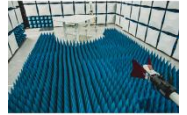




ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)
18855 Adams Court, Morgan Hill, CA 95037 USA
Tel. 408.538.5600
<http://www.element.com>



MEASUREMENT REPORT

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

Applicant Name:

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

Date of Testing:

5/12/2025 - 8/26/2025

Test Report Issue Date:

9/2/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170038-17-R1.BCG

FCC ID:

BCGA3357

IC:

579C-A3357

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3357

EUT Type:

Tablet Device

Frequency Range:

6115 – 7115MHz

Modulation Type:

OFDM

FCC Classification:

15E 6 GHz Very Low Power Device (6VL)

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 C63.10-2020 and KDB 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2504170038-17-R1.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: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 1 of 188

V 11.0 05/2025

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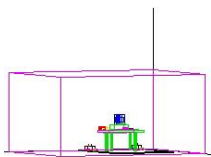
TABLE OF CONTENTS

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	9
2.4	Test Support Equipment	9
2.5	Test Configuration	10
2.6	Software and Firmware	10
2.7	EMI Suppression Device(s)/Modifications	10
3.0	DESCRIPTION OF TESTS	11
3.1	Evaluation Procedure	11
3.2	AC Line Conducted Emissions	11
3.3	Radiated Emissions	12
3.4	Environmental Conditions	12
4.0	ANTENNA REQUIREMENTS	13
5.0	MEASUREMENT UNCERTAINTY	14
6.0	TEST EQUIPMENT CALIBRATION DATA	15
7.0	TEST RESULTS	16
7.1	Summary	16
7.2	26dB & 99% Bandwidth Measurement	17
7.3	Conducted Output Power and Max EIRP Measurement	33
7.4	Maximum Power Spectral Density	43
7.5	In-Band Emissions	70
7.6	Contention Based Protocol	91
7.7	Transmit Power Control (TPC)	112
7.8	Radiated Spurious Emissions – Above 1GHz	115
7.9	Radiated Spurious Emissions – Below 1GHz	177
7.10	AC Line-Conducted Emissions Measurement	182
8.0	CONCLUSION	188

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 2 of 188

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 WF8		Antenna WF7		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	802.11a/be	6115 - 6415	3.278	5.16	3.316	5.21	2.782	4.44	3.251	5.12	3.020	4.80
6		802.11a/be	6435 - 6515	2.399	3.80	3.311	5.20	3.311	5.20	2.630	4.20	3.198	5.05
7		802.11a/be	6535 - 6875	3.159	5.00	3.350	5.25	2.690	4.30	3.212	5.07	2.924	4.66
8		802.11a/be	6895 - 7115	3.255	5.13	3.231	5.09	1.801	2.55	3.261	5.13	2.298	3.61
5	40	802.11be	6125 - 6405	6.720	8.27	6.761	8.30	5.495	7.40	6.581	8.18	6.734	8.28
6		802.11be	6445 - 6525	5.955	7.75	6.233	7.95	6.193	7.92	6.178	7.91	6.164	7.90
7		802.11be	6565 - 6845	6.265	7.97	6.162	7.90	5.346	7.28	6.206	7.93	6.221	7.94
8		802.11be	6885 - 7085	6.336	8.02	6.067	7.83	3.274	5.15	6.242	7.95	6.199	7.92
5	80	802.11be	6145 - 6385	12.975	11.13	13.443	11.29	11.205	10.49	13.160	11.19	11.859	10.74
6		802.11be	6465	9.550	9.80	13.459	11.29	13.183	11.20	11.016	10.42	13.057	11.16
7		802.11be	6545 - 6865	13.152	11.19	12.930	11.12	11.233	10.51	12.412	10.94	11.482	10.60
8		802.11be	6945 - 7025	13.262	11.23	12.859	11.09	7.468	8.73	12.311	10.90	9.150	9.61
5	160	802.11be	6185 - 6345	19.329	12.86	19.360	12.87	16.474	12.17	19.198	12.83	17.034	12.31
6		802.11be	6505	12.612	11.01	16.218	12.10	17.832	12.51	13.615	11.34	16.138	12.08
7		802.11be	6665 - 6825	19.373	12.87	19.507	12.90	16.233	12.10	18.528	12.68	17.062	12.32
8		802.11be	6985	19.467	12.89	18.647	12.71	10.834	10.35	19.156	12.82	13.849	11.41

EUT Overview

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 3 of 188

V 11.0 05/2025

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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 ISCED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISCED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISCED Canada as designated by NIST under the U.S. and Canada Mutual Agreements (MRAs)

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 4 of 188

V 11.0 05/2025

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA3357** and **IC: 579C-A3357**. 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.: RPWJKH9CYJ, GD61J47D62, G4574YVFP6, LK49HQNCQ5, H9HHG5000JS0000SDF

2.2 Device Capabilities

This device contains the following capabilities:

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.

VLP channels below 6105 MHz in the UNII-5 band are disabled in the US and its territories.

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 5 of 188

Band 5

Ch.	Frequency (MHz)
33	6115
:	:
61	6255
:	:
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)
35	6125
:	:
59	6245
:	:
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)
39	6145
:	:
55	6225
:	:
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)
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

Notes:

- 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 WF8		Antenna WF7		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]
a (Low Data Rate)	98.40	0.07	98.56	0.06	98.11	0.08	98.20	0.08	98.72	0.06
a (Mid Data Rate)	96.07	0.17	96.23	0.17	96.14	0.17	96.23	0.17	96.07	0.17
a (High Data Rate)	93.41	0.30	93.30	0.30	93.20	0.31	93.00	0.32	93.00	0.32
be(SU) (EHT20) (Low Data Rate)	98.24	0.08	98.24	0.08	97.81	0.10	98.02	0.09	98.06	0.09
be(SU) (EHT20) (Mid Data Rate)	94.60	0.24	94.43	0.25	94.43	0.25	94.49	0.25	94.25	0.26
be(SU) (EHT20) (High Data Rate)	90.68	0.43	90.87	0.42	91.22	0.40	90.87	0.42	90.78	0.42
be(SU) (EHT40) (Low Data Rate)	97.07	0.13	96.49	0.16	96.67	0.15	96.94	0.14	96.67	0.15
be(SU) (EHT40) (Mid Data Rate)	90.87	0.42	90.87	0.42	90.97	0.41	91.08	0.41	90.95	0.41
be(SU) (EHT40) (High Data Rate)	86.74	0.62	86.52	0.63	86.74	0.62	86.74	0.62	86.52	0.63
be(SU) (EHT80) (Low Data Rate)	94.54	0.24	94.02	0.27	94.21	0.26	94.21	0.26	94.21	0.26
be(SU) (EHT80) (Mid Data Rate)	86.02	0.65	86.20	0.65	86.02	0.65	86.46	0.63	86.02	0.65
be(SU) (EHT80) (High Data Rate)	82.07	0.86	81.85	0.87	81.85	0.87	81.21	0.90	81.79	0.87
be(SU) (EHT160) (Low Data Rate)	90.45	0.44	90.84	0.42	90.45	0.44	90.57	0.43	90.45	0.44
be(SU) (EHT160) (Mid Data Rate)	81.26	0.90	81.26	0.90	81.79	0.87	81.21	0.90	81.21	0.90
be(SU) (EHT160) (High Data Rate)	78.31	1.06	77.89	1.09	78.31	1.06	78.23	1.07	78.31	1.06

Table 2-5. Measured Duty Cycles

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

WiFi Configurations		SISO			CDD			SDM			STBC		
		Antenna WF5B	Antenna WF8	Antenna WF7	Antenna WF5B	Antenna WF8	Antenna WF7	Antenna WF5B	Antenna WF8	Antenna WF7	Antenna WF5B	Antenna WF8	Antenna WF7
5GHz	11a	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
	11ax/be(SU) (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax/be(SU) (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax/be(SU) (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax/be(SU) (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

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 7 of 188

V 11.0 05/2025

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

802.11a	MCS Index		Spatial Stream	OFDM (802.11ax/be)											
				20MHz			40MHz			80MHz			160MHz		
	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
6	0	0	1	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3
9	1	1	1	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5
12	2	2	1	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.5	216.2	204.2	183.8
18	3	3	1	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245
24	4	4	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
36	5	5	1	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490
48	6	6	1	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3
54	7	7	1	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5
-	8	8	1	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735
-	9	9	1	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7
-	10	10	1	129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8
-	11	11	1	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8
6	0	0	2	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5
9	1	1	2	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245
12	2	2	2	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5
18	3	3	2	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490
24	4	4	2	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735
36	5	5	2	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1089	980
48	6	6	2	154.9	146.3	131.6	309.8	292.6	263.3	648.5	612.5	551.3	1296.9	1225	1102.5
54	7	7	2	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225
-	8	8	2	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470
-	9	9	2	229.4	216.7	195	458.8	433	390	960.8	907.4	816.7	1921.6	1814.8	1633.3
-	10	10	2	258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5
-	11	11	2	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7

Table 2-7. Data Rate Supported

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

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz
		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
Ant WF7	Config 1	✓	✗	✗	✗	✓	✗
Ant WF7	Config 2	✓	✗	✗	✗	✗	✓
Ant WF7	Config 3	✗	✓	✗	✗	✓	✗
Ant WF7	Config 4	✗	✓	✗	✗	✗	✓
Ant WF7	Config 5	✗	✗	✓	✓	✗	✗
Ant WF7	Config 6	✗	✗	✓	✗	✓	✗
Ant WF7	Config 7	✗	✗	✓	✗	✗	✓
Ant WF8	Config 8	✓	✗	✗	✗	✓	✗
Ant WF8	Config 9	✓	✗	✗	✗	✗	✓
Ant WF8	Config 10	✗	✓	✗	✗	✓	✗
Ant WF8	Config 11	✗	✓	✗	✗	✗	✓
Ant WF8	Config 12	✗	✗	✓	✓	✗	✗
Ant WF8	Config 13	✗	✗	✓	✗	✓	✗
Ant WF8	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: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 8 of 188

V 11.0 05/2025

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2.3 Antenna Description

The 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 WF8	Antenna WF7	Antenna WF5B	Antenna WF8	Antenna WF7
5	6.105 – 6.265	0.5	0.4	-0.2	0.1	0.3	-0.7
	6.265 – 6.425	1.3	-0.5	0.4	1.3	-0.5	0.4
6	6.425 – 6.525	-0.3	-0.2	1.1	-0.3	-0.2	1.1
7	6.525 – 6.875	1.4	0.6	0.7	-0.3	-0.5	-0.4
8	6.875 – 7.125	1.9	0.0	-0.7	1.2	-1.8	-3.8

Table 2-9. Antenna Gains

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model:	A2141 A2166	S/N:	C02H604EQ05D C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model:	A246C A2305	S/N:	DWH80115BK826GV19 C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A
6	Tablet Device	Model:	A3360	S/N:	Y39Y990NVQ

Table 2-10. Test Support Equipment List

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 9 of 188

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 3.3 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, and 7.5 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 the worst cases were reported.

- 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.

802.11be HE20/40/80/160 2TX SDM mode test data provided in this report covers 802.11be HE20/40/80/160 2TX STBC mode.

For 802.11be-RU test results, see separate UNII 6E OFDMA report, 1C2504170038-18.BCG.

The data rates have been categorized into three groups: low, middle, and high data rates (see Table 2-7). All three groups have been investigated, and only the worst-case data rate has been reported.

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: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 10 of 188

V 11.0 05/2025

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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 7.10. 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: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 11 of 188

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: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 12 of 188

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: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 13 of 188

V 11.0 05/2025

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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: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 14 of 188

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
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: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 15 of 188

V 11.0 05/2025

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3357
 IC: 579C-A3357
 FCC Classification: 15E 6 GHZ Very Low Power Device (6VL)

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)(9)	RSS-248 [4.5.6]	Maximum Power Spectral Density	< -5dBm/MHz e.i.r.p for Very Low Power		PASS	Section 7.4
15.407(a)(9)	RSS-248 [4.5.6]	Maximum EIRP	< 14dBm over the frequency band of operation for Very Low Power		PASS	Section 7.3
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(d)(10)	RSS-248 [4.5.6]	Transmit Power Control	EUT must employ a TPC mechanism to operate 6dB below the maximum EIRP PSD value of -5 dBm/MHz		PASS	Section 7.7
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	RADIATED	PASS	Section 7.8
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 7.8, 7.8.3
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 7.10

Table 7-1. Summary of Test Results

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among the 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 Software," 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.

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 16 of 188

V 11.0 05/2025

7.2 26dB & 99% Bandwidth Measurement

\$2.1049, \$15.407; RSS-Gen [6.7], RSS-248 [4.4]

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

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 data rates, antenna configurations and channels (low, mid, and high) were investigated, and tabular data provided. Only the worst-case plots are reported.

