

MEASUREMENT REPORT
FCC PART 15.407 / ISSED RSS-248 UNII 6GHz OFDM 802.11a/ax(SU)
Applicant Name:

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

Date of Testing:

03/24/2025 - 06/14/2025

Test Report Issue Date:

9/21/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2503170028-11-R3.BCG

FCC ID:

BCGA3300

IC:

579C-A3300

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3300

EUT Type:

Smart Speaker with Display

Frequency Range:

6115 – 7115MHz

Modulation Type:

OFDM

FCC Classification:

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

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISSED Specification:

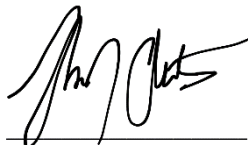
RSS-248 Issue 3

Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
C63.10a:2024, 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

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: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Revision Summary

Revision	Date	Comments	Revised By
-	10/24/2025	Released to client & TCB	WKR016622
R1	12/19/2025	Addressed additional TCB comments in sections 2.2 to 2.6 and 7.1 to 7.8 and minor formatting issues	WKR016622
R2	5/28/2026	Addressed revisions for Equipment Support Table Models	WKR016696
R3	9/21/2026	Update RSS-Gen subsections	WKR0000010305

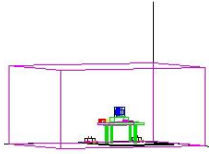
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V 12.0 03/03/2026

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MEASUREMENT REPORT



UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO				SDM	
				Antenna 0		Antenna 1		Summed	
				Max. Power (mW)	Max. e.i.r.p (dBm)	Max. Power (mW)	Max. e.i.r.p (dBm)	Max. Power (mW)	Max. e.i.r.p (dBm)
5	20	802.11a/ax	6115 - 6415	2.972	4.73	3.215	5.07	3.032	4.82
6		802.11a/ax	6435 - 6515	2.543	4.05	2.014	3.04	2.434	3.86
7		802.11a/ax	6535 - 6875	2.407	3.81	2.495	3.97	2.345	3.70
8		802.11a/ax	6895 - 7115	2.239	3.50	2.547	4.06	2.739	4.38
5	40	802.11ax	6125 - 6405	5.445	7.36	5.522	7.42	5.568	7.46
6		802.11ax	6445 - 6525	4.397	6.43	3.715	5.70	4.318	6.35
7		802.11ax	6565 - 6845	4.380	6.42	4.496	6.53	4.179	6.21
8		802.11ax	6885 - 7085	3.917	5.93	4.344	6.38	4.577	6.61
5	80	802.11ax	6145 - 6385	10.864	10.36	10.765	10.32	10.109	10.05
6		802.11ax	6465	8.644	9.37	7.101	8.51	8.981	9.53
7		802.11ax	6545 - 6865	7.581	8.80	9.116	9.60	8.036	9.05
8		802.11ax	6945 - 7025	8.222	9.15	8.884	9.49	8.271	9.18
5	160	802.11ax	6185 - 6345	17.175	12.35	19.187	12.83	18.566	12.69
6		802.11ax	6505	14.900	11.73	12.162	10.85	15.860	12.00
7		802.11ax	6665 - 6825	15.265	11.84	15.018	11.77	14.759	11.69
8		802.11ax	6985	14.312	11.56	16.151	12.08	16.053	12.06

EUT Overview

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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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 ISSED Standards (RSS).
- Element Materials Technology facility is a registered test laboratory with the site description on file with ISSED (Wireless Test Lab number 22831) and FCC (Designation Number US1163).
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISSED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Smart Speaker with Display FCC ID: BCGA3300 and IC: 579C-A3300**. 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.: D1WCX9K0C3, FQYJTXNHYW, VWMWCFFKH4, HP34WHV7XM, FPQR7MJ2N1, HV6HEQ0001R0000NGQ

2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE1M, LE2M)

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

The device supports channel bandwidth reduction and does not support channel puncturing.

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
33	6115	97	6435	117	6535	189	6895
:	:	:	:	:	:	:	:
65	6275	105	6475	149	6695	209	6995
:	:	:	:	:	:	:	:
93	6415	113	6515	185	6875	233	7115

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

Band 5		Band 6		Band 7		Band 8	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
35	6125	99	6433	123	6565	187	6885
:	:	:	:	:	:	:	:
67	6285	107	6485	155	6725	211	7005
:	:	:	:	:	:	:	:
91	6405	115	6525	179	6833	227	7085

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

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Band 5

Ch.	Frequency (MHz)
39	6145
:	:
71	6305
:	:
87	6385

Band 6

Ch.	Frequency (MHz)
103	6465

Band 7

Ch.	Frequency (MHz)
119	6533
:	:
151	6705
:	:
183	6865

Band 8

Ch.	Frequency (MHz)
199	6933
:	:
215	7025

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

Band 5

Ch.	Frequency (MHz)
15	6025
:	:
47	6185
:	:
79	6333

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 (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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024. 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:

Measured Duty Cycles							
802.11 Mode / Band		Antenna 0		Antenna 0		SDM	
		Duty Cycle [%]	Radiated DCCF [dB]	Duty Cycle [%]	Radiated DCCF [dB]	Duty Cycle [%]	Radiated DCCF [dB]
6GHz	11a (20MHz) (Low Rate VLP)	95.28	0.21	94.81	0.23	N/A	N/A
	11a (20MHz) (Mid Rate VLP)	90.78	0.42	90.76	0.42	N/A	N/A
	11a (20MHz) (High Rate)	82.92	0.81	83.14	0.80	N/A	N/A
	11ax(SU) (20MHz) (Low Rate VLP)	98.43	0.06	98.65	0.05	98.43	0.06
	11ax(SU) (20MHz) (Mid Rate VLP)	98.49	0.06	98.43	0.06	98.49	0.06
	11ax(SU) (20MHz) (High Rate)	97.95	0.09	98.41	0.06	97.73	0.10
	11ax(SU) (40MHz) (Low Rate VLP)	98.43	0.06	98.49	0.06	98.43	0.06
	11ax(SU) (40MHz) (Mid Rate VLP)	98.68	0.05	98.51	0.06	98.04	0.08
	11ax(SU) (40MHz) (High Rate)	96.81	0.14	96.42	0.15	96.69	0.14
	11ax(SU) (80MHz) (Low Rate VLP)	98.21	0.07	98.27	0.07	98.72	0.05
	11ax(SU) (80MHz) (Mid Rate VLP)	97.55	0.10	97.30	0.11	97.07	0.12
	11ax(SU) (80MHz) (High Rate)	94.53	0.25	94.36	0.25	94.35	0.25
	11ax(SU) (160MHz) (Low Rate VLP)	97.52	0.10	97.55	0.10	97.56	0.10
	11ax(SU) (160MHz) (Mid Rate VLP)	95.38	0.20	95.19	0.21	95.49	0.20
	11ax(SU) (160MHz) (High Rate)	90.49	0.43	89.89	0.46	89.73	0.47

Table 2-5. Measured Duty Cycles

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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2. The device employs MIMO technology. Below are the possible configurations.

WiFi Configurations		SISO		CDD		SDM	
		Antenna 0	Antenna 0	Antenna 0	Antenna 0	Antenna 0	Antenna 0
5GHz	11a	✓	✓	✗	✗	✗	✗
	11ax(SU) (20MHz)	✓	✓	✓	✓	✓	✓
	11ax(SU) (40MHz)	✓	✓	✓	✓	✓	✓
	11ax(SU) (80MHz)	✓	✓	✓	✓	✓	✓
	11ax(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

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

802.11a	MCS Index	Spatial Stream	OFDM (802.11ax)												
			20MHz			40MHz			80MHz			160MHz			
			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	
20MHz	HE														
6	0	1	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3	Low rate
9	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	1	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8	
18	3	1	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	Mid rate
24	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	1	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	
48	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	High Rate
54	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	1	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	
-	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	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	1	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8	Low rate
-	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	
-	1	2	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	
-	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	
-	3	2	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	
-	4	2	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	Mid rate
-	5	2	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980	
-	6	2	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	
-	7	2	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.2	1361.1	1225	High Rate
-	8	2	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470	
-	9	2	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3	
-	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	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. Supported Data Rates

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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4. This device supports simultaneous transmission operations, which allows for 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	WIFI 5GHz	WIFI 6GHz
		BDR, EDR, LE1/2M	802.15.4	802.11 b/g/ac/ax	802.11 a/n/ac/ax	802.11 a/ax
Antenna 0	Config 1	✓	✗	✗	✓	✗
Antenna 1	Config 2	✗	✓	✗	✓	✗
Antenna 0	Config 3	✓	✗	✗	✗	✓
Antenna 1	Config 4	✗	✓	✗	✗	✓

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 2 and reported in RF UNII OFDMA and RF 802.15.4 test reports.

2.3 Antenna Description

Following antenna gains were provided by the manufacturer.

UNII Band	Highest Antenna Gain (dBi)		Lowest Antenna Gain (dBi)	
	Antenna 0	Antenna 1	Antenna 0	Antenna 1
5	1.87	2.14	1.38	1.46
6	1.73	0.74	1.73	0.74
7	-1.02	-0.88	-2.77	-2.73
8	-0.26	0.18	-2.20	-0.99

Table 2-9. Antenna Gains

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Banana Split	S/N:	200730
3	USB-C Cable	Model:	A246C	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	Smart Speaker w/ Display	Model:	A3218	S/N:	GTD46927RT

Table 2-10. Test Support Equipment List

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, KDB 789033 D02 v02r01 and KDB 987594 D02 v02r01. ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 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 0 for antenna port conducted emissions test setups.

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 placed in one orthogonal plane of 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, the following configuration was investigated and the worst case was reported.

