

MEASUREMENT REPORT

FCC PART 15.407 / ISED RSS-247 UNII 802.11a/n/ac/ax(SU)

Applicant Name:

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

Date of Testing:

3/24/2025 - 7/4/2025

Test Report Issue Date:

10/2/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2503170028-06-R2.BCG

FCC ID:

BCGA3300

IC:

579C-A3300

APPLICANT:

Apple Inc.

Application Type:

Certification

Model/HVIN:

A3300

EUT Type:

Smart Speaker with Display

Frequency Range:

5180 – 5825MHz

Modulation Type:

OFDM

FCC Classification:

Unlicensed National Information Infrastructure (UNII)

FCC Rule Part(s):

Part 15 Subpart E (15.407)

ISED Specification:

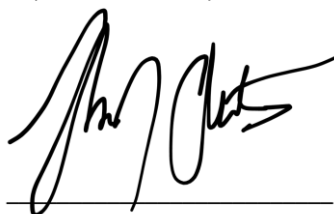
RSS-247 Issue 4

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

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: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 1 of 178

V 12.0 03/03/2026

Revision Summary

Revision	Date	Comments	Revised By
-	10/23/2025	Released to client & TCB	WKR016696
R1	12/19/2025	Addressed TCB Comments in section 2.2, 2.5, 2.6, and 7.1 to 7.4	WKR016696
R2	9/21/2026	Addressed TCB Comments in section 2.2, 2.3, and 7.1 to 7.6	WKR016622

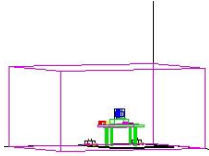
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V 12.0 03/03/2026

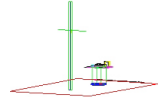
T A B L E O F C O N T E N T S

1.0	INTRODUCTION	5
1.1	Scope.....	5
1.2	Element Materials Technology Test Location	5
1.3	Test Facility / Accreditations.....	5
2.0	PRODUCT INFORMATION	6
2.1	Equipment Description	6
2.2	Device Capabilities.....	6
2.3	Antenna Description.....	11
2.4	Test Support Equipment.....	11
2.5	Test Configuration.....	12
2.6	Software and Firmware	12
2.7	EMI Suppression Device(s)/Modifications.....	12
3.0	DESCRIPTION OF TESTS	13
3.1	Evaluation Procedure.....	13
3.2	AC Line Conducted Emissions	13
3.3	Radiated Emissions.....	14
3.4	Environmental Conditions.....	14
4.0	ANTENNA REQUIREMENTS	15
5.0	MEASUREMENT UNCERTAINTY	16
6.0	TEST EQUIPMENT CALIBRATION DATA.....	17
7.0	TEST RESULTS	18
7.1	Summary.....	18
7.2	26dB & 99% Bandwidth Measurement	19
7.3	6dB Bandwidth Measurement	32
7.4	Conducted Output Power and Max EIRP Measurement.....	39
7.5	Maximum Power Spectral Density	58
7.6	Radiated Spurious Emissions – Above 1GHz.....	92
7.7	Radiated Spurious Emissions – Below 1GHz.....	166
7.8	AC Line-Conducted Emissions Measurement.....	172
8.0	CONCLUSION.....	178

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 3 of 178



MEASUREMENT REPORT



UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO				MIMO	
				Antenna 0		Antenna 1		Summed	
				Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	802.11a/n	5180 - 5240	78.343	18.94	77.090	18.87	108.143	20.34
2A		802.11a/n	5260 - 5320	87.096	19.40	86.696	19.38	108.643	20.36
2C		802.11a/n	5500 - 5720	88.512	19.47	86.298	19.36	109.144	20.38
3		802.11a/n	5745 - 5825	87.902	19.44	88.716	19.48	139.959	21.46
1	40	802.11n	5190 - 5230	57.677	17.61	62.951	17.99	114.815	20.60
2A		802.11n	5270 - 5310	67.143	18.27	68.707	18.37	133.045	21.24
2C		802.11n	5510 - 5710	69.343	18.41	65.163	18.14	135.519	21.32
3		802.11n	5755 - 5795	67.920	18.32	67.453	18.29	136.144	21.34
1	80	802.11ac	5210	17.258	12.37	16.827	12.26	29.785	14.74
2A		802.11ac	5290	17.258	12.37	17.140	12.34	29.376	14.68
2C		802.11ac	5530 - 5690	70.307	18.47	63.826	18.05	135.519	21.32
3		802.11ac	5775	46.132	16.64	45.709	16.60	85.114	19.30
1	20	802.11ax (SU)	5180 - 5240	62.373	17.95	61.944	17.92	125.314	20.98
2A		802.11ax (SU)	5260 - 5320	70.469	18.48	70.632	18.49	125.603	20.99
2C		802.11ax (SU)	5500 - 5720	70.469	18.48	69.984	18.45	121.339	20.84
3		802.11ax (SU)	5745 - 5825	70.307	18.47	70.632	18.49	136.773	21.36
1	40	802.11ax (SU)	5190 - 5230	61.094	17.86	60.814	17.84	122.180	20.87
2A		802.11ax (SU)	5270 - 5310	69.984	18.45	69.663	18.43	124.165	20.94
2C		802.11ax (SU)	5510 - 5710	68.077	18.33	69.343	18.41	137.404	21.38
3		802.11ax (SU)	5755 - 5795	65.464	18.16	66.834	18.25	136.458	21.35
1	80	802.11ax (SU)	5210	15.488	11.90	15.560	11.92	26.607	14.25
2A		802.11ax (SU)	5290	12.560	10.99	13.335	11.25	22.439	13.51
2C		802.11ax (SU)	5530 - 5690	69.663	18.43	68.391	18.35	135.207	21.31
3		802.11ax (SU)	5775	37.584	15.75	37.325	15.72	68.549	18.36
1/2A	160	802.11ac	5250	16.943	12.29	17.298	12.38	29.580	14.71
2C		802.11ac	5570	11.641	10.66	12.078	10.82	19.770	12.96
1/2A	160	802.11ax (SU)	5250	14.588	11.64	15.776	11.98	27.925	14.46
2C		802.11ax (SU)	5570	12.274	10.89	12.589	11.00	21.184	13.26

FCC EUT Overview

UNII Band	Channel Bandwidth (MHz)	Mode	Tx Frequency (MHz)	SISO				MIMO	
				Antenna 0		Antenna 1		Summed	
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1	20	802.11a/n	5180 - 5240	78.343	18.94	77.090	18.87	62.661	17.97
2A		802.11a/n	5260 - 5320	87.096	19.40	86.696	19.38	108.643	20.36
2C		802.11a/n	5500 - 5720	88.512	19.47	86.298	19.36	109.144	20.38
3		802.11a/n	5745 - 5825	87.902	19.44	88.716	19.48	139.959	21.46
1	40	802.11n	5190 - 5230	57.677	17.61	62.951	17.99	109.396	20.39
2A		802.11n	5270 - 5310	67.143	18.27	68.707	18.37	133.045	21.24
2C		802.11n	5510 - 5710	69.343	18.41	65.163	18.14	135.519	21.32
3		802.11n	5755 - 5795	67.920	18.32	67.453	18.29	136.144	21.34
1	80	802.11ac	5210	17.258	12.37	16.827	12.26	29.580	14.71
2A		802.11ac	5290	17.258	12.37	17.140	12.34	29.376	14.68
2C		802.11ac	5530 - 5690	70.307	18.47	63.826	18.05	135.519	21.32
3		802.11ac	5775	46.132	16.64	45.709	16.60	85.114	19.30
1	20	802.11ax (SU)	5180 - 5240	62.373	17.95	61.944	17.92	69.183	18.40
2A		802.11ax (SU)	5260 - 5320	70.469	18.48	70.632	18.49	125.603	20.99
2C		802.11ax (SU)	5500 - 5720	70.469	18.48	69.984	18.45	121.339	20.84
3		802.11ax (SU)	5745 - 5825	70.307	18.47	70.632	18.49	136.773	21.36
1	40	802.11ax (SU)	5190 - 5230	61.094	17.86	60.814	17.84	111.429	20.47
2A		802.11ax (SU)	5270 - 5310	69.984	18.45	69.663	18.43	124.165	20.94
2C		802.11ax (SU)	5510 - 5710	68.077	18.33	69.343	18.41	137.404	21.38
3		802.11ax (SU)	5755 - 5795	65.464	18.16	66.834	18.25	136.458	21.35
1	80	802.11ax (SU)	5210	15.488	11.90	15.560	11.92	27.606	14.41
2A		802.11ax (SU)	5290	12.560	10.99	13.335	11.25	22.439	13.51
2C		802.11ax (SU)	5530 - 5690	69.663	18.43	68.391	18.35	135.207	21.31
3		802.11ax (SU)	5775	37.584	15.75	37.325	15.72	68.549	18.36
1/2A	160	802.11ac	5250	16.943	12.29	17.298	12.38	29.580	14.71
2C		802.11ac	5570	11.641	10.66	12.078	10.82	19.770	12.96
1/2A	160	802.11ax (SU)	5250	14.588	11.64	15.776	11.98	27.040	14.32
2C		802.11ax (SU)	5570	12.274	10.89	12.589	11.00	21.184	13.26

ISED EUT Overview

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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 ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED 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 802.11a/n/ac/ax(SU) transmitter.

Test Device Serial No.: HP34WHV7XM, FQYJTXNHYW, YGYYD3JMXM, FPQR7MJ2N1, F0THEP000410000NGQ, 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)

Channel puncturing function is not supported for this device.

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Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745
:	:	:	:	:	:	:	:
42	5210	56	5280	116	5580	157	5785
:	:	:	:	:	:	:	:
48	5240	64	5320	144	5720	165	5825

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

Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755
:	:	:	:	:	:	:	:
46	5230	62	5310	110	5550	159	5795
				:	:		
				142	5710		

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

Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775
				:	:		
				138	5690		

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

Band 1		Band 2A		Band 2C	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
50	5250	50	5250	114	5570

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

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Notes:

- 5GHz NII operation is possible in 20MHz, and 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 1		CDD/SDM	
		Duty Cycle [%]	DCCF [dBm]	Duty Cycle [%]	DCCF [dBm]	Duty Cycle [%]	DCCF [dBm]
5GHz	a (Low Data Rate)	94.87	0.23	94.92	0.23	N/A	N/A
	a (Mid Data Rate)	90.80	0.42	90.77	0.42	N/A	N/A
	a (High Data Rate)	83.16	0.80	83.42	0.79	N/A	N/A
	n (HT20) (Low Data Rate)	98.22	0.08	98.63	0.06	98.83	0.05
	n (HT20) (Mid Data Rate)	97.97	0.09	98.22	0.08	97.32	0.12
	n (HT20) (High Data Rate)	98.97	0.05	98.81	0.05	96.69	0.15
	ax(SU) (HE20) (Low Data Rate)	98.65	0.06	98.65	0.06	98.22	0.08
	ax(SU) (HE20) (Mid Data Rate)	98.79	0.05	98.22	0.08	98.45	0.07
	ax(SU) (HE20) (High Data Rate)	98.33	0.07	98.42	0.07	98.42	0.07
	n (HT40) (Low Data Rate)	98.15	0.08	100.00	0.00	97.39	0.12
	n (HT40) (Mid Data Rate)	98.83	0.05	98.65	0.06	95.76	0.19
	n (HT40) (High Data Rate)	98.40	0.07	98.40	0.07	93.56	0.29
	ax(SU) (HE40) (Low Data Rate)	98.65	0.06	98.22	0.08	98.79	0.05
	ax(SU) (HE40) (Mid Data Rate)	98.54	0.06	98.04	0.09	98.86	0.05
	ax(SU) (HE40) (High Data Rate)	96.63	0.15	96.43	0.16	96.43	0.16
	ac (VHT80) (Low Data Rate)	98.74	0.06	98.72	0.06	98.54	0.06
	ac (VHT80) (Mid Data Rate)	97.97	0.09	97.97	0.09	97.86	0.09
	ac (VHT80) (High Data Rate)	95.92	0.18	95.92	0.18	95.54	0.20
	ax(SU) (HE80) (Low Data Rate)	98.27	0.08	98.63	0.06	98.47	0.07
	ax(SU) (HE80) (Mid Data Rate)	97.52	0.11	97.32	0.12	97.57	0.11
	ax(SU) (HE80) (High Data Rate)	94.19	0.26	94.12	0.26	94.21	0.26
	ac (VHT160) (Low Data Rate)	97.86	0.09	97.59	0.11	97.95	0.09
	ac (VHT160) (Mid Data Rate)	96.12	0.17	96.43	0.16	95.94	0.18
	ac (VHT160) (High Data Rate)	92.43	0.34	92.77	0.33	92.43	0.34
	ax(SU) (HE160) (Low Data Rate)	97.72	0.10	97.52	0.11	97.41	0.11
	ax(SU) (HE160) (Mid Data Rate)	95.76	0.19	95.79	0.19	95.50	0.20
	ax(SU) (HE160) (High Data Rate)	90.18	0.45	90.03	0.46	89.95	0.46

Table 2-4. Measured Duty Cycles

CDD/SDM = Antenna 0 + Antenna 1

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

WiFi Configurations		SISO		CDD		SDM		STBC	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
5GHz	11a	✓	✓	✗	✗	✗	✗	✗	✗
	11n (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11n (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ac (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ac (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓
	11ax(SU) (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓

Table 2-5. 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

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

802.11a 20MHz	MCS Index			Spatial Stream	OFDM (802.11n/ac)				OFDM (802.11ac)				OFDM (802.11ax)												
					20MHz		40MHz		80MHz		160MHz		20MHz			40MHz			80MHz			160MHz			
	HT	VHT	HE		0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	0.4µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	
6	0	0	0	1	6.5	7.2	13.5	15	29.3	32.5	58.5	65	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	1	1	13	14.4	27	30	58.5	65	117	130	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	2	1	19.5	21.7	40.5	45	87.8	97.5	175.5	195	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	3	3	1	26	28.9	54	60	117	130	234	260	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	4	4	1	39	43.3	81	90	175.5	195	351	390	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	5	1	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	
48	6	6	6	1	58.5	65	121.5	135	263.3	292.5	526.5	585	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	7	7	1	65	72.2	135	150	292.5	325	585	650	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	-	-	162	180	351	390	702	780	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	-	-	180	200	390	433.3	780	866.7	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	
-	8	0	0	2	13	14.4	27	30	58.5	65	117	130	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5	Low rate
-	9	1	1	2	26	28.9	54	60	117	130	234	260	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245	
-	10	2	2	2	39	43.3	81	90	175.5	195	351	390	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5	
-	11	3	3	2	52	57.8	108	120	234	260	468	520	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490	Mid rate
-	12	4	4	2	78	86.7	162	180	351	390	702	780	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735	
-	13	5	5	2	104	115.6	216	240	468	520	936	1040	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980	
-	14	6	6	2	117	130	243	270	526.5	585	1053	1170	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5	High Rate
-	15	7	7	2	130	144.4	270	300	585	650	1170	1300	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	156	173.3	324	360	702	780	1404	1560	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470	
-	-	9	9	2	-	-	360	400	780	866.7	1560	1733.3	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 2-6. Supported Data Rates

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 9 of 178

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	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 2-7. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 2 and reported in RF 802.15.4 and RF UNII test reports.

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 10 of 178

2.3 Antenna Description

Following antennas gains provided by manufacturer were used for testing. The validity of the calculated results is based on the accuracy of the information provided.

Frequency [GHz]	Antenna Gain (dBi)	
	Antenna 0	Antenna 1
5.150 – 5.250	1.10	0.90
5.250 – 5.350	1.35	1.27
5.470 – 5.725	2.50	2.01
5.725 – 5.850	2.76	3.03

Table 2-8. Highest Antenna Gain

2.4 Test Support Equipment

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

Table 2-9. Test Support Equipment List

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 11 of 178

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 and KDB 789033 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 3.2 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.

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 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, following configuration were investigated and EUT powered by AC/DC was the worst case.

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

802.11n HT20/40, 11ax(SU) HE20/40/80/160 and 11ac VHT80/160 2TX CDD/SDM mode test data provided in this report covers 802.11n HT20/40, 11ax(SU) HE20/40/80/160 and 802.11ac VHT80/160 2TX STBC mode

802.11ac VHT20 and VHT40 mode are different from 802.11n HT20 and HT40 only in control messages and have the same power settings.

The data rates have been categorized into three groups: low, middle, and high data rates (see Table 2-6). All three groups have been investigated, and only the worst-case data rate has been reported.

For 802.11ax (OFDMA) test result, see separate UNII 802.11ax (OFDMA) report, 1C2503170028-07-R1.BCG.

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.

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 12 of 178

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 7.8. 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: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 13 of 178

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: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 14 of 178

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: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 15 of 178

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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: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 16 of 178

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
Agilent Technologies	N9030A	3Hz-26.5GHz PXA Signal Analyzer	10/31/2024	Annual	10/31/2025	MY55330128
Anritsu	ML2495A	Power Meter	7/8/2024	Annual	7/8/2025	1039008
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-2
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/16/2025	Annual	4/16/2026	00218555
Keysight Technology	N9040B	UXA Signal Analyzer	6/9/2025	Annual	6/9/2026	MY57212015
Mini-Circuits	FLC-1.5FT-SMSM+	30MHz-27GHz Conducted Cable *	6/17/2025	Annual	6/17/2026	16113316
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/20/2025	Annual	5/20/2026	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	5/13/2025	Annual	5/13/2026	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	11/15/2024	Annual	11/15/2025	102326
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	4/25/2025	Annual	4/25/2026	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	5/7/2025	Annual	5/7/2026	00304
Rhode & Schwartz	SMW200A	Vector Signal Generator	3/10/2025	Annual	3/10/2026	110589

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.

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 17 of 178

7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3300
 IC: 579C-A3300
 FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407	RSS-Gen [5.1]	26dB Bandwidth	N/A	CONDUCTED	N/A	Section 7.2
15.407(e)	RSS-247 [7.3.4.2]	6dB Bandwidth	>500kHz(5725-5850MHz)		PASS	Section 7.3
2.1049	RSS-Gen [5.1]	Occupied Bandwidth	N/A		PASS	Section 7.2, Section 7.3
15.407 (a.1.iv), (a.2), (a.3)	RSS-247 [7.3.1.2], [7.3.2.2], [7.3.3.2], [7.3.4.3]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [7.3])		PASS	Section 7.4
15.407 (a.1.iv), (a.2), (a.3)	RSS-247 [7.3.1.2], [7.3.2.2], [7.3.3.2], [7.3.4.3]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (RSS-247 [7.3])		PASS	Section 7.5
15.407(h)	RSS-247 [7.3.6]	Dynamic Frequency Selection	See DFS Test Report	RADIATED	PASS	See DFS Test Report (1C25031700 28-08.BCG)
15.407(b.1), (2), (3), (4)	RSS-247 [7.3.1.3], [7.3.2.3], [7.3.3.3], [7.3.4.4]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [7.3])		PASS	Section 7.6
15.205, 15.407(b.1), (2), (3), (4)	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 7.6 Section 7.7
15.207	RSS-Gen [7.4.2]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [7.4.2]) limits	LINE CONDUCTED	PASS	Section 7.8

Table 7-1. Summary of Test Results

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element “Conducted Automation,” Version 1.4.0.
- 5) For radiated testing, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element “Chamber Automation,” Version 3.4.2.

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 18 of 178

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.

The 26 dB bandwidth is used to determine the conducted power limits for the FCC. The 99% OBW bandwidth is used to determine the conducted power limits for the ISSED.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.5.2
KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = in the range of 1% to 5% of the emission bandwidth
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold

Test Setup

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



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels were investigated, and tabular data has been reported. Only the worst-case plot was reported.