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 17 of 188

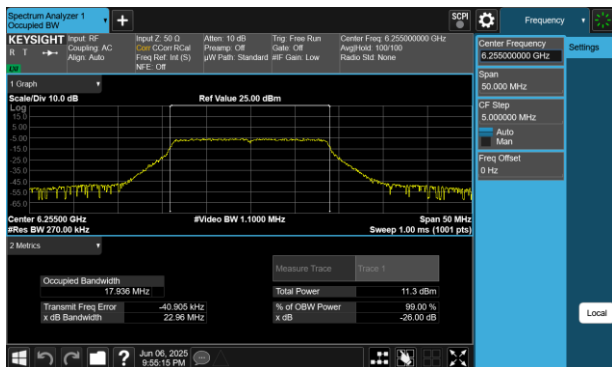
V 11.0 05/2025

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

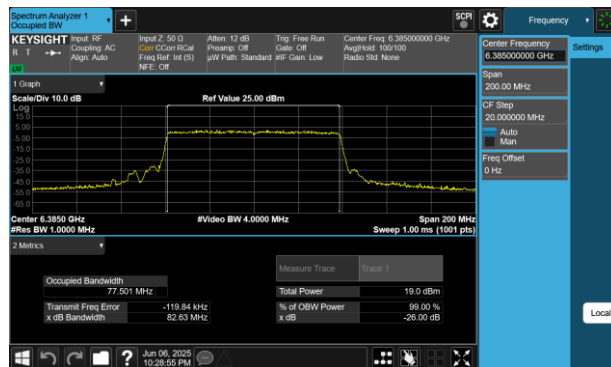
	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	6115	33	a	6Mbps	17.98	22.66	320	Pass
	6255	61	a	6Mbps	17.94	22.96	320	Pass
	6415	93	a	6Mbps	17.93	22.93	320	Pass
	6115	33	be (20MHz)	MCS0	19.03	22.63	320	Pass
	6255	61	be (20MHz)	MCS0	19.05	22.93	320	Pass
	6415	93	be (20MHz)	MCS0	19.03	22.85	320	Pass
	6125	35	be (40MHz)	MCS3	38.02	44.31	320	Pass
	6245	59	be (40MHz)	MCS0	38.07	45.14	320	Pass
	6405	91	be (40MHz)	MCS0	38.02	44.32	320	Pass
	6145	39	be (80MHz)	MCS5	77.54	82.52	320	Pass
	6225	55	be (80MHz)	MCS5	77.56	82.54	320	Pass
	6385	87	be (80MHz)	MCS3	77.50	82.63	320	Pass
Band 6	6185	47	be (160MHz)	MCS5	156.48	170.29	320	Pass
	6345	79	be (160MHz)	MCS5	156.56	169.22	320	Pass
	6435	97	a	6Mbps	17.94	22.59	320	Pass
	6475	105	a	6Mbps	17.93	22.72	320	Pass
	6515	113	a	6Mbps	17.95	22.89	320	Pass
	6435	97	be (20MHz)	MCS0	19.07	22.94	320	Pass
	6475	105	be (20MHz)	MCS0	19.02	22.76	320	Pass
	6515	113	be (20MHz)	MCS0	19.05	22.71	320	Pass
	6445	99	be (40MHz)	MCS0	38.01	44.46	320	Pass
	6485	107	be (40MHz)	MCS0	38.05	43.74	320	Pass
	6525	115	be (40MHz)	MCS0	38.02	44.54	320	Pass
	6465	103	be (80MHz)	MCS0	77.47	82.56	320	Pass
Band 7	6505	111	be (160MHz)	MCS5	156.45	169.90	320	Pass
	6535	117	a	6Mbps	17.94	22.48	320	Pass
	6695	149	a	6Mbps	17.92	23.17	320	Pass
	6875	185	a	6Mbps	17.96	22.61	320	Pass
	6535	117	be (20MHz)	MCS0	19.00	22.82	320	Pass
	6695	149	be (20MHz)	MCS3	19.03	22.53	320	Pass
	6875	185	be (20MHz)	MCS0	19.04	23.02	320	Pass
	6565	123	be (40MHz)	MCS0	38.04	44.23	320	Pass
	6725	155	be (40MHz)	MCS0	38.08	44.47	320	Pass
	6845	179	be (40MHz)	MCS0	38.04	44.55	320	Pass
	6545	119	be (80MHz)	MCS5	77.56	82.47	320	Pass
	6705	151	be (80MHz)	MCS0	77.43	82.54	320	Pass
Band 8	6865	183	be (80MHz)	MCS3	77.42	82.44	320	Pass
	6665	143	be (160MHz)	MCS5	156.84	177.42	320	Pass
	6825	175	be (160MHz)	MCS5	156.34	170.54	320	Pass
	6895	189	a	6Mbps	17.92	22.66	320	Pass
	6995	209	a	6Mbps	17.99	22.67	320	Pass
	7115	233	a	6Mbps	17.99	22.64	320	Pass
	6895	189	be (20MHz)	MCS0	19.05	22.82	320	Pass
	6995	209	be (20MHz)	MCS0	19.07	23.03	320	Pass
	7115	233	be (20MHz)	MCS0	19.03	22.76	320	Pass
	6885	187	be (40MHz)	MCS3	38.06	43.89	320	Pass
	7005	211	be (40MHz)	MCS0	38.04	44.30	320	Pass
	7085	227	be (40MHz)	MCS3	38.00	44.29	320	Pass
	6945	199	be (80MHz)	MCS5	77.42	82.68	320	Pass
	7025	215	be (80MHz)	MCS5	77.47	82.52	320	Pass
	6985	207	be (160MHz)	MCS5	156.62	175.44	320	Pass

Table 7-2. Conducted Bandwidth Measurements Antenna WF5B

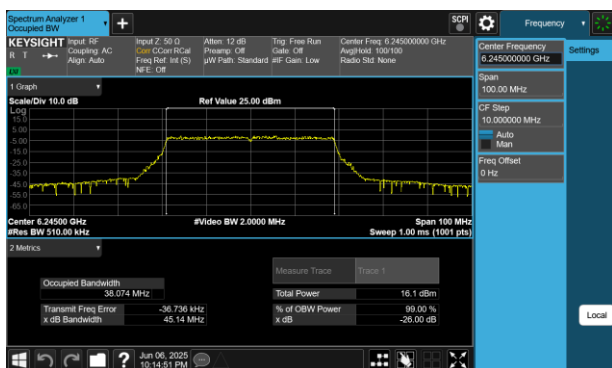
FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 18 of 188



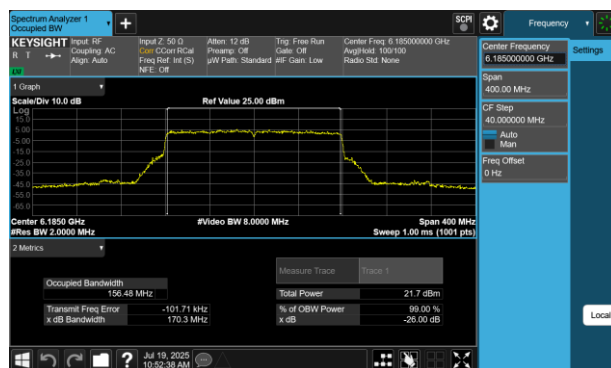
Plot 7-1 26dB BW & 99% OBW Antenna WF5B (20MHz BW 802.11a - Ch.61)



Plot 7-3 26dB BW & 99% OBW Antenna WF5B (80MHz BW 802.11be(SU) - Ch.87)

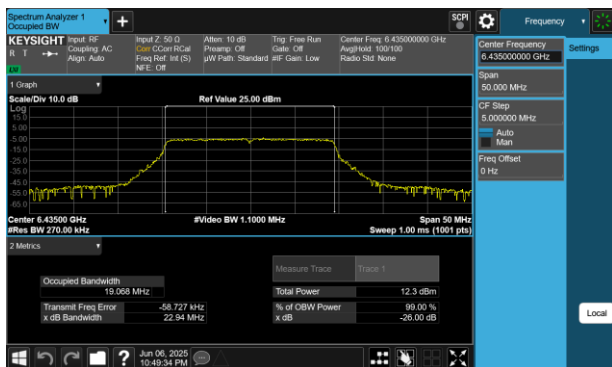


Plot 7-2 26dB BW & 99% OBW Antenna WF5B (40MHz BW 802.11be(SU) - Ch.59)

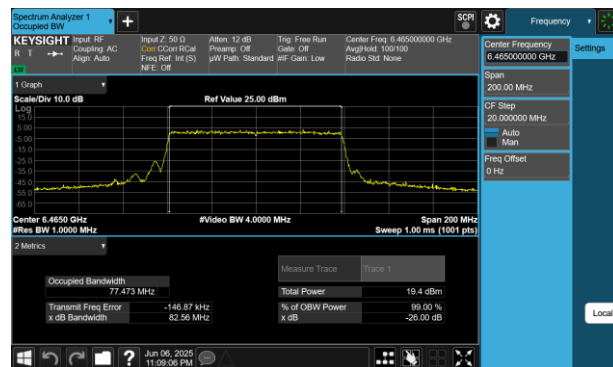


Plot 7-4 26dB BW & 99% OBW Antenna WF5B (160MHz BW 802.11be(SU) - Ch.47)

FCC ID: BCGA3357 IC: 579C-A3357	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 19 of 188



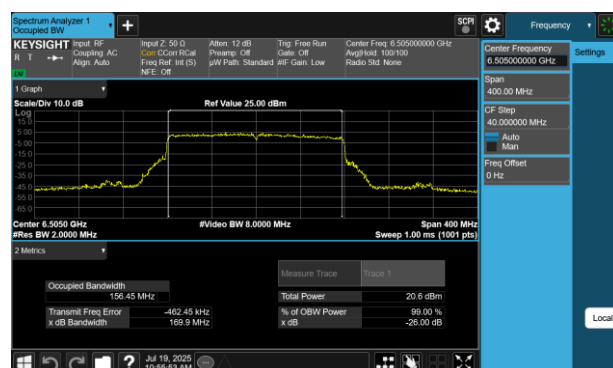
Plot 7-5 26dB BW & 99% OBW Antenna WF5B (20MHz BW 802.11be(SU) - Ch.97)



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

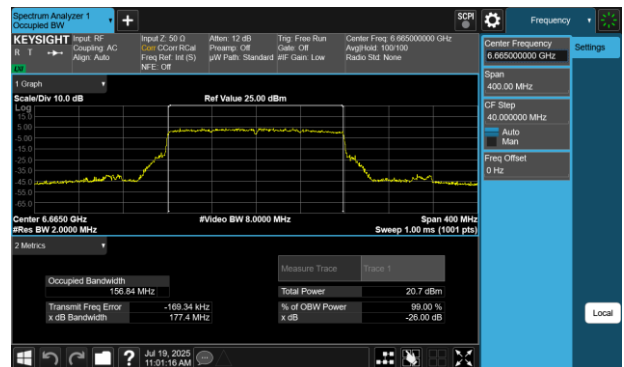
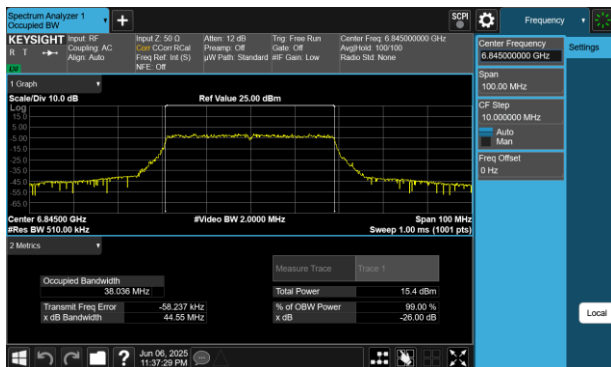
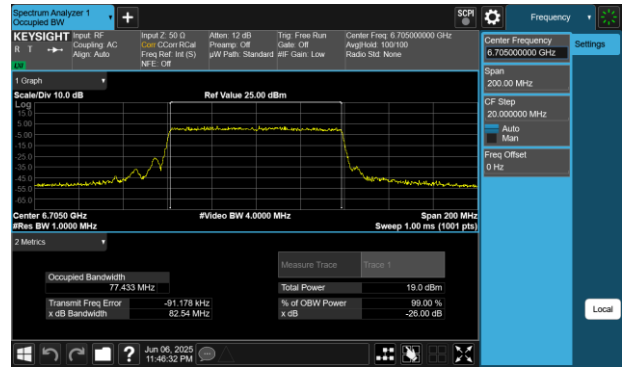


Plot 7-6 26dB BW & 99% OBW Antenna WF5B (40MHz BW 802.11be(SU) - Ch.115)



Plot 7-8 26dB BW & 99% OBW Antenna WF5B (160MHz BW 802.11be(SU) - Ch.111)

FCC ID: BCGA3357 IC: 579C-A3357			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device		Page 20 of 188



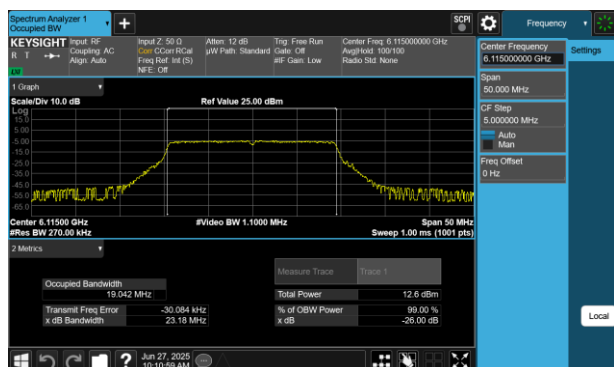
FCC ID: BCGA3357 IC: 579C-A3357			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device		Page 21 of 188