- EUT powered by AC/DC Adapter via USB-C cable

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

For 802.11ax-RU test results, see separate UNII 6GHz 6VL OFDMA report, 1C2503170028-12-R1.BCG.

The data rates have been classified into three different groups as shown in Table 2-7; low data rate, middle data rate, and high data rate. All three groups of data rate have been investigated and only the worst case data rate per group is reported.

2.6 Software and Firmware

The test was conducted with firmware version 22w173 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.

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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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024) 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.

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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).

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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.

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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	1.77
Line Conducted Disturbance	2.70
Radiated Disturbance (<30MHz)	4.38
Radiated Disturbance (30MHz - 1GHz)	4.75
Radiated Disturbance (1 - 18GHz)	5.20
Radiated Disturbance (>18GHz)	4.72

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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 to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Anritsu	ML2495A	Power Meter	7/8/2024	Annual	7/8/2025	1039008
Anritsu	MA2411B	Pulse Power Sensor	7/1/2024	Annual	7/1/2025	1911105
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
ATM	180-442A-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058701-02
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/4/2024	Annual	9/4/2025	205956
Fairview Microwave	FMCA1975-36	30MHz-40GHz Conducted Cable *	6/10/2024	Annual	6/10/2025	-
Fairview Microwave	FM2CP1122-10	Directional Coupler *	6/10/2024	Annual	6/10/2025	1946
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2024	Annual	6/10/2025	-
Keysight Technology	N9040B	UXA Signal Analyzer	5/28/2024	Annual	5/28/2025	MY57212015
Keysight Technology	N9030A	PXA Signal Analyzer	7/11/2024	Annual	7/11/2025	MY49430244
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	FSV40	Signal Analyzer (10Hz-40GHz)	5/29/2024	Annual	5/29/2025	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/3/2024	Annual	7/3/2025	102356
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	7/12/2024	Annual	7/12/2025	101363
Rohde & Schwarz	SMW200A	Vector Signal Generator	4/4/2024	Annual	4/4/2025	109456
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	00358

Table 6-1. Test Equipment List

Note:

- 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.
- * denotes passive equipment that have been internally verified/calibrated.

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3300
 IC: 579C-A3300
 FCC Classification: 15E 6GHz 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 [5.1], 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 [7.4.3]	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 [7.4.3])		PASS	Section 7.8, 7.9
15.407(b)(9)	RSS-Gen [7.4.2]	AC Conducted Emissions (150kHz – 30MHz)	< FCC 15.207 (RSS-Gen [7.4.2]) limits	LINE CONDUCTED	PASS	Section 7.10

Table 7-1. Summary of Test Results

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Conducted Automation," Version 1.4.0.
- 5) For radiated band edge, 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.

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7.2 26dB & 99% Bandwidth Measurement

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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – 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 antenna configurations and data rates were investigated and only the worst case are reported.
2. All data rates, antenna configurations and channels (low, mid, and high) were investigated, and tabular data provided. Only the worst-case plots are reported.

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7.2.1 Antenna 0 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	6115	33	a	12.00	16.53	20.81	320	Pass
	6275	65	a	12.00	16.55	20.46	320	Pass
	6415	93	a	24.00	16.65	21.71	320	Pass
	6115	33	ax (20MHz)	MCS11	19.12	22.39	320	Pass
	6275	65	ax (20MHz)	MCS11	19.13	22.52	320	Pass
	6415	93	ax (20MHz)	MCS11	19.11	22.72	320	Pass
	6125	35	ax (40MHz)	MCS11	37.94	39.96	320	Pass
	6285	67	ax (40MHz)	MCS11	37.91	39.97	320	Pass
	6405	91	ax (40MHz)	MCS4	37.69	44.68	320	Pass
	6145	39	ax (80MHz)	MCS11	77.57	80.75	320	Pass
	6305	71	ax (80MHz)	MCS11	77.58	80.72	320	Pass
	6385	87	ax (80MHz)	MCS4	77.00	83.01	320	Pass
	6185	47	ax (160MHz)	MCS11	156.65	162.53	320	Pass
Band 6	6345	79	ax (160MHz)	MCS11	156.85	163.06	320	Pass
	6435	97	a	12.00	16.54	20.46	320	Pass
	6455	105	a	12.00	16.53	20.35	320	Pass
	6515	113	a	12.00	16.53	20.47	320	Pass
	6435	97	ax (20MHz)	MCS11	19.11	22.92	320	Pass
	6455	105	ax (20MHz)	MCS2	19.03	22.40	320	Pass
	6515	113	ax (20MHz)	MCS11	19.12	22.65	320	Pass
	6445	99	ax (40MHz)	MCS11	37.95	39.95	320	Pass
	6485	107	ax (40MHz)	MCS11	37.94	39.98	320	Pass
Band 7	6465	103	ax (80MHz)	MCS11	77.47	80.68	320	Pass
	6505	111	ax (160MHz)	MCS11	156.85	162.36	320	Pass
	6535	117	a	12.00	16.56	20.62	320	Pass
	6695	149	a	12.00	16.55	20.61	320	Pass
	6855	185	a	6.00	16.56	20.50	320	Pass
	6535	117	ax (20MHz)	MCS11	19.11	22.42	320	Pass
	6695	149	ax (20MHz)	MCS2	18.99	22.52	320	Pass
	6855	185	ax (20MHz)	MCS11	19.11	22.36	320	Pass
	6565	123	ax (40MHz)	MCS11	37.95	39.85	320	Pass
	6725	155	ax (40MHz)	MCS11	37.97	39.92	320	Pass
	6845	179	ax (40MHz)	MCS11	37.95	39.95	320	Pass
	6545	119	ax (80MHz)	MCS11	77.52	80.89	320	Pass
	6705	151	ax (80MHz)	MCS11	77.53	80.80	320	Pass
Band 8	6875	183	ax (80MHz)	MCS11	77.50	80.70	320	Pass
	6665	143	ax (160MHz)	MCS11	156.62	162.49	320	Pass
	6825	175	ax (160MHz)	MCS11	156.90	162.38	320	Pass
	6895	189	a	12.00	16.54	20.63	320	Pass
	6995	209	a	12.00	16.54	21.28	320	Pass
	7115	233	a	24.00	16.55	20.69	320	Pass
	6895	189	ax (20MHz)	MCS11	19.10	22.68	320	Pass
	6995	209	ax (20MHz)	MCS11	19.11	22.32	320	Pass
	7115	233	ax (20MHz)	MCS11	19.12	22.62	320	Pass
	6885	187	ax (40MHz)	MCS11	37.98	39.88	320	Pass
	7005	211	ax (40MHz)	MCS11	37.87	39.93	320	Pass
	7085	227	ax (40MHz)	MCS4	37.68	41.94	320	Pass
	6945	199	ax (80MHz)	MCS11	77.45	80.76	320	Pass
	7025	215	ax (80MHz)	MCS11	77.51	80.72	320	Pass
	6985	207	ax (160MHz)	MCS11	156.82	162.56	320	Pass

Table 7-2. Conducted Bandwidth Measurements Antenna 0

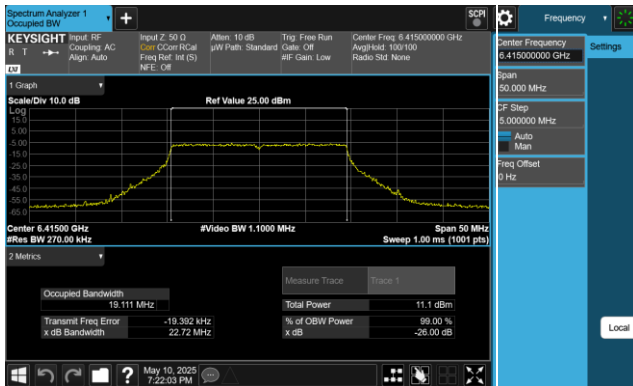
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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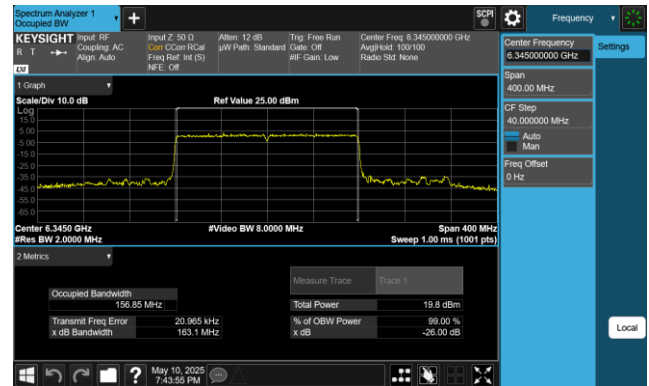
Plot 7-1. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11a (UNII Band 5) – Ch. 93, 24Mbps)



Plot 7-4. 26dB & 99% Bandwidth Plot Antenna 0 (80MHz 802.11ax (UNII Band 5) – Ch. 87, MCS4)



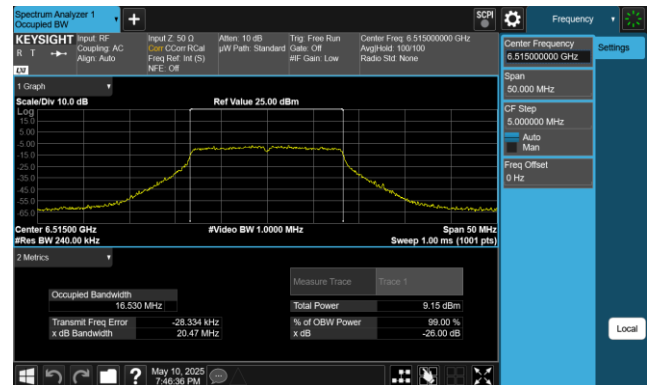
Plot 7-2. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11ax (UNII Band 5) – Ch. 93, MCS11)



