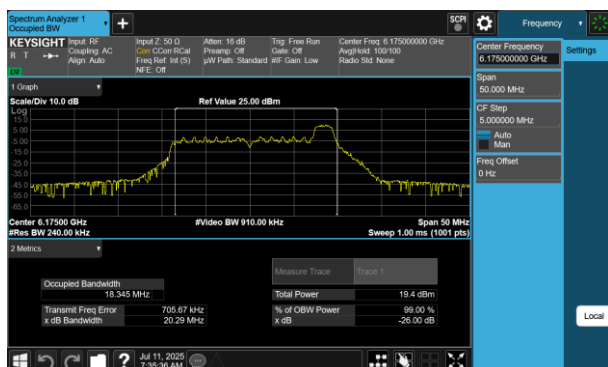
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Mbeimum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	be (20MHz)	242	61	MCS5	19.27	23.09	320	Pass
	6175	45	be (20MHz)	242	61	MCS5	19.08	22.65	320	Pass
	6415	93	be (20MHz)	242	61	MCS5	19.03	22.58	320	Pass
	5965	3	be (40MHz)	484	65	MCS5	38.03	43.19	320	Pass
	6165	43	be (40MHz)	484	65	MCS5	38.08	44.35	320	Pass
	6405	91	be (40MHz)	484	65	MCS5	38.04	44.38	320	Pass
	5985	7	be (80MHz)	996	67	MCS5	77.70	94.45	320	Pass
	6145	39	be (80MHz)	996	67	MCS5	77.63	82.76	320	Pass
	6385	87	be (80MHz)	996	67	MCS5	77.61	94.44	320	Pass
	6025	15	be (160MHz)	996x2	68	MCS5	156.42	179.71	320	Pass
Band 6	6185	47	be (160MHz)	996x2	68	MCS5	156.86	180.71	320	Pass
	6345	79	be (160MHz)	996x2	68	MCS5	156.86	182.99	320	Pass
	6435	97	be (20MHz)	242	61	MCS5	19.07	22.46	320	Pass
	6475	105	be (20MHz)	242	61	MCS5	19.05	22.93	320	Pass
	6515	113	be (20MHz)	242	61	MCS5	19.10	22.70	320	Pass
	6445	99	be (40MHz)	484	65	MCS5	38.09	43.92	320	Pass
	6485	107	be (40MHz)	484	65	MCS5	38.04	43.62	320	Pass
	6525	115	be (40MHz)	484	65	MCS5	38.07	43.73	320	Pass
	6465	103	be (80MHz)	996	67	MCS5	77.64	82.49	320	Pass
	6505	111	be (160MHz)	996x2	68	MCS5	156.52	174.67	320	Pass
Band 7	6535	117	be (20MHz)	242	61	MCS5	19.06	23.03	320	Pass
	6695	149	be (20MHz)	242	61	MCS5	19.05	22.64	320	Pass
	6855	181	be (20MHz)	242	61	MCS5	19.06	22.56	320	Pass
	6565	123	be (40MHz)	484	65	MCS5	38.03	43.81	320	Pass
	6725	155	be (40MHz)	484	65	MCS5	38.08	43.61	320	Pass
	6845	179	be (40MHz)	484	65	MCS5	38.09	44.28	320	Pass
	6545	119	be (80MHz)	996	67	MCS5	77.65	95.18	320	Pass
	6705	151	be (80MHz)	996	67	MCS5	77.61	82.46	320	Pass
	6785	167	be (80MHz)	996	67	MCS5	77.65	94.84	320	Pass
	6665	143	be (160MHz)	996x2	68	MCS5	156.58	176.29	320	Pass

Table 7-10. Conducted Bandwidth Measurements Antenna 4a (Fully – Loaded RU)

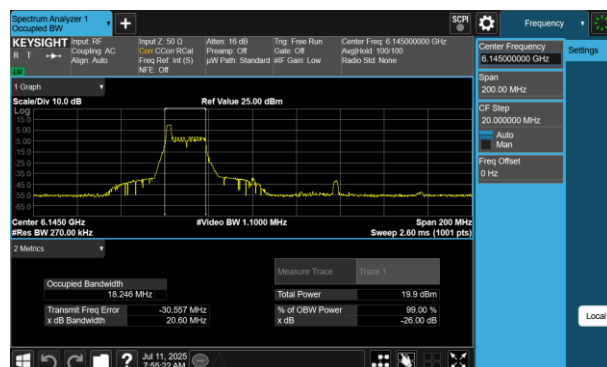
FCC ID: BCGA3361 IC: 579C-A3361	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	Page 45 of 635