7.2.2 Antenna WF8 26dB & 99% Bandwidth Measurements – VLP

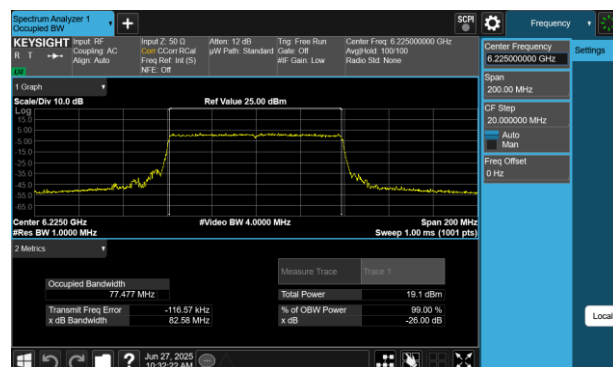
	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	6115	33	a	18Mbps	17.88	22.77	320	Pass
	6255	61	a	6Mbps	17.97	23.09	320	Pass
	6415	93	a	6Mbps	17.96	23.06	320	Pass
	6115	33	be (20MHz)	MCS0	19.04	23.18	320	Pass
	6255	61	be (20MHz)	MCS0	19.03	22.87	320	Pass
	6415	93	be (20MHz)	MCS0	19.04	22.71	320	Pass
	6125	35	be (40MHz)	MCS3	38.02	44.29	320	Pass
	6245	59	be (40MHz)	MCS3	38.01	44.34	320	Pass
	6405	91	be (40MHz)	MCS0	38.04	44.50	320	Pass
	6145	39	be (80MHz)	MCS5	77.43	82.44	320	Pass
	6225	55	be (80MHz)	MCS3	77.48	82.58	320	Pass
	6385	87	be (80MHz)	MCS3	77.47	82.46	320	Pass
Band 6	6185	47	be (160MHz)	MCS5	156.57	171.94	320	Pass
	6345	79	be (160MHz)	MCS5	156.58	168.95	320	Pass
	6435	97	a	6Mbps	17.96	23.03	320	Pass
	6475	105	a	6Mbps	17.95	22.63	320	Pass
	6515	113	a	6Mbps	17.98	22.60	320	Pass
	6435	97	be (20MHz)	MCS0	19.02	22.86	320	Pass
	6475	105	be (20MHz)	MCS0	19.07	22.94	320	Pass
	6515	113	be (20MHz)	MCS0	19.04	23.17	320	Pass
	6445	99	be (40MHz)	MCS0	38.02	44.40	320	Pass
	6485	107	be (40MHz)	MCS0	38.04	44.44	320	Pass
	6525	115	be (40MHz)	MCS0	38.03	44.08	320	Pass
	6465	103	be (80MHz)	MCS5	77.47	82.62	320	Pass
Band 7	6505	111	be (160MHz)	MCS5	156.45	170.39	320	Pass
	6535	117	a	6Mbps	17.96	23.00	320	Pass
	6695	149	a	18Mbps	17.86	22.49	320	Pass
	6875	185	a	6Mbps	17.94	22.68	320	Pass
	6535	117	be (20MHz)	MCS0	19.05	23.08	320	Pass
	6695	149	be (20MHz)	MCS0	19.08	22.93	320	Pass
	6875	185	be (20MHz)	MCS0	19.03	22.79	320	Pass
	6565	123	be (40MHz)	MCS5	37.97	44.46	320	Pass
	6725	155	be (40MHz)	MCS0	38.08	44.37	320	Pass
	6845	179	be (40MHz)	MCS0	38.08	44.45	320	Pass
	6545	119	be (80MHz)	MCS5	77.54	82.75	320	Pass
	6705	151	be (80MHz)	MCS3	77.45	82.60	320	Pass
Band 8	6865	183	be (80MHz)	MCS3	77.53	82.62	320	Pass
	6665	143	be (160MHz)	MCS5	156.47	170.44	320	Pass
	6825	175	be (160MHz)	MCS5	156.49	172.80	320	Pass
	6895	189	a	18Mbps	17.86	22.46	320	Pass
	6995	209	a	6Mbps	17.99	22.40	320	Pass
	7115	233	a	6Mbps	17.95	22.39	320	Pass
	6895	189	be (20MHz)	MCS0	19.06	22.72	320	Pass
	6995	209	be (20MHz)	MCS0	19.06	22.90	320	Pass
	7115	233	be (20MHz)	MCS0	19.02	22.92	320	Pass
	6885	187	be (40MHz)	MCS0	37.99	44.19	320	Pass
	7005	211	be (40MHz)	MCS0	38.02	43.97	320	Pass
	7085	227	be (40MHz)	MCS0	37.98	43.83	320	Pass
	6945	199	be (80MHz)	MCS3	77.45	82.52	320	Pass
	7025	215	be (80MHz)	MCS3	77.54	82.62	320	Pass
	6985	207	be (160MHz)	MCS5	156.56	172.56	320	Pass

Table 7-3. Conducted Bandwidth Measurements Antenna WF8

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 23 of 188



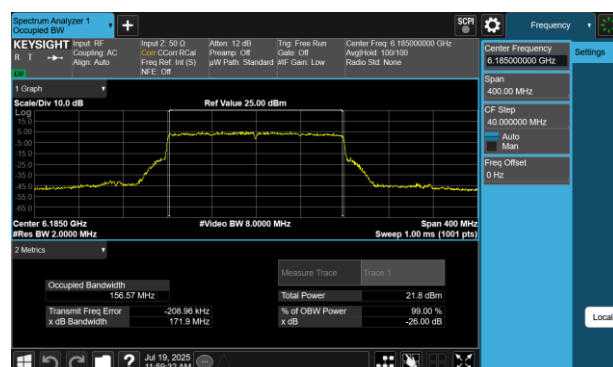
Plot 7-17 26dB BW & 99% OBW Antenna WF8 (20MHz BW 802.11be(SU) - Ch.33)



Plot 7-19 26dB BW & 99% OBW Antenna WF8 (80MHz BW 802.11be(SU) - Ch.55)

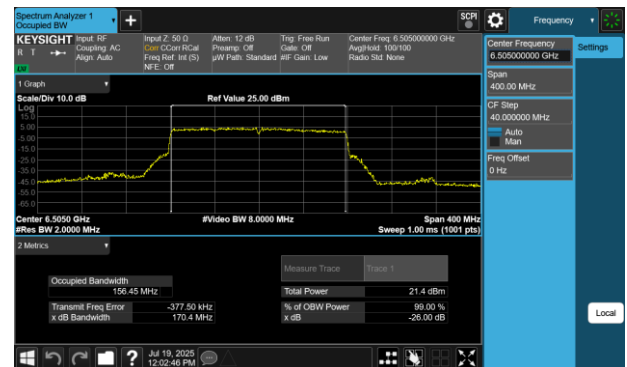
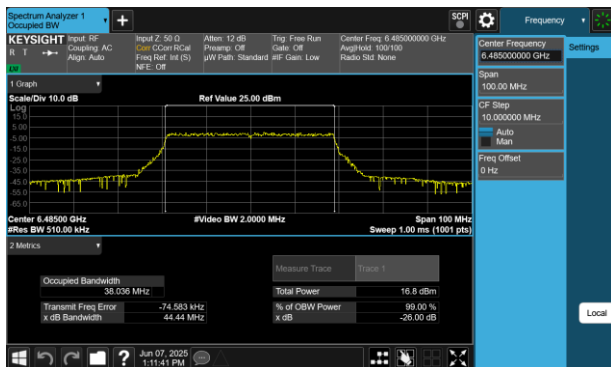
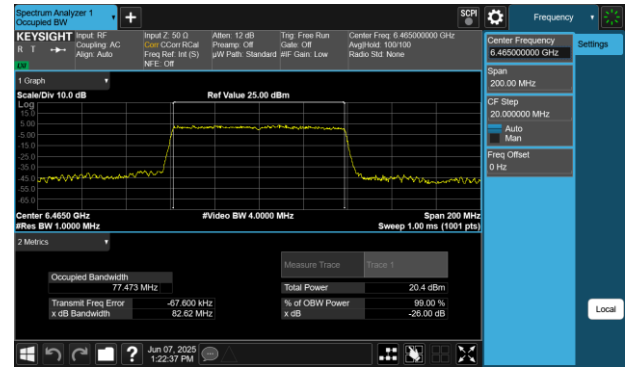
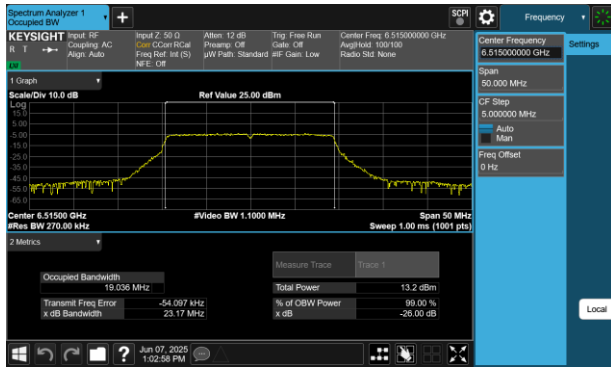


Plot 7-18 26dB BW & 99% OBW Antenna WF8 (40MHz BW 802.11be(SU) - Ch.91)

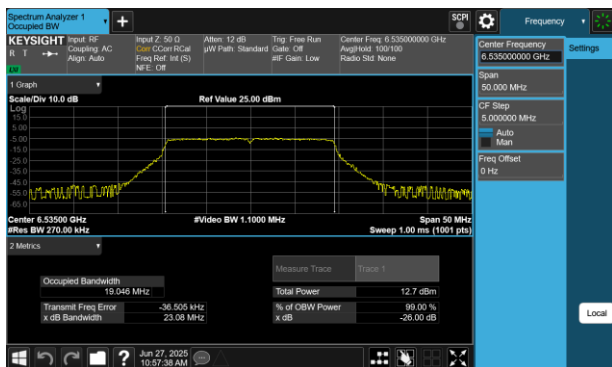


Plot 7-20 26dB BW & 99% OBW Antenna WF8 (160MHz BW 802.11be(SU) - Ch.47)

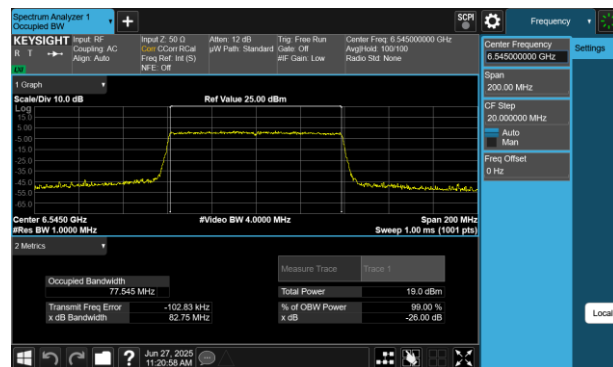
FCC ID: BCGA3357 IC: 579C-A3357			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device		Page 24 of 188



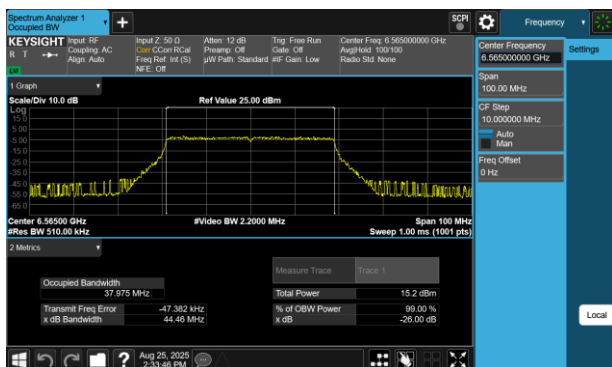
FCC ID: BCGA3357 IC: 579C-A3357	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 25 of 188



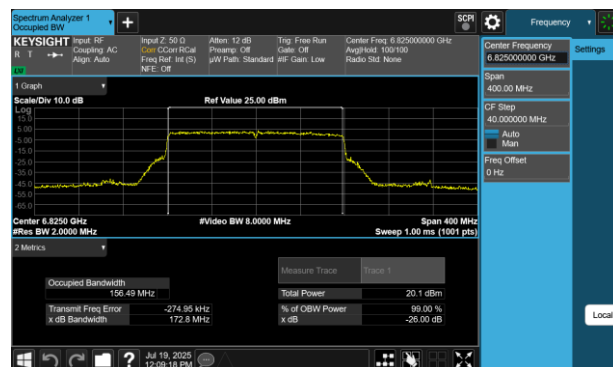
Plot 7-25 26dB BW & 99% OBW Antenna WF8 (20MHz BW 802.11be(SU) - Ch.117)



Plot 7-27 26dB BW & 99% OBW Antenna WF8 (80MHz BW 802.11be(SU) - Ch.119)



Plot 7-26 26dB BW & 99% OBW Antenna WF8 (40MHz BW 802.11be(SU) - Ch.123)



Plot 7-28 26dB BW & 99% OBW Antenna WF8 (160MHz BW 802.11be(SU) - Ch.175)

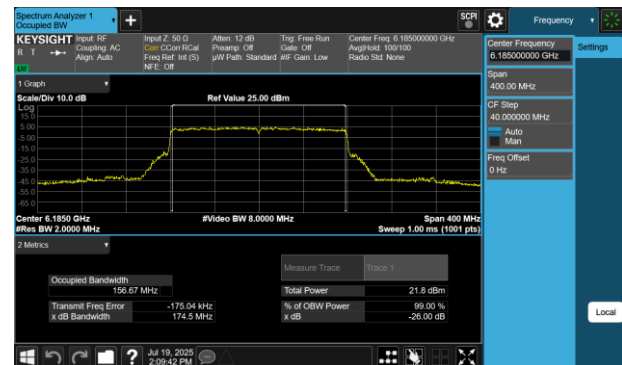
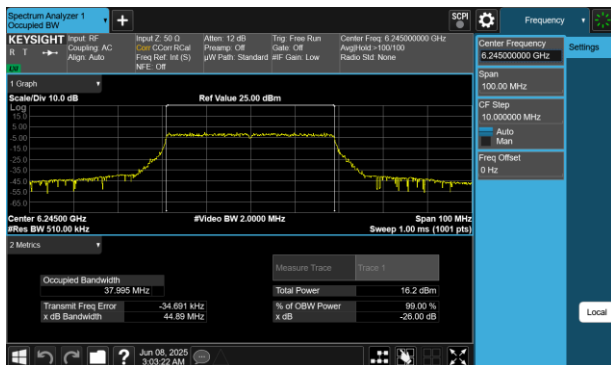
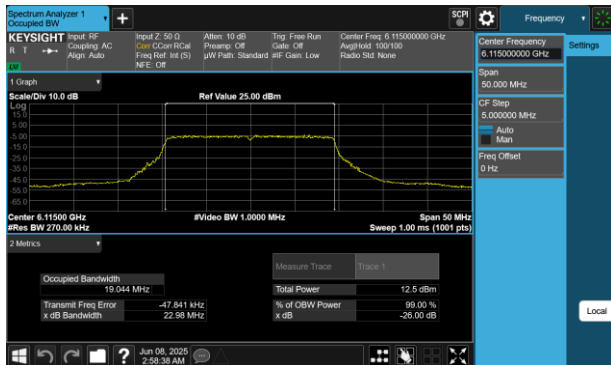
FCC ID: BCGA3357 IC: 579C-A3357	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 26 of 188