Plot 7-5. 26dB & 99% Bandwidth Plot Antenna 0 (160MHz 802.11ax (UNII Band 5) – Ch. 79, MCS11)

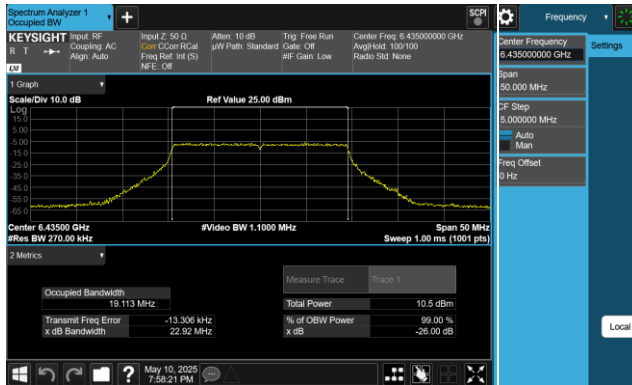


Plot 7-3. 26dB & 99% Bandwidth Plot Antenna 0 (40MHz 802.11ax (UNII Band 5) – Ch. 91, MCS4)

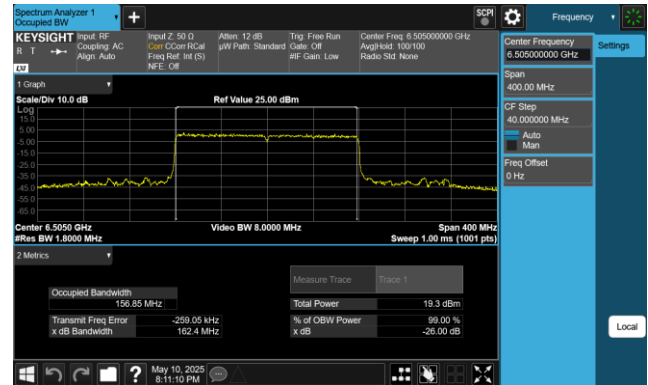


Plot 7-6. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11a (UNII Band 6) – Ch. 113, 12Mbps)

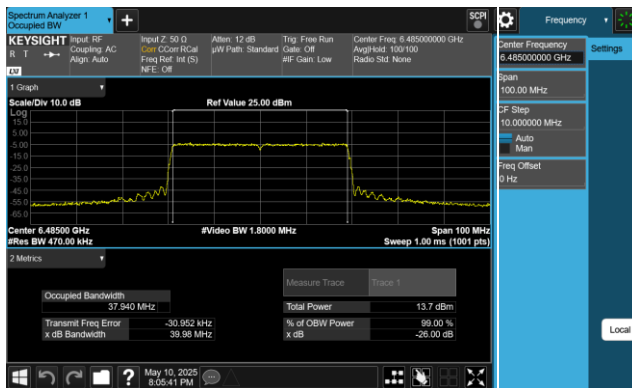
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 20 of 134



Plot 7-7. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11ax (UNII Band 6) – Ch. 97, MCS11)



Plot 7-10. 26dB & 99% Bandwidth Plot Antenna 0 (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS11)



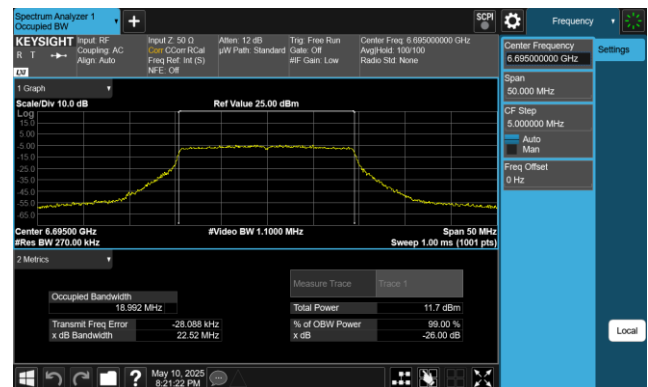
Plot 7-8. 26dB & 99% Bandwidth Plot Antenna 0 (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS11)



Plot 7-11. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11a (UNII Band 7) – Ch. 117, 12Mbps)



Plot 7-9. 26dB & 99% Bandwidth Plot Antenna 0 (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS11)



Plot 7-12. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS2)

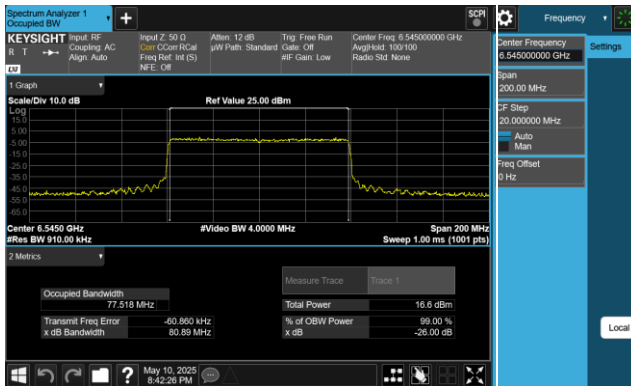
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 21 of 134



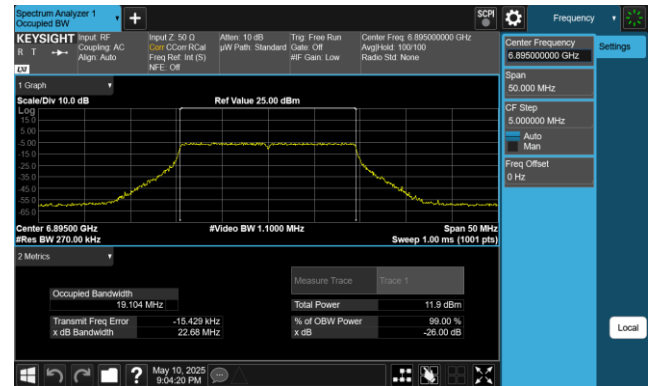
Plot 7-13. 26dB & 99% Bandwidth Plot Antenna 0 (40MHz 802.11ax (UNII Band 7) – Ch. 179, MCS11)



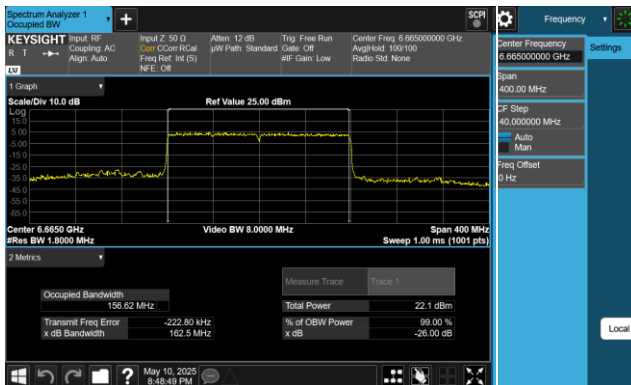
Plot 7-16. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11a (UNII Band 8) – Ch. 209, 12Mbps)



Plot 7-14. 26dB & 99% Bandwidth Plot Antenna 0 (80MHz 802.11ax (UNII Band 7) – Ch. 119, MCS11)



Plot 7-17. 26dB & 99% Bandwidth Plot Antenna 0 (20MHz 802.11ax (UNII Band 8) – Ch. 189, MCS11)

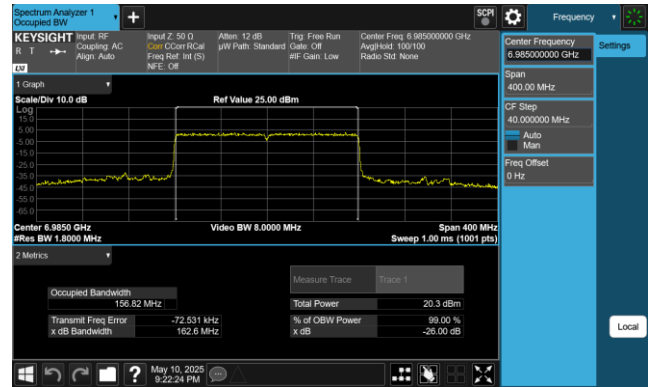
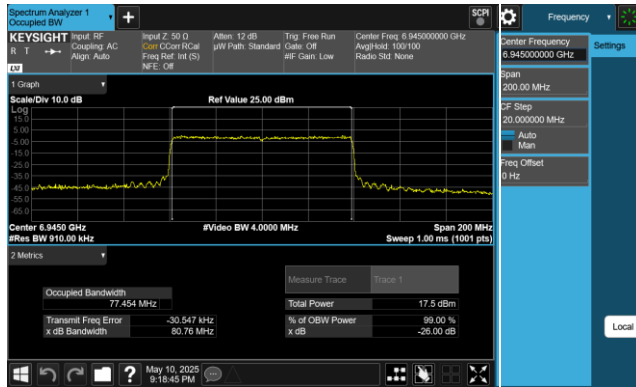


Plot 7-15. 26dB & 99% Bandwidth Plot Antenna 0 (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)



Plot 7-18. 26dB & 99% Bandwidth Plot Antenna 0 (40MHz 802.11ax (UNII Band 8) – Ch. 227, MCS4)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 22 of 134



FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 23 of 134

7.2.2 Antenna 1 26dB & 99% Bandwidth Measurements

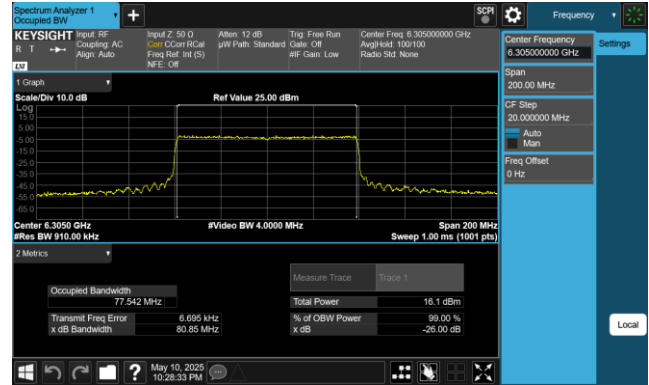
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [MHz]	Measured 99% Occupied Bandwidth	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	6115	33	a	12.00	16.55	20.59	320	Pass
	6275	65	a	24.00	16.55	20.58	320	Pass
	6415	93	a	24.00	16.61	21.29	320	Pass
	6115	33	ax (20MHz)	MCS11	19.10	22.36	320	Pass
	6275	65	ax (20MHz)	MCS11	19.13	22.40	320	Pass
	6415	93	ax (20MHz)	MCS11	19.15	22.55	320	Pass
	6125	35	ax (40MHz)	MCS11	37.92	39.94	320	Pass
	6285	67	ax (40MHz)	MCS11	37.92	39.92	320	Pass
	6405	91	ax (40MHz)	MCS4	37.63	44.69	320	Pass
	6145	39	ax (80MHz)	MCS11	77.63	80.81	320	Pass
	6305	71	ax (80MHz)	MCS11	77.54	80.85	320	Pass
	6385	87	ax (80MHz)	MCS11	77.41	80.77	320	Pass
	6185	47	ax (160MHz)	MCS11	156.82	162.34	320	Pass
Band 6	6345	79	ax (160MHz)	MCS11	156.64	162.40	320	Pass
	6435	97	a	12.00	16.53	20.62	320	Pass
	6455	105	a	54.00	16.56	20.35	320	Pass
	6515	113	a	12.00	16.54	20.63	320	Pass
	6435	97	ax (20MHz)	MCS11	19.13	22.45	320	Pass
	6455	105	ax (20MHz)	MCS11	19.12	22.68	320	Pass
	6515	113	ax (20MHz)	MCS11	19.12	22.15	320	Pass
	6445	99	ax (40MHz)	MCS11	37.89	39.82	320	Pass
	6485	107	ax (40MHz)	MCS11	37.93	39.90	320	Pass
	6465	103	ax (80MHz)	MCS11	77.55	80.88	320	Pass
Band 7	6505	111	ax (160MHz)	MCS11	156.98	162.47	320	Pass
	6535	117	a	12.00	16.56	20.50	320	Pass
	6695	149	a	12.00	16.55	20.52	320	Pass
	6855	185	a	54.00	16.55	20.53	320	Pass
	6535	117	ax (20MHz)	MCS11	19.17	22.24	320	Pass
	6695	149	ax (20MHz)	MCS11	19.15	22.77	320	Pass
	6855	185	ax (20MHz)	MCS11	19.12	22.76	320	Pass
	6565	123	ax (40MHz)	MCS11	37.90	39.93	320	Pass
	6725	155	ax (40MHz)	MCS11	37.89	39.97	320	Pass
	6845	179	ax (40MHz)	MCS11	37.91	39.93	320	Pass
	6545	119	ax (80MHz)	MCS11	77.54	80.69	320	Pass
	6705	151	ax (80MHz)	MCS11	77.52	80.87	320	Pass
	6875	183	ax (80MHz)	MCS11	77.51	80.67	320	Pass
	6665	143	ax (160MHz)	MCS11	156.59	162.28	320	Pass
Band 8	6825	175	ax (160MHz)	MCS11	156.89	162.48	320	Pass
	6895	189	a	12.00	16.53	20.84	320	Pass
	6995	209	a	12.00	16.53	20.65	320	Pass
	7115	233	a	24.00	16.57	20.80	320	Pass
	6895	189	ax (20MHz)	MCS11	19.16	22.61	320	Pass
	6995	209	ax (20MHz)	MCS11	19.13	22.66	320	Pass
	7115	233	ax (20MHz)	MCS2	19.02	22.57	320	Pass
	6885	187	ax (40MHz)	MCS11	37.95	39.90	320	Pass
	7005	211	ax (40MHz)	MCS11	37.92	39.87	320	Pass
	7085	227	ax (40MHz)	MCS11	37.95	39.87	320	Pass
	6945	199	ax (80MHz)	MCS11	77.60	80.68	320	Pass
	7025	215	ax (80MHz)	MCS4	76.97	80.72	320	Pass
	6985	207	ax (160MHz)	MCS11	156.63	162.47	320	Pass

Table 7-3. Conducted Bandwidth Measurements Antenna 1

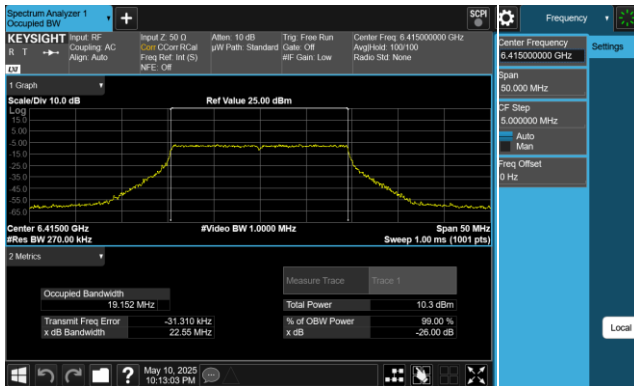
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 24 of 134



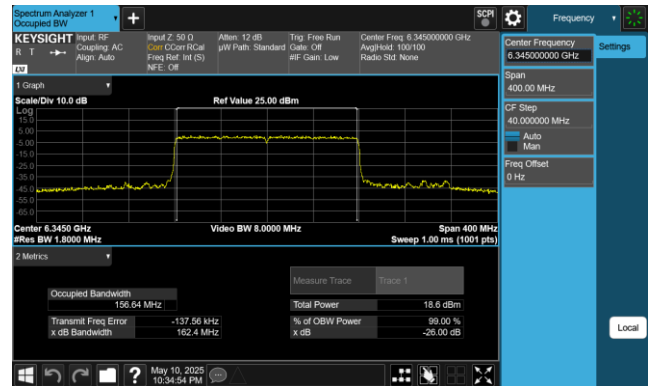
Plot 7-21. 26dB & 99% Bandwidth Plot Antenna 1 (20MHz 802.11a (UNII Band 5) – Ch. 93, 24Mbps)



Plot 7-24. 26dB & 99% Bandwidth Plot Antenna 1 (80MHz 802.11ax (UNII Band 5) – Ch. 71, MCS11)



Plot 7-22. 26dB & 99% Bandwidth Plot Antenna 1 (20MHz 802.11ax (UNII Band 5) – Ch. 93, MCS11)



Plot 7-25. 26dB & 99% Bandwidth Plot Antenna 1 (160MHz 802.11ax (UNII Band 5) – Ch. 79, MCS11)

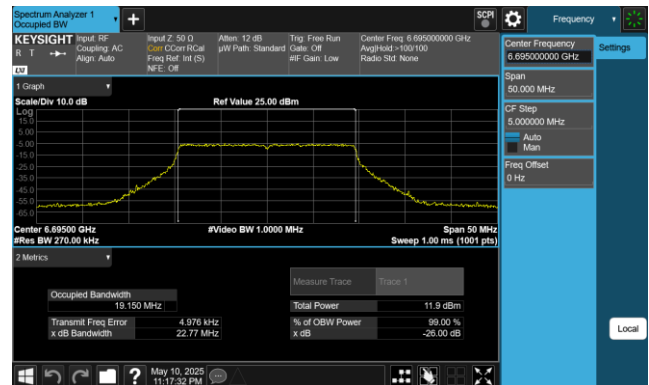
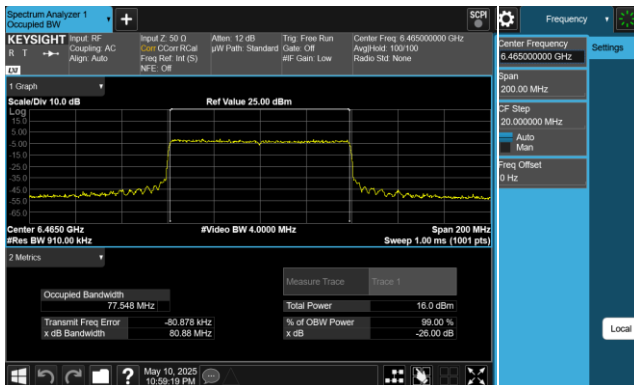
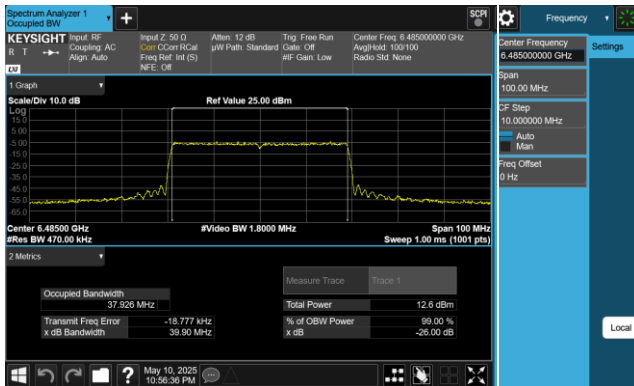
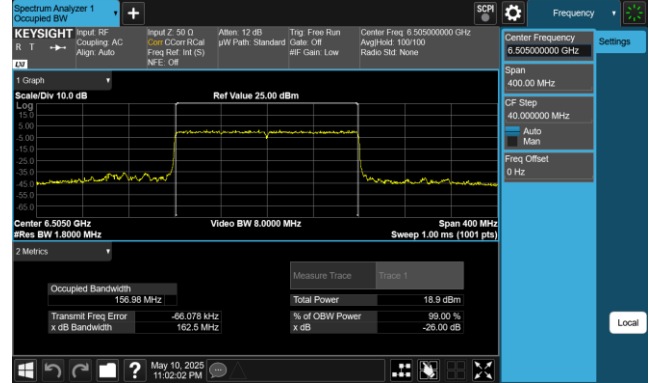