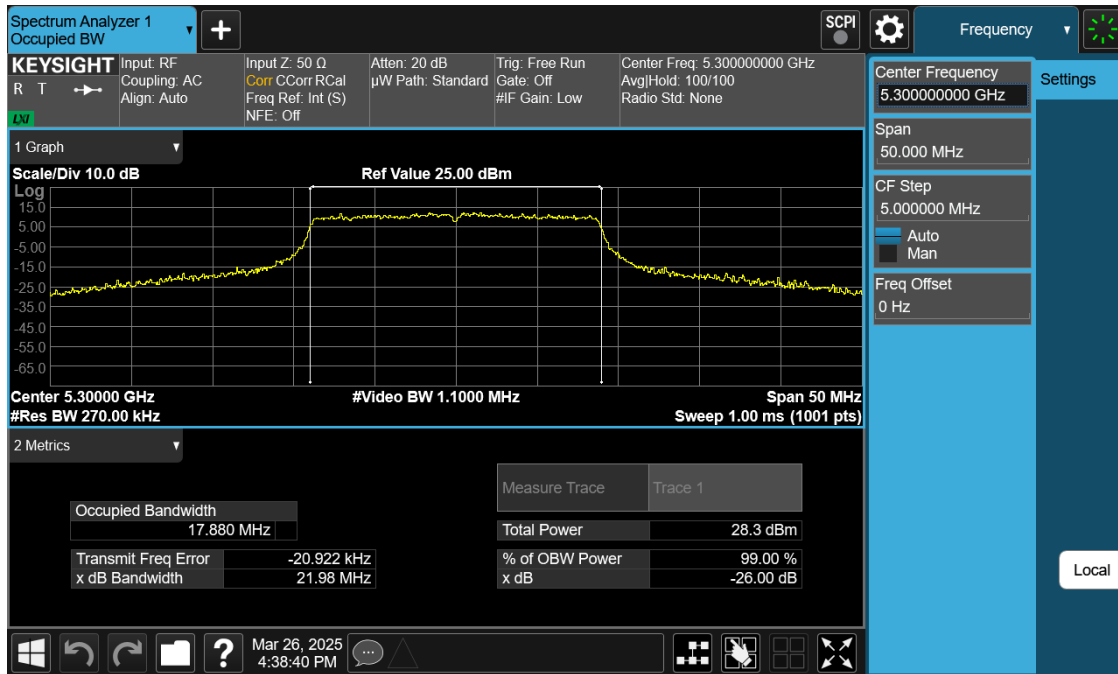
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 19 of 178

7.2.1 Antenna 0 26dB & 99% Bandwidth Measurements

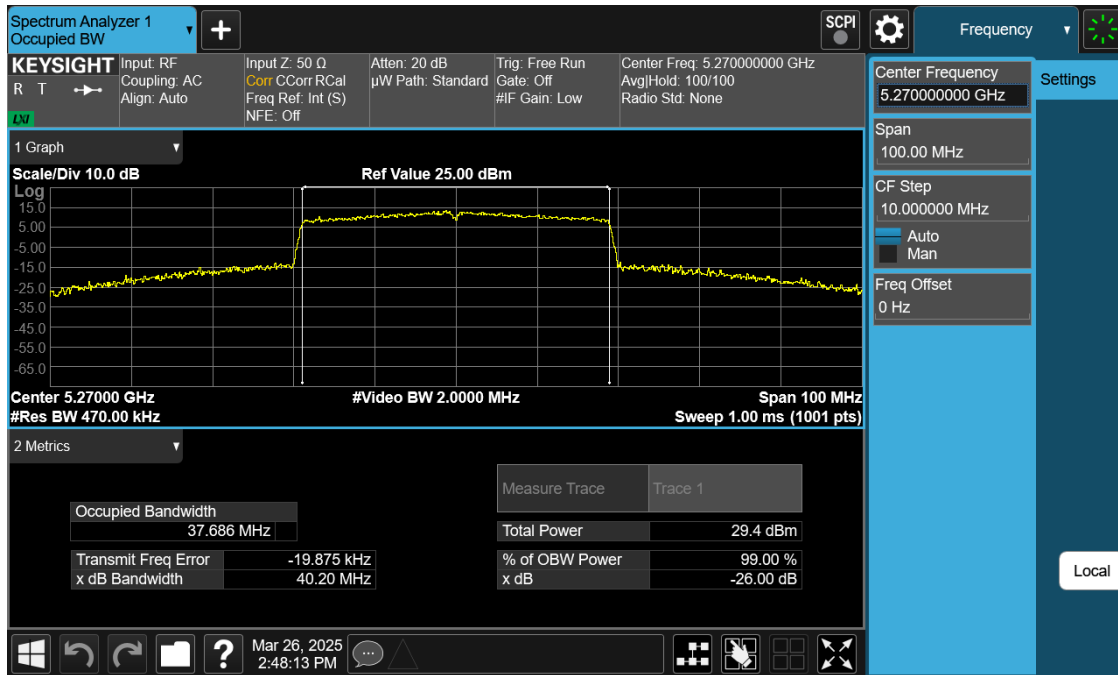
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	a	6	16.54	19.98
	5200	40	a	6	16.56	20.39
	5240	48	a	6	16.60	20.69
	5180	36	n (20MHz)	39/43.3 (MCS4)	17.99	25.14
	5200	40	n (20MHz)	65/72.2 (MCS7)	17.96	24.37
	5240	48	n (20MHz)	65/72.2 (MCS7)	17.88	22.06
	5180	36	ax (SU) (20MHz)	49/51.6 (MCS4)	19.17	27.18
	5200	40	ax (SU) (20MHz)	49/51.6 (MCS4)	19.16	28.81
	5240	48	ax (SU) (20MHz)	49/51.6 (MCS4)	19.09	22.89
	5190	38	n (40MHz)	135/150 (MCS7)	36.49	51.02
	5230	46	n (40MHz)	81/90 (MCS4)	36.60	47.77
	5190	38	ax (SU) (40MHz)	49/51.6 (MCS2)	37.81	52.87
	5230	46	ax (SU) (40MHz)	49/51.6 (MCS2)	37.78	50.21
	5210	42	ac (80MHz)	87.8/97.5 (MCS2)	75.79	103.96
Band 1/2	5210	42	ax (SU) (80MHz)	102/108.1 (MCS2)	77.34	103.56
	5250	50	ac (160MHz)	87.8/97.5 (MCS2)	153.87	177.83
Band 2A	5250	50	ax (SU) (160MHz)	102/108.1 (MCS2)	155.41	165.21
	5260	52	a	6	16.62	21.18
	5300	60	a	6	16.54	20.24
	5320	64	a	6	16.56	20.49
	5260	52	n (20MHz)	65/72.2 (MCS7)	17.86	22.14
	5300	60	n (20MHz)	65/72.2 (MCS7)	17.88	21.98
	5320	64	n (20MHz)	65/72.2 (MCS7)	17.87	22.92
	5260	52	ax (SU) (20MHz)	24/25.8 (MCS2)	19.10	23.28
	5300	60	ax (SU) (20MHz)	135/143.4 (MCS11)	19.25	23.98
	5320	64	ax (SU) (20MHz)	135/143.4 (MCS11)	19.18	23.23
	5270	54	n (40MHz)	135/150 (MCS7)	36.40	40.88
	5310	62	n (40MHz)	135/150 (MCS7)	36.28	41.88
	5270	54	ax (SU) (40MHz)	49/51.6 (MCS2)	37.69	40.20
	5310	62	ax (SU) (40MHz)	98/103.2 (MCS4)	37.74	48.60
Band 2C	5290	58	ac (80MHz)	87.8/97.5 (MCS2)	75.73	100.78
	5290	58	ax (SU) (80MHz)	204/216.2 (MCS4)	77.14	87.66
	5500	100	a	6	16.59	20.40
	5580	116	a	6	16.57	20.01
	5720	144	a	6	16.60	20.42
	5500	100	n (20MHz)	65/72.2 (MCS7)	17.86	22.49
	5580	116	n (20MHz)	39/43.3 (MCS4)	18.01	23.23
	5720	144	n (20MHz)	65/72.2 (MCS7)	17.96	23.63
	5500	100	ax (SU) (20MHz)	135/143.4 (MCS11)	19.24	25.00
	5580	116	ax (SU) (20MHz)	49/51.6 (MCS4)	19.13	24.38
	5720	144	ax (SU) (20MHz)	49/51.6 (MCS4)	19.11	24.38
	5510	102	n (40MHz)	135/150 (MCS7)	36.32	43.05
	5550	110	n (40MHz)	40/40.5 (MCS2)	36.45	43.84
	5710	142	n (40MHz)	81/90 (MCS4)	36.58	46.56
	5510	102	ax (SU) (40MHz)	49/51.6 (MCS2)	37.75	50.52
	5550	110	ax (SU) (40MHz)	49/51.6 (MCS2)	37.78	45.62
	5710	142	ax (SU) (40MHz)	49/51.6 (MCS2)	37.79	50.85
	5530	106	ac (80MHz)	87.8/97.5 (MCS2)	75.63	105.09
	5690	138	ac (80MHz)	87.8/97.5 (MCS2)	75.99	80.12
	5530	106	ax (SU) (80MHz)	204/216.2 (MCS4)	77.27	94.23
	5690	138	ax (SU) (80MHz)	102/108.1 (MCS2)	77.52	80.88
	*5570	114	ac (160MHz)	87.8/97.5 (MCS2)	154.11	175.22
	*5570	114	ax (SU) (160MHz)	204/216.2 (MCS4)	155.37	164.02

Table 7-2. Conducted Bandwidth Measurements Antenna 0

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178

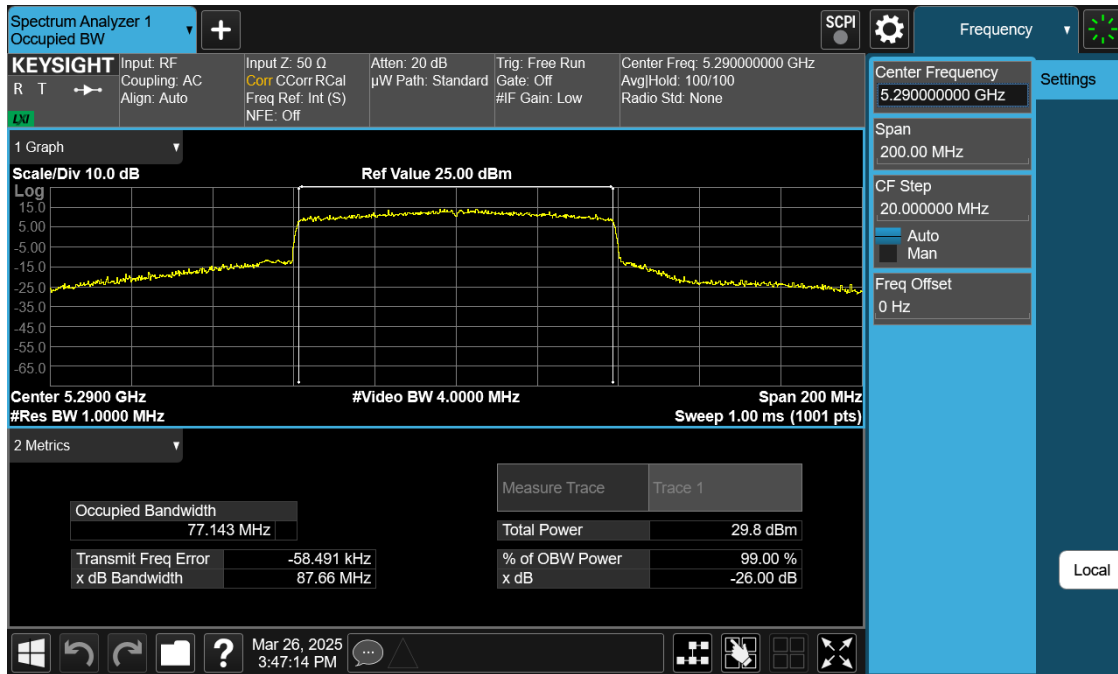


Plot 7-1. 26dB BW & 99% OBW Antenna 0 (20MHz BW 802.11n – Ch. 60)

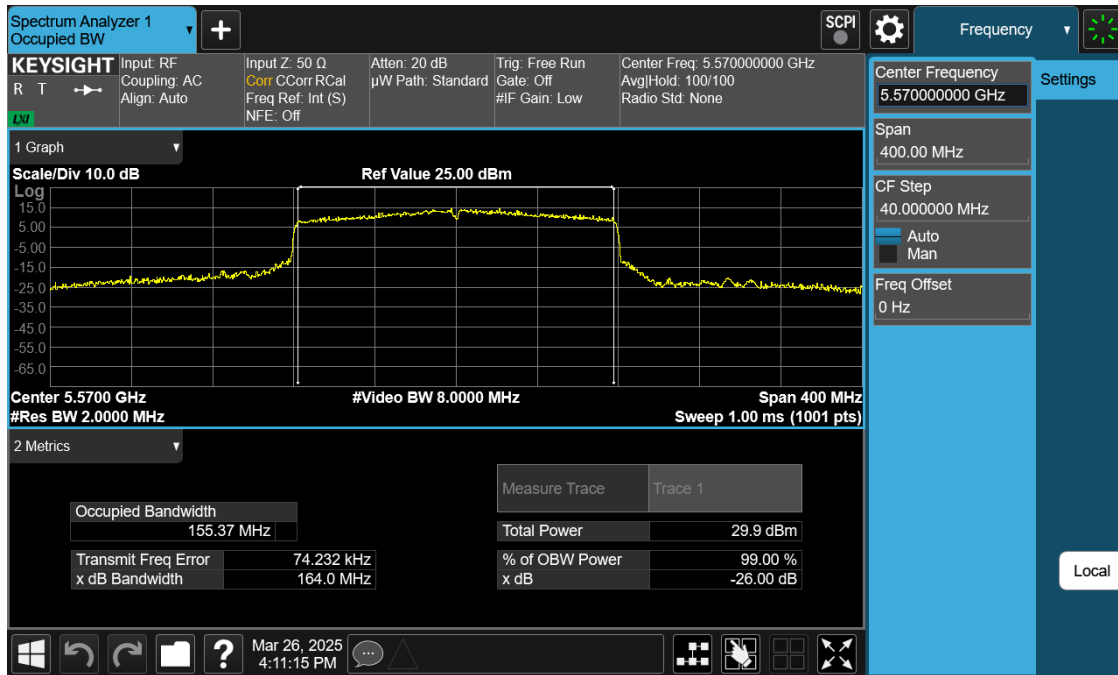


Plot 7-2. 26dB BW & 99% OBW Antenna 0 (40MHz BW 802.11ax SU – Ch. 54)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178



Plot 7-3. 26dB BW & 99% OBW Antenna 0 (80MHz BW 802.11ax SU – Ch. 58)



Plot 7-4. 26dB BW & 99% OBW Antenna 0 (160MHz BW 802.11ax SU – Ch. 114)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178

7.2.2 Antenna 0 99% Bandwidth Measurements

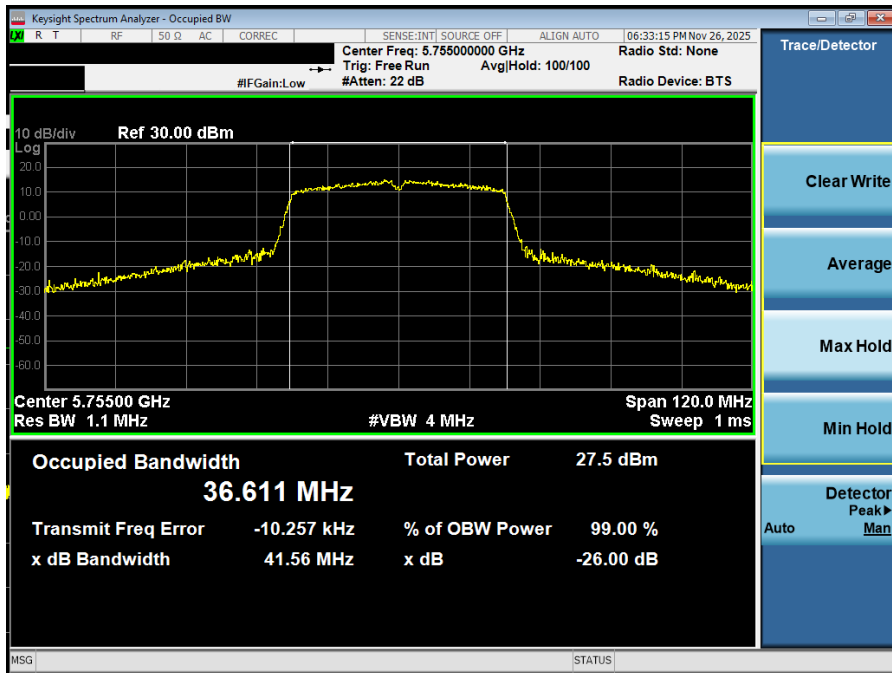
	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]
Band 3	5745	149	a	54Mbps	17.08
	5785	157	a	12Mbps	17.09
	5825	165	a	24Mbps	17.02
	5745	149	n (20MHz)	MCS4	18.25
	5785	157	n (20MHz)	MCS2	18.28
	5825	165	n (20MHz)	MCS4	18.28
	5745	149	ax (SU) (20MHz)	MCS4	19.30
	5785	157	ax (SU) (20MHz)	MCS4	19.22
	5825	165	ax (SU) (20MHz)	MCS4	19.25
	5755	151	n (40MHz)	MCS7	36.61
	5795	159	n (40MHz)	MCS7	36.66
	5755	151	ax (SU) (40MHz)	MCS4	37.84
	5795	159	ax (SU) (40MHz)	MCS2	37.78
	5775	155	ac (80MHz)	MCS2	75.46
	5775	155	ax (SU) (80MHz)	MCS2	77.20

Table 7-3. Conducted Bandwidth Measurements Antenna 0

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178

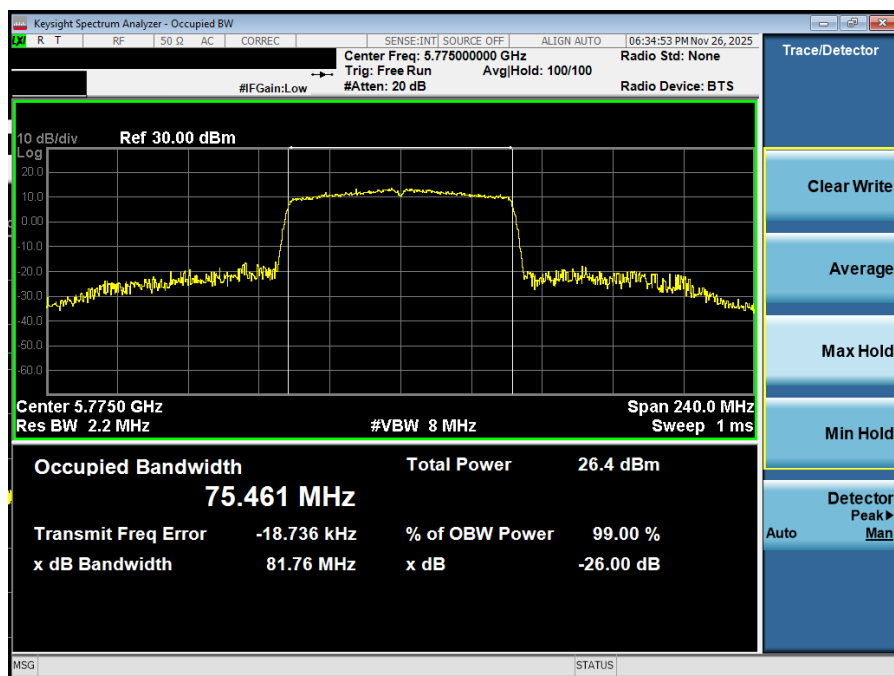


Plot 7-5. 99% OBW Antenna 0 (20MHz BW 802.11a – Ch. 165)



Plot 7-6. 99% OBW Antenna 0 (40MHz BW 802.11n – Ch. 151)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178



Plot 7-7. 99% OBW Antenna 0 (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178