7.2.3 Antenna WF7 26dB & 99% Bandwidth Measurements – VLP

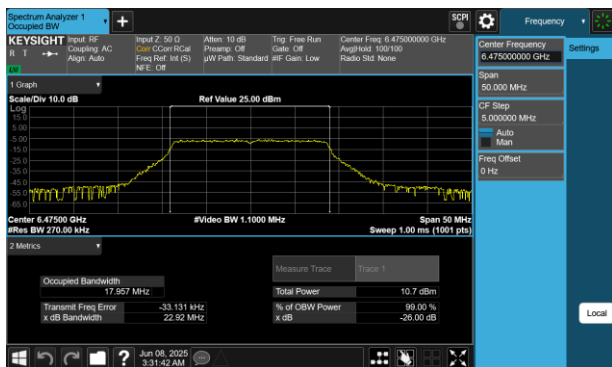
	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	6115	33	a	6Mbps	17.98	22.79	320	Pass
	6255	61	a	6Mbps	18.00	22.92	320	Pass
	6415	93	a	6Mbps	17.96	22.74	320	Pass
	6115	33	be (20MHz)	MCS5	19.04	22.98	320	Pass
	6255	61	be (20MHz)	MCS0	19.02	22.78	320	Pass
	6415	93	be (20MHz)	MCS0	19.05	22.65	320	Pass
	6125	35	be (40MHz)	MCS3	37.97	44.08	320	Pass
	6245	59	be (40MHz)	MCS0	37.99	44.89	320	Pass
	6405	91	be (40MHz)	MCS5	38.00	43.94	320	Pass
	6145	39	be (80MHz)	MCS3	77.41	82.71	320	Pass
	6225	55	be (80MHz)	MCS5	77.53	82.56	320	Pass
	6385	87	be (80MHz)	MCS0	77.56	82.72	320	Pass
Band 6	6185	47	be (160MHz)	MCS5	156.67	174.53	320	Pass
	6345	79	be (160MHz)	MCS5	156.76	172.59	320	Pass
	6435	97	a	6Mbps	17.97	22.65	320	Pass
	6475	105	a	6Mbps	17.96	22.92	320	Pass
	6515	113	a	6Mbps	17.95	22.74	320	Pass
	6435	97	be (20MHz)	MCS0	19.01	22.92	320	Pass
	6475	105	be (20MHz)	MCS0	19.03	22.73	320	Pass
	6515	113	be (20MHz)	MCS0	19.07	22.81	320	Pass
	6445	99	be (40MHz)	MCS3	38.00	43.86	320	Pass
	6485	107	be (40MHz)	MCS3	38.01	44.25	320	Pass
	6525	115	be (40MHz)	MCS5	37.98	44.41	320	Pass
	6465	103	be (80MHz)	MCS3	77.58	82.86	320	Pass
Band 7	6505	111	be (160MHz)	MCS5	156.26	169.63	320	Pass
	6535	117	a	6Mbps	17.97	22.76	320	Pass
	6695	149	a	6Mbps	17.99	23.16	320	Pass
	6875	185	a	6Mbps	17.97	22.75	320	Pass
	6535	117	be (20MHz)	MCS3	19.01	22.72	320	Pass
	6695	149	be (20MHz)	MCS0	19.07	23.04	320	Pass
	6875	185	be (20MHz)	MCS0	19.06	22.90	320	Pass
	6565	123	be (40MHz)	MCS0	37.99	43.96	320	Pass
	6725	155	be (40MHz)	MCS3	38.00	44.65	320	Pass
	6845	179	be (40MHz)	MCS3	38.01	44.47	320	Pass
	6545	119	be (80MHz)	MCS5	77.43	82.48	320	Pass
	6705	151	be (80MHz)	MCS0	77.50	82.64	320	Pass
Band 8	6865	183	be (80MHz)	MCS5	77.53	82.58	320	Pass
	6665	143	be (160MHz)	MCS5	156.40	174.75	320	Pass
	6825	175	be (160MHz)	MCS5	156.52	170.93	320	Pass
	6895	189	a	6Mbps	18.00	22.82	320	Pass
	6995	209	a	6Mbps	17.99	22.80	320	Pass
	7115	233	a	6Mbps	17.97	22.95	320	Pass
	6895	189	be (20MHz)	MCS0	19.05	23.12	320	Pass
	6995	209	be (20MHz)	MCS0	19.05	23.25	320	Pass
	7115	233	be (20MHz)	MCS0	19.06	23.06	320	Pass
	6885	187	be (40MHz)	MCS0	38.04	44.86	320	Pass
	7005	211	be (40MHz)	MCS0	38.06	44.02	320	Pass
	7085	227	be (40MHz)	MCS3	38.00	44.49	320	Pass
	6945	199	be (80MHz)	MCS5	77.49	82.52	320	Pass
	7025	215	be (80MHz)	MCS5	77.39	82.68	320	Pass
	6985	207	be (160MHz)	MCS5	156.45	170.59	320	Pass

Table 7-4. Conducted Bandwidth Measurements Antenna WF7

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 28 of 188



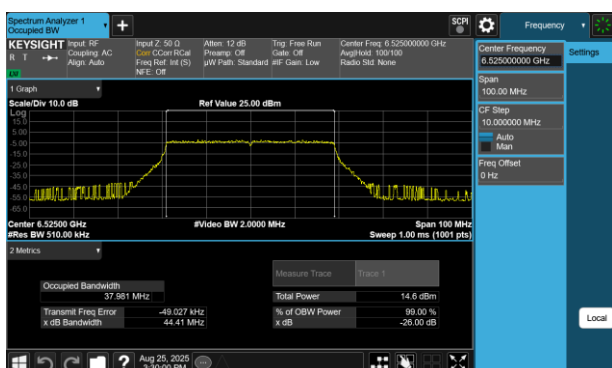
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 29 of 188



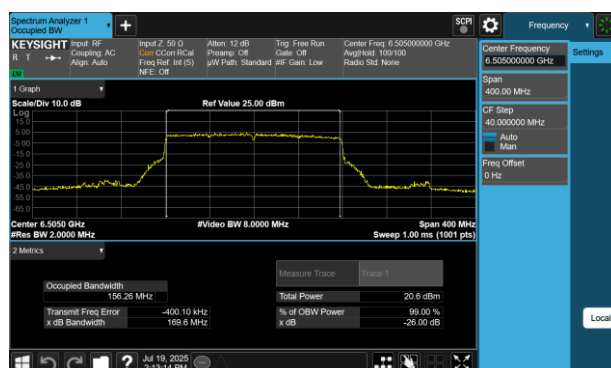
Plot 7-37 26dB BW & 99% OBW Antenna WF7 (20MHz BW 802.11a - Ch.105)



Plot 7-39 26dB BW & 99% OBW Antenna WF7 (80MHz BW 802.11be(SU) - Ch.103)

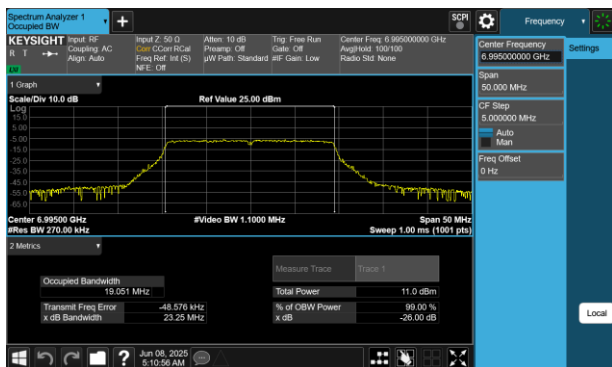


Plot 7-38 26dB BW & 99% OBW Antenna WF7 (40MHz BW 802.11be(SU) - Ch.115)

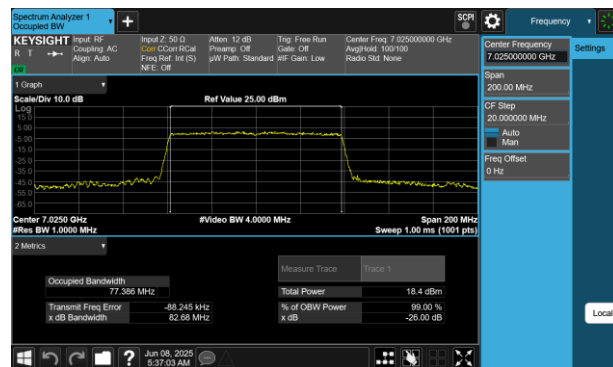


Plot 7-40 26dB BW & 99% OBW Antenna WF7 (160MHz BW 802.11be(SU) - Ch.111)

FCC ID: BCGA3357 IC: 579C-A3357			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device		Page 30 of 188



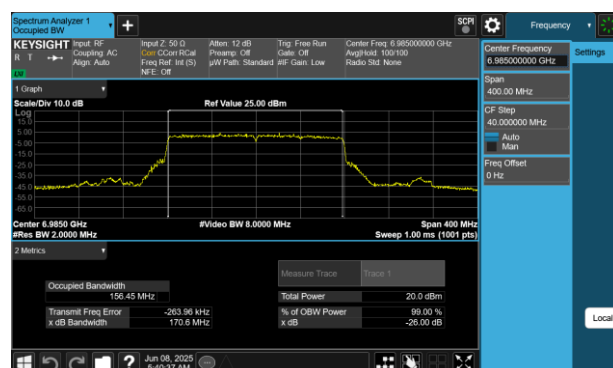
Plot 7-45 26dB BW & 99% OBW Antenna WF7 (20MHz BW 802.11be(SU) - Ch.209)



Plot 7-47 26dB BW & 99% OBW Antenna WF7 (80MHz BW 802.11be(SU) - Ch.215)



Plot 7-46 26dB BW & 99% OBW Antenna WF7 (40MHz BW 802.11be(SU) - Ch.187)



Plot 7-48 26dB BW & 99% OBW Antenna WF7 (160MHz BW 802.11be(SU) - Ch.207)

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 32 of 188

7.3 Conducted Output Power and Max EIRP Measurement

§15.407(a)(9), RSS-248[4.5.6]

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 14dBm for Very Low Power (VLP) devices.

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: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 33 of 188

V 11.0 05/2025

7.3.1 Antenna WF5B Conducted Output Power Measurements – VLP

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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]
	6115	33	6Mbps	4.60	0.50	5.10	14.00	-8.90
	6255	61	18Mbps	4.60	0.50	5.10	14.00	-8.90
	6415	93	6Mbps	3.86	1.30	5.16	14.00	-8.84
	6435	97	36Mbps	3.78	-0.30	3.48	14.00	-10.53
	6475	105	18Mbps	3.72	-0.30	3.42	14.00	-10.58
	6515	113	6Mbps	3.80	-0.30	3.50	14.00	-10.50
	6535	117	18Mbps	3.47	1.40	4.87	14.00	-9.13
	6695	149	18Mbps	3.58	1.40	4.98	14.00	-9.02
	6875	185	36Mbps	3.29	1.40	4.69	14.00	-9.32
	6895	189	18Mbps	2.86	1.90	4.76	14.00	-9.24
	6995	209	18Mbps	2.78	1.90	4.68	14.00	-9.32
	7115	233	6Mbps	2.41	1.90	4.31	14.00	-9.69

Table 7-5. Antenna WF5B 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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]
	6115	33	MCS0	4.53	0.50	5.03	14.00	-8.97
	6255	61	MCS5	4.58	0.50	5.08	14.00	-8.93
	6415	93	MCS5	3.79	1.30	5.09	14.00	-8.91
	6435	97	MCS0	4.05	-0.30	3.75	14.00	-10.25
	6475	105	MCS0	3.98	-0.30	3.68	14.00	-10.32
	6515	113	MCS5	4.10	-0.30	3.80	14.00	-10.20
	6535	117	MCS0	3.57	1.40	4.97	14.00	-9.03
	6695	149	MCS3	3.60	1.40	5.00	14.00	-9.01
	6875	185	MCS0	3.50	1.40	4.90	14.00	-9.10
	6895	189	MCS3	3.23	1.90	5.13	14.00	-8.88
	6995	209	MCS3	3.15	1.90	5.05	14.00	-8.95
	7115	233	MCS3	2.54	1.90	4.44	14.00	-9.56

Table 7-6. Antenna WF5B 20MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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	MCS3	7.43	0.50	7.93	14.00	-6.07
	6245	59	MCS3	7.41	0.50	7.91	14.00	-6.10
	6405	91	MCS0	6.97	1.30	8.27	14.00	-5.73
	6445	99	MCS3	6.78	-0.30	6.48	14.00	-7.52
	6485	107	MCS3	6.68	-0.30	6.38	14.00	-7.62
	6525	115	MCS3	6.35	1.40	7.75	14.00	-6.25
	6565	123	MCS5	6.57	1.40	7.97	14.00	-6.03
	6725	155	MCS3	6.43	1.40	7.83	14.00	-6.17
	6845	179	MCS3	6.50	1.40	7.90	14.00	-6.10
	6885	187	MCS0	5.91	1.90	7.81	14.00	-6.19
	7005	211	MCS0	6.12	1.90	8.02	14.00	-5.98
	7085	227	MCS5	5.96	1.90	7.86	14.00	-6.14

Table 7-7. Antenna WF5B 40MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 34 of 188

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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	MCS5	10.57	0.50	11.07	14.00	-2.93
	6225	55	MCS0	10.63	0.50	11.13	14.00	-2.87
	6385	87	MCS5	9.80	1.30	11.10	14.00	-2.90
	6465	103	MCS0	10.10	-0.30	9.80	14.00	-4.20
	6545	119	MCS0	9.47	1.40	10.87	14.00	-3.13
	6705	151	MCS0	9.79	1.40	11.19	14.00	-2.81
	6865	183	MCS5	9.24	1.40	10.64	14.00	-3.36
	6945	199	MCS0	9.14	1.90	11.04	14.00	-2.96
	7025	215	MCS3	9.33	1.90	11.23	14.00	-2.77