Plot 7-23. 26dB & 99% Bandwidth Plot Antenna 1 (40MHz 802.11ax (UNII Band 5) – Ch. 91, MCS11)

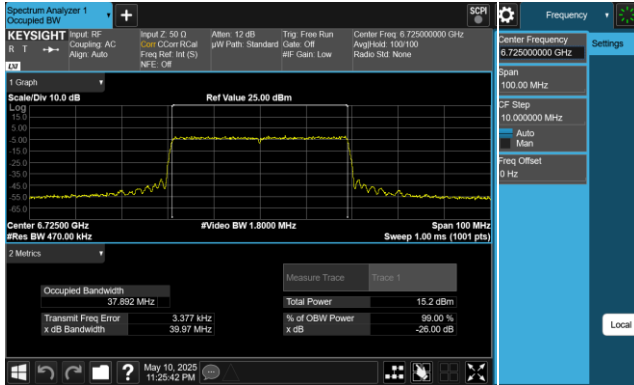


Plot 7-26. 26dB & 99% Bandwidth Plot Antenna 1 (20MHz 802.11a (UNII Band 6) – Ch. 113, 12Mbps)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 25 of 134



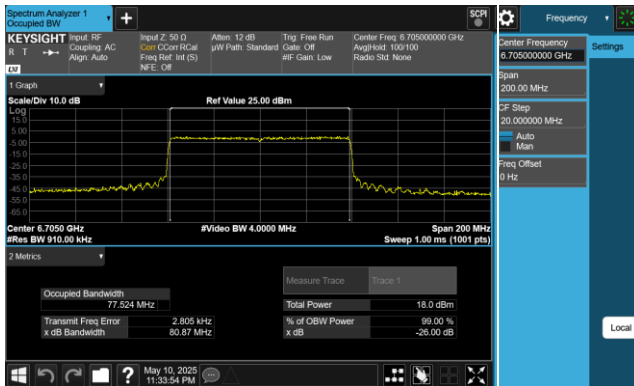
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 26 of 134



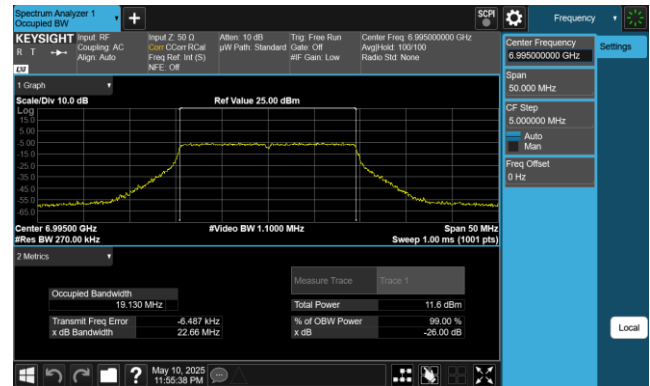
Plot 7-33. 26dB & 99% Bandwidth Plot Antenna 1 (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



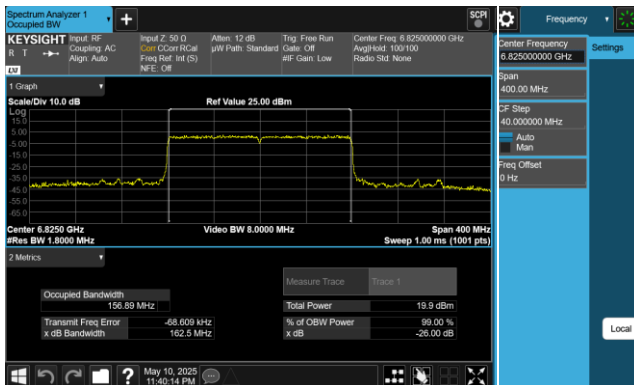
Plot 7-36. 26dB & 99% Bandwidth Plot Antenna 1 (20MHz 802.11a (UNII Band 8) – Ch. 189, 12Mbps)



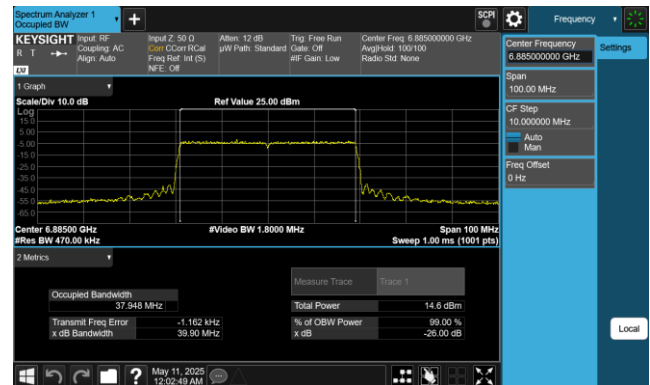
Plot 7-34. 26dB & 99% Bandwidth Plot Antenna 1 (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



Plot 7-37. 26dB & 99% Bandwidth Plot Antenna 1 (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS11)

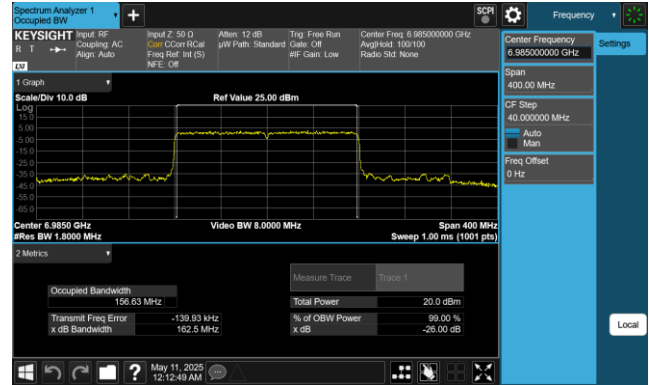


Plot 7-35. 26dB & 99% Bandwidth Plot Antenna 1 (160MHz 802.11ax (UNII Band 7) – Ch. 175, MCS2)



Plot 7-38. 26dB & 99% Bandwidth Plot Antenna 1 (40MHz 802.11ax (UNII Band 8) – Ch. 187, MCS2)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 27 of 134



FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 28 of 134

7.3 Conducted Output Power and Max EIRP Measurement

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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.4.3.2 Method PM-G

KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – 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: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 29 of 134

7.3.1 Antenna 0 Conducted Output Power Measurements

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	54Mbps	1.44	1.87	3.31	14.00	-10.69
	6275	65	24Mbps	2.19	1.87	4.06	14.00	-9.94
	6415	93	24Mbps	2.43	1.87	4.30	14.00	-9.70
	6435	97	54Mbps	1.82	1.73	3.55	14.00	-10.45
	6475	105	24Mbps	1.66	1.73	3.39	14.00	-10.61
	6515	113	24Mbps	1.96	1.73	3.69	14.00	-10.31
	6535	117	54Mbps	4.16	-1.02	3.14	14.00	-10.86
	6695	149	54Mbps	4.31	-1.02	3.29	14.00	-10.71
	6875	185	24Mbps	3.18	-1.02	2.16	14.00	-11.85
	6895	189	24Mbps	3.14	-0.26	2.88	14.00	-11.12
	6995	209	54Mbps	3.29	-0.26	3.03	14.00	-10.97
	7115	233	54Mbps	3.29	-0.26	3.03	14.00	-10.97

Table 7-4. Antenna 0 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	MCS2	1.62	1.87	3.49	14.00	-10.51
	6275	65	MCS4	2.86	1.87	4.73	14.00	-9.27
	6415	93	MCS2	2.62	1.87	4.49	14.00	-9.51
	6435	97	MCS4	2.00	1.73	3.73	14.00	-10.27
	6475	105	MCS4	2.19	1.73	3.92	14.00	-10.08
	6515	113	MCS4	2.32	1.73	4.05	14.00	-9.95
	6535	117	MCS4	4.83	-1.02	3.81	14.00	-10.19
	6695	149	MCS11	4.50	-1.02	3.48	14.00	-10.52
	6875	185	MCS4	3.38	-1.02	2.36	14.00	-11.64
	6895	189	MCS4	3.68	-0.26	3.42	14.00	-10.58
	6995	209	MCS4	3.75	-0.26	3.49	14.00	-10.51
	7115	233	MCS4	3.76	-0.26	3.50	14.00	-10.50

Table 7-5. Antenna 0 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 30 of 134

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	MCS2	4.03	1.87	5.90	14.00	-8.10
	6285	67	MCS2	5.49	1.87	7.36	14.00	-6.64
	6405	91	MCS2	5.42	1.87	7.29	14.00	-6.71
	6445	99	MCS2	4.70	1.73	6.43	14.00	-7.57
	6485	107	MCS2	4.63	1.73	6.36	14.00	-7.64
	6565	123	MCS4	7.44	-1.02	6.42	14.00	-7.59
	6725	155	MCS2	6.98	-1.02	5.96	14.00	-8.04
	6845	179	MCS2	7.00	-1.02	5.98	14.00	-8.02
	6885	187	MCS2	6.19	-0.26	5.93	14.00	-8.07
	7085	227	MCS2	5.79	-0.26	5.53	14.00	-8.47