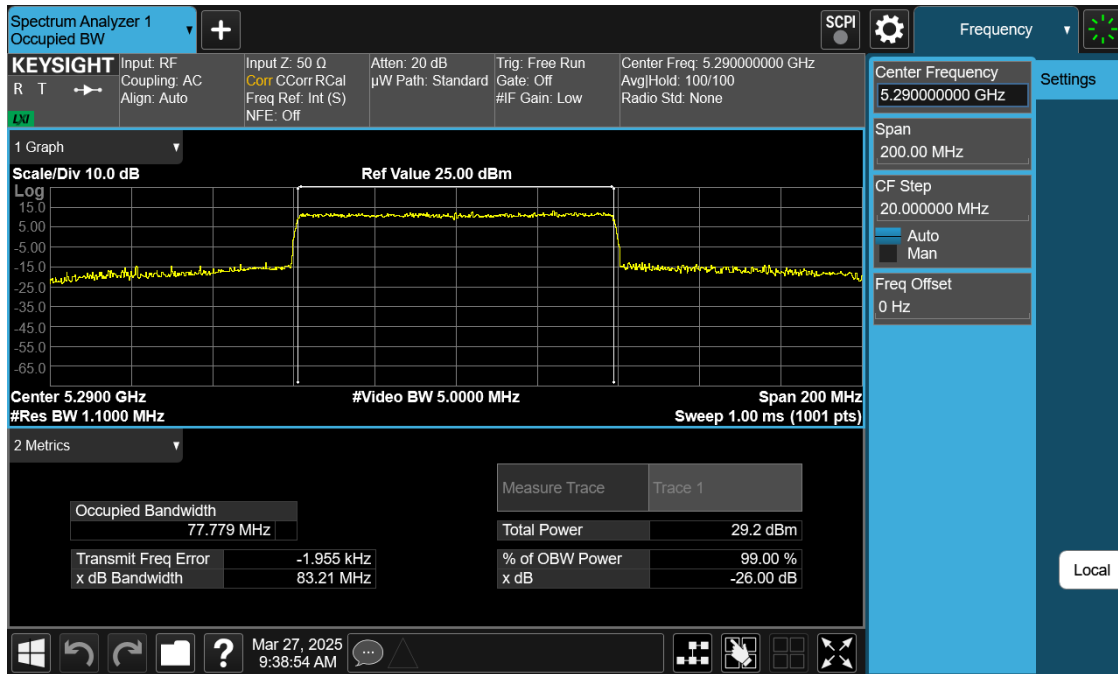
V 12.0 03/03/2026

7.2.3 Antenna 1 26dB & 99% Bandwidth Measurements

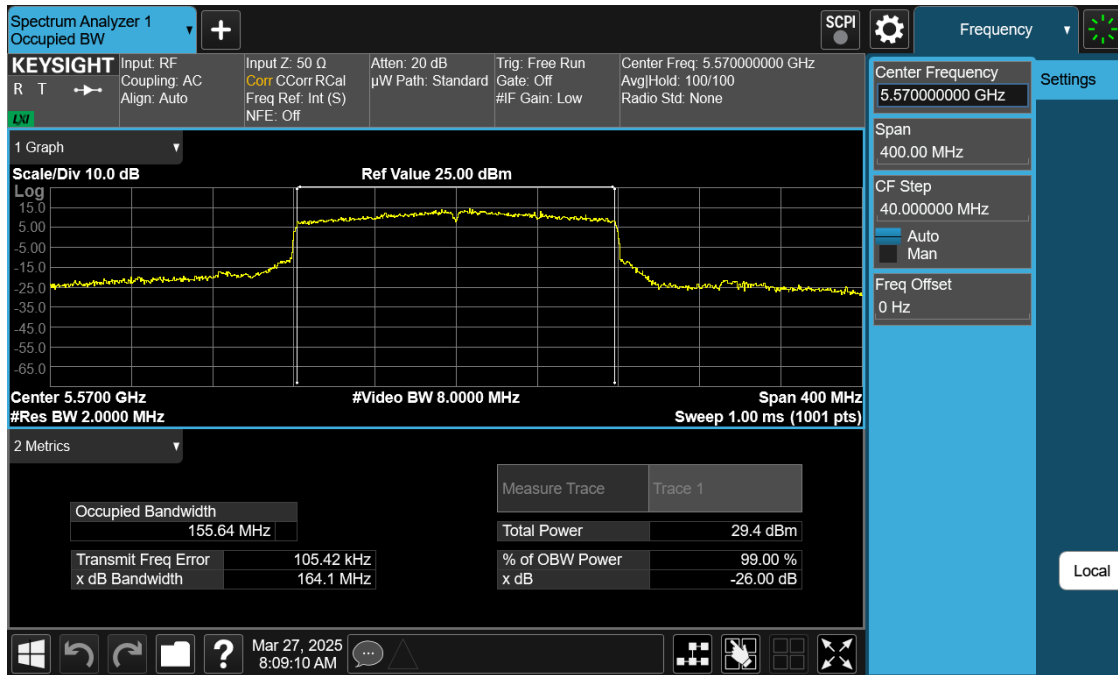
	Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	a	6	16.58	20.26
	5200	40	a	6	16.62	20.66
	5240	48	a	6	16.66	21.29
	5180	36	n (20MHz)	39/43.3 (MCS4)	18.02	25.34
	5200	40	n (20MHz)	65/72.2 (MCS7)	17.93	24.05
	5240	48	n (20MHz)	65/72.2 (MCS7)	17.90	24.12
	5180	36	ax (SU) (20MHz)	135/143.4 (MCS11)	19.31	25.64
	5200	40	ax (SU) (20MHz)	135/143.4 (MCS11)	19.21	22.83
	5240	48	ax (SU) (20MHz)	49/51.6 (MCS4)	19.13	24.22
	5190	38	n (40MHz)	135/150 (MCS7)	36.53	52.80
	5230	46	n (40MHz)	135/150 (MCS7)	36.57	47.74
	5190	38	ax (SU) (40MHz)	49/51.6 (MCS2)	37.83	53.34
	5230	46	ax (SU) (40MHz)	49/51.6 (MCS2)	37.81	50.46
	5210	42	ac (80MHz)	175.5/195 (MCS4)	75.75	104.63
Band 1/2	5210	42	ax (SU) (80MHz)	102/108.1 (MCS2)	77.41	103.34
	5250	50	ac (160MHz)	87.8/97.5 (MCS2)	153.93	179.39
Band 2A	5250	50	ax (SU) (160MHz)	204/216.2 (MCS4)	155.41	166.64
	5260	52	a	6	16.67	20.95
	5300	60	a	6	16.66	21.55
	5320	64	a	6	16.55	20.32
	5260	52	n (20MHz)	19.5/21.7 (MCS2)	17.87	22.89
	5300	60	n (20MHz)	65/72.2 (MCS7)	17.91	22.00
	5320	64	n (20MHz)	65/72.2 (MCS7)	17.91	22.36
	5260	52	ax (SU) (20MHz)	49/51.6 (MCS4)	19.04	22.39
	5300	60	ax (SU) (20MHz)	135/143.4 (MCS11)	19.16	23.07
	5320	64	ax (SU) (20MHz)	135/143.4 (MCS11)	19.16	23.14
	5270	54	n (40MHz)	81/90 (MCS4)	36.39	41.99
	5310	62	n (40MHz)	81/90 (MCS4)	36.47	46.60
	5270	54	ax (SU) (40MHz)	271/286 (MCS11)	38.02	44.03
	5310	62	ax (SU) (40MHz)	98/103.2 (MCS4)	37.88	49.13
	5290	58	ac (80MHz)	87.8/97.5 (MCS2)	75.66	102.09
	5290	58	ax (SU) (80MHz)	567/600.5 (MCS11)	77.78	83.21
Band 2C	5500	100	a	6	16.59	20.46
	5580	116	a	6	16.59	20.43
	5720	144	a	6	16.63	20.57
	5500	100	n (20MHz)	65/72.2 (MCS7)	17.91	22.40
	5580	116	n (20MHz)	19.5/21.7 (MCS2)	17.98	25.37
	5720	144	n (20MHz)	39/43.3 (MCS4)	17.97	23.84
	5500	100	ax (SU) (20MHz)	49/51.6 (MCS4)	19.18	25.37
	5580	116	ax (SU) (20MHz)	49/51.6 (MCS4)	19.19	28.52
	5720	144	ax (SU) (20MHz)	49/51.6 (MCS4)	19.16	25.37
	5510	102	n (40MHz)	40/40.5 (MCS2)	36.63	47.90
	5550	110	n (40MHz)	135/150 (MCS7)	36.55	45.23
	5710	142	n (40MHz)	81/90 (MCS4)	36.51	43.81
	5510	102	ax (SU) (40MHz)	49/51.6 (MCS2)	37.94	58.72
	5550	110	ax (SU) (40MHz)	49/51.6 (MCS2)	37.80	51.36
	5710	142	ax (SU) (40MHz)	49/51.6 (MCS2)	37.93	58.05
	5530	106	ac (80MHz)	175.5/195 (MCS4)	75.78	110.84
	5690	138	ac (80MHz)	87.8/97.5 (MCS2)	76.18	114.88
	5530	106	ax (SU) (80MHz)	204/216.2 (MCS4)	77.43	106.45
	5690	138	ax (SU) (80MHz)	102/108.1 (MCS2)	77.78	80.96
	*5570	114	ac (160MHz)	87.8/97.5 (MCS2)	154.17	179.61
	*5570	114	ax (SU) (160MHz)	102/108.1 (MCS2)	155.64	164.06

Table 7-4. Conducted Bandwidth Measurements Antenna 1

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178



Plot 7-10. 26dB BW & 99% OBW Antenna 1 (80MHz BW 802.11ax SU – Ch. 58)



Plot 7-11. 26dB BW & 99% OBW Antenna 1 (160MHz BW 802.11ax SU – Ch. 114)

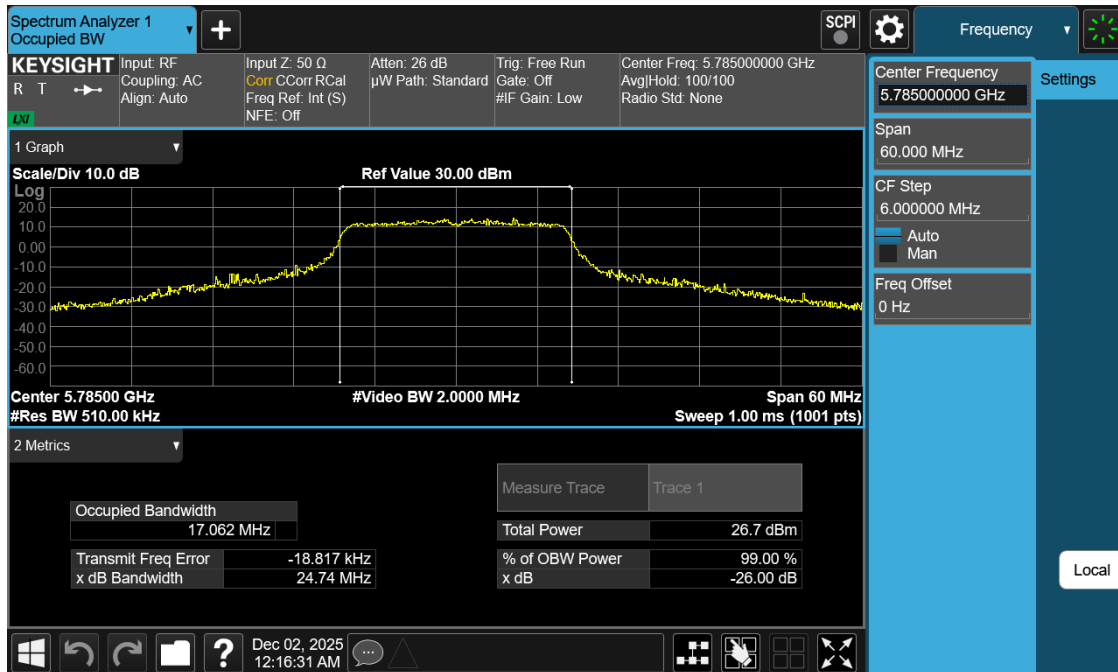
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 28 of 178

7.2.4 Antenna 1 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 99% Occupied Bandwidth [MHz]
Band 3	5745	149	a	54Mbps	17.12
	5785	157	a	54Mbps	17.06
	5825	165	a	54Mbps	17.12
	5745	149	n (20MHz)	MCS7	18.33
	5785	157	n (20MHz)	MCS4	18.30
	5825	165	n (20MHz)	MCS7	18.34
	5745	149	ax (SU) (20MHz)	MCS4	19.27
	5785	157	ax (SU) (20MHz)	MCS4	19.26
	5825	165	ax (SU) (20MHz)	MCS4	19.30
	5755	151	n (40MHz)	MCS7	36.73
	5795	159	n (40MHz)	MCS7	36.75
	5755	151	ax (SU) (40MHz)	MCS4	37.91
	5795	159	ax (SU) (40MHz)	MCS2	37.87
	5775	155	ac (80MHz)	MCS2	75.46
	5775	155	ax (SU) (80MHz)	MCS4	77.26

Table 7-5. Conducted Bandwidth Measurements Antenna 1

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178



FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178



Plot 7-14. 99% OBW Antenna 1 (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 31 of 178

7.3 6dB Bandwidth Measurement

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10:2020 + 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 6dB bandwidth.

In the 5.725 – 5.850GHz band, the 6dB bandwidth must be ≥ 500 kHz.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.5.1
KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

2. All data rates and channels were investigated, and tabular data has been reported. Only the worst-case plot was reported.

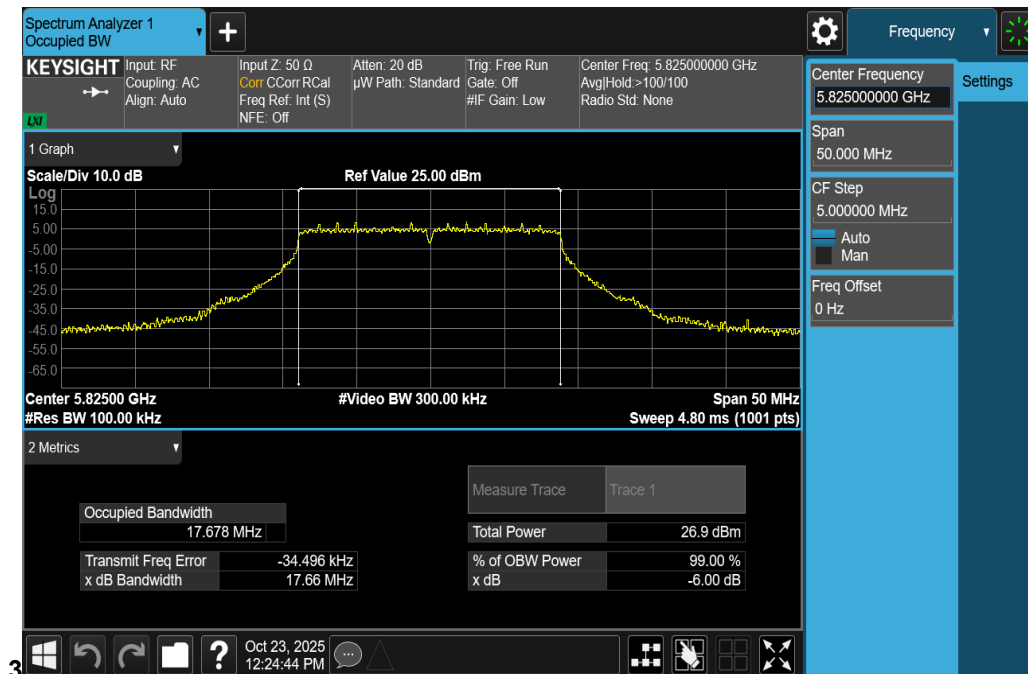
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 32 of 178

7.3.1 Antenna 0 6dB Bandwidth Measurements

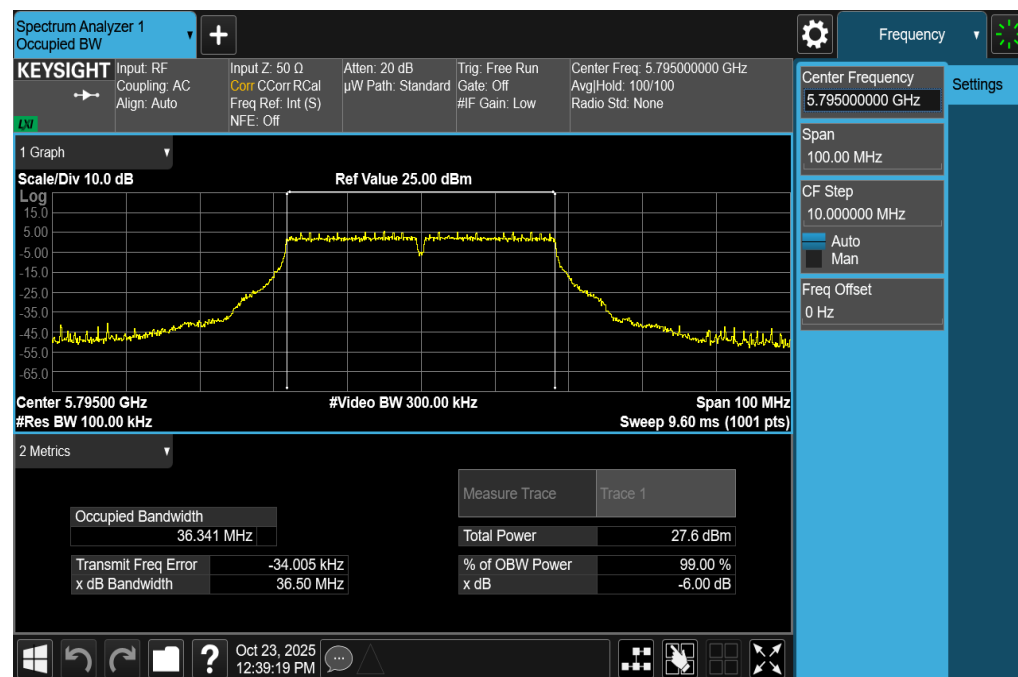
	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	a	24Mbps	17.67	0.50	Pass
	5785	157	a	12Mbps	17.69	0.50	Pass
	5825	165	a	24Mbps	17.66	0.50	Pass
	5745	149	n (20MHz)	MCS2	17.68	0.50	Pass
	5785	157	n (20MHz)	MCS2	17.68	0.50	Pass
	5825	165	n (20MHz)	MCS2	17.67	0.50	Pass
	5745	149	be (SU) (20MHz)	MCS11	19.10	0.50	Pass
	5785	157	be (SU) (20MHz)	MCS4	19.10	0.50	Pass
	5825	165	be (SU) (20MHz)	MCS11	19.09	0.50	Pass
	5755	151	n (40MHz)	MCS2	36.51	0.50	Pass
	5795	159	n (40MHz)	MCS2	36.50	0.50	Pass
	5755	151	be (SU) (40MHz)	MCS11	38.22	0.50	Pass
	5795	159	be (SU) (40MHz)	MCS11	38.25	0.50	Pass
	5775	155	ac (80MHz)	MCS4	76.60	0.50	Pass
	5775	155	be (SU) (80MHz)	MCS11	78.27	0.50	Pass

Table 7-6. Conducted Bandwidth Measurements Antenna 0

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 33 of 178

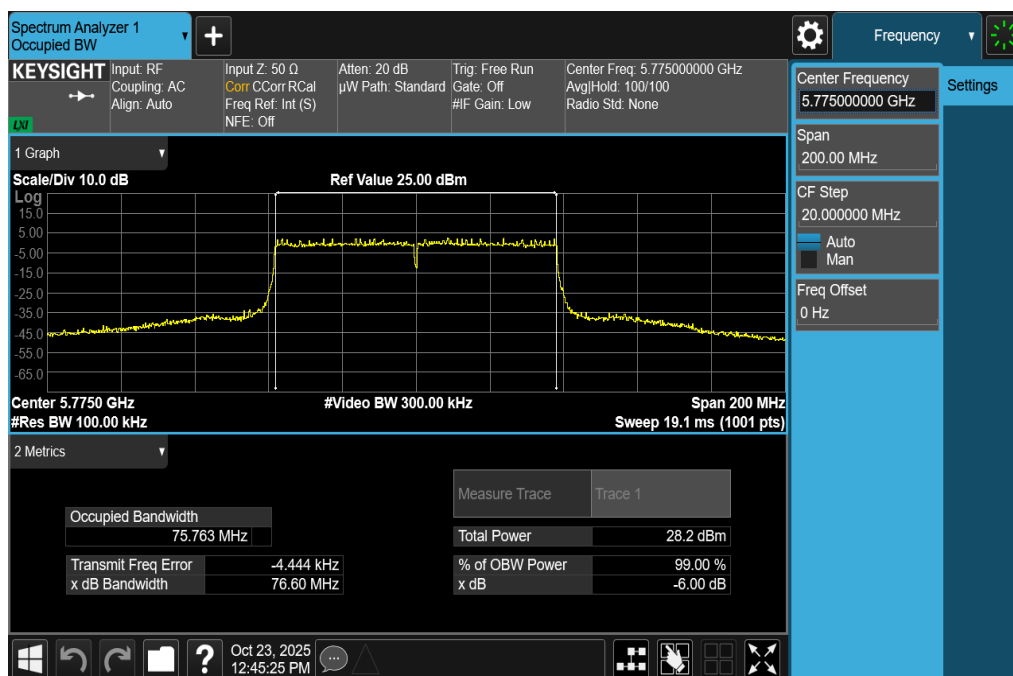


Plot 7-15. 6dB BW OBW Antenna 0 (20MHz BW 802.11a – Ch. 165)



Plot 7-16. 6dB BW OBW Antenna 0 (40MHz BW 802.11n – Ch. 159)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 34 of 178



Plot 7-17. 6dB BW OBW Antenna 0 (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 35 of 178

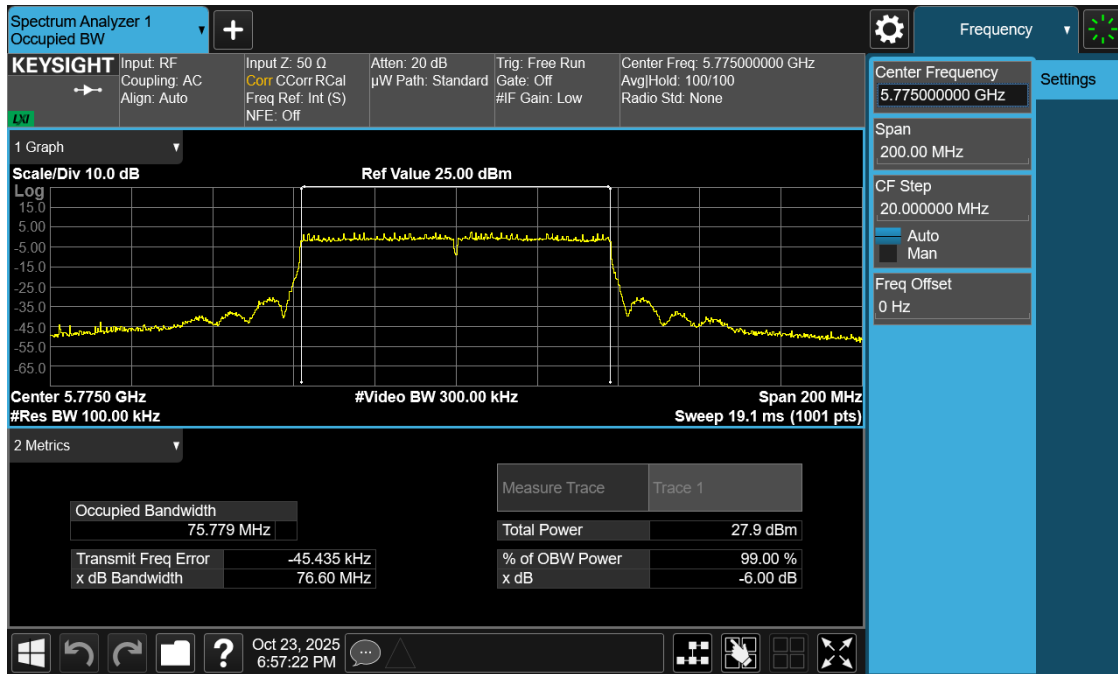
V 12.0 03/03/2026

7.3.2 Antenna 1 6dB Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
Band 3	5745	149	a	24Mbps	17.67	0.50	Pass
	5785	157	a	24Mbps	17.70	0.50	Pass
	5825	165	a	24Mbps	17.66	0.50	Pass
	5745	149	n (20MHz)	MCS2	17.72	0.50	Pass
	5785	157	n (20MHz)	MCS2	17.68	0.50	Pass
	5825	165	n (20MHz)	MCS2	17.68	0.50	Pass
	5745	149	be (SU) (20MHz)	MCS4	19.07	0.50	Pass
	5785	157	be (SU) (20MHz)	MCS11	19.09	0.50	Pass
	5825	165	be (SU) (20MHz)	MCS4	19.12	0.50	Pass
	5755	151	n (40MHz)	MCS2	36.46	0.50	Pass
	5795	159	n (40MHz)	MCS2	36.46	0.50	Pass
	5755	151	be (SU) (40MHz)	MCS2	38.25	0.50	Pass
	5795	159	be (SU) (40MHz)	MCS4	38.22	0.50	Pass
	5775	155	ac (80MHz)	MCS2	76.60	0.50	Pass
	5775	155	be (SU) (80MHz)	MCS4	78.26	0.50	Pass

Table 7-7. Conducted Bandwidth Measurements Antenna 1

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 36 of 178



Plot 7-20. 6dB BW OBW Antenna 1 (80MHz BW 802.11ac – Ch. 155)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178

7.4 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. B is the 99% OBW per ISED RSS-247 and 26dB BW is per FCC 15.407.