Table 7-8. Antenna WF5B 80MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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	MCS0	12.36	0.50	12.86	14.00	-1.14
	6345	79	MCS0	11.43	1.30	12.73	14.00	-1.27
	6505	111	MCS0	11.31	-0.30	11.01	14.00	-2.99
	6665	143	MCS3	11.47	1.40	12.87	14.00	-1.13
	6825	175	MCS0	10.84	1.40	12.24	14.00	-1.76
	6985	207	MCS0	10.99	1.90	12.89	14.00	-1.11

Table 7-9. Antenna WF5B 160MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 35 of 188

V 11.0 05/2025

7.3.2 Antenna WF8 Conducted Output Power Measurements – VLP

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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]
	6115	33	18Mbps	4.67	0.40	5.07	14.00	-8.93
	6255	61	36Mbps	4.70	0.40	5.10	14.00	-8.90
	6415	93	6Mbps	5.68	-0.50	5.18	14.00	-8.82
	6435	97	6Mbps	5.40	-0.20	5.20	14.00	-8.80
	6475	105	36Mbps	5.39	-0.20	5.19	14.00	-8.81
	6515	113	36Mbps	5.40	-0.20	5.20	14.00	-8.80
	6535	117	6Mbps	4.36	0.60	4.96	14.00	-9.04
	6695	149	36Mbps	4.31	0.60	4.91	14.00	-9.09
	6875	185	36Mbps	4.27	0.60	4.87	14.00	-9.13
	6895	189	36Mbps	5.00	0.00	5.00	14.00	-9.00
	6995	209	6Mbps	5.09	0.00	5.09	14.00	-8.91
	7115	233	6Mbps	4.18	0.00	4.18	14.00	-9.82

Table 7-10. Antenna WF8 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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]
	6115	33	MCS3	4.80	0.40	5.20	14.00	-8.80
	6255	61	MCS0	4.74	0.40	5.14	14.00	-8.86
	6415	93	MCS5	5.71	-0.50	5.21	14.00	-8.79
	6435	97	MCS0	5.22	-0.20	5.02	14.00	-8.98
	6475	105	MCS5	5.17	-0.20	4.97	14.00	-9.03
	6515	113	MCS3	5.15	-0.20	4.95	14.00	-9.05
	6535	117	MCS3	4.23	0.60	4.83	14.00	-9.18
	6695	149	MCS3	4.23	0.60	4.83	14.00	-9.17
	6875	185	MCS3	4.65	0.60	5.25	14.00	-8.75
	6895	189	MCS0	5.09	0.00	5.09	14.00	-8.91
	6995	209	MCS5	4.98	0.00	4.98	14.00	-9.02
	7115	233	MCS5	4.27	0.00	4.27	14.00	-9.73

Table 7-11. Antenna WF8 20MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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	MCS0	7.44	0.40	7.84	14.00	-6.16
	6245	59	MCS0	7.40	0.40	7.80	14.00	-6.20
	6405	91	MCS5	8.80	-0.50	8.30	14.00	-5.70
	6445	99	MCS0	8.15	-0.20	7.95	14.00	-6.05
	6485	107	MCS0	8.13	-0.20	7.93	14.00	-6.07
	6525	115	MCS0	7.30	0.60	7.90	14.00	-6.11
	6565	123	MCS0	7.30	0.60	7.90	14.00	-6.10
	6725	155	MCS3	7.21	0.60	7.81	14.00	-6.19
	6845	179	MCS3	7.10	0.60	7.70	14.00	-6.31
	6885	187	MCS0	7.24	0.00	7.24	14.00	-6.76
	7005	211	MCS3	7.83	0.00	7.83	14.00	-6.17
	7085	227	MCS0	7.77	0.00	7.77	14.00	-6.23

Table 7-12. Antenna WF8 40MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 36 of 188

V 11.0 05/2025

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6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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	MCS3	10.88	0.40	11.28	14.00	-2.72
	6225	55	MCS3	10.83	0.40	11.23	14.00	-2.77
	6385	87	MCS0	11.79	-0.50	11.29	14.00	-2.72
	6465	103	MCS5	11.49	-0.20	11.29	14.00	-2.71
	6545	119	MCS0	10.52	0.60	11.12	14.00	-2.88
	6705	151	MCS5	10.34	0.60	10.94	14.00	-3.06
	6865	183	MCS0	10.33	0.60	10.93	14.00	-3.07
	6945	199	MCS3	11.09	0.00	11.09	14.00	-2.91
	7025	215	MCS0	10.93	0.00	10.93	14.00	-3.07

Table 7-13. Antenna WF8 80MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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	MCS0	12.47	0.40	12.87	14.00	-1.13
	6345	79	MCS0	13.22	-0.50	12.72	14.00	-1.28
	6505	111	MCS0	12.30	-0.20	12.10	14.00	-1.90
	6665	143	MCS0	12.24	0.60	12.84	14.00	-1.16
	6825	175	MCS5	12.30	0.60	12.90	14.00	-1.10
	6985	207	MCS5	12.71	0.00	12.71	14.00	-1.29

Table 7-14. Antenna WF8 160MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 37 of 188

7.3.3 Antenna WF7 Conducted Output Power Measurements – VLP

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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]
	6115	33	6Mbps	4.59	-0.20	4.39	14.00	-9.61
	6255	61	6Mbps	4.48	-0.20	4.28	14.00	-9.73
	6415	93	6Mbps	3.83	0.40	4.23	14.00	-9.77
	6435	97	6Mbps	3.83	1.10	4.93	14.00	-9.07
	6475	105	36Mbps	3.89	1.10	4.99	14.00	-9.01
	6515	113	36Mbps	3.90	1.10	5.00	14.00	-9.00
	6535	117	18Mbps	3.35	0.70	4.05	14.00	-9.95
	6695	149	6Mbps	3.54	0.70	4.24	14.00	-9.76
	6875	185	6Mbps	3.39	0.70	4.09	14.00	-9.91
	6895	189	6Mbps	2.95	-0.70	2.25	14.00	-11.75
	6995	209	18Mbps	2.94	-0.70	2.24	14.00	-11.76
	7115	233	6Mbps	2.49	-0.70	1.79	14.00	-12.21

Table 7-15. Antenna WF7 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

6GHz (20MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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]
	6115	33	MCS0	4.58	-0.20	4.38	14.00	-9.62
	6255	61	MCS5	4.64	-0.20	4.44	14.00	-9.56
	6415	93	MCS3	3.90	0.40	4.30	14.00	-9.70
	6435	97	MCS0	4.03	1.10	5.13	14.00	-8.87
	6475	105	MCS0	4.07	1.10	5.17	14.00	-8.83
	6515	113	MCS3	4.10	1.10	5.20	14.00	-8.80
	6535	117	MCS0	3.47	0.70	4.17	14.00	-9.83
	6695	149	MCS5	3.60	0.70	4.30	14.00	-9.70
	6875	185	MCS0	3.41	0.70	4.11	14.00	-9.89
	6895	189	MCS0	3.22	-0.70	2.52	14.00	-11.48
	6995	209	MCS3	3.25	-0.70	2.55	14.00	-11.45
	7115	233	MCS3	2.67	-0.70	1.97	14.00	-12.03

Table 7-16. Antenna WF7 20MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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	MCS3	7.47	-0.20	7.27	14.00	-6.73
	6245	59	MCS0	7.34	-0.20	7.14	14.00	-6.86
	6405	91	MCS5	7.00	0.40	7.40	14.00	-6.60
	6445	99	MCS0	6.82	1.10	7.92	14.00	-6.08
	6485	107	MCS3	6.74	1.10	7.84	14.00	-6.16
	6525	115	MCS0	6.36	0.70	7.06	14.00	-6.94
	6565	123	MCS0	6.56	0.70	7.26	14.00	-6.75
	6725	155	MCS0	6.38	0.70	7.08	14.00	-6.92
	6845	179	MCS0	6.58	0.70	7.28	14.00	-6.72
	6885	187	MCS0	5.85	-0.70	5.15	14.00	-8.85
	7005	211	MCS3	5.80	-0.70	5.10	14.00	-8.90
	7085	227	MCS0	5.82	-0.70	5.12	14.00	-8.88

Table 7-17. Antenna WF7 40MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 38 of 188

V 11.0 05/2025

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6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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	MCS3	10.59	-0.20	10.39	14.00	-3.61
	6225	55	MCS0	10.69	-0.20	10.49	14.00	-3.51
	6385	87	MCS0	9.75	0.40	10.15	14.00	-3.86
	6465	103	MCS0	10.10	1.10	11.20	14.00	-2.80
	6545	119	MCS0	9.55	0.70	10.25	14.00	-3.75
	6705	151	MCS5	9.81	0.70	10.51	14.00	-3.50
	6865	183	MCS0	9.30	0.70	10.00	14.00	-4.00
	6945	199	MCS5	9.14	-0.70	8.44	14.00	-5.56
	7025	215	MCS5	9.43	-0.70	8.73	14.00	-5.27

Table 7-18. Antenna WF7 80MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Data Rate	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	MCS0	12.37	-0.20	12.17	14.00	-1.83
	6345	79	MCS0	11.41	0.40	11.81	14.00	-2.19
	6505	111	MCS0	11.41	1.10	12.51	14.00	-1.49
	6665	143	MCS0	11.40	0.70	12.10	14.00	-1.90
	6825	175	MCS0	10.96	0.70	11.66	14.00	-2.34
	6985	207	MCS0	11.05	-0.70	10.35	14.00	-3.65

Table 7-19. Antenna WF7 160MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 39 of 188

V 11.0 05/2025

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7.3.4 CDD/SDM Primary Conducted Output Power Measurements – VLP

6GHz (20MHz Bandwidth) (1+2)	Frequency [MHz]	Channel	Mode	Data Rate	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 WF5B	Antenna WF8	Summed				
	6115	33	CDD	18Mbps	-1.40	-1.41	1.61	0.50	2.11	14.00	-11.89
	6255	61	CDD	36Mbps	-1.42	-1.40	1.60	0.50	2.10	14.00	-11.90
	6415	93	CDD	6Mbps	-1.44	-1.31	1.64	1.30	2.94	14.00	-11.06
	6435	97	CDD	18Mbps	-1.66	-1.67	1.35	-0.20	1.15	14.00	-12.85
	6475	105	CDD	36Mbps	-1.62	-1.57	1.42	-0.20	1.22	14.00	-12.78
	6515	113	CDD	18Mbps	-1.74	-1.50	1.39	-0.20	1.19	14.00	-12.81
	6535	117	CDD	36Mbps	-2.01	-2.13	0.94	1.40	2.34	14.00	-11.66
	6695	149	CDD	18Mbps	-2.14	-2.03	0.93	1.40	2.33	14.00	-11.67
	6875	185	CDD	36Mbps	-2.30	-2.27	0.73	1.40	2.13	14.00	-11.87
	6895	189	CDD	6Mbps	-2.31	-2.33	0.69	1.90	2.59	14.00	-11.41
	6995	209	CDD	36Mbps	-2.28	-2.41	0.67	1.90	2.57	14.00	-11.43
	7115	233	CDD	36Mbps	-2.80	-2.86	0.18	1.90	2.08	14.00	-11.92

Table 7-20. CDD Primary 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

6GHz (20MHz Bandwidth) (1+2)	Frequency [MHz]	Channel	Mode	Data Rate	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 WF5B	Antenna WF8	Summed				
	6115	33	SDM	MCS3	1.70	1.62	4.67	0.45	5.12	14.00	-8.88
	6255	61	SDM	MCS0	1.60	1.52	4.57	0.45	5.02	14.00	-8.98
	6415	93	SDM	MCS0	1.31	1.79	4.57	0.49	5.06	14.00	-8.94
	6435	97	SDM	MCS0	1.55	1.32	4.45	-0.25	4.20	14.00	-9.80
	6475	105	SDM	MCS5	1.27	1.37	4.33	-0.25	4.08	14.00	-9.92
	6515	113	SDM	MCS0	1.22	1.39	4.32	-0.25	4.07	14.00	-9.93
	6535	117	SDM	MCS5	0.89	0.84	3.88	1.02	4.90	14.00	-9.10
	6695	149	SDM	MCS0	0.86	0.79	3.84	1.02	4.86	14.00	-9.14
	6875	185	SDM	MCS5	1.00	1.08	4.05	1.02	5.07	14.00	-8.93
	6895	189	SDM	MCS5	1.07	1.07	4.08	1.05	5.13	14.00	-8.87
	6995	209	SDM	MCS3	1.08	0.63	3.87	1.05	4.92	14.00	-9.08
	7115	233	SDM	MCS5	0.08	0.12	3.11	1.05	4.16	14.00	-9.84

Table 7-21. SDM Primary 20MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Data Rate	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 WF5B	Antenna WF8	Summed				
	6125	35	SDM	MCS5	4.37	4.48	7.44	0.45	7.89	14.00	-6.11
	6245	59	SDM	MCS5	4.42	4.42	7.43	0.45	7.88	14.00	-6.12
	6405	91	SDM	MCS3	4.77	4.59	7.69	0.49	8.18	14.00	-5.82
	6445	99	SDM	MCS3	4.37	4.44	7.42	-0.25	7.17	14.00	-6.83
	6485	107	SDM	MCS3	4.30	4.40	7.36	-0.25	7.11	14.00	-6.89
	6525	115	SDM	MCS5	3.94	3.82	6.89	1.02	7.91	14.00	-6.09
	6565	123	SDM	MCS3	3.94	3.84	6.90	1.02	7.92	14.00	-6.08
	6725	155	SDM	MCS0	3.75	3.59	6.68	1.02	7.70	14.00	-6.30
	6845	179	SDM	MCS0	3.83	3.97	6.91	1.02	7.93	14.00	-6.07
	6885	187	SDM	MCS0	3.67	3.34	6.51	1.05	7.56	14.00	-6.44
	7005	211	SDM	MCS3	3.93	3.84	6.90	1.05	7.95	14.00	-6.05
	7085	227	SDM	MCS0	3.66	3.80	6.74	1.05	7.79	14.00	-6.21