Table 7-6. Antenna 0 40MHz 802.11ax(SU) BW (UNII) Maximum Conducted Output Power

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	MCS2	7.03	1.87	8.90	14.00	-5.10
	6305	71	MCS2	8.49	1.87	10.36	14.00	-3.64
	6385	87	MCS2	8.26	1.87	10.13	14.00	-3.87
	6465	103	MCS2	7.64	1.73	9.37	14.00	-4.63
	6545	119	MCS2	7.71	-1.02	6.69	14.00	-7.31
	6705	151	MCS2	9.82	-1.02	8.80	14.00	-5.20
	6865	183	MCS2	9.13	-1.02	8.11	14.00	-5.89
	6945	199	MCS4	9.39	-0.26	9.13	14.00	-4.87
	7025	215	MCS2	9.41	-0.26	9.15	14.00	-4.85

Table 7-7. Antenna 0 80MHz BW 802.11ax(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	MCS2	9.91	1.87	11.78	14.00	-2.22
	6345	79	MCS4	10.48	1.87	12.35	14.00	-1.65
	6505	111	MCS4	10.00	1.73	11.73	14.00	-2.27
	6665	143	MCS4	12.86	-1.02	11.84	14.00	-2.16
	6825	175	MCS2	11.86	-1.02	10.84	14.00	-3.16
	6985	207	MCS2	11.82	-0.26	11.56	14.00	-2.44

Table 7-8. Antenna 0 160MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.3.2 Antenna 1 Conducted Output Power Measurements

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	54Mbps	1.46	2.14	3.60	14.00	-10.40
	6275	65	54Mbps	2.10	2.14	4.24	14.00	-9.76
	6415	93	54Mbps	2.30	2.14	4.44	14.00	-9.56
	6435	97	12Mbps	1.83	0.74	2.57	14.00	-11.43
	6475	105	12Mbps	1.69	0.74	2.43	14.00	-11.57
	6515	113	54Mbps	1.89	0.74	2.63	14.00	-11.37
	6535	117	54Mbps	4.17	-0.88	3.29	14.00	-10.71
	6695	149	24Mbps	4.18	-0.88	3.30	14.00	-10.71
	6875	185	54Mbps	3.34	-0.88	2.46	14.00	-11.54
	6895	189	12Mbps	3.41	0.18	3.59	14.00	-10.41
	6995	209	12Mbps	3.47	0.18	3.65	14.00	-10.35
	7115	233	12Mbps	3.14	0.18	3.32	14.00	-10.68

Table 7-9. Antenna 1 20MHz BW 802.11a (UNII) VLP 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	MCS2	1.79	2.14	3.93	14.00	-10.07
	6275	65	MCS4	2.93	2.14	5.07	14.00	-8.93
	6415	93	MCS2	2.55	2.14	4.69	14.00	-9.31
	6435	97	MCS4	2.00	0.74	2.74	14.00	-11.26
	6475	105	MCS4	2.19	0.74	2.93	14.00	-11.07
	6515	113	MCS4	2.30	0.74	3.04	14.00	-10.96
	6535	117	MCS11	4.81	-0.88	3.93	14.00	-10.07
	6695	149	MCS4	4.85	-0.88	3.97	14.00	-10.03
	6875	185	MCS4	3.53	-0.88	2.65	14.00	-11.35
	6895	189	MCS4	3.71	0.18	3.89	14.00	-10.11
	6995	209	MCS4	3.80	0.18	3.98	14.00	-10.02
	7115	233	MCS4	3.88	0.18	4.06	14.00	-9.94

Table 7-10. Antenna 1 20MHz BW 802.11ax(SU) (UNII) VLP Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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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	MCS4	4.03	2.14	6.17	14.00	-7.83
	6285	67	MCS4	5.12	2.14	7.26	14.00	-6.74
	6405	91	MCS2	5.28	2.14	7.42	14.00	-6.58
	6445	99	MCS2	4.93	0.74	5.67	14.00	-8.33
	6485	107	MCS2	4.96	0.74	5.70	14.00	-8.30
	6565	123	MCS4	7.34	-0.88	6.46	14.00	-7.54
	6725	155	MCS4	7.14	-0.88	6.26	14.00	-7.74
	6845	179	MCS2	7.41	-0.88	6.53	14.00	-7.47
	6885	187	MCS2	6.19	0.18	6.37	14.00	-7.63
	7085	227	MCS2	6.20	0.18	6.38	14.00	-7.62

Table 7-11. Antenna 1 40MHz 802.11ax(SU) BW (UNII) VLP Maximum Conducted Output Power

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	MCS2	7.27	2.14	9.41	14.00	-4.59
	6305	71	MCS4	8.18	2.14	10.32	14.00	-3.68
	6385	87	MCS4	8.10	2.14	10.24	14.00	-3.76
	6465	103	MCS2	7.77	0.74	8.51	14.00	-5.49
	6545	119	MCS4	7.66	-0.88	6.78	14.00	-7.22
	6705	151	MCS4	10.48	-0.88	9.60	14.00	-4.40
	6865	183	MCS2	9.47	-0.88	8.59	14.00	-5.41
	6945	199	MCS2	9.31	0.18	9.49	14.00	-4.51
	7025	215	MCS4	9.26	0.18	9.44	14.00	-4.56

Table 7-12. Antenna 1 80MHz BW 802.11ax(SU) (UNII) VLP 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	MCS4	9.89	2.14	12.03	14.00	-1.97
	6345	79	MCS4	10.69	2.14	12.83	14.00	-1.17
	6505	111	MCS2	10.11	0.74	10.85	14.00	-3.15
	6665	143	MCS4	12.65	-0.88	11.77	14.00	-2.23
	6825	175	MCS4	11.80	-0.88	10.92	14.00	-3.08
	6985	207	MCS4	11.90	0.18	12.08	14.00	-1.92

Table 7-13. Antenna 1 160MHz BW 802.11ax(SU) (UNII) VLP Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.3.3 SDM Conducted Output Power Measurements

6GHz (20MHz 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 0	Antenna 1	Summed				
	6115	33	SDM	MCS2	-1.26	-1.50	1.63	2.01	3.64	14.00	-10.36
	6275	65	SDM	MCS4	-0.31	-0.43	2.64	2.01	4.65	14.00	-9.35
	6415	93	SDM	MCS2	-0.23	-0.17	2.81	2.01	4.82	14.00	-9.18
	6435	97	SDM	MCS2	-0.37	-0.80	2.43	1.26	3.69	14.00	-10.31
	6475	105	SDM	MCS2	-0.14	-0.69	2.60	1.26	3.86	14.00	-10.14
	6515	113	SDM	MCS2	-0.48	-0.67	2.44	1.26	3.70	14.00	-10.30
	6535	117	SDM	MCS2	1.93	1.19	4.59	-0.95	3.64	14.00	-10.36
	6695	149	SDM	MCS2	1.61	1.68	4.65	-0.95	3.70	14.00	-10.30
	6875	185	SDM	MCS2	1.44	0.62	4.06	-0.95	3.11	14.00	-10.89
	6895	189	SDM	MCS2	1.36	1.44	4.41	-0.03	4.38	14.00	-9.62
	6995	209	SDM	MCS2	1.38	1.25	4.33	-0.03	4.30	14.00	-9.70
	7115	233	SDM	MCS2	1.21	1.32	4.28	-0.03	4.25	14.00	-9.75

Table 7-14. SDM 20MHz BW 802.11ax(SU) (UNII) VLP 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 0	Antenna 1	Summed				
	6125	35	SDM	MCS4	1.29	1.34	4.32	2.01	6.33	14.00	-7.67
	6285	67	SDM	MCS4	2.42	2.46	5.45	2.01	7.46	14.00	-6.54
	6405	91	SDM	MCS2	2.19	2.14	5.17	2.01	7.18	14.00	-6.82
	6445	99	SDM	MCS2	2.09	1.91	5.01	1.26	6.27	14.00	-7.73
	6485	107	SDM	MCS2	2.28	1.87	5.09	1.26	6.35	14.00	-7.65
	6565	123	SDM	MCS2	4.32	3.54	6.95	-0.95	6.00	14.00	-8.00
	6725	155	SDM	MCS2	4.10	3.88	7.00	-0.95	6.05	14.00	-7.95
	6845	179	SDM	MCS2	3.77	4.49	7.16	-0.95	6.21	14.00	-7.79
	6885	187	SDM	MCS2	3.61	3.65	6.64	-0.03	6.61	14.00	-7.39
	7085	227	SDM	MCS2	3.68	3.58	6.64	-0.03	6.61	14.00	-7.39

Table 7-15. SDM 40MHz BW 802.11ax(SU) (UNII) VLP 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 0	Antenna 1	Summed				
	6145	39	SDM	MCS4	4.35	3.94	7.16	2.01	9.17	14.00	-4.83
	6305	71	SDM	MCS4	4.81	5.08	7.96	2.01	9.97	14.00	-4.03
	6385	87	SDM	MCS2	4.59	5.42	8.04	2.01	10.05	14.00	-3.95
	6465	103	SDM	MCS2	5.47	5.03	8.27	1.26	9.53	14.00	-4.47
	6545	119	SDM	MCS2	5.12	5.19	8.17	-0.95	7.22	14.00	-6.78
	6705	151	SDM	MCS2	7.27	6.68	10.00	-0.95	9.05	14.00	-4.95
	6865	183	SDM	MCS2	6.60	6.65	9.64	-0.95	8.69	14.00	-5.32
	6945	199	SDM	MCS2	6.58	6.56	9.58	-0.03	9.55	14.00	-4.45
	7025	215	SDM	MCS2	6.61	6.78	9.71	-0.03	9.68	14.00	-4.32

Table 7-16. SDM 80MHz BW 802.11ax(SU) (UNII) VLP Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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6GHz (160MHz Bandwidth)	Frequency [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 0	Antenna 1	Summed				
	6185	47	SDM	AVG	6.98	6.38	9.70	2.01	11.71	14.00	-2.29
	6345	79	SDM	AVG	7.72	7.63	10.68	2.01	12.69	14.00	-1.31
	6505	111	SDM	AVG	7.46	7.98	10.74	1.26	12.00	14.00	-2.00
	6665	143	SDM	AVG	9.67	9.58	12.63	-0.95	11.68	14.00	-2.32
	6825	175	SDM	AVG	9.32	9.00	12.18	-0.95	11.23	14.00	-2.77
	6985	207	SDM	AVG	9.18	8.98	12.09	-0.03	12.06	14.00	-1.94

Table 7-17. SDM 160MHz BW 802.11ax(SU) (UNII) VLP Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Note:

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna 0 and Antenna 1 were first measured separately during SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.6.3, the 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.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Sample SDM Calculation:

At 6115MHz in 802.11ax (20MHz BW, SDM), the average conducted output power was measured to be -1.26 dBm for Antenna 0 and -1.50 dBm for Antenna 1.