In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm). The maximum e.i.r.p. shall not exceed the lesser of 200 mW or $10 + 10 \log_{10}B$, dBm.

In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10\log_{10}(B)$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or $17 + 10 \log_{10}B$, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm + $10\log_{10}(B)$. The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or $17 + 10 \log_{10}B$, dBm.

In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm). The maximum e.i.r.p. is 36 dBm.

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 7-3. Test Instrument & Measurement Setup

Test Notes

1. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.
2. For MIMO output power measurements, uncorrelated directional gain was applied to both CDD and SDM EIRP calculations.

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178

7.4.1 FCC Antenna 0 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	12Mbps	17.31	23.98	-6.67
	5200	40	AVG	12Mbps	18.94	23.98	-5.04
	5240	48	AVG	24Mbps	18.79	23.98	-5.19
	5260	52	AVG	24Mbps	19.40	23.98	-4.58
	5300	60	AVG	24Mbps	19.05	23.98	-4.93
	5320	64	AVG	12Mbps	17.36	23.98	-6.62
	5500	100	AVG	12Mbps	17.05	23.98	-6.93
	5520	104	AVG	12Mbps	18.19	23.98	-5.79
	5580	116	AVG	24Mbps	19.47	23.98	-4.51
	5680	136	AVG	24Mbps	18.24	23.98	-5.74
	5700	140	AVG	12Mbps	13.79	23.98	-10.19
	5720	144	AVG	24Mbps	19.30	23.98	-4.68
	5745	149	AVG	24Mbps	19.44	30.00	-10.56
	5785	157	AVG	24Mbps	19.13	30.00	-10.87
	5825	165	AVG	12Mbps	19.42	30.00	-10.58

Table 7-8. FCC Antenna 0 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	MCS2	17.34	23.98	-6.64
	5200	40	AVG	MCS2	17.94	23.98	-6.04
	5240	48	AVG	MCS4	17.80	23.98	-6.18
	5260	52	AVG	MCS4	18.38	23.98	-5.60
	5300	60	AVG	MCS4	18.44	23.98	-5.54
	5320	64	AVG	MCS2	17.31	23.98	-6.67
	5500	100	AVG	MCS2	17.07	23.98	-6.91
	5520	104	AVG	MCS2	18.32	23.98	-5.66
	5580	116	AVG	MCS4	18.50	23.98	-5.48
	5680	136	AVG	MCS2	18.39	23.98	-5.59
	5700	140	AVG	MCS2	13.93	23.98	-10.05
	5720	144	AVG	MCS4	18.39	23.98	-5.59
	5745	149	AVG	MCS4	18.49	30.00	-11.51
	5785	157	AVG	MCS4	18.31	30.00	-11.69
	5825	165	AVG	MCS2	18.40	30.00	-11.60

Table 7-9. FCC Antenna 0 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 178

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	MCS2	16.47	23.98	-7.51
	5200	40	AVG	MCS4	17.66	23.98	-6.32
	5240	48	AVG	MCS2	17.95	23.98	-6.03
	5260	52	AVG	MCS2	18.48	23.98	-5.50
	5300	60	AVG	MCS2	18.47	23.98	-5.51
	5320	64	AVG	MCS2	16.91	23.98	-7.07
	5500	100	AVG	MCS2	15.63	23.98	-8.35
	5520	104	AVG	MCS2	16.96	23.98	-7.02
	5540	108	AVG	MCS2	18.48	23.98	-5.50
	5580	116	AVG	MCS4	18.17	23.98	-5.81
	5640	128	AVG	MCS4	18.16	23.98	-5.82
	5660	132	AVG	MCS2	17.83	23.98	-6.15
	5680	136	AVG	MCS4	17.99	23.98	-5.99
	5700	140	AVG	MCS2	12.98	23.98	-11.00
	5720	144	AVG	MCS2	18.44	23.98	-5.54
	5745	149	AVG	MCS4	18.09	30.00	-11.91
	5785	157	AVG	MCS4	18.47	30.00	-11.53
	5825	165	AVG	MCS4	18.10	30.00	-11.90

Table 7-10. FCC Antenna 0 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	MCS2	13.68	23.98	-10.30
	5230	46	AVG	MCS4	17.61	23.98	-6.37
	5270	54	AVG	MCS4	18.27	23.98	-5.71
	5310	62	AVG	MCS4	13.73	23.98	-10.25
	5510	102	AVG	MCS2	13.47	23.98	-10.51
	5550	110	AVG	MCS2	17.73	23.98	-6.25
	5590	118	AVG	MCS4	18.41	23.98	-5.57
	5630	126	AVG	MCS2	17.31	23.98	-6.67
	5670	134	AVG	MCS2	16.77	23.98	-7.21
	5710	142	AVG	MCS4	18.26	23.98	-5.72
	5755	151	AVG	MCS2	18.32	30.00	-11.68
	5795	159	AVG	MCS4	18.42	30.00	-11.58

Table 7-11. FCC Antenna 0 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	MCS4	12.45	23.98	-11.53
	5230	46	AVG	MCS4	17.86	23.98	-6.12
	5270	54	AVG	MCS2	18.45	23.98	-5.53
	5310	62	AVG	MCS2	12.90	23.98	-11.08
	5510	102	AVG	MCS4	11.87	23.98	-12.11
	5550	110	AVG	MCS2	17.97	23.98	-6.01
	5590	118	AVG	MCS4	18.32	23.98	-5.66
	5670	134	AVG	MCS2	15.40	23.98	-8.58
	5710	142	AVG	MCS4	18.33	23.98	-5.65
	5755	151	AVG	MCS4	18.02	30.00	-11.98
	5795	159	AVG	MCS2	18.16	30.00	-11.85

Table 7-12. FCC Antenna 0 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	MCS2	12.37	23.98	-11.61
	5290	58	AVG	MCS2	12.37	23.98	-11.61
	5530	106	AVG	MCS4	11.32	23.98	-12.66
	5610	122	AVG	MCS2	17.46	23.98	-6.52
	5690	138	AVG	MCS4	18.47	23.98	-5.51
	5775	155	AVG	MCS2	16.64	30.00	-13.36

Table 7-13. FCC Antenna 0 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	MCS2	11.90	23.98	-12.08
	5290	58	AVG	MCS2	10.99	23.98	-12.99
	5530	106	AVG	MCS2	10.98	23.98	-13.00
	5610	122	AVG	MCS4	16.73	23.98	-7.25
	5690	138	AVG	MCS4	18.43	23.98	-5.55
	5775	155	AVG	MCS2	15.75	30.00	-14.26

Table 7-14. FCC Antenna 0 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5250	50	AVG	MCS2	12.29	23.98	-11.69
	5570	114	AVG	MCS4	10.66	23.98	-13.32

Table 7-15. FCC Antenna 0 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 42 of 178

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5250	50	AVG	MCS4	11.64	23.98	-12.34
	5570	114	AVG	MCS4	10.89	23.98	-13.09

Table 7-16. FCC Antenna 0 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 43 of 178

V 12.0 03/03/2026

7.4.2 ISED Antenna 0 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	AVG	12Mbps	17.31	-	-	1.10	18.41	23.01	-4.60
	5200	40	AVG	12Mbps	18.94	-	-	1.10	20.04	23.01	-2.97
	5240	48	AVG	24Mbps	18.79	-	-	1.10	19.89	23.01	-3.12
	5260	52	AVG	12Mbps	19.35	23.98	-4.63	1.35	20.70	30.00	-9.30
	5300	60	AVG	12Mbps	19.05	23.98	-4.93	1.35	20.40	30.00	-9.60
	5320	64	AVG	12Mbps	17.36	23.98	-6.62	1.35	18.71	30.00	-11.29
	5500	100	AVG	12Mbps	17.05	23.98	-6.91	2.50	19.55	30.00	-10.45
	5520	104	AVG	12Mbps	18.19	23.98	-5.66	2.50	20.69	30.00	-9.31
	5540	108	AVG	12Mbps	19.40	23.98	-4.58	2.50	21.90	30.00	-8.10
	5580	116	AVG	12Mbps	19.47	23.98	-4.51	2.50	21.97	30.00	-8.03
	5660	132	AVG	12Mbps	19.12	23.98	-4.86	2.50	21.62	30.00	-8.38
	5680	136	AVG	12Mbps	18.24	23.98	-5.59	2.50	20.74	30.00	-9.26
	5700	140	AVG	12Mbps	13.79	23.98	-10.05	2.50	16.29	30.00	-13.71
	5720	144	AVG	12Mbps	19.30	23.98	-4.68	2.50	21.80	30.00	-8.20
	5745	149	AVG	12Mbps	19.44	30.00	-10.56	2.76	22.20	-	-
	5785	157	AVG	12Mbps	19.13	30.00	-10.87	2.76	21.89	-	-
	5825	165	AVG	12Mbps	19.42	30.00	-10.58	2.76	22.18	-	-

Table 7-17. ISED Antenna 0 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	AVG	MCS2	17.34	-	-	1.10	18.44	23.01	-4.58
	5200	40	AVG	MCS2	17.94	-	-	1.10	19.04	23.01	-3.97
	5240	48	AVG	MCS4	17.77	-	-	1.10	18.87	23.01	-4.14
	5260	52	AVG	MCS2	18.38	23.98	-4.63	1.35	19.73	30.00	-10.27
	5300	60	AVG	MCS2	18.44	23.98	-4.93	1.35	19.79	30.00	-10.21
	5320	64	AVG	MCS2	17.31	23.98	-6.62	1.35	18.66	30.00	-11.34
	5500	100	AVG	MCS2	17.07	23.98	-6.91	2.50	19.57	30.00	-10.43
	5520	104	AVG	MCS2	18.32	23.98	-5.66	2.50	20.82	30.00	-9.18
	5580	116	AVG	MCS2	18.50	23.98	-4.51	2.50	21.00	30.00	-9.00
	5680	136	AVG	MCS2	18.39	23.98	-5.59	2.50	20.89	30.00	-9.11
	5700	140	AVG	MCS2	13.93	23.98	-10.05	2.50	16.43	30.00	-13.57
	5720	144	AVG	MCS2	18.39	23.98	-4.68	2.50	20.89	30.00	-9.11
	5745	149	AVG	MCS2	18.49	30.00	-10.56	2.76	21.25	-	-
	5785	157	AVG	MCS2	18.31	30.00	-10.87	2.76	21.07	-	-
	5825	165	AVG	MCS2	18.40	30.00	-10.58	2.76	21.16	-	-

Table 7-18. ISED Antenna 0 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	AVG	MCS2	16.47	-	-	1.10	17.57	23.01	-5.44
	5200	40	AVG	MCS4	17.66	-	-	1.10	18.76	23.01	-4.25
	5240	48	AVG	MCS2	17.95	-	-	1.10	19.05	23.01	-3.96
	5260	52	AVG	MCS2	18.48	23.98	-4.63	1.35	19.83	30.00	-10.17
	5300	60	AVG	MCS2	18.47	23.98	-4.93	1.35	19.82	30.00	-10.18
	5320	64	AVG	MCS2	16.91	23.98	-6.62	1.35	18.26	30.00	-11.74
	5500	100	AVG	MCS2	15.63	23.98	-6.91	2.50	18.13	30.00	-11.87
	5520	104	AVG	MCS2	16.96	23.98	-5.66	2.50	19.46	30.00	-10.54
	5540	108	AVG	MCS2	18.48	23.98	-4.58	2.50	20.98	30.00	-9.02
	5580	116	AVG	MCS2	18.17	23.98	-4.51	2.50	20.67	30.00	-9.33
	5640	128	AVG	MCS2	18.16	23.98	-5.82	2.50	20.66	30.00	-9.34
	5660	132	AVG	MCS2	17.83	23.98	-4.86	2.50	20.33	30.00	-9.68
	5680	136	AVG	MCS2	17.99	23.98	-5.59	2.50	20.49	30.00	-9.51
	5700	140	AVG	MCS2	12.98	23.98	-10.05	2.50	15.48	30.00	-14.52
	5720	144	AVG	MCS2	18.44	23.98	-4.68	2.50	20.94	30.00	-9.06
	5745	149	AVG	MCS2	18.09	30.00	-10.56	2.76	20.85	-	-
	5785	157	AVG	MCS2	18.47	30.00	-10.87	2.76	21.23	-	-
	5825	165	AVG	MCS2	18.10	30.00	-10.58	2.76	20.86	-	-

Table 7-19. ISED Antenna 0 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 44 of 178

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	AVG	MCS2	13.68	-	-	1.10	14.78	23.01	-8.23
	5230	46	AVG	MCS4	17.61	-	-	1.10	18.91	23.01	-4.10
	5270	54	AVG	MCS2	18.27	23.98	-5.53	1.35	19.80	30.00	-10.20
	5310	62	AVG	MCS2	13.73	23.98	-10.25	1.35	15.08	30.00	-14.92
	5510	102	AVG	MCS2	13.47	23.98	-10.51	2.50	15.97	30.00	-14.03
	5550	110	AVG	MCS2	17.73	23.98	-6.01	2.50	20.47	30.00	-9.54
	5590	118	AVG	MCS2	18.41	23.98	-5.57	2.50	20.91	30.00	-9.09
	5630	126	AVG	MCS2	17.31	23.98	-6.67	2.50	19.81	30.00	-10.19
	5670	134	AVG	MCS2	16.77	23.98	-7.21	2.50	19.27	30.00	-10.73
	5710	142	AVG	MCS2	18.26	23.98	-5.67	2.50	20.81	30.00	-9.19
	5755	151	AVG	MCS2	18.32	30.00	-11.68	2.76	21.08	-	-
	5795	159	AVG	MCS2	18.42	30.00	-11.58	2.76	21.18	-	-

Table 7-20. ISED Antenna 0 40MHz BW 802.11n (UNII) Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	AVG	MCS4	12.45	-	-	1.10	13.55	23.01	-9.46
	5230	46	AVG	MCS4	17.86	-	-	1.10	18.96	23.01	-4.05
	5270	54	AVG	MCS2	18.45	23.98	-5.53	1.35	19.80	30.00	-10.20
	5310	62	AVG	MCS2	12.90	23.98	-10.25	1.35	14.25	30.00	-15.75
	5510	102	AVG	MCS2	11.87	23.98	-10.51	2.50	14.37	30.00	-15.63
	5550	110	AVG	MCS2	17.97	23.98	-6.01	2.50	20.47	30.00	-9.54
	5590	118	AVG	MCS2	18.32	23.98	-5.57	2.50	20.82	30.00	-9.18
	5670	134	AVG	MCS2	15.40	23.98	-7.21	2.50	17.90	30.00	-12.10
	5710	142	AVG	MCS2	18.33	23.98	-5.65	2.50	20.83	30.00	-9.17
	5755	151	AVG	MCS2	18.02	30.00	-11.68	2.76	20.78	-	-
	5795	159	AVG	MCS2	18.16	30.00	-11.58	2.76	20.92	-	-

Table 7-21. ISED Antenna 0 40MHz BW 802.11ax (SU) (UNII) Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	AVG	MCS2	12.37	-	-	1.10	13.47	23.01	-9.54
	5290	58	AVG	MCS2	12.37	23.98	-11.61	1.35	13.72	30.00	-16.28
	5530	106	AVG	MCS2	11.32	23.98	-12.66	2.50	13.82	30.00	-16.18
	5610	122	AVG	MCS2	17.46	23.98	-6.52	2.50	19.96	30.00	-10.04
	5690	138	AVG	MCS2	18.47	23.98	-5.51	2.50	20.97	30.00	-9.03
	5775	155	AVG	MCS2	16.64	30.00	-13.36	2.76	19.40	-	-

Table 7-22. ISED Antenna 0 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	AVG	MCS2	11.90	-	-	1.10	13.00	23.01	-10.01
	5290	58	AVG	MCS2	10.99	23.98	-11.61	1.35	12.34	30.00	-17.66
	5530	106	AVG	MCS2	10.98	23.98	-12.66	2.50	13.48	30.00	-16.52
	5610	122	AVG	MCS2	16.73	23.98	-6.52	2.50	19.23	30.00	-10.77
	5690	138	AVG	MCS2	18.43	23.98	-5.51	2.50	20.93	30.00	-9.07
	5775	155	AVG	MCS2	15.75	30.00	-13.36	2.76	18.51	-	-

Table 7-23. ISED Antenna 0 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5250	50	AVG	MCS2	12.29	23.98	-11.69	1.10	13.39	23.01	-9.62
	5570	114	AVG	MCS2	10.66	23.98	-13.32	2.50	13.16	30.00	-16.84

Table 7-24. ISED Antenna 0 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 45 of 178

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5250	50	AVG	MCS4	11.64	23.98	-12.34	1.10	12.74	23.01	-10.27
	5570	114	AVG	MCS2	10.89	23.98	-13.09	2.50	13.39	30.00	-16.61

Table 7-25. ISED Antenna 0 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 46 of 178

7.4.3 FCC Antenna 1 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	12Mbps	17.45	23.98	-6.53
	5200	40	AVG	24Mbps	18.87	23.98	-5.11
	5240	48	AVG	24Mbps	18.84	23.98	-5.14
	5260	52	AVG	24Mbps	19.38	23.98	-4.60
	5300	60	AVG	24Mbps	19.24	23.98	-4.74
	5320	64	AVG	12Mbps	17.16	23.98	-6.82
	5500	100	AVG	12Mbps	17.03	23.98	-6.95
	5520	104	AVG	12Mbps	18.05	23.98	-5.93
	5580	116	AVG	12Mbps	19.31	23.98	-4.67
	5680	136	AVG	24Mbps	18.18	23.98	-5.80
	5700	140	AVG	12Mbps	13.55	23.98	-10.43
	5720	144	AVG	24Mbps	19.36	23.98	-4.62
	5745	149	AVG	12Mbps	19.40	30.00	-10.60
	5785	157	AVG	24Mbps	19.06	30.00	-10.94
	5825	165	AVG	24Mbps	19.48	30.00	-10.52

Table 7-26. FCC Antenna 1 20MHz BW 802.11a (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	MCS2	17.42	23.98	-6.56
	5200	40	AVG	MCS4	17.63	23.98	-6.35
	5240	48	AVG	MCS4	17.81	23.98	-6.17
	5260	52	AVG	MCS4	18.37	23.98	-5.61
	5300	60	AVG	MCS4	18.46	23.98	-5.52
	5320	64	AVG	MCS2	17.18	23.98	-6.80
	5500	100	AVG	MCS2	17.03	23.98	-6.95
	5520	104	AVG	MCS4	18.48	23.98	-5.50
	5580	116	AVG	MCS4	18.31	23.98	-5.67
	5680	136	AVG	MCS4	18.20	23.98	-5.78
	5700	140	AVG	MCS2	13.54	23.98	-10.44
	5720	144	AVG	MCS4	18.31	23.98	-5.67
	5745	149	AVG	MCS4	18.34	30.00	-11.67
	5785	157	AVG	MCS4	18.10	30.00	-11.90
	5825	165	AVG	MCS4	18.41	30.00	-11.59