Table 7-22. SDM Primary 40MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Data Rate	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 WF5B	Antenna WF8	Summed				
	6145	39	SDM	MCS5	7.49	7.65	10.58	0.45	11.03	14.00	-2.97
	6225	55	SDM	MCS5	7.51	7.57	10.55	0.45	11.00	14.00	-3.00
	6385	87	SDM	MCS3	7.68	7.70	10.70	0.49	11.19	14.00	-2.81
	6465	103	SDM	MCS0	7.67	7.65	10.67	-0.25	10.42	14.00	-3.58
	6545	119	SDM	MCS5	6.75	6.90	9.84	1.02	10.86	14.00	-3.14
	6705	151	SDM	MCS0	6.99	6.83	9.92	1.02	10.94	14.00	-3.06
	6865	183	SDM	MCS5	6.77	6.77	9.78	1.02	10.80	14.00	-3.20
	6945	199	SDM	MCS0	6.81	6.86	9.85	1.05	10.90	14.00	-3.10
	7025	215	SDM	MCS5	6.78	6.90	9.85	1.05	10.90	14.00	-3.10

Table 7-23. SDM Primary 80MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Data Rate	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 WF5B	Antenna WF8	Summed				
	6185	47	SDM	MCS0	9.07	9.27	12.18	0.45	12.63	14.00	-1.37
	6345	79	SDM	MCS0	9.31	9.35	12.34	0.49	12.83	14.00	-1.17
	6505	111	SDM	MCS0	8.67	8.50	11.59	-0.25	11.34	14.00	-2.66
	6665	143	SDM	MCS0	8.73	8.58	11.66	1.02	12.68	14.00	-1.32
	6825	175	SDM	MCS5	8.32	8.50	11.42	1.02	12.44	14.00	-1.56
	6985	207	SDM	MCS0	8.79	8.72	11.77	1.05	12.82	14.00	-1.18

Table 7-24. SDM Primary 160MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 40 of 188

7.3.5 CDD/SDM Diversity Conducted Output Power Measurements – VLP

6GHz (20MHz Bandwidth) (1+2)	Frequency [MHz]	Channel	Mode	Data Rate	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 WF8	Antenna WF7	Summed				
	6115	33	CDD	18Mbps	-1.41	-1.40	1.60	0.40	2.00	14.00	-12.00
	6255	61	CDD	36Mbps	-1.40	-1.49	1.57	0.40	1.97	14.00	-12.03
	6415	93	CDD	36Mbps	-1.30	-1.42	1.65	0.40	2.05	14.00	-11.95
	6435	97	CDD	6Mbps	-1.57	-1.55	1.45	1.10	2.55	14.00	-11.45
	6475	105	CDD	36Mbps	-1.57	-1.50	1.47	1.10	2.57	14.00	-11.43
	6515	113	CDD	18Mbps	-1.50	-1.55	1.48	1.10	2.58	14.00	-11.42
	6535	117	CDD	6Mbps	-2.10	-2.03	0.95	0.70	1.65	14.00	-12.35
	6695	149	CDD	18Mbps	-2.03	-2.16	0.92	0.70	1.62	14.00	-12.38
	6875	185	CDD	18Mbps	-2.23	-2.31	0.74	0.70	1.44	14.00	-12.56
	6895	189	CDD	6Mbps	-2.33	-2.43	0.63	0.00	0.63	14.00	-13.37
	6995	209	CDD	18Mbps	-2.32	-2.47	0.62	0.00	0.62	14.00	-13.38
	7115	233	CDD	6Mbps	-2.86	-2.97	0.10	0.00	0.10	14.00	-13.90

Table 7-25. CDD Diversity 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

6GHz (20MHz Bandwidth) (1+2)	Frequency [MHz]	Channel	Mode	Data Rate	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 WF8	Antenna WF7	Summed				
	6115	33	SDM	MCS5	1.66	1.70	4.69	0.11	4.80	14.00	-9.20
	6255	61	SDM	MCS5	1.48	1.63	4.57	0.11	4.68	14.00	-9.32
	6415	93	SDM	MCS5	1.79	1.80	4.81	-0.03	4.78	14.00	-9.22
	6435	97	SDM	MCS0	1.32	1.29	4.32	0.50	4.82	14.00	-9.18
	6475	105	SDM	MCS5	1.37	1.54	4.46	0.50	4.96	14.00	-9.04
	6515	113	SDM	MCS0	1.39	1.69	4.55	0.50	5.05	14.00	-8.95
	6535	117	SDM	MCS5	0.84	0.69	3.78	0.65	4.43	14.00	-9.57
	6695	149	SDM	MCS0	0.79	0.86	3.84	0.65	4.49	14.00	-9.51
	6875	185	SDM	MCS5	1.08	0.91	4.01	0.65	4.66	14.00	-9.34
	6895	189	SDM	MCS3	0.87	1.01	3.95	-0.34	3.61	14.00	-10.39
	6995	209	SDM	MCS5	0.61	0.52	3.58	-0.34	3.24	14.00	-10.76
	7115	233	SDM	MCS0	0.10	0.28	3.20	-0.34	2.86	14.00	-11.14

Table 7-26. SDM Diversity 20MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (40MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Data Rate	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 WF8	Antenna WF7	Summed				
	6125	35	SDM	MCS3	4.47	4.42	7.46	0.45	7.91	14.00	-6.09
	6245	59	SDM	MCS0	4.44	4.27	7.37	0.45	7.82	14.00	-6.18
	6405	91	SDM	MCS5	4.79	4.76	7.79	0.49	8.28	14.00	-5.72
	6445	99	SDM	MCS5	4.42	4.33	7.39	-0.25	7.14	14.00	-6.86
	6485	107	SDM	MCS0	4.40	4.30	7.36	-0.25	7.11	14.00	-6.89
	6525	115	SDM	MCS5	3.82	3.91	6.88	1.02	7.90	14.00	-6.10
	6565	123	SDM	MCS0	3.86	3.65	6.77	1.02	7.79	14.00	-6.21
	6725	155	SDM	MCS0	3.59	3.94	6.78	1.02	7.80	14.00	-6.20
	6845	179	SDM	MCS5	3.96	3.86	6.92	1.02	7.94	14.00	-6.06
	6885	187	SDM	MCS0	3.34	3.38	6.37	1.05	7.42	14.00	-6.58
	7005	211	SDM	MCS0	3.83	3.84	6.85	1.05	7.90	14.00	-6.10
	7085	227	SDM	MCS0	3.80	3.92	6.87	1.05	7.92	14.00	-6.08

Table 7-27. SDM Diversity 40MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (80MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Data Rate	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 WF8	Antenna WF7	Summed				
	6145	39	SDM	MCS5	7.65	7.37	10.52	0.11	10.63	14.00	-3.37
	6225	55	SDM	MCS5	7.57	7.67	10.63	0.11	10.74	14.00	-3.26
	6385	87	SDM	MCS5	7.68	7.66	10.68	-0.03	10.65	14.00	-3.35
	6465	103	SDM	MCS5	7.62	7.68	10.66	0.50	11.16	14.00	-2.84
	6545	119	SDM	MCS5	6.90	6.99	9.95	0.65	10.60	14.00	-3.40
	6705	151	SDM	MCS5	6.95	6.85	9.91	0.65	10.56	14.00	-3.44
	6865	183	SDM	MCS5	6.77	6.73	9.76	0.65	10.41	14.00	-3.59
	6945	199	SDM	MCS0	6.86	6.88	9.88	-0.34	9.54	14.00	-4.46
	7025	215	SDM	MCS5	6.90	6.98	9.95	-0.34	9.61	14.00	-4.39

Table 7-28. SDM Diversity 80MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Data Rate	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 WF8	Antenna WF7	Summed				
	6185	47	SDM	MCS0	9.27	9.06	12.17	0.11	12.28	14.00	-1.72
	6345	79	SDM	MCS0	9.35	9.31	12.34	-0.03	12.31	14.00	-1.69
	6505	111	SDM	MCS5	8.43	8.70	11.58	0.50	12.08	14.00	-1.92
	6665	143	SDM	MCS0	8.58	8.73	11.67	0.65	12.32	14.00	-1.68
	6825	175	SDM	MCS5	8.50	8.36	11.44	0.65	12.09	14.00	-1.91
	6985	207	SDM	MCS0	8.72	8.75	11.75	-0.34	11.41	14.00	-2.59

Table 7-29. SDM Diversity 160MHz BW 802.11be(SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 41 of 188

Note:

Per ANSI C63.10-2020 and KDB 662911 v02r01 Section E)1), the conducted powers at Antenna WF5B and Antenna WF8 were first measured separately during CDD/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 Subclause 14.6.3, the correlated 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.

$$\text{Directional gain} = G_{ANT} + \text{Array Gain dBi}$$

Per ANSI C63.10-2020 Subclause 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 SDM Calculation:

At 6115 MHz in 802.11be (20MHz BW) mode, the average conducted output power was measured to be 1.70 dBm for Antenna WF5B and 1.62 dBm for Antenna-WF8.

$$\text{Antenna WF5B} + \text{Antenna WF8} = \text{SDM}$$

$$(1.70\text{dBm} + 1.62 \text{ dBm}) = (1.479\text{mW} + 1.452\text{mW}) = 2.931 \text{ mW} = 4.67 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 6115MHz in 802.11be (20MHz BW), SDM mode, the average SDM conducted power was calculated to be 4.67 dBm with directional gain of 0.45 dBi.

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

$$4.67 \text{ dBm} + 0.45 \text{ dBi} = 5.12 \text{ dBm}$$

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 42 of 188

V 11.0 05/2025

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7.4 Maximum Power Spectral Density

§15.407(a)(9), RSS-248 [4.5.6]

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 – 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. Set span to encompass the entire 99% OBW 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 and channels (low, mid, and high) were investigated, and tabular data provided. Only the worst-case plots are reported.
2. The duty cycle correction factor (DCCF) has been applied as an amplitude offset in the spectrum analyzer to ensure the required correction is accurately reflected in the measured Power Spectral Density (PSD). The offset value is indicated on each PSD plot.

FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 43 of 188

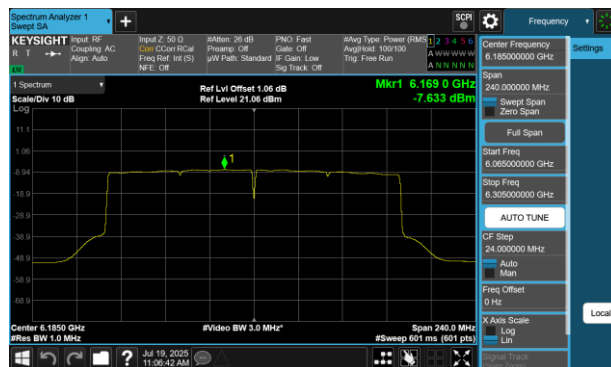
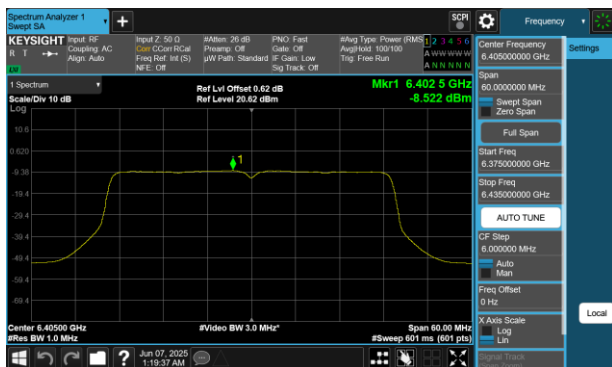
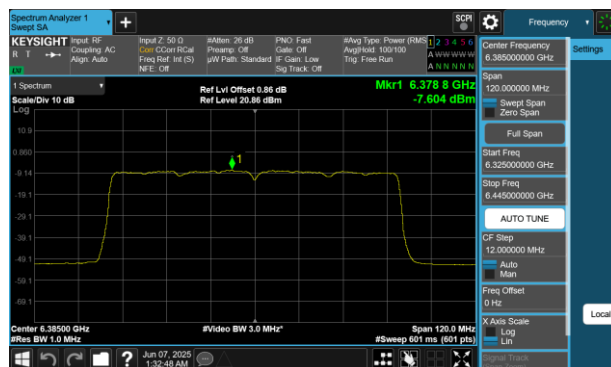
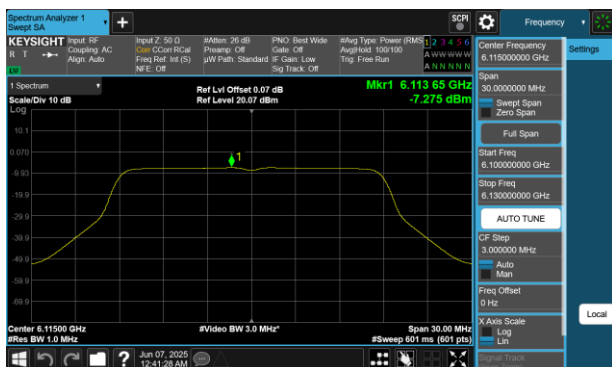
V 11.0 05/2025