Antenna 0 + Antenna 1 = SDM

$$(-1.26 \text{ dBm} + -1.50 \text{ dBm}) = (0.748 \text{ mW} + 0.708 \text{ mW}) = 1.46 \text{ mW} = 1.63 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 6115MHz in 802.11ax (20MHz BW, SDM), the average conducted output power was calculated to be 1.63 dBm with directional gain of 2.01 dBi.

$$\begin{aligned} \text{e.i.r.p. (dBm)} &= \text{Conducted Power (dBm)} + \text{Ant gain (dBi)} \\ 1.63 \text{ dBm} + 2.01 \text{ dBi} &= 3.64 \text{ dBm} \end{aligned}$$

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7.4 Maximum Power Spectral Density

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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.925 – 7.125GHz band, the maximum permissible power spectral density must not exceed -5dBm e.i.r.p in any 1-megahertz band for Very Low Power operating modes.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.4.2.2

KDB 789033 D02 v02r01 – Section F

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 14.5.2.2 Measure-and-Sum Technique

KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

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

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. All data rates 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.

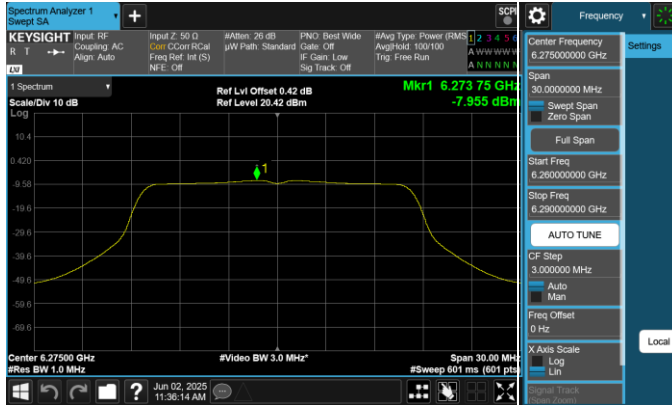
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.4.1 Antenna 0 Power Spectral Density Measurements

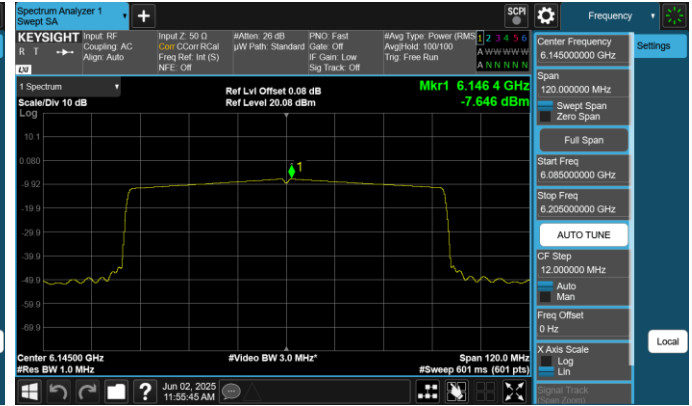
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [MHz]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	6115	33	a	54Mbps	-9.52	1.87	-7.65	-5	-2.65
	6275	65	a	24Mbps	-7.96	1.87	-6.09	-5	-1.09
	6415	93	a	24Mbps	-8.38	1.87	-6.51	-5	-1.51
	6115	33	ax (20MHz)	MCS2	-10.06	1.87	-8.19	-5	-3.19
	6275	65	ax (20MHz)	MCS4	-8.48	1.87	-6.61	-5	-1.61
	6415	93	ax (20MHz)	MCS2	-8.95	1.87	-7.08	-5	-2.08
	6125	35	ax (40MHz)	MCS2	-9.36	1.87	-7.49	-5	-2.49
	6285	67	ax (40MHz)	MCS2	-8.27	1.87	-6.40	-5	-1.40
	6405	91	ax (40MHz)	MCS2	-8.34	1.87	-6.47	-5	-1.47
	6145	39	ax (80MHz)	MCS2	-7.65	1.87	-5.78	-5	-0.78
Band 6	6305	71	ax (80MHz)	MCS2	-8.47	1.87	-6.60	-5	-1.60
	6435	97	a	54Mbps	-8.94	1.73	-7.21	-5	-2.21
	6475	105	a	24Mbps	-9.24	1.73	-7.51	-5	-2.51
	6515	113	a	24Mbps	-8.76	1.73	-7.03	-5	-2.03
	6435	97	ax (20MHz)	MCS4	-9.48	1.73	-7.75	-5	-2.75
	6475	105	ax (20MHz)	MCS4	-9.37	1.73	-7.64	-5	-2.64
	6515	113	ax (20MHz)	MCS4	-9.32	1.73	-7.59	-5	-2.59
	6445	99	ax (40MHz)	MCS2	-8.87	1.73	-7.14	-5	-2.14
	6485	107	ax (40MHz)	MCS2	-9.12	1.73	-7.39	-5	-2.39
	6465	103	ax (80MHz)	MCS2	-9.09	1.73	-7.36	-5	-2.36
Band 7	6505	111	ax (160MHz)	MCS4	-9.50	1.73	-7.77	-5	-2.77
	6535	117	a	54Mbps	-6.73	-1.02	-7.75	-5	-2.75
	6695	149	a	54Mbps	-6.61	-1.02	-7.63	-5	-2.63
	6875	185	a	24Mbps	-7.74	-1.02	-8.76	-5	-3.76
	6535	117	ax (20MHz)	MCS4	-6.82	-1.02	-7.84	-5	-2.84
	6695	149	ax (20MHz)	MCS11	-7.54	-1.02	-8.56	-5	-3.56
	6875	185	ax (20MHz)	MCS4	-8.29	-1.02	-9.31	-5	-4.31
	6565	123	ax (40MHz)	MCS4	-6.39	-1.02	-7.41	-5	-2.41
	6725	155	ax (40MHz)	MCS2	-6.92	-1.02	-7.94	-5	-2.94
	6845	179	ax (40MHz)	MCS2	-6.82	-1.02	-7.84	-5	-2.84
Band 8	6545	119	ax (80MHz)	MCS2	-9.21	-1.02	-10.23	-5	-5.23
	6705	151	ax (80MHz)	MCS2	-5.75	-1.02	-6.77	-5	-1.77
	6865	183	ax (80MHz)	MCS2	-7.68	-1.02	-8.70	-5	-3.70
	6665	143	ax (160MHz)	MCS4	-6.52	-1.02	-7.54	-5	-2.54
	6825	175	ax (160MHz)	MCS2	-7.59	-1.02	-8.61	-5	-3.61
	6895	189	a	24Mbps	-7.77	-0.26	-8.03	-5	-3.03
	6995	209	a	54Mbps	-7.59	-0.26	-7.85	-5	-2.85
	7115	233	a	54Mbps	-7.49	-0.26	-7.75	-5	-2.75
	6895	189	ax (20MHz)	MCS4	-8.35	-0.26	-8.61	-5	-3.61
	6995	209	ax (20MHz)	MCS4	-8.17	-0.26	-8.43	-5	-3.43
Band 8	7115	233	ax (20MHz)	MCS4	-8.09	-0.26	-8.35	-5	-3.35
	6885	187	ax (40MHz)	MCS2	-7.56	-0.26	-7.82	-5	-2.82
	7005	211	ax (40MHz)	MCS2	-7.63	-0.26	-7.89	-5	-2.89
	7085	227	ax (40MHz)	MCS2	-7.93	-0.26	-8.19	-5	-3.19
	6945	199	ax (80MHz)	MCS4	-8.17	-0.26	-8.43	-5	-3.43
	7025	215	ax (80MHz)	MCS2	-8.24	-0.26	-8.50	-5	-3.50
	6985	207	ax (160MHz)	MCS2	-7.66	-0.26	-7.92	-5	-2.92

Table 7-18. Power Spectral Density Measurements Antenna 0

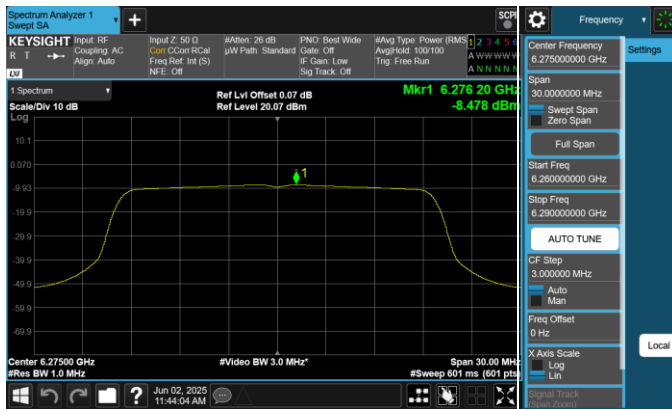
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 38 of 134