Table 7-27. FCC Antenna 1 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5180	36	AVG	MCS4	16.18	23.98	-7.80
	5200	40	AVG	MCS4	17.92	23.98	-6.06
	5240	48	AVG	MCS4	17.91	23.98	-6.07
	5260	52	AVG	MCS4	18.49	23.98	-5.49
	5300	60	AVG	MCS4	18.41	23.98	-5.57
	5320	64	AVG	MCS2	16.92	23.98	-7.06
	5500	100	AVG	MCS2	15.65	23.98	-8.33
	5520	104	AVG	MCS4	16.76	23.98	-7.22
	5540	108	AVG	MCS2	18.08	23.98	-5.90
	5580	116	AVG	MCS4	18.45	23.98	-5.53
	5640	128	AVG	MCS4	18.31	23.98	-5.67
	5660	132	AVG	MCS2	17.98	23.98	-6.00
	5680	136	AVG	MCS4	17.82	23.98	-6.16
	5700	140	AVG	MCS2	12.64	23.98	-11.34
	5720	144	AVG	MCS2	18.42	23.98	-5.56
	5745	149	AVG	MCS2	18.37	30.00	-11.64
	5785	157	AVG	MCS4	18.41	30.00	-11.60
	5825	165	AVG	MCS2	18.49	30.00	-11.51

Table 7-28. FCC Antenna 1 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	MCS2	13.73	23.98	-10.25
	5230	46	AVG	MCS2	17.99	23.98	-5.99
	5270	54	AVG	MCS4	18.37	23.98	-5.61
	5310	62	AVG	MCS2	13.99	23.98	-9.99
	5510	102	AVG	MCS4	13.44	23.98	-10.54
	5550	110	AVG	MCS2	17.69	23.98	-6.29
	5590	118	AVG	MCS4	18.04	23.98	-5.94
	5630	126	AVG	MCS4	17.48	23.98	-6.50
	5670	134	AVG	MCS4	16.65	23.98	-7.33
	5710	142	AVG	MCS4	18.14	23.98	-5.84
	5755	151	AVG	MCS4	18.29	30.00	-11.71
	5795	159	AVG	MCS4	18.43	30.00	-11.57

Table 7-29. FCC Antenna 1 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5190	38	AVG	MCS2	12.41	23.98	-11.57
	5230	46	AVG	MCS4	17.84	23.98	-6.14
	5270	54	AVG	MCS4	18.43	23.98	-5.55
	5310	62	AVG	MCS2	12.70	23.98	-11.28
	5510	102	AVG	MCS4	11.61	23.98	-12.37
	5550	110	AVG	MCS2	17.52	23.98	-6.46
	5590	118	AVG	MCS4	18.41	23.98	-5.57
	5670	134	AVG	MCS2	15.25	23.98	-8.73
	5710	142	AVG	MCS4	18.40	23.98	-5.58
	5755	151	AVG	MCS4	18.01	30.00	-11.99
	5795	159	AVG	MCS2	18.25	30.00	-11.75

Table 7-30. FCC Antenna 1 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	MCS2	12.26	23.98	-11.72
	5290	58	AVG	MCS2	12.34	23.98	-11.64
	5530	106	AVG	MCS2	11.17	23.98	-12.81
	5610	122	AVG	MCS2	17.31	23.98	-6.67
	5690	138	AVG	MCS4	18.05	23.98	-5.93
	5775	155	AVG	MCS2	16.60	30.00	-13.40

Table 7-31. FCC Antenna 1 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5210	42	AVG	MCS2	11.92	23.98	-12.06
	5290	58	AVG	MCS2	11.25	23.98	-12.73
	5530	106	AVG	MCS2	10.83	23.98	-13.15
	5610	122	AVG	MCS2	16.98	23.98	-7.00
	5690	138	AVG	MCS2	18.35	23.98	-5.63
	5775	155	AVG	MCS2	15.72	30.00	-14.28

Table 7-32. FCC Antenna 1 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5250	50	AVG	MCS4	12.38	23.98	-11.60
	5570	114	AVG	MCS4	10.82	23.98	-13.16

Table 7-33. FCC Antenna 1 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]
	5250	50	AVG	MCS2	11.98	23.98	-12.00
	5570	114	AVG	MCS2	11.00	23.98	-12.98

Table 7-34. FCC Antenna 1 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 50 of 178

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7.4.4 ISED Antenna 1 Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	AVG	12Mbps	17.45	-	-	0.90	18.35	23.01	-4.66
	5200	40	AVG	24Mbps	18.87	-	-	0.90	19.77	23.01	-3.24
	5240	48	AVG	24Mbps	18.84	-	-	0.90	19.74	23.01	-3.27
	5260	52	AVG	12Mbps	19.38	23.98	-4.60	1.27	20.65	30.00	-9.35
	5300	60	AVG	12Mbps	19.24	23.98	-4.74	1.27	20.51	30.00	-9.49
	5320	64	AVG	12Mbps	17.16	23.98	-6.80	1.27	18.43	30.00	-11.57
	5500	100	AVG	12Mbps	17.03	23.98	-6.95	2.01	19.04	30.00	-10.96
	5520	104	AVG	12Mbps	18.05	23.98	-5.50	2.01	20.06	30.00	-9.94
	5540	108	AVG	12Mbps	19.05	23.98	-4.93	2.01	21.06	30.00	-8.94
	5580	116	AVG	12Mbps	19.31	23.98	-4.67	2.01	21.32	30.00	-8.68
	5660	132	AVG	12Mbps	19.00	23.98	-4.98	2.01	21.01	30.00	-8.99
	5680	136	AVG	12Mbps	18.18	23.98	-5.78	2.01	20.19	30.00	-9.81
	5700	140	AVG	12Mbps	13.55	23.98	-10.43	2.01	15.56	30.00	-14.44
	5720	144	AVG	12Mbps	19.36	23.98	-4.62	2.01	21.37	30.00	-8.63
	5745	149	AVG	12Mbps	19.40	30.00	-10.60	3.03	22.43	-	-
	5785	157	AVG	12Mbps	19.05	30.00	-10.95	3.03	22.08	-	-
	5825	165	AVG	12Mbps	19.39	30.00	-10.61	3.03	22.42	-	-

Table 7-35. ISED Antenna 1 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	AVG	MCS2	17.42	-	-	0.90	18.32	23.01	-4.69
	5200	40	AVG	MCS4	17.63	-	-	0.90	18.53	23.01	-4.48
	5240	48	AVG	MCS4	17.81	-	-	0.90	18.71	23.01	-4.30
	5260	52	AVG	MCS2	18.37	23.98	-4.60	1.27	19.64	30.00	-10.36
	5300	60	AVG	MCS2	18.46	23.98	-4.74	1.27	19.73	30.00	-10.27
	5320	64	AVG	MCS2	17.18	23.98	-6.80	1.27	18.45	30.00	-11.55
	5500	100	AVG	MCS2	17.03	23.98	-6.95	2.01	19.04	30.00	-10.96
	5520	104	AVG	MCS2	18.48	23.98	-5.50	2.01	20.49	30.00	-9.51
	5580	116	AVG	MCS2	18.31	23.98	-4.67	2.01	20.32	30.00	-9.68
	5680	136	AVG	MCS2	18.20	23.98	-5.78	2.01	20.21	30.00	-9.79
	5700	140	AVG	MCS2	13.54	23.98	-10.43	2.01	15.55	30.00	-14.45
	5720	144	AVG	MCS2	18.31	23.98	-4.62	2.01	20.32	30.00	-9.68
	5745	149	AVG	MCS2	18.34	30.00	-10.60	3.03	21.37	-	-
	5785	157	AVG	MCS2	18.10	30.00	-10.95	3.03	21.13	-	-
	5825	165	AVG	MCS2	18.41	30.00	-10.61	3.03	21.44	-	-

Table 7-36. ISED Antenna 1 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5180	36	AVG	MCS4	16.18	-	-	0.90	17.08	23.01	-5.93
	5200	40	AVG	MCS4	17.92	-	-	0.90	18.82	23.01	-4.19
	5240	48	AVG	MCS4	17.91	-	-	0.90	18.81	23.01	-4.20
	5260	52	AVG	MCS2	18.49	23.98	-4.60	1.27	19.76	30.00	-10.24
	5300	60	AVG	MCS2	18.41	23.98	-4.74	1.27	19.68	30.00	-10.32
	5320	64	AVG	MCS2	16.92	23.98	-6.80	1.27	18.19	30.00	-11.81
	5500	100	AVG	MCS2	15.65	23.98	-6.95	2.01	17.66	30.00	-12.34
	5520	104	AVG	MCS2	16.76	23.98	-5.50	2.01	18.77	30.00	-11.23
	5540	108	AVG	MCS2	18.08	23.98	-4.93	2.01	20.09	30.00	-9.91
	5580	116	AVG	MCS2	18.45	23.98	-4.67	2.01	20.46	30.00	-9.54
	5640	128	AVG	MCS2	18.31	23.98	-5.67	2.01	20.32	30.00	-9.69
	5660	132	AVG	MCS2	17.98	23.98	-4.98	2.01	19.99	30.00	-10.01
	5680	136	AVG	MCS2	17.82	23.98	-5.78	2.01	19.83	30.00	-10.17
	5700	140	AVG	MCS2	12.64	23.98	-10.43	2.01	14.65	30.00	-15.35
	5720	144	AVG	MCS2	18.42	23.98	-4.62	2.01	20.43	30.00	-9.57
	5745	149	AVG	MCS2	18.37	30.00	-10.60	3.03	21.40	-	-
	5785	157	AVG	MCS2	18.41	30.00	-10.95	3.03	21.44	-	-
	5825	165	AVG	MCS2	18.49	30.00	-10.61	3.03	21.52	-	-

Table 7-37. ISED Antenna 1 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 51 of 178

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	AVG	MCS2	13.73	-	-	0.90	14.63	23.01	-8.38
	5230	46	AVG	MCS2	17.99	-	-	0.90	18.89	23.01	-4.12
	5270	54	AVG	MCS2	18.37	23.98	-5.55	1.27	19.64	30.00	-10.36
	5310	62	AVG	MCS2	13.99	23.98	-9.99	1.27	15.26	30.00	-14.74
	5510	102	AVG	MCS2	13.44	23.98	-10.54	2.01	15.45	30.00	-14.55
	5550	110	AVG	MCS2	17.69	23.98	-6.29	2.01	19.70	30.00	-10.30
	5590	118	AVG	MCS2	18.04	23.98	-5.64	2.01	20.05	30.00	-9.95
	5630	126	AVG	MCS2	17.48	23.98	-6.50	2.01	19.49	-	-
	5670	134	AVG	MCS2	16.65	23.98	-7.33	2.01	18.66	30.00	-11.34
	5710	142	AVG	MCS2	18.14	23.98	-5.60	2.01	20.15	30.00	-9.85
	5755	151	AVG	MCS2	18.29	30.00	-11.71	3.03	21.32	-	-
	5795	159	AVG	MCS2	18.43	30.00	-11.57	3.03	21.46	-	-

Table 7-38. ISED Antenna 1 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5190	38	AVG	MCS2	12.41	-	-	0.90	13.31	23.01	-9.70
	5230	46	AVG	MCS4	17.84	-	-	0.90	18.74	23.01	-4.27
	5270	54	AVG	MCS2	18.43	23.98	-5.55	1.27	19.70	30.00	-10.30
	5310	62	AVG	MCS2	12.70	23.98	-9.99	1.27	13.97	30.00	-16.03
	5510	102	AVG	MCS2	11.61	23.98	-10.54	2.01	13.62	30.00	-16.38
	5550	110	AVG	MCS2	17.52	23.98	-6.29	2.01	19.53	30.00	-10.47
	5590	118	AVG	MCS2	18.41	23.98	-5.57	2.01	20.42	30.00	-9.58
	5670	134	AVG	MCS2	15.25	23.98	-7.33	2.01	17.26	30.00	-12.74
	5710	142	AVG	MCS2	18.40	23.98	-5.58	2.01	20.41	30.00	-9.59
	5755	151	AVG	MCS2	18.01	30.00	-11.71	3.03	21.04	-	-
	5795	159	AVG	MCS2	18.25	30.00	-11.57	3.03	21.28	-	-

Table 7-39. ISED Antenna 1 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	AVG	MCS2	12.26	-	-	0.90	13.16	23.01	-9.85
	5290	58	AVG	MCS2	12.34	23.98	-11.64	1.27	13.61	30.00	-16.39
	5530	106	AVG	MCS2	11.17	23.98	-12.81	2.01	13.18	30.00	-16.82
	5610	122	AVG	MCS2	17.31	23.98	-6.67	2.01	19.32	30.00	-10.69
	5690	138	AVG	MCS2	18.05	23.98	-5.93	2.01	20.06	30.00	-9.94
	5775	155	AVG	MCS2	16.60	30.00	-13.40	3.03	19.63	-	-

Table 7-40. ISED Antenna 1 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5210	42	AVG	MCS2	11.92	-	-	0.90	12.82	23.01	-10.19
	5290	58	AVG	MCS2	11.25	23.98	-11.64	1.27	12.52	30.00	-17.48
	5530	106	AVG	MCS2	10.83	23.98	-12.81	2.01	12.84	30.00	-17.16
	5610	122	AVG	MCS2	16.98	23.98	-6.67	2.01	18.99	30.00	-11.01
	5690	138	AVG	MCS2	18.35	23.98	-5.93	2.01	20.36	30.00	-9.64
	5775	155	AVG	MCS2	15.72	30.00	-13.40	3.03	18.75	-	-

Table 7-41. ISED Antenna 1 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]
	5250	50	AVG	MCS4	12.38	23.98	-11.60	0.90	13.28	23.01
	5570	114	AVG	MCS2	10.82	23.98	-13.16	2.01	12.83	30.00

Table 7-42. ISED Antenna 1 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Detector	Data Rate	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
	5250	50	AVG	MCS2	11.98	23.98	-12.00	0.90	12.88	23.01	-10.13
	5570	114	AVG	MCS2	11.00	23.98	-12.98	2.01	13.01	30.00	-16.99

Table 7-43. ISED Antenna 1 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 52 of 178

7.4.5 FCC CDD Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
						Antenna 0	Antenna 1	Summed		
	5180	36	CDD	AVG	MCS2	16.76	16.99	19.89	23.98	-4.09
	5200	40	CDD	AVG	MCS2	17.35	17.30	20.34	23.98	-3.64
	5240	48	CDD	AVG	MCS2	17.24	17.36	20.31	23.98	-3.67
	5260	52	CDD	AVG	MCS4	17.33	17.37	20.36	23.98	-3.62
	5300	60	CDD	AVG	MCS2	17.29	17.19	20.25	23.98	-3.73
	5320	64	CDD	AVG	MCS2	16.77	16.80	19.79	23.98	-4.19
	5500	100	CDD	AVG	MCS2	17.00	16.89	19.95	23.98	-4.03
	5520	104	CDD	AVG	MCS4	17.33	17.29	20.32	23.98	-3.66
	5580	116	CDD	AVG	MCS4	17.45	17.28	20.38	23.98	-3.60
	5680	136	CDD	AVG	MCS2	17.45	17.05	20.26	23.98	-3.72
	5700	140	CDD	AVG	MCS2	13.19	13.01	16.11	23.98	-7.87
	5720	144	CDD	AVG	MCS4	17.35	17.25	20.31	23.98	-3.67
	5745	149	CDD	AVG	MCS4	18.47	18.43	21.46	30.00	-8.54
	5785	157	CDD	AVG	MCS4	18.49	18.18	21.34	30.00	-8.66
	5825	165	CDD	AVG	MCS2	18.38	18.29	21.35	30.00	-8.65

Table 7-44. FCC CDD 20MHz BW 802.11n (UNII) Maximum Conducted Output Power

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
						Antenna 0	Antenna 1	Summed		
	5180	36	CDD	AVG	MCS2	15.98	15.64	18.82	23.98	-5.16
	5200	40	CDD	AVG	MCS4	17.87	17.77	20.83	23.98	-3.15
	5240	48	CDD	AVG	MCS2	17.96	17.99	20.98	23.98	-3.00
	5260	52	CDD	AVG	MCS2	17.97	17.55	20.78	23.98	-3.20
	5300	60	CDD	AVG	MCS2	17.99	17.97	20.99	23.98	-2.99
	5320	64	CDD	AVG	MCS2	16.00	16.45	19.24	23.98	-4.74
	5500	100	CDD	AVG	MCS2	15.13	15.24	18.20	23.98	-5.78
	5520	104	CDD	AVG	MCS2	16.84	16.64	19.75	23.98	-4.23
	5540	108	CDD	AVG	MCS4	17.97	17.68	20.84	23.98	-3.14
	5580	116	CDD	AVG	MCS2	17.67	17.97	20.83	23.98	-3.15
	5660	132	CDD	AVG	MCS2	17.70	17.54	20.63	23.98	-3.35
	5680	136	CDD	AVG	MCS4	17.43	17.30	20.37	23.98	-3.61
	5700	140	CDD	AVG	MCS2	12.48	12.16	15.33	23.98	-8.65
	5720	144	CDD	AVG	MCS4	17.71	17.94	20.84	23.98	-3.14
	5745	149	CDD	AVG	MCS4	18.07	18.43	21.26	30.00	-8.74
	5785	157	CDD	AVG	MCS2	18.27	18.44	21.36	30.00	-8.64
	5825	165	CDD	AVG	MCS2	18.15	18.48	21.33	30.00	-8.67

Table 7-45. FCC CDD 20MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
						Antenna 0	Antenna 1	Summed		
	5190	38	CDD	AVG	MCS2	12.25	13.41	15.88	23.98	-8.10
	5230	46	CDD	AVG	MCS2	17.53	17.65	20.60	23.98	-3.38
	5270	54	CDD	AVG	MCS2	18.13	18.33	21.24	23.98	-2.74
	5310	62	CDD	AVG	MCS2	13.09	13.10	16.11	23.98	-7.87
	5510	102	CDD	AVG	MCS4	12.86	12.99	15.93	23.98	-8.05
	5550	110	CDD	AVG	MCS2	17.21	17.27	20.25	23.98	-3.73
	5590	118	CDD	AVG	MCS2	18.27	18.04	21.16	23.98	-2.82
	5630	126	CDD	AVG	MCS4	16.90	16.74	19.83	23.98	-4.15
	5670	134	CDD	AVG	MCS4	16.15	16.35	19.26	23.98	-4.72
	5710	142	CDD	AVG	MCS4	18.50	18.11	21.32	23.98	-2.66
	5755	151	CDD	AVG	MCS2	18.31	18.35	21.34	30.00	-8.66
	5795	159	CDD	AVG	MCS2	18.22	18.47	21.36	30.00	-8.64

Table 7-46. FCC CDD 40MHz BW 802.11n (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 53 of 178

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
						Antenna 0	Antenna 1	Summed		
	5190	38	CDD	AVG	MCS4	11.97	11.80	14.90	23.98	-9.08
	5230	46	CDD	AVG	MCS4	17.82	17.89	20.87	23.98	-3.11
	5270	54	CDD	AVG	MCS2	17.88	17.98	20.94	23.98	-3.04
	5310	62	CDD	AVG	MCS2	12.34	12.29	15.32	23.98	-8.66
	5510	102	CDD	AVG	MCS4	11.37	11.28	14.33	23.98	-9.65
	5550	110	CDD	AVG	MCS2	17.41	17.05	20.24	23.98	-3.74
	5590	118	CDD	AVG	MCS4	18.50	18.25	21.38	23.98	-2.60
	5630	126	CDD	AVG	MCS2	16.87	16.58	19.74	23.98	-4.24
	5670	134	CDD	AVG	MCS2	14.67	14.68	17.68	23.98	-6.30
	5710	142	CDD	AVG	MCS2	18.32	18.35	21.34	23.98	-2.64
	5755	151	CDD	AVG	MCS4	18.41	18.08	21.26	30.00	-8.74
	5795	159	CDD	AVG	MCS4	18.48	18.19	21.35	30.00	-8.65

Table 7-47. FCC CDD 40MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
						Antenna 0	Antenna 1	Summed		
	5210	42	CDD	AVG	MCS2	11.66	11.80	14.74	23.98	-9.24
	5290	58	CDD	AVG	MCS2	11.74	11.58	14.68	23.98	-9.30
	5530	106	CDD	AVG	MCS4	10.81	10.68	13.76	23.98	-10.22
	5610	122	CDD	AVG	MCS4	17.48	17.35	20.43	23.98	-3.55
	5690	138	CDD	AVG	MCS2	18.48	18.14	21.32	23.98	-2.66
	5775	155	CDD	AVG	MCS2	16.50	16.07	19.30	30.00	-10.70

Table 7-48. FCC CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
						Antenna 0	Antenna 1	Summed		
	5210	42	CDD	AVG	MCS2	11.39	11.09	14.25	23.98	-9.73
	5290	58	CDD	AVG	MCS2	10.17	10.80	13.51	23.98	-10.47
	5530	106	CDD	AVG	MCS2	9.96	9.98	12.98	23.98	-11.00
	5610	122	CDD	AVG	MCS4	16.20	16.49	19.36	23.98	-4.62
	5690	138	CDD	AVG	MCS4	18.29	18.31	21.31	23.98	-2.67
	5775	155	CDD	AVG	MCS2	15.29	15.41	18.36	30.00	-11.64

Table 7-49. FCC CDD 80MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
						Antenna 0	Antenna 1	Summed		
	5250	50	CDD	AVG	MCS2	11.67	11.72	14.71	23.98	-9.27
	5570	114	CDD	AVG	MCS2	9.98	9.92	12.96	23.98	-11.02