V 11.0 05/2025

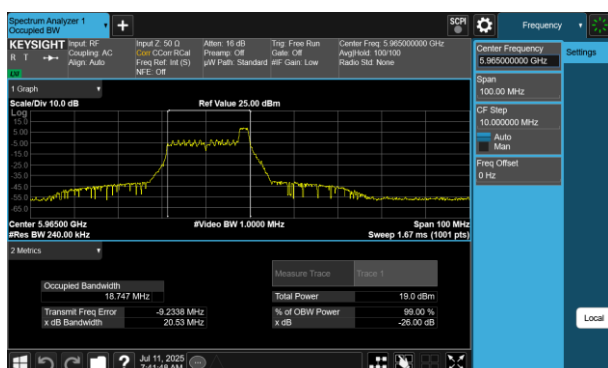
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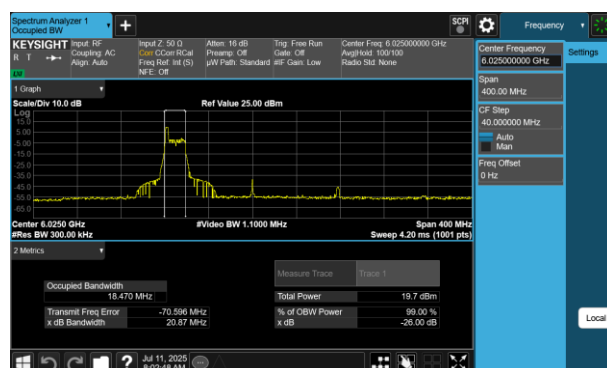
Plot 7-78 26dB BW & 99% OBW Antenna 4a(20MHz BW 802.11be(RU) RU26 Index8 - Ch.45)



Plot 7-80 26dB BW & 99% OBW Antenna 4a(80MHz BW 802.11be(RU) RU26 Index0 - Ch.39)



Plot 7-79 26dB BW & 99% OBW Antenna 4a(40MHz BW 802.11be(RU) RU26 Index8 - Ch.3)

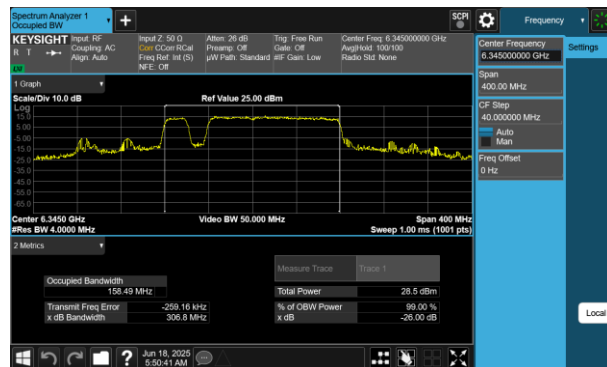


Plot 7-81 26dB BW & 99% OBW Antenna 4a(160MHz BW 802.11be(RU) RU26 Index0 - Ch.15)

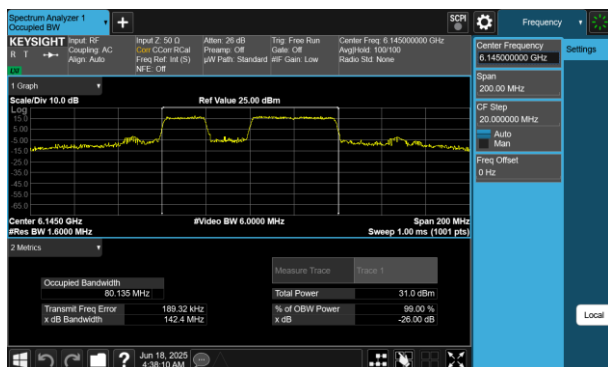
FCC ID: BCGA3361 IC: 579C-A3361			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device		Page 46 of 635



Plot 7-82 26dB BW & 99% OBW Antenna 4a(20MHz BW 802.11be(RU) RU106+26 Index82 - Ch.45)



Plot 7-84 26dB BW & 99% OBW Antenna 4a(160MHz BW 802.11be(RU) RU996+484+242 Index97 - Ch.79)



Plot 7-83 26dB BW & 99% OBW Antenna 4a(80MHz BW 802.11be(RU) RU484+242 Index91 - Ch.39)

FCC ID: BCGA3361 IC: 579C-A3361		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170041-25-R2.BCG			Page 47 of 635
	Test Dates: 05/12/2025 - 08/13/2025	EUT Type: Tablet Device	

V 11.0 05/2025

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