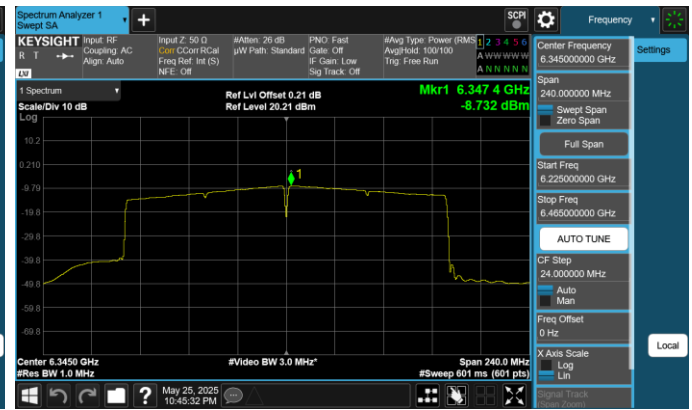
Plot 7-41. Power Spectral Density Plot Antenna 0 (20MHz 802.11a (UNII Band 5) – Ch. 65, 24Mbps)



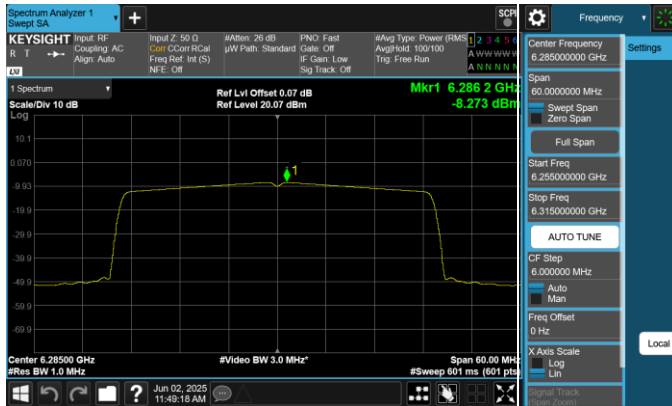
Plot 7-44. Power Spectral Density Plot Antenna 0 (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS2)



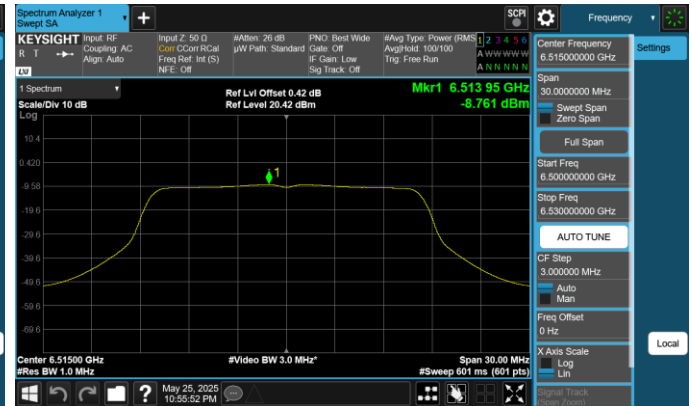
Plot 7-42. Power Spectral Density Plot Antenna 0 (20MHz 802.11ax (UNII Band 5) – Ch. 65, MCS4)



Plot 7-45. Power Spectral Density Plot Antenna 0 (160MHz 802.11ax (UNII Band 5) – Ch. 79, MCS4)

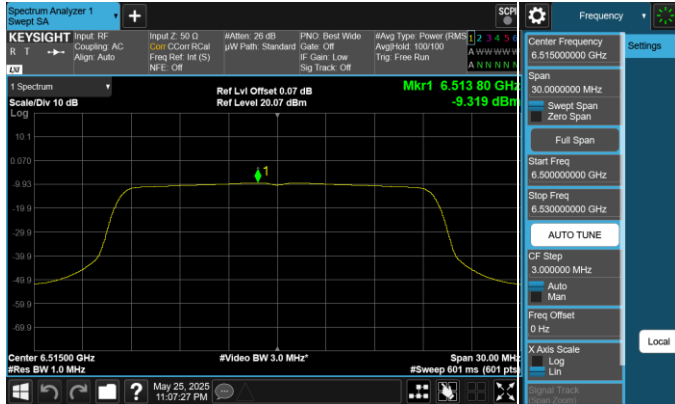


Plot 7-43. Power Spectral Density Plot Antenna 0 (40MHz 802.11ax (UNII Band 5) – Ch. 67, MCS2)

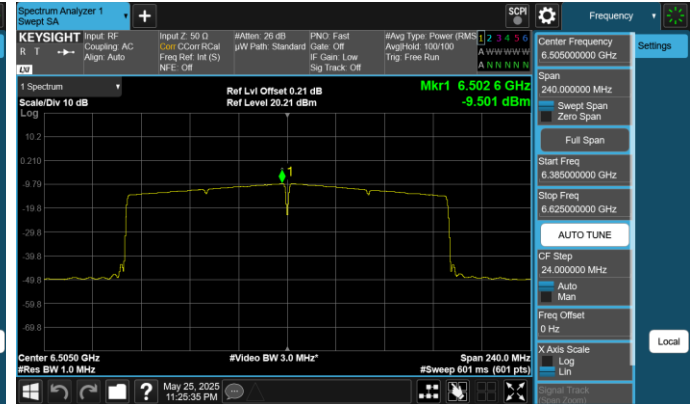


Plot 7-46. Power Spectral Density Plot Antenna 0 (20MHz 802.11a (UNII Band 6) – Ch. 113, 24Mbps)

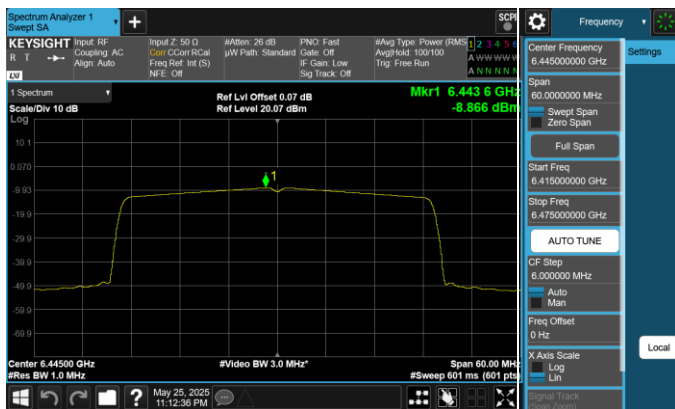
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 39 of 134



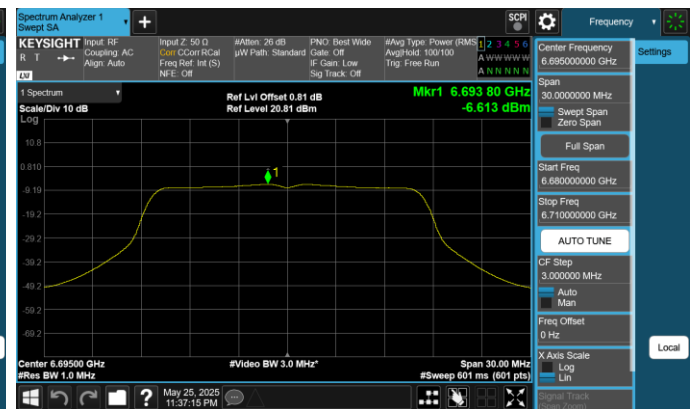
Plot 7-47. Power Spectral Density Plot Antenna 0 (20MHz 802.11ax (UNII Band 6) – Ch. 113, MCS4)



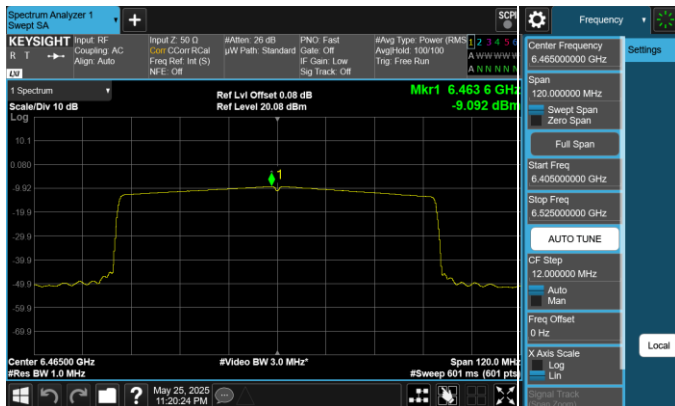
Plot 7-50. Power Spectral Density Plot Antenna 0 (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS4)



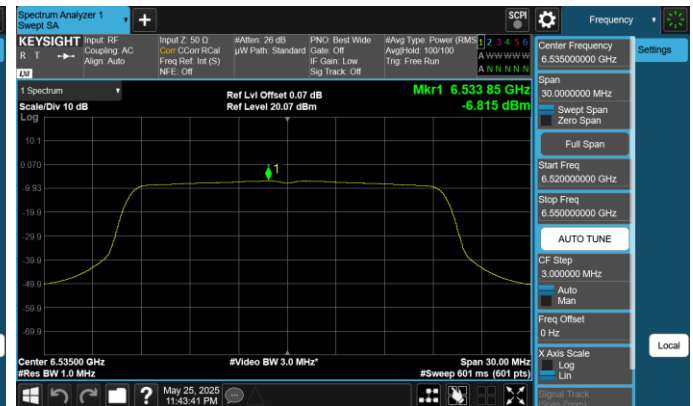
Plot 7-48. Power Spectral Density Plot Antenna 0 (40MHz 802.11ax (UNII Band 6) – Ch. 99, MCS2)



Plot 7-51. Power Spectral Density Plot Antenna 0 (20MHz 802.11ax (UNII Band 7) – Ch. 149, 54Mbps)



Plot 7-49. Power Spectral Density Plot Antenna 0 (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS2)



Plot 7-52. Power Spectral Density Plot Antenna 0 (20MHz 802.11ax (UNII Band 7) – Ch. 117, MCS4)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 03/24/2025 - 06/14/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-11-R3.BCG	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 40 of 134