7.4.1 Antenna WF5B Power Spectral Density Measurements – VLP

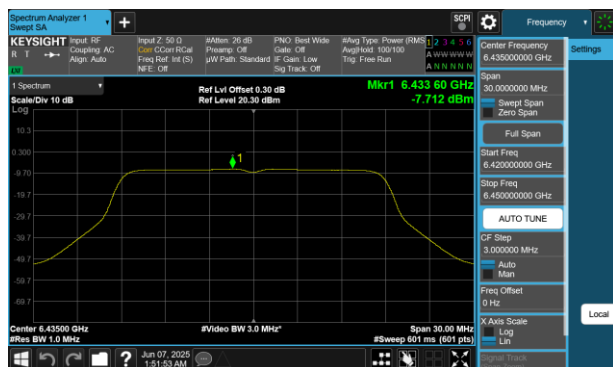
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	a	6Mbps	-7.28	0.5	-6.78	-5	-1.78
	6175	61	a	36Mbps	-7.61	0.5	-7.11	-5	-2.11
	6415	93	a	36Mbps	-8.15	1.3	-6.85	-5	-1.85
	6115	33	be (20MHz)	MCS5	-7.74	0.5	-7.24	-5	-2.24
	6175	61	be (20MHz)	MCS5	-7.82	0.5	-7.32	-5	-2.32
	6415	93	be (20MHz)	MCS5	-8.33	1.3	-7.03	-5	-2.03
	6125	35	be (40MHz)	MCS5	-7.76	0.5	-7.26	-5	-2.26
	6165	59	be (40MHz)	MCS5	-7.89	0.5	-7.39	-5	-2.39
	6405	91	be (40MHz)	MCS5	-8.52	1.3	-7.22	-5	-2.22
	6145	39	be (80MHz)	MCS5	-7.00	0.5	-6.50	-5	-1.50
	6145	55	be (80MHz)	MCS5	-7.12	0.5	-6.62	-5	-1.62
	6385	87	be (80MHz)	MCS5	-7.60	1.3	-6.30	-5	-1.30
Band 6	6185	47	be (160MHz)	MCS5	-7.63	0.5	-7.13	-5	-2.13
	6345	79	be (160MHz)	MCS3	-9.02	1.3	-7.72	-5	-2.72
	6435	97	a	36Mbps	-7.71	-0.3	-8.01	-5	-3.01
	6475	105	a	36Mbps	-7.79	-0.3	-8.09	-5	-3.09
	6515	113	a	36Mbps	-8.10	-0.3	-8.40	-5	-3.40
	6345	97	be (20MHz)	MCS5	-7.93	-0.3	-8.23	-5	-3.23
	6475	105	be (20MHz)	MCS5	-8.02	-0.3	-8.32	-5	-3.32
	6515	113	be (20MHz)	MCS5	-7.83	-0.3	-8.13	-5	-3.13
	6445	99	be (40MHz)	MCS5	-8.08	-0.3	-8.38	-5	-3.38
	6485	107	be (40MHz)	MCS5	-8.22	-0.3	-8.52	-5	-3.52
	6525	115	be (40MHz)	MCS5	-8.65	-0.3	-8.95	-5	-3.95
	6465	103	be (80MHz)	MCS5	-7.44	-0.3	-7.74	-5	-2.74
Band 7	6505	111	be (160MHz)	MCS5	-8.46	-0.3	-8.76	-5	-3.76
	6535	117	a	36Mbps	-8.60	1.4	-7.20	-5	-2.20
	6695	149	a	36Mbps	-8.25	1.4	-6.85	-5	-1.85
	6875	185	a	36Mbps	-8.59	1.4	-7.19	-5	-2.19
	6535	117	be (20MHz)	MCS5	-8.31	1.4	-6.91	-5	-1.91
	6695	149	be (20MHz)	MCS5	-8.43	1.4	-7.03	-5	-2.03
	6875	185	be (20MHz)	MCS5	-8.53	1.4	-7.13	-5	-2.13
	6565	123	be (40MHz)	MCS5	-8.44	1.4	-7.04	-5	-2.04
	6725	155	be (40MHz)	MCS5	-8.67	1.4	-7.27	-5	-2.27
	6885	179	be (40MHz)	MCS5	-8.51	1.4	-7.11	-5	-2.11
	6545	119	be (80MHz)	MCS5	-7.79	1.4	-6.39	-5	-1.39
	6705	151	be (80MHz)	MCS5	-7.95	1.4	-6.55	-5	-1.55
Band 8	6865	183	be (80MHz)	MCS5	-8.12	1.4	-6.72	-5	-1.72
	6665	143	be (160MHz)	MCS5	-8.46	1.4	-7.06	-5	-2.06
	6825	175	be (160MHz)	MCS5	-8.99	1.4	-7.59	-5	-2.59
	6895	189	a	36Mbps	-8.56	1.9	-6.66	-5	-1.66
	6995	209	a	36Mbps	-8.77	1.9	-6.87	-5	-1.87
	7115	233	a	36Mbps	-9.53	1.9	-7.63	-5	-2.63
	6895	189	be (20MHz)	MCS5	-9.31	1.9	-7.41	-5	-2.41
	6995	209	be (20MHz)	MCS5	-9.45	1.9	-7.55	-5	-2.55
	7115	233	be (20MHz)	MCS5	-9.49	1.9	-7.59	-5	-2.59
	6925	187	be (40MHz)	MCS5	-9.09	1.9	-7.19	-5	-2.19
	7005	211	be (40MHz)	MCS5	-9.01	1.9	-7.11	-5	-2.11
	7085	227	be (40MHz)	MCS5	-9.20	1.9	-7.30	-5	-2.30
	6945	199	be (80MHz)	MCS5	-8.20	1.9	-6.30	-5	-1.30
	7025	215	be (80MHz)	MCS5	-8.49	1.9	-6.59	-5	-1.59
	6985	207	be (160MHz)	MCS3	-9.32	1.9	-7.42	-5	-2.42

Table 7-30. Power Spectral Density Measurements Antenna WF5B

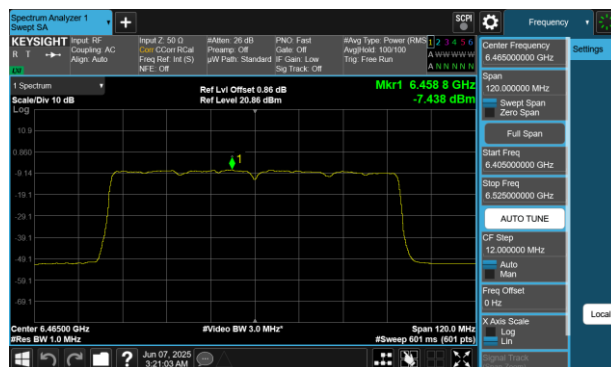
FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 44 of 188



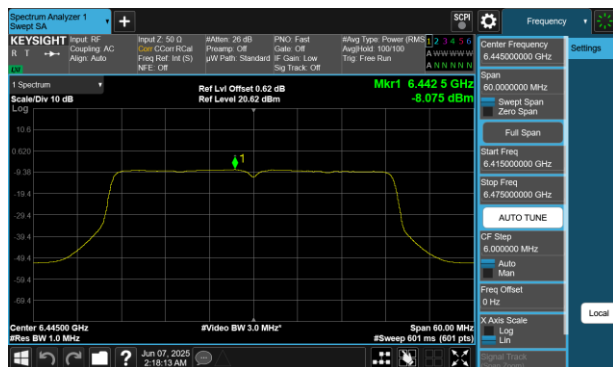
FCC ID: BCGA3357 IC: 579C-A3357			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device		Page 45 of 188



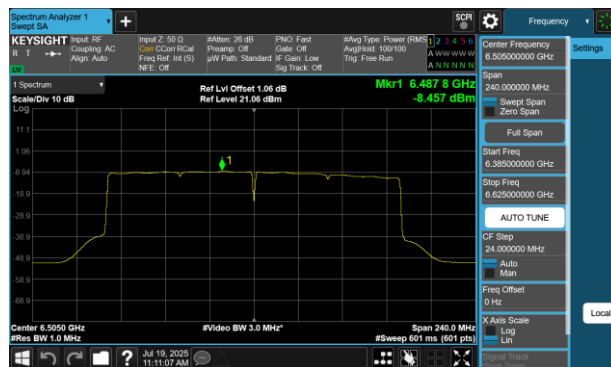
Plot 7-53 PSD Antenna WF5B (20MHz BW 802.11a - Ch.97)



Plot 7-55 PSD Antenna WF5B (80MHz BW 802.11be(SU) - Ch.103)

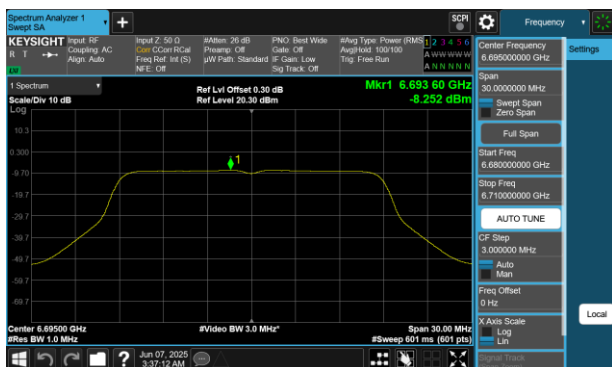


Plot 7-54 PSD Antenna WF5B (40MHz BW 802.11be(SU) - Ch.99)

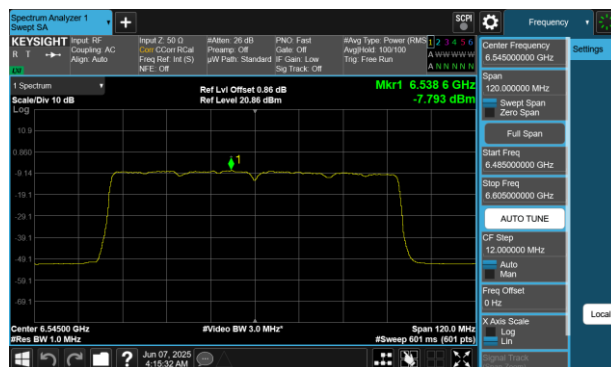


Plot 7-56 PSD Antenna WF5B (160MHz BW 802.11be(SU) - Ch.111)

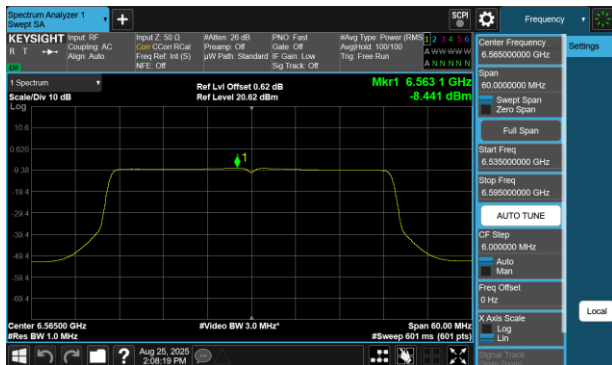
FCC ID: BCGA3357 IC: 579C-A3357		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG			Page 46 of 188
Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device		



Plot 7-57 PSD Antenna WF5B (20MHz BW 802.11a - Ch.149)



Plot 7-59 PSD Antenna WF5B (80MHz BW 802.11be(SU) - Ch.119)

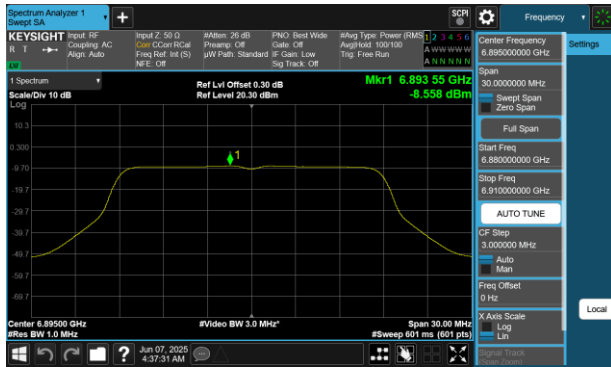


Plot 7-58 PSD Antenna WF5B (40MHz BW 802.11be(SU) - Ch.123)

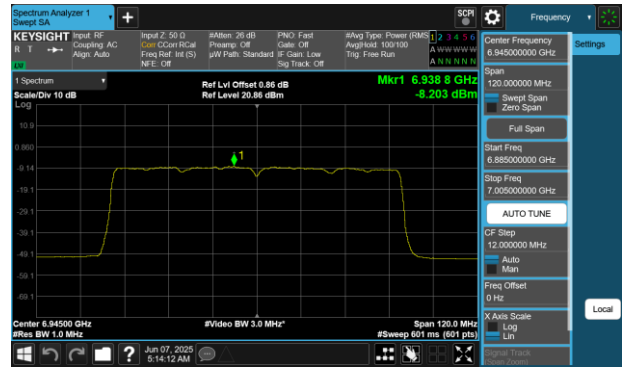


Plot 7-60 PSD Antenna WF5B (160MHz BW 802.11be(SU) - Ch.143)

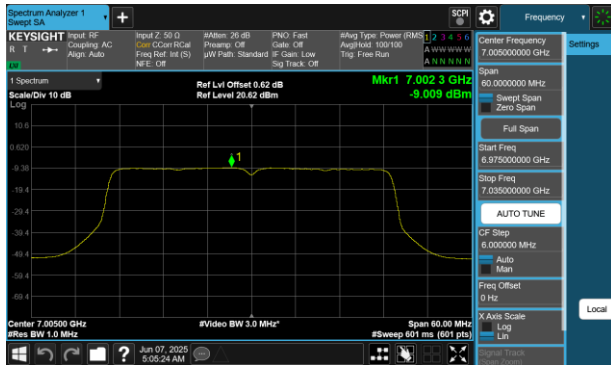
FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 47 of 188



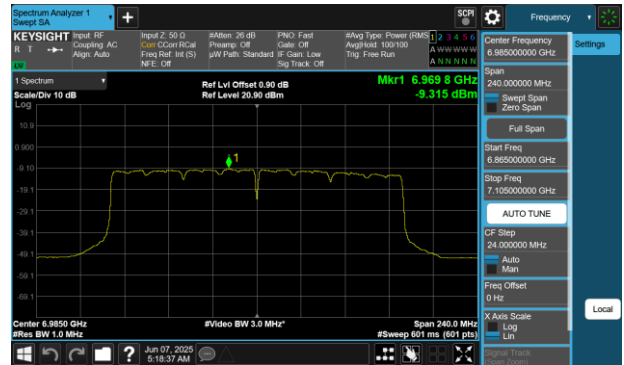
Plot 7-61 PSD Antenna WF5B (20MHz BW 802.11a - Ch.189)



Plot 7-63 PSD Antenna WF5B (80MHz BW 802.11be(SU) - Ch.199)