Table 7-50. FCC CDD 160MHz BW 802.11ac (UNII) Maximum Conducted Output Power

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
						Antenna 0	Antenna 1	Summed		
	5250	50	CDD	AVG	MCS4	11.44	11.47	14.46	23.98	-9.52
	5570	114	CDD	AVG	MCS2	10.18	10.33	13.26	23.98	-10.72

Table 7-51. FCC CDD 160MHz BW 802.11ax (SU) (UNII) Maximum Conducted Output Power

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 54 of 178

7.4.6 ISED CDD/SDM Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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						
	5180	36	SDM	AVG	MCS4	14.76	14.65	17.72	-	-	1.00	18.72	23.01	-4.29
	5200	40	SDM	AVG	MCS4	14.94	14.69	17.83	-	-	1.00	18.83	23.01	-4.18
	5240	48	SDM	AVG	MCS2	14.97	14.94	17.97	-	-	1.00	18.97	23.01	-4.04
	5260	52	CDD	AVG	MCS2	17.33	17.37	20.36	23.98	-3.62	1.35	21.71	30.00	-8.29
	5300	60	CDD	AVG	MCS2	17.29	17.19	20.25	23.98	-3.73	1.35	21.60	30.00	-8.40
	5320	64	CDD	AVG	MCS2	16.77	16.80	19.80	23.98	-4.18	1.35	21.15	30.00	-8.85
	5500	100	CDD	AVG	MCS2	17.00	16.89	19.96	23.98	-4.02	2.50	22.46	30.00	-7.54
	5520	104	CDD	AVG	MCS2	17.33	17.29	20.32	23.98	-3.66	2.50	22.82	30.00	-7.18
	5580	116	CDD	AVG	MCS2	17.45	17.28	20.38	23.98	-3.60	2.50	22.88	30.00	-7.12
	5680	136	CDD	AVG	MCS2	17.45	17.05	20.26	23.98	-3.72	2.50	22.76	30.00	-7.24
	5700	140	CDD	AVG	MCS2	13.19	13.01	16.11	23.98	-7.87	2.50	18.61	30.00	-11.39
	5720	144	CDD	AVG	MCS2	17.35	17.25	20.31	23.98	-3.67	2.50	22.81	30.00	-7.19
	5745	149	CDD	AVG	MCS2	18.47	18.43	21.46	30.00	-8.54	3.03	24.49	-	-
	5785	157	CDD	AVG	MCS2	18.49	18.18	21.35	30.00	-8.65	3.03	24.38	-	-
	5825	165	CDD	AVG	MCS2	18.38	18.29	21.35	30.00	-8.65	3.03	24.38	-	-

Table 7-52. ISED SDM 20MHz BW 802.11n (UNII) Low Data Rate Maximum Conducted Output Power and Max EIRP

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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						
	5180	36	SDM	AVG	MCS2	15.47	15.29	18.39	-	-	1.00	19.39	23.01	-3.62
	5200	40	SDM	AVG	MCS4	15.03	15.36	18.21	-	-	1.00	19.21	23.01	-3.80
	5240	48	SDM	AVG	MCS2	15.11	15.20	18.17	-	-	1.00	19.17	23.01	-3.84
	5260	52	CDD	AVG	MCS2	17.97	17.55	20.78	23.98	-3.20	1.35	22.13	30.00	-7.87
	5300	60	CDD	AVG	MCS2	17.99	17.97	20.99	23.98	-2.99	1.35	22.34	30.00	-7.66
	5320	64	CDD	AVG	MCS2	16.00	16.45	19.24	23.98	-4.74	1.35	20.59	30.00	-9.41
	5500	100	CDD	AVG	MCS2	15.13	15.24	18.20	23.98	-5.78	2.50	20.70	30.00	-9.30
	5520	104	CDD	AVG	MCS2	16.84	16.64	19.75	23.98	-4.23	2.50	22.25	30.00	-7.75
	5580	116	CDD	AVG	MCS2	17.67	17.97	20.83	23.98	-3.15	2.50	23.33	30.00	-6.67
	5680	136	CDD	AVG	MCS2	17.29	17.19	20.25	23.98	-3.73	2.50	22.75	30.00	-7.25
	5700	140	CDD	AVG	MCS2	12.48	12.16	15.33	23.98	-8.65	2.50	17.83	30.00	-12.17
	5720	144	CDD	AVG	MCS2	17.97	17.44	20.72	23.98	-3.26	2.50	23.22	30.00	-6.78
	5745	149	CDD	AVG	MCS2	18.23	17.97	21.11	30.00	-8.89	3.03	24.14	-	-
	5785	157	CDD	AVG	MCS2	18.27	18.44	21.36	30.00	-8.64	3.03	24.39	-	-
	5825	165	CDD	AVG	MCS2	18.15	18.48	21.33	30.00	-8.67	3.03	24.36	-	-

Table 7-53. ISED SDM 20MHz BW 802.11ax (UNII) Low Data Rate Maximum Conducted Output Power and Max EIRP

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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						
	5190	38	SDM	AVG	MCS2	12.66	12.96	15.82	-	-	1.00	16.82	23.01	-6.19
	5230	46	SDM	AVG	MCS2	17.30	17.45	20.39	-	-	1.00	21.39	23.01	-1.62
	5270	54	CDD	AVG	MCS2	18.13	18.33	21.24	23.98	-2.74	1.35	22.59	30.00	-7.41
	5310	62	CDD	AVG	MCS2	13.09	13.10	16.11	23.98	-7.87	1.35	17.46	30.00	-12.54
	5510	102	CDD	AVG	MCS2	12.86	12.99	15.93	23.98	-8.05	2.50	18.43	30.00	-11.57
	5550	110	CDD	AVG	MCS2	17.21	17.27	20.25	23.98	-3.73	2.50	22.75	30.00	-7.25
	5590	118	CDD	AVG	MCS2	18.27	18.04	21.16	23.98	-2.82	2.50	23.66	30.00	-6.34
	5630	126	CDD	AVG	MCS2	16.90	16.74	19.83	23.98	-4.15	2.50	22.33	30.00	-7.67
	5670	134	CDD	AVG	MCS2	16.15	16.35	19.26	23.98	-4.72	2.50	21.76	30.00	-8.24
	5710	142	CDD	AVG	MCS2	18.50	18.11	21.32	23.98	-2.66	2.50	23.82	30.00	-6.18
	5755	151	CDD	AVG	MCS2	18.31	18.35	21.34	30.00	-8.66	2.76	24.10	-	-
	5795	159	CDD	AVG	MCS2	18.22	18.47	21.36	30.00	-8.64	2.76	24.12	-	-

Table 7-54. ISED SDM 40MHz BW 802.11n (UNII) Low Data Rate Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 55 of 178

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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						
	5190	38	SDM	AVG	MCS4	11.98	11.91	14.96	-	-	1.00	15.96	23.01	-7.05
	5230	46	SDM	AVG	MCS4	17.46	17.46	20.47	-	-	1.00	21.47	23.01	-1.54
	5270	54	CDD	AVG	MCS2	17.88	17.98	20.94	23.98	-3.04	1.35	22.29	30.00	-7.71
	5310	62	CDD	AVG	MCS2	12.34	12.29	15.32	23.98	-8.66	1.35	16.67	30.00	-13.33
	5510	102	CDD	AVG	MCS2	11.37	11.28	14.33	23.98	-9.65	2.50	16.83	30.00	-13.17
	5550	110	CDD	AVG	MCS2	17.41	17.05	20.24	23.98	-3.74	2.50	22.74	30.00	-7.26
	5590	118	CDD	AVG	MCS2	18.50	18.25	21.38	23.98	-2.60	2.50	23.88	30.00	-6.12
	5630	126	CDD	AVG	MCS2	16.87	16.58	19.74	23.98	-4.24	2.50	22.24	30.00	-7.76
	5670	134	CDD	AVG	MCS2	14.67	14.68	17.68	23.98	-6.30	2.50	20.18	30.00	-9.82
	5710	142	CDD	AVG	MCS2	18.32	18.35	21.34	23.98	-2.64	2.50	23.84	30.00	-6.16
	5755	151	CDD	AVG	MCS2	18.41	18.08	21.26	30.00	-8.74	2.76	24.02	-	-
	5795	159	CDD	AVG	MCS2	18.48	18.19	21.35	30.00	-8.65	2.76	24.11	-	-

Table 7-55. ISED SDM 40MHz BW 802.11ax (UNII) Low Data Rate Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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						
	5210	42	SDM	AVG	MCS2	11.76	11.65	14.71	-	-	1.00	15.71	23.01	-7.30
	5290	58	CDD	AVG	MCS2	11.74	11.58	14.68	23.98	-9.30	1.35	16.03	30.00	-13.97
	5530	106	CDD	AVG	MCS2	10.81	10.68	13.76	23.98	-10.22	2.50	16.26	30.00	-13.74
	5610	122	CDD	AVG	MCS2	17.48	17.35	20.43	23.98	-3.55	2.50	22.93	30.00	-7.07
	5690	138	CDD	AVG	MCS2	18.48	18.14	21.32	23.98	-2.66	2.50	23.82	30.00	-6.18
	5775	155	CDD	AVG	MCS2	16.50	16.07	19.30	30.00	-10.70	2.76	22.06	-	-

Table 7-56. ISED SDM 80MHz BW 802.11ac (UNII) Low Data Rate Maximum Conducted Output Power and Max EIRP

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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						
	5210	42	SDM	AVG	MCS2	11.46	11.34	14.41	-	-	1.00	15.41	23.01	-7.60
	5290	58	CDD	AVG	MCS2	10.17	10.80	13.51	23.98	-10.47	1.35	14.86	30.00	-15.14
	5530	106	CDD	AVG	MCS2	9.96	9.98	12.98	23.98	-11.00	2.50	15.48	30.00	-14.52
	5610	122	CDD	AVG	MCS2	16.20	16.49	19.36	23.98	-4.62	2.50	21.86	30.00	-8.14
	5690	138	CDD	AVG	MCS2	18.29	18.31	21.31	23.98	-2.67	2.50	23.81	30.00	-6.19
	5775	155	CDD	AVG	MCS2	15.29	15.41	18.36	30.00	-11.64	2.76	21.12	-	-

Table 7-57. ISED SDM 80MHz BW 802.11ax (UNII) Low Data Rate Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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						
	5250	50	CDD	AVG	MCS2	11.67	11.72	14.71	23.98	-9.27	1.10	15.81	23.01	-7.20
	5570	114	CDD	AVG	MCS2	9.98	9.92	12.96	23.98	-11.02	2.50	15.46	30.00	-14.54

Table 7-58. ISED SDM 160MHz BW 802.11ac (UNII) Low Data Rate Maximum Conducted Output Power and Max EIRP

5GHz (160MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Data Rate	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	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						
	5250	50	CDD	AVG	MCS2	11.41	11.19	14.32	23.98	-9.66	1.10	15.42	23.01	-7.59
	5570	114	CDD	AVG	MCS2	10.18	10.33	13.26	23.98	-10.72	2.50	15.76	30.00	-14.24

Table 7-59. ISED SDM 160MHz BW 802.11ax (UNII) Low Data Rate Maximum Conducted Output Power and Max EIRP

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 56 of 178

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 MIMO 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 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 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 Section 14.6.3, the uncorrelated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

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

Sample MIMO Calculation:

At 5180MHz in 802.11a (20MHz BW) mode, the average conducted output power was measured to be 14.79 dBm for Antenna 0 and 14.89 dBm for Antenna 1.

$$\text{Antenna 0} + \text{Antenna 1} = \text{MIMO}$$

$$(14.79 \text{ dBm} + 14.89 \text{ dBm}) = (30.130 \text{ mW} + 30.832 \text{ mW}) = 60.962 \text{ mW} = 17.85 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11a (20MHz BW) mode, the average MIMO conducted power was calculated to be 17.85 dBm with directional gain of 1.00 dBi.

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

$$17.85 \text{ dBm} + 1.00 \text{ dBi} = 18.85 \text{ dBm}$$

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 57 of 178

V 12.0 03/03/2026

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7.5 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 5.15 – 5.25GHz, 5.25 – 5.35GHz, 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz.

In the 5.15 – 5.25GHz band, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1 MHz band.

In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

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. Set span to encompass the entire 99% OBW of the signal
3. RBW = 1MHz for U-NII 1, U-NII 2A, U-NII 2C; 500kHz for U-NII 3
4. VBW $\geq$ 3MHz for U-NII 1, U-NII 2A, U-NII 2C; $\geq 3 \times$ RBW for U-NII 3
5. Number of sweep points $\geq 2 \times$ (span/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 7-4. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels were investigated, and tabular data has been reported. Only the worst-case plot was 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.

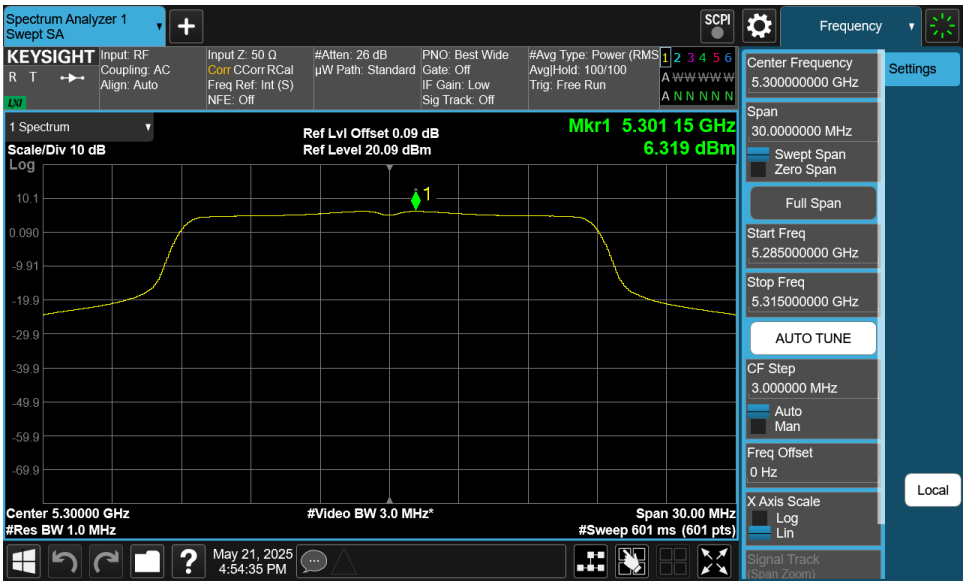
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 58 of 178

7.5.1 Antenna 0 Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	12Mbps	5.39	11.00	-5.61
	5200	40	a	12Mbps	6.95	11.00	-4.05
	5240	48	a	24Mbps	6.51	11.00	-4.49
	5180	36	n (20MHz)	MCS2	5.00	11.00	-6.00
	5200	40	n (20MHz)	MCS2	5.64	11.00	-5.36
	5240	48	n (20MHz)	MCS4	5.20	11.00	-5.80
	5180	36	ax (SU) (20MHz)	MCS2	3.90	11.00	-7.11
	5200	40	ax (SU) (20MHz)	MCS4	4.89	11.00	-6.11
	5240	48	ax (SU) (20MHz)	MCS2	4.77	11.00	-6.23
	5190	38	n (40MHz)	MCS2	-1.05	11.00	-12.05
	5230	46	n (40MHz)	MCS2	2.54	11.00	-8.46
	5190	38	ax (SU) (40MHz)	MCS4	-2.46	11.00	-13.46
	5230	46	ax (SU) (40MHz)	MCS2	2.65	11.00	-8.36
	5210	42	ac (80MHz)	MCS2	-5.60	11.00	-16.60
	5210	42	ax (SU) (80MHz)	MCS2	-5.66	11.00	-16.66
Band 1/2	5250	50	ac (160MHz)	MCS4	-7.94	11.00	-18.94
	5250	50	ax (SU) (160MHz)	MCS4	-8.66	11.00	-19.66
	5260	52	a	12Mbps	8.57	11.00	-2.43
Band 2A	5300	60	a	24Mbps	7.09	11.00	-3.91
	5320	64	a	12Mbps	5.58	11.00	-5.42
	5260	52	n (20MHz)	MCS7	6.04	11.00	-4.97
	5300	60	n (20MHz)	MCS4	6.32	11.00	-4.68
	5320	64	n (20MHz)	MCS2	5.30	11.00	-5.71
	5260	52	ax (SU) (20MHz)	MCS2	5.90	11.00	-5.11
	5300	60	ax (SU) (20MHz)	MCS2	5.97	11.00	-5.03
	5320	64	ax (SU) (20MHz)	MCS2	4.50	11.00	-6.50
	5270	54	n (40MHz)	MCS7	3.46	11.00	-7.54
	5310	62	n (40MHz)	MCS2	-0.69	11.00	-11.69
	5270	54	ax (SU) (40MHz)	MCS2	3.62	11.00	-7.38
	5310	62	ax (SU) (40MHz)	MCS2	-1.80	11.00	-12.80
	5290	58	ac (80MHz)	MCS2	-5.70	11.00	-16.70
	5290	58	ax (SU) (80MHz)	MCS2	-6.43	11.00	-17.43
	5500	100	a	12Mbps	4.76	11.00	-6.25
Band 2C	5580	116	a	24Mbps	7.26	11.00	-3.74
	5720	144	a	54Mbps	6.83	11.00	-4.17
	5500	100	n (20MHz)	MCS2	4.41	11.00	-6.59
	5580	116	n (20MHz)	MCS4	5.94	11.00	-5.07
	5720	144	n (20MHz)	MCS4	5.72	11.00	-5.28
	5500	100	ax (SU) (20MHz)	MCS2	2.63	11.00	-8.37
	5580	116	ax (SU) (20MHz)	MCS2	5.11	11.00	-5.89
	5720	144	ax (SU) (20MHz)	MCS4	5.46	11.00	-5.54
	5510	102	n (40MHz)	MCS2	-1.63	11.00	-12.63
	5550	110	n (40MHz)	MCS2	2.73	11.00	-8.27
	5590	118	n (40MHz)	MCS7	3.27	11.00	-7.73
	5670	134	n (40MHz)	MCS4	1.39	11.00	-9.61
	5710	142	n (40MHz)	MCS2	2.97	11.00	-8.03
	5510	102	ax (SU) (40MHz)	MCS2	-4.24	11.00	-15.24
	5550	110	ax (SU) (40MHz)	MCS2	2.91	11.00	-8.09
	5710	142	ax (SU) (40MHz)	MCS4	3.12	11.00	-7.88
	5530	106	ac (80MHz)	MCS4	-5.85	11.00	-16.85
	5610	122	ac (80MHz)	MCS2	-2.19	11.00	-13.19
	5690	138	ac (80MHz)	MCS2	-1.78	11.00	-12.78
	5530	106	ax (SU) (80MHz)	MCS2	-6.20	11.00	-17.20
	5610	122	ax (SU) (80MHz)	MCS2	-3.39	11.00	-14.39
	5690	138	ax (SU) (80MHz)	MCS2	-1.03	11.00	-12.03
	5570	114	ac (160MHz)	MCS4	-9.07	11.00	-20.07
	5570	114	ax (SU) (160MHz)	MCS4	-8.95	11.00	-19.95

Table 7-60. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 0

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 59 of 178

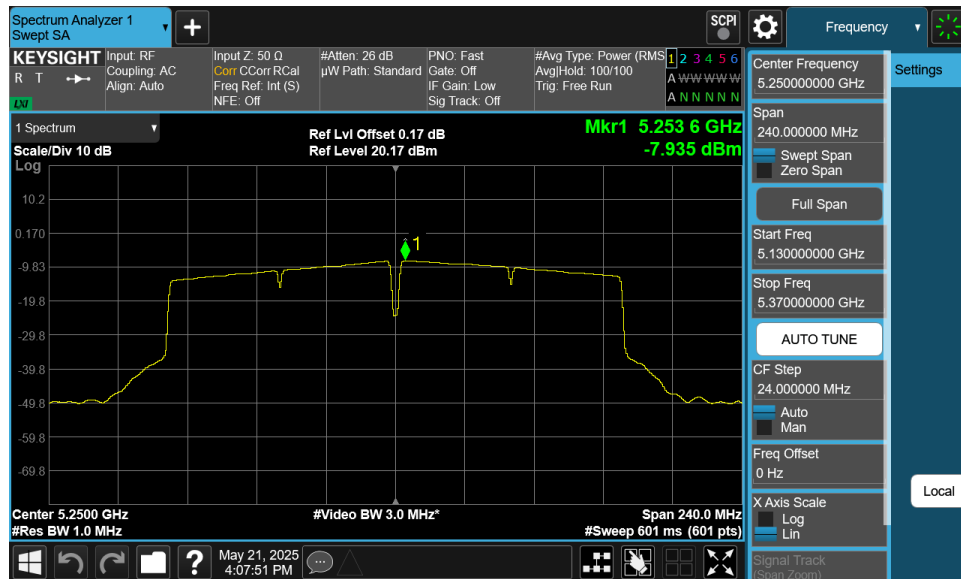
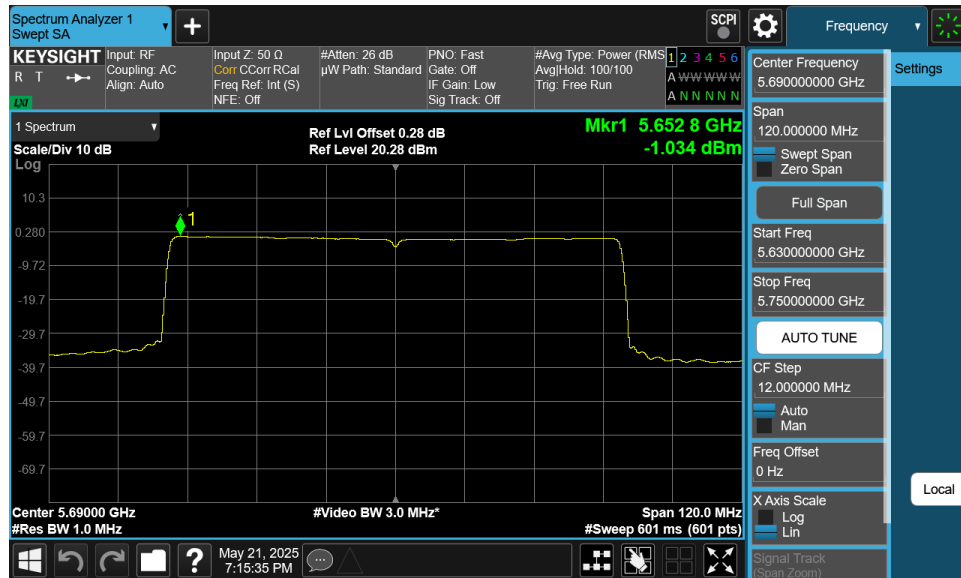


Plot 7-21. PSD Antenna 0 (20MHz BW 802.11n – Ch.60)



Plot 7-22. PSD Antenna 0 (40MHz BW 802.11ax(SU) – Ch. 54)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 60 of 178

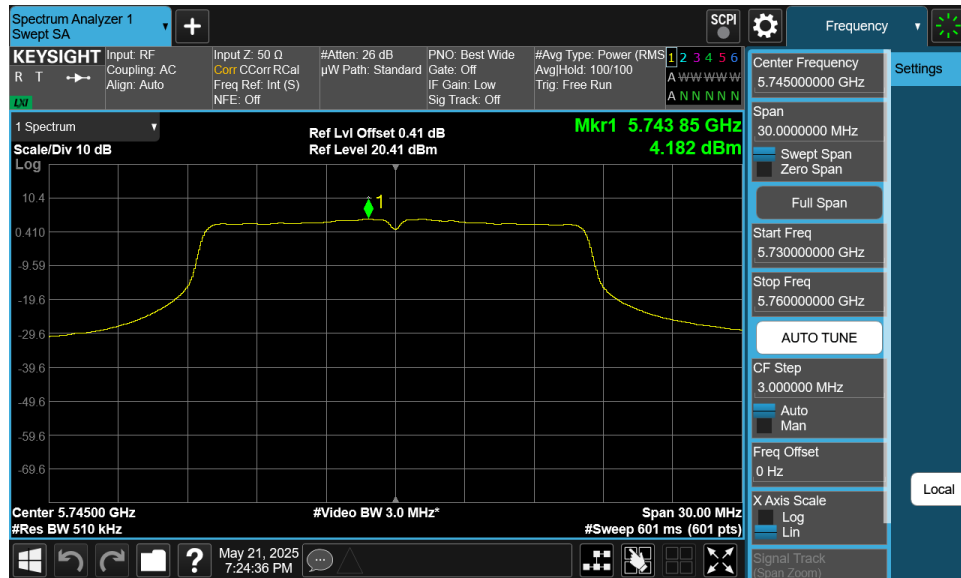


FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 61 of 178

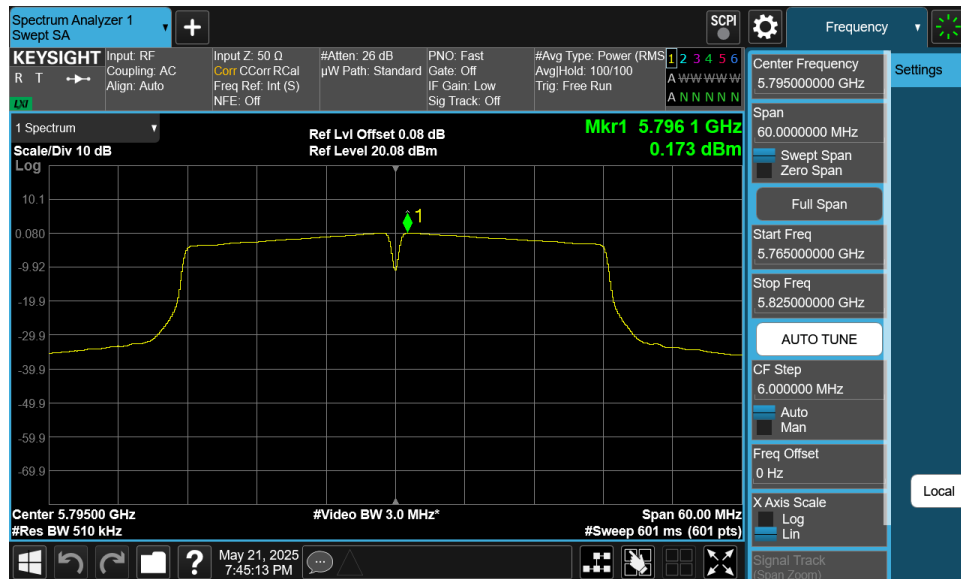
	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	24Mbps	4.18	30.0	-25.8
	5785	157	a	54Mbps	3.89	30.0	-26.1
	5825	165	a	12Mbps	3.67	30.0	-26.3
	5745	149	n (20MHz)	MCS4	3.00	30.0	-27.00
	5785	157	n (20MHz)	MCS4	2.63	30.0	-27.37
	5825	165	n (20MHz)	MCS7	2.35	30.0	-27.65
	5745	149	ax (SU) (20MHz)	MCS4	1.99	30.0	-28.01
	5785	157	ax (SU) (20MHz)	MCS2	2.17	30.0	-27.84
	5825	165	ax (SU) (20MHz)	MCS4	1.52	30.0	-28.48
	5755	151	n (40MHz)	MCS2	0.16	30.0	-29.84
	5795	159	n (40MHz)	MCS2	0.17	30.0	-29.83
	5755	151	ax (SU) (40MHz)	MCS4	-0.28	30.0	-30.28
	5795	159	ax (SU) (40MHz)	MCS2	-0.21	30.0	-30.21
	5775	155	ac (80MHz)	MCS2	-4.81	30.0	-34.81
	5775	155	ax (SU) (80MHz)	MCS2	-5.68	30.0	-35.68

Table 7-61. Band 3 Power Spectral Density Measurements Antenna 0

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 62 of 178

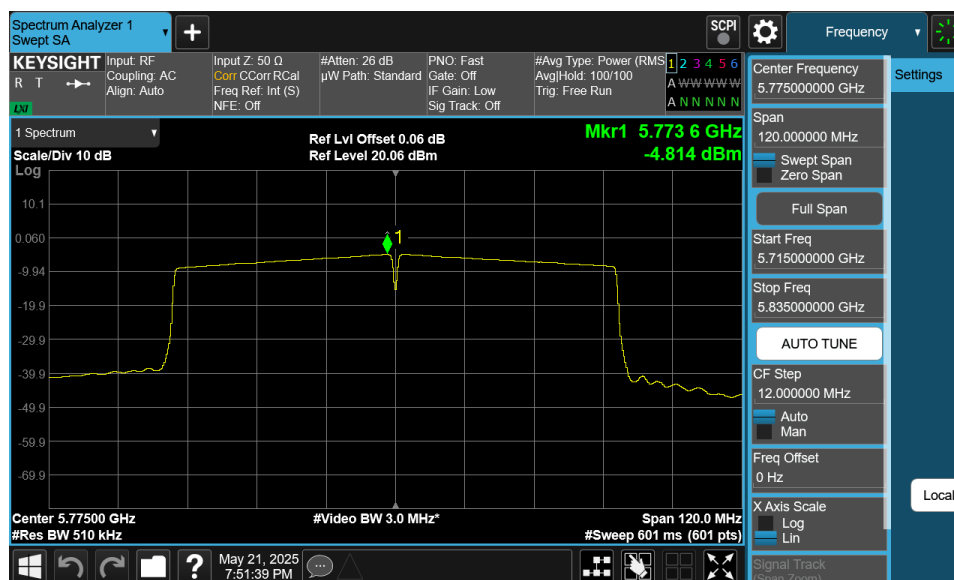


Plot 7-25. PSD Antenna 0 (20MHz BW 802.11a – Ch. 149)



Plot 7-26. PSD Antenna 0 (40MHz BW 802.11n – Ch. 159)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 63 of 178



Plot 7-27. PSD Antenna 0 (80MHz BW 802.11ac – Ch. 155)

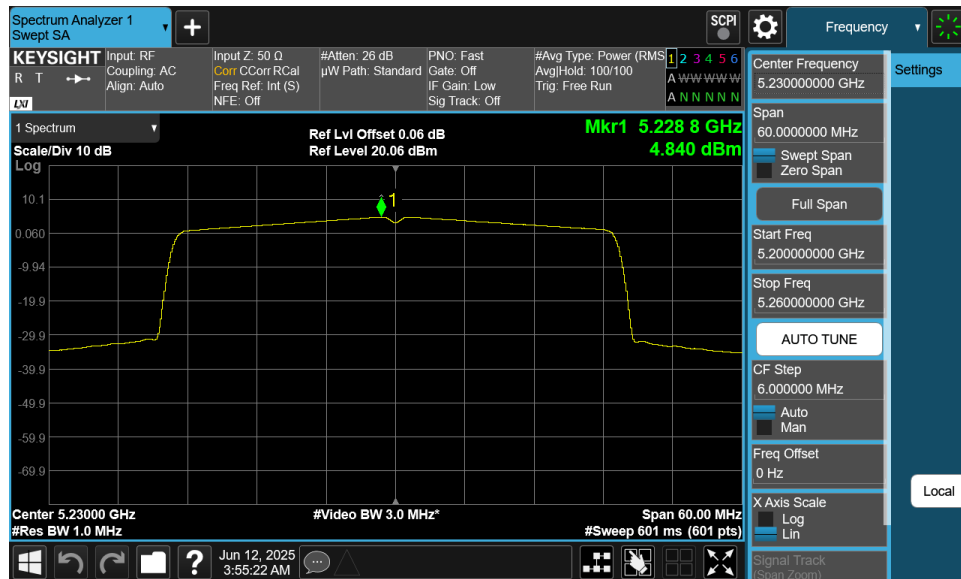
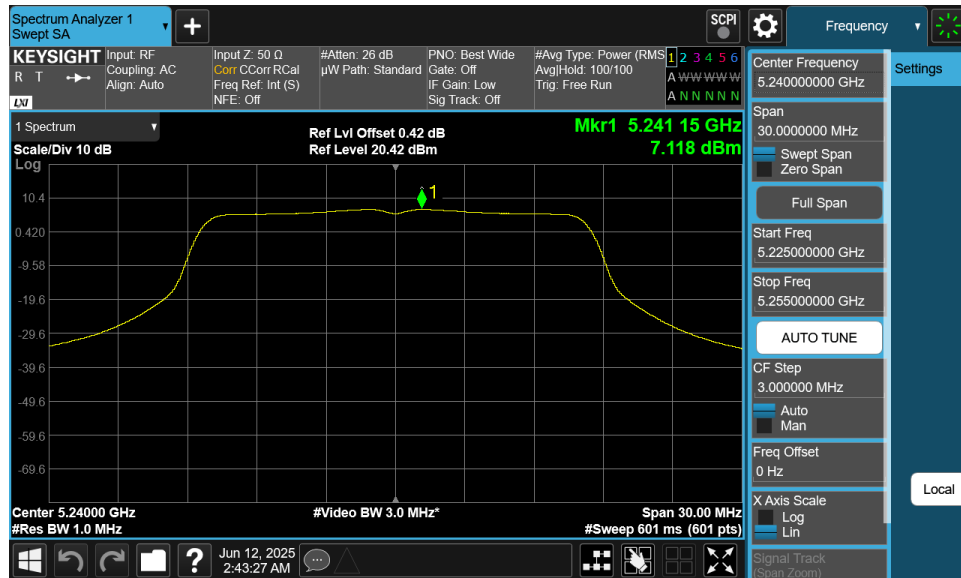
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 64 of 178

V 12.0 03/03/2026

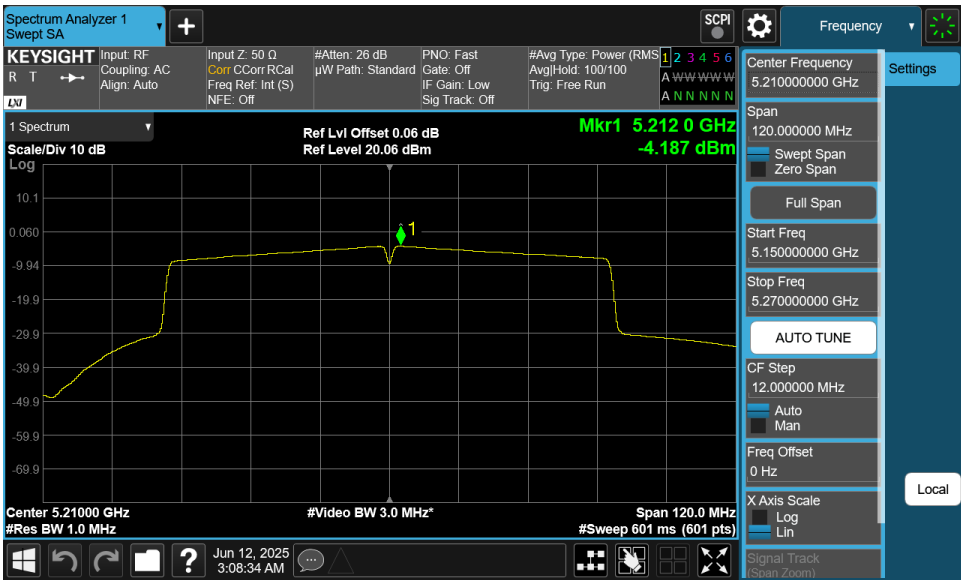
	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	12Mbps	6.50	1.10	7.60	10.0	-2.40
	5200	40	a	24Mbps	6.69	1.10	7.79	10.0	-2.21
	5240	48	a	24Mbps	7.12	1.10	8.22	10.0	-1.78
	5180	36	n (20MHz)	MCS2	6.24	1.10	7.34	10.0	-2.66
	5200	40	n (20MHz)	MCS4	6.94	1.10	8.04	10.0	-1.96
	5240	48	n (20MHz)	MCS7	6.93	1.10	8.03	10.0	-1.97
	5180	36	ax (SU) (20MHz)	MCS4	5.11	1.10	6.21	10.0	-3.79
	5200	40	ax (SU) (20MHz)	MCS4	6.17	1.10	7.27	10.0	-2.73
	5240	48	ax (SU) (20MHz)	MCS4	6.43	1.10	7.53	10.0	-2.47
	5190	38	n (40MHz)	MCS2	0.21	1.10	1.31	10.0	-8.70
	5230	46	n (40MHz)	MCS2	4.80	1.10	5.90	10.0	-4.10
	5190	38	ax (SU) (40MHz)	MCS2	-1.10	1.10	0.00	10.0	-10.00
	5230	46	ax (SU) (40MHz)	MCS4	4.84	1.10	5.94	10.0	-4.06
	5210	42	ac (80MHz)	MCS2	-4.19	1.10	-3.09	10.0	-13.09
	5210	42	ax (SU) (80MHz)	MCS4	-5.00	1.10	-3.90	10.0	-13.90
Band 1/2	5250	50	ac (160MHz)	MCS4	-7.94	1.35	-6.59	10.0	-16.59
	5250	50	ax (SU) (160MHz)	MCS4	-8.66	1.35	-7.31	10.0	-17.31

Table 7-62. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 0

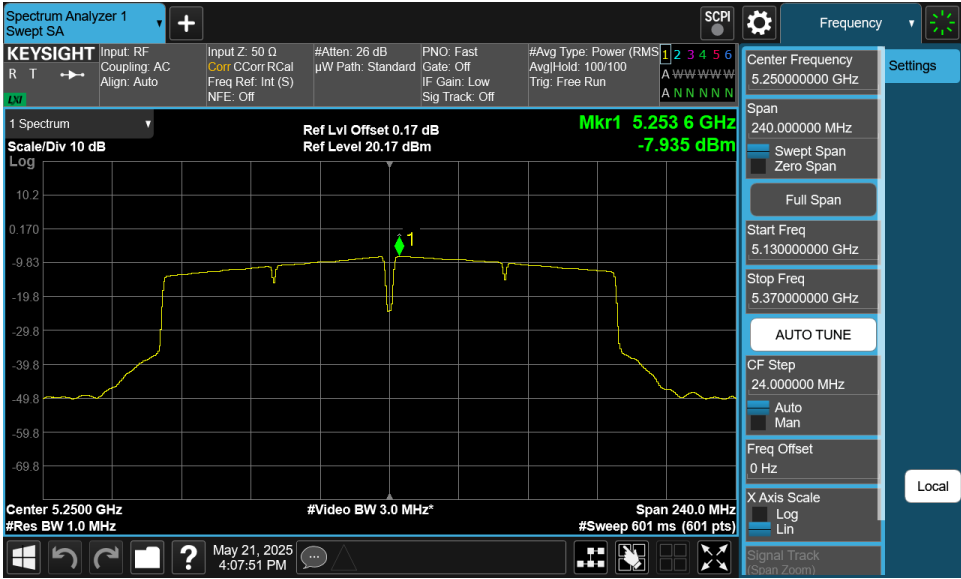
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 65 of 178



FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 66 of 178



Plot 7-30. ISED PSD Antenna 0 (80MHz BW 11ac – Ch.42)



Plot 7-31. ISED PSD Antenna 0 (160MHz BW 11ac – Ch.50)

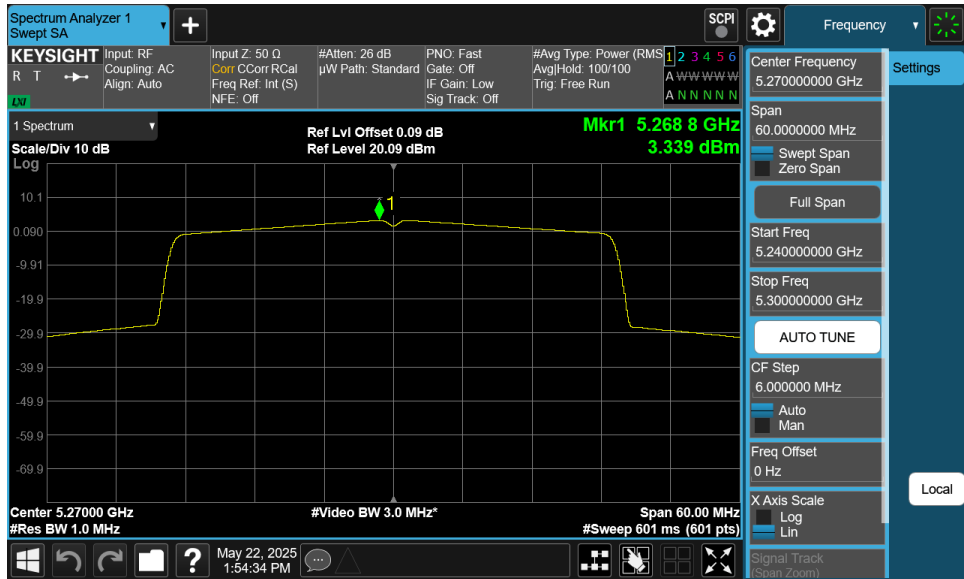
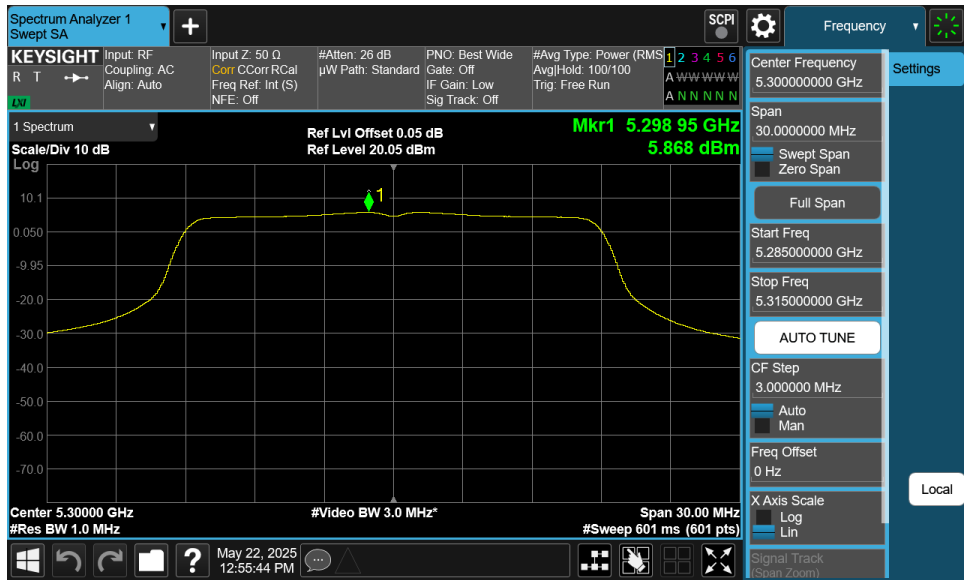
FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 67 of 178

7.5.2 Antenna 1 Power Spectral Density Measurements

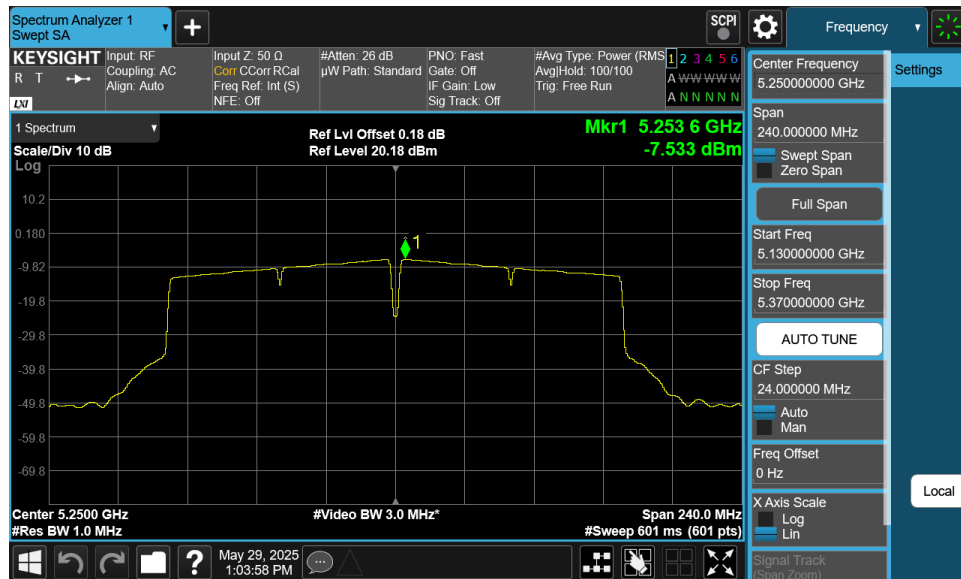
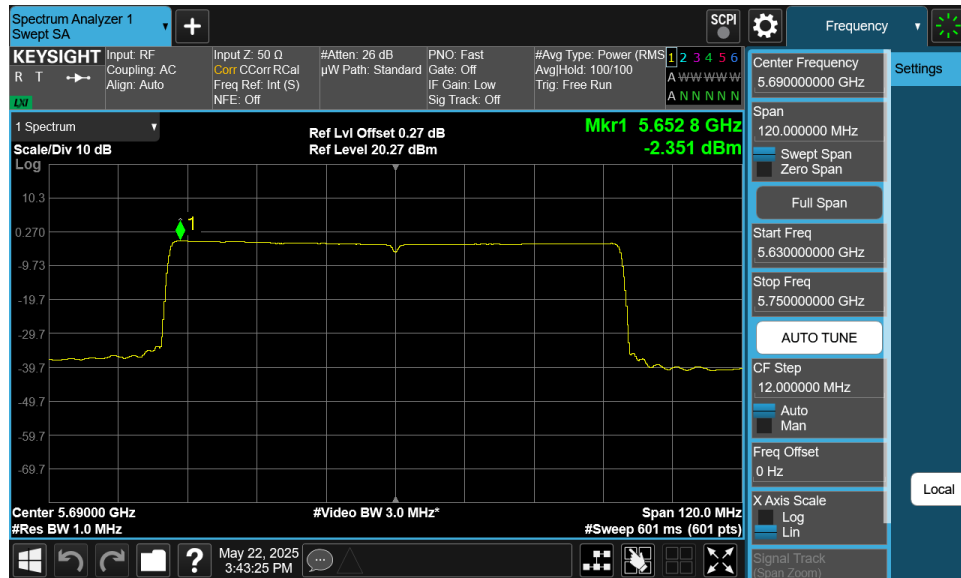
	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	12Mbps	5.06	11.00	-5.94
	5200	40	a	54Mbps	6.42	11.00	-4.58
	5240	48	a	54Mbps	6.40	11.00	-4.60
	5180	36	n (20MHz)	MCS2	4.75	11.00	-6.25
	5200	40	n (20MHz)	MCS4	5.02	11.00	-5.98
	5240	48	n (20MHz)	MCS7	5.00	11.00	-6.00
	5180	36	ax (SU) (20MHz)	MCS4	3.04	11.00	-7.96
	5200	40	ax (SU) (20MHz)	MCS4	4.60	11.00	-6.40
	5240	48	ax (SU) (20MHz)	MCS4	4.86	11.00	-6.14
	5190	38	n (40MHz)	MCS2	-1.33	11.00	-12.33
	5230	46	n (40MHz)	MCS2	2.91	11.00	-8.09
	5190	38	ax (SU) (40MHz)	MCS2	-1.80	11.00	-12.80
	5230	46	ax (SU) (40MHz)	MCS4	2.61	11.00	-8.39
	5210	42	ac (80MHz)	MCS2	-5.03	11.00	-16.03
Band 1/2	5210	42	ax (SU) (80MHz)	MCS2	-5.87	11.00	-16.87
	5250	50	ac (160MHz)	MCS4	-7.53	11.00	-18.53
Band 2A	5250	50	ax (SU) (160MHz)	MCS2	-8.86	11.00	-19.86
	5260	52	a	12Mbps	7.11	11.00	-3.89
	5300	60	a	24Mbps	7.05	11.00	-3.95
	5320	64	a	12Mbps	4.97	11.00	-6.03
	5260	52	n (20MHz)	MCS2	5.79	11.00	-5.21
	5300	60	n (20MHz)	MCS7	5.87	11.00	-5.13
	5320	64	n (20MHz)	MCS2	4.70	11.00	-6.30
	5260	52	ax (SU) (20MHz)	MCS4	5.29	11.00	-5.71
	5300	60	ax (SU) (20MHz)	MCS4	5.44	11.00	-5.56
	5320	64	ax (SU) (20MHz)	MCS2	3.82	11.00	-7.18
	5270	54	n (40MHz)	MCS4	3.15	11.00	-7.85
	5310	62	n (40MHz)	MCS2	-0.96	11.00	-11.96
	5270	54	ax (SU) (40MHz)	MCS4	3.34	11.00	-7.66
	5310	62	ax (SU) (40MHz)	MCS2	-2.41	11.00	-13.41
	5290	58	ac (80MHz)	MCS2	-5.21	11.00	-16.21
	5290	58	ax (SU) (80MHz)	MCS4	-6.48	11.00	-17.48
Band 2C	5500	100	a	12Mbps	5.01	11.00	-5.99
	5580	116	a	54Mbps	6.73	11.00	-4.27
	5720	144	a	54Mbps	6.58	11.00	-4.42
	5500	100	n (20MHz)	MCS2	4.61	11.00	-6.39
	5580	116	n (20MHz)	MCS7	5.34	11.00	-5.66
	5720	144	n (20MHz)	MCS4	5.21	11.00	-5.79
	5500	100	ax (SU) (20MHz)	MCS2	2.64	11.00	-8.36
	5580	116	ax (SU) (20MHz)	MCS4	4.91	11.00	-6.09
	5720	144	ax (SU) (20MHz)	MCS4	4.62	11.00	-6.38
	5510	102	n (40MHz)	MCS4	-1.45	11.00	-12.45
	5550	110	n (40MHz)	MCS2	2.74	11.00	-8.26
	5590	118	n (40MHz)	MCS2	2.63	11.00	-8.37
	5670	134	n (40MHz)	MCS4	0.83	11.00	-10.17
	5710	142	n (40MHz)	MCS2	2.49	11.00	-8.51
	5510	102	ax (SU) (40MHz)	MCS4	-3.28	11.00	-14.28
	5550	110	ax (SU) (40MHz)	MCS2	2.30	11.00	-8.70
	5710	142	ax (SU) (40MHz)	MCS2	2.54	11.00	-8.46
	5530	106	ac (80MHz)	MCS4	-7.15	11.00	-18.15
	5610	122	ac (80MHz)	MCS2	-2.95	11.00	-13.95
	5690	138	ac (80MHz)	MCS2	-2.39	11.00	-13.39
	5530	106	ax (SU) (80MHz)	MCS2	-7.50	11.00	-18.50
	5610	122	ax (SU) (80MHz)	MCS2	-2.91	11.00	-13.91
	5690	138	ax (SU) (80MHz)	MCS2	-2.35	11.00	-13.35
	5570	114	ac (160MHz)	MCS4	-9.61	11.00	-20.61
	5570	114	ax (SU) (160MHz)	MCS4	-9.37	11.00	-20.37

Table 7-63. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 1

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 68 of 178



FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 69 of 178

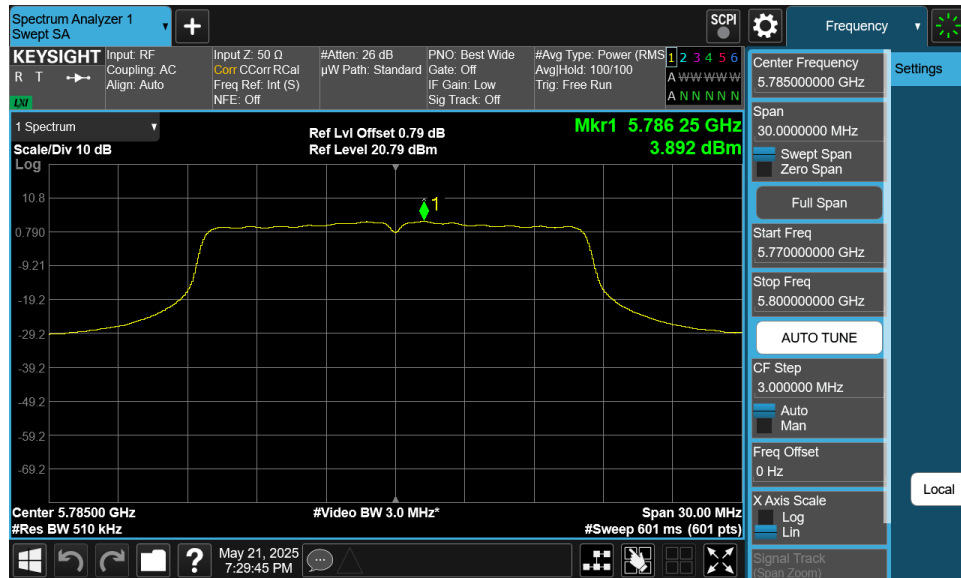


FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 70 of 178

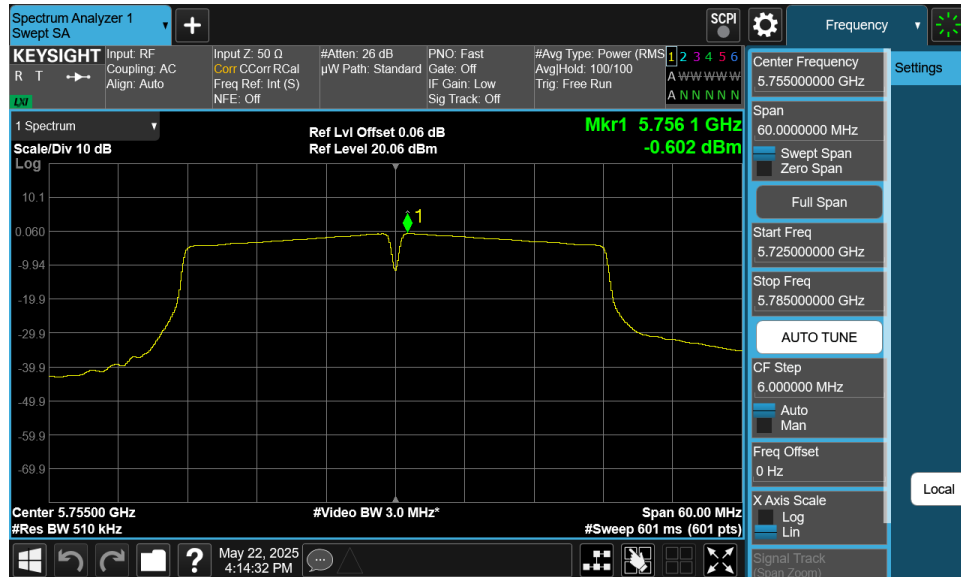
	Frequency [MHz]	Channel	802.11 MODE	Data Rate	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	24Mbps	3.16	30.0	-26.8
	5785	157	a	54Mbps	3.89	30.0	-26.1
	5825	165	a	24Mbps	2.86	30.0	-27.1
	5745	149	n (20MHz)	MCS4	1.76	30.0	-28.24
	5785	157	n (20MHz)	MCS4	1.39	30.0	-28.61
	5825	165	n (20MHz)	MCS4	1.54	30.0	-28.46
	5745	149	ax (SU) (20MHz)	MCS2	1.29	30.0	-28.71
	5785	157	ax (SU) (20MHz)	MCS2	1.09	30.0	-28.91
	5825	165	ax (SU) (20MHz)	MCS2	1.17	30.0	-28.83
	5755	151	n (40MHz)	MCS4	-0.60	30.0	-30.60
	5795	159	n (40MHz)	MCS4	-0.74	30.0	-30.74
	5755	151	ax (SU) (40MHz)	MCS4	-1.14	30.0	-31.14
	5795	159	ax (SU) (40MHz)	MCS4	-1.08	30.0	-31.08
	5775	155	ac (80MHz)	MCS2	-5.82	30.0	-35.82
	5775	155	ax (SU) (80MHz)	MCS2	-6.62	30.0	-36.62

Table 7-64. Band 3 Power Spectral Density Measurements Antenna 1

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 71 of 178

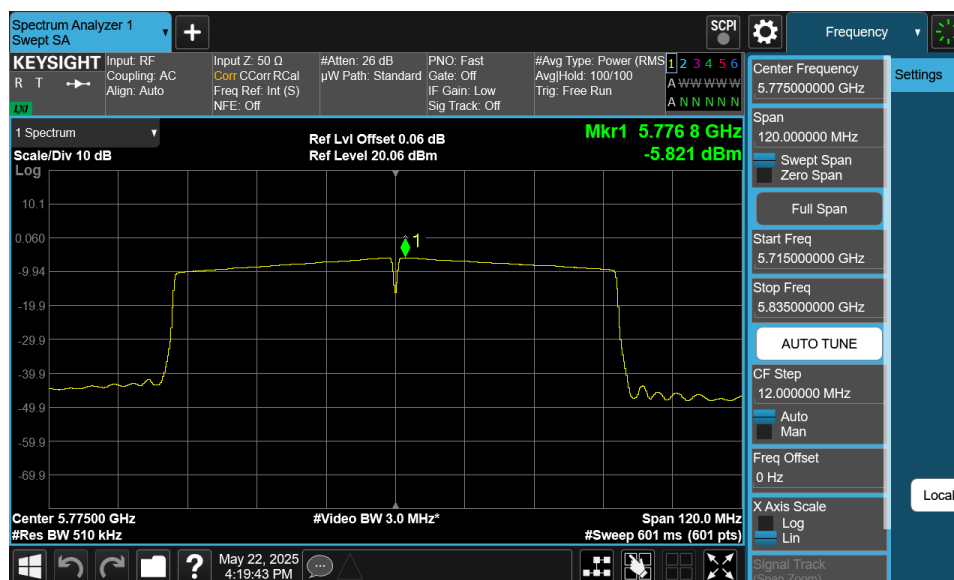


Plot 7-36. PSD Antenna 1 (20MHz BW 802.11a – Ch. 157)



Plot 7-37. PSD Antenna 1 (40MHz BW 802.11n – Ch. 151)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 72 of 178



Plot 7-38. PSD Antenna 1 (80MHz BW 802.11ac – Ch. 155)

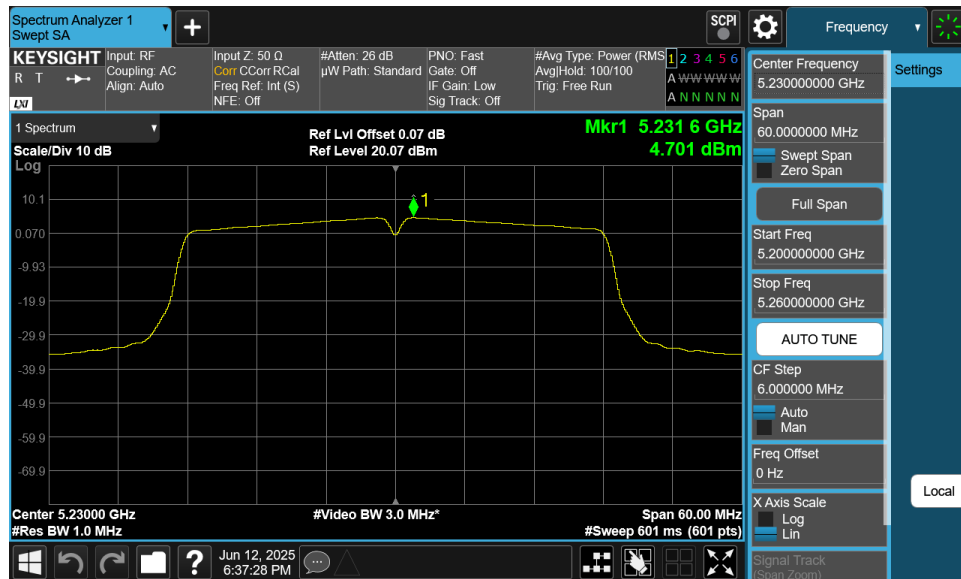
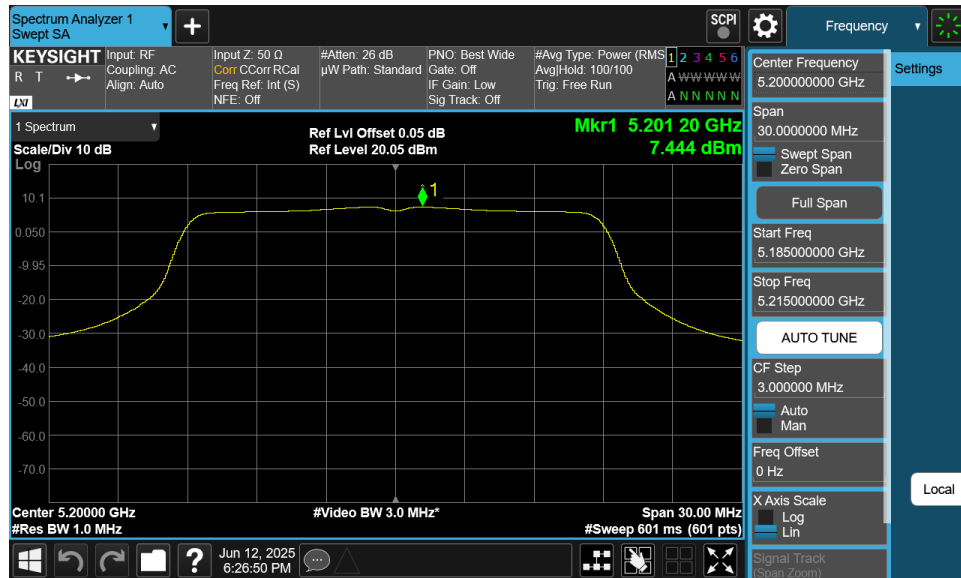
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Test Report S/N: 1C2503170028-06-R2.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 73 of 178

V 12.0 03/03/2026

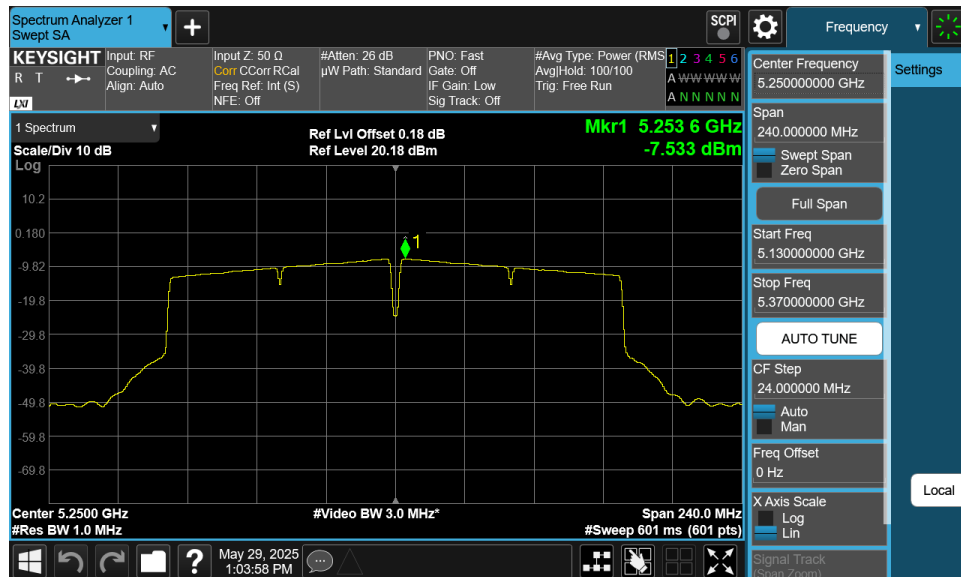