Plot 7-62 PSD Antenna WF5B (40MHz BW 802.11be(SU) - Ch.211)



Plot 7-64 PSD Antenna WF5B (160MHz BW 802.11be(SU) - Ch.207)

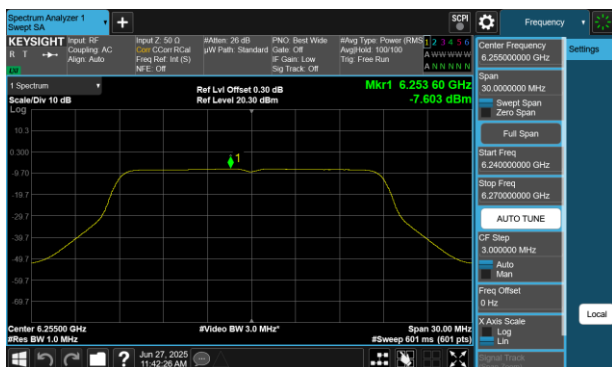
FCC ID: BCGA3357 IC: 579C-A3357	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 48 of 188

7.4.2 Antenna WF8 Power Spectral Density Measurements – VLP

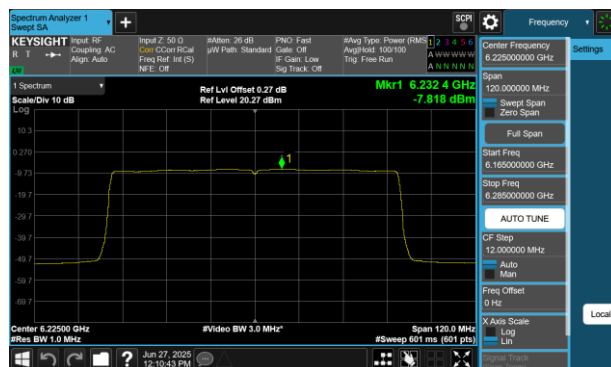
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	a	6Mbps	-7.80	0.4	-7.40	-5	-2.40
	6175	61	a	36Mbps	-7.60	0.4	-7.20	-5	-2.20
	6415	93	a	36Mbps	-7.73	-0.5	-8.23	-5	-3.23
	6115	33	be (20MHz)	MCS3	-7.94	0.4	-7.54	-5	-2.54
	6175	61	be (20MHz)	MCS3	-7.73	0.4	-7.33	-5	-2.33
	6415	93	be (20MHz)	MCS3	-8.08	-0.5	-8.58	-5	-3.58
	6125	35	be (40MHz)	MCS3	-8.33	0.4	-7.93	-5	-2.93
	6165	59	be (40MHz)	MCS3	-8.11	0.4	-7.71	-5	-2.71
	6405	91	be (40MHz)	MCS0	-8.36	-0.5	-8.86	-5	-3.86
	6145	39	be (80MHz)	MCS0	-7.96	0.4	-7.56	-5	-2.56
	6145	55	be (80MHz)	MCS0	-7.82	0.4	-7.42	-5	-2.42
	6385	87	be (80MHz)	MCS5	-8.03	-0.5	-8.53	-5	-3.53
	6185	47	be (160MHz)	MCS5	-7.59	0.4	-7.19	-5	-2.19
Band 6	6345	79	be (160MHz)	MCS0	-9.02	-0.5	-9.52	-5	-4.52
	6435	97	a	36Mbps	-6.39	-0.2	-6.59	-5	-1.59
	6475	105	a	36Mbps	-6.56	-0.2	-6.76	-5	-1.76
	6515	113	a	36Mbps	-6.59	-0.2	-6.79	-5	-1.79
	6345	97	be (20MHz)	MCS5	-6.82	-0.2	-7.02	-5	-2.02
	6475	105	be (20MHz)	MCS5	-6.99	-0.2	-7.19	-5	-2.19
	6515	113	be (20MHz)	MCS5	-7.05	-0.2	-7.25	-5	-2.25
	6445	99	be (40MHz)	MCS5	-6.77	-0.2	-6.97	-5	-1.97
	6485	107	be (40MHz)	MCS3	-6.17	-0.2	-6.37	-5	-1.37
	6525	115	be (40MHz)	MCS5	-7.87	-0.2	-8.07	-5	-3.07
	6465	103	be (80MHz)	MCS5	-5.94	-0.2	-6.14	-5	-1.14
	6505	111	be (160MHz)	MCS5	-7.68	-0.2	-7.88	-5	-2.88
Band 7	6535	117	a	18Mbps	-7.77	0.6	-7.17	-5	-2.17
	6695	149	a	18Mbps	-7.52	0.6	-6.92	-5	-1.92
	6875	185	a	36Mbps	-7.55	0.6	-6.95	-5	-1.95
	6535	117	be (20MHz)	MCS3	-7.68	0.6	-7.08	-5	-2.08
	6695	149	be (20MHz)	MCS5	-7.55	0.6	-6.95	-5	-1.95
	6875	185	be (20MHz)	MCS3	-7.63	0.6	-7.03	-5	-2.03
	6565	123	be (40MHz)	MCS3	-8.29	0.6	-7.69	-5	-2.69
	6725	155	be (40MHz)	MCS0	-7.90	0.6	-7.30	-5	-2.30
	6885	179	be (40MHz)	MCS5	-8.09	0.6	-7.49	-5	-2.49
	6545	119	be (80MHz)	MCS5	-7.65	0.6	-7.05	-5	-2.05
	6705	151	be (80MHz)	MCS0	-7.46	0.6	-6.86	-5	-1.86
	6865	183	be (80MHz)	MCS0	-7.51	0.6	-6.91	-5	-1.91
	6665	143	be (160MHz)	MCS5	-7.83	0.6	-7.23	-5	-2.23
Band 8	6825	175	be (160MHz)	MCS3	-8.10	0.6	-7.50	-5	-2.50
	6895	189	a	36Mbps	-6.93	0	-6.93	-5	-1.93
	6995	209	a	6Mbps	-6.77	0	-6.77	-5	-1.77
	7115	233	a	36Mbps	-7.50	0	-7.50	-5	-2.50
	6895	189	be (20MHz)	MCS5	-6.92	0	-6.92	-5	-1.92
	6995	209	be (20MHz)	MCS5	-6.94	0	-6.94	-5	-1.94
	7115	233	be (20MHz)	MCS5	-7.51	0	-7.51	-5	-2.51
	6925	187	be (40MHz)	MCS0	-8.15	0	-8.15	-5	-3.15
	7005	211	be (40MHz)	MCS5	-7.16	0	-7.16	-5	-2.16
	7085	227	be (40MHz)	MCS5	-7.27	0	-7.27	-5	-2.27
	6945	199	be (80MHz)	MCS5	-6.43	0	-6.43	-5	-1.43
	7025	215	be (80MHz)	MCS5	-6.32	0	-6.32	-5	-1.32
	6985	207	be (160MHz)	MCS3	-7.41	0	-7.41	-5	-2.41

Table 7-31. Power Spectral Density Measurements Antenna WF8

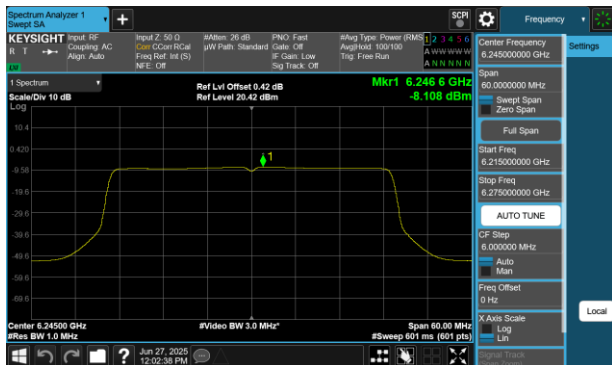
FCC ID: BCGA3357 IC: 579C-A3357	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 49 of 188



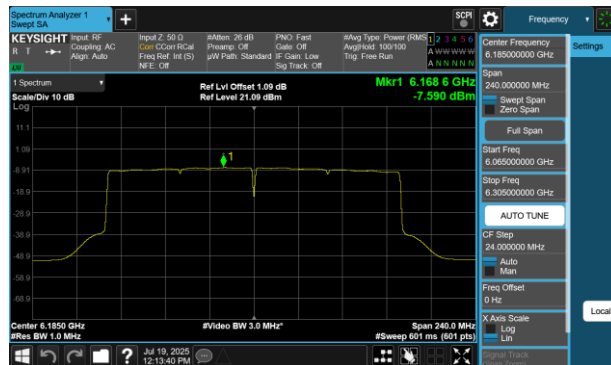
Plot 7-65 PSD Antenna WF8 (20MHz BW 802.11a - Ch.61)



Plot 7-67 PSD Antenna WF8 (80MHz BW 802.11be(SU) - Ch.55)

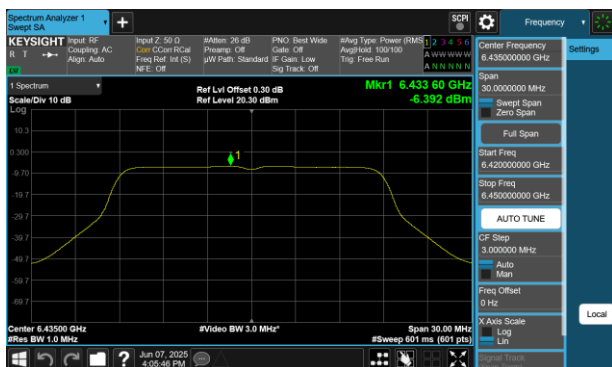


Plot 7-66 PSD Antenna WF8 (40MHz BW 802.11be(SU) - Ch.59)

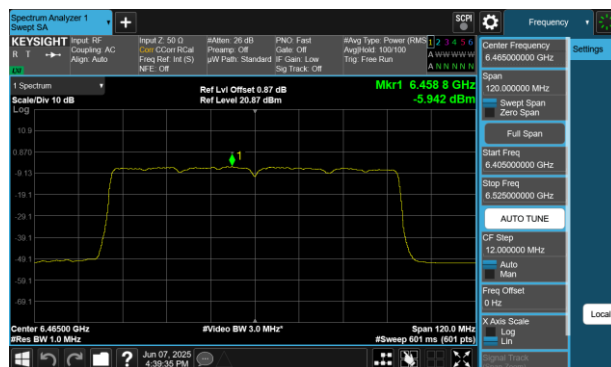


Plot 7-68 PSD Antenna WF8 (160MHz BW 802.11be(SU) - Ch.47)

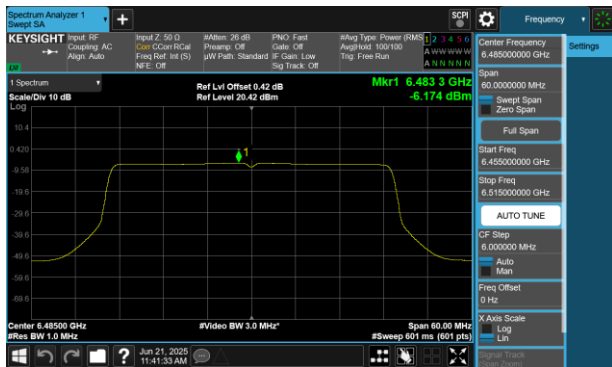
FCC ID: BCGA3357 IC: 579C-A3357	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 50 of 188



Plot 7-69 PSD Antenna WF8 (20MHz BW 802.11a - Ch.97)



Plot 7-71 PSD Antenna WF8 (80MHz BW 802.11be(SU) - Ch.103)

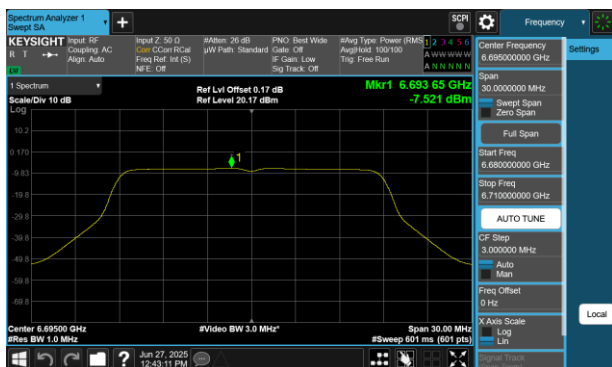


Plot 7-70 PSD Antenna WF8 (40MHz BW 802.11be(SU) - Ch.107)

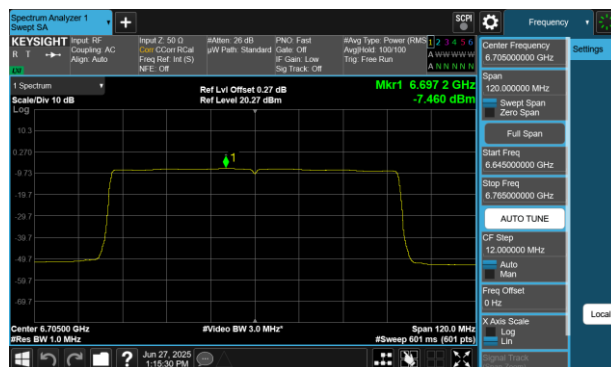


Plot 7-72 PSD Antenna WF8 (160MHz BW 802.11be(SU) - Ch.111)

FCC ID: BCGA3357 IC: 579C-A3357			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device		Page 51 of 188



Plot 7-73 PSD Antenna WF8 (20MHz BW 802.11a - Ch.149)



Plot 7-75 PSD Antenna WF8 (80MHz BW 802.11be(SU) - Ch.151)



Plot 7-74 PSD Antenna WF8 (40MHz BW 802.11be(SU) - Ch.155)



Plot 7-76 PSD Antenna WF8 (160MHz BW 802.11be(SU) - Ch.143)

FCC ID: BCGA3357 IC: 579C-A3357			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170038-17-R1.BCG	Test Dates: 5/12/2025 - 8/26/2025	EUT Type: Tablet Device	Page 52 of 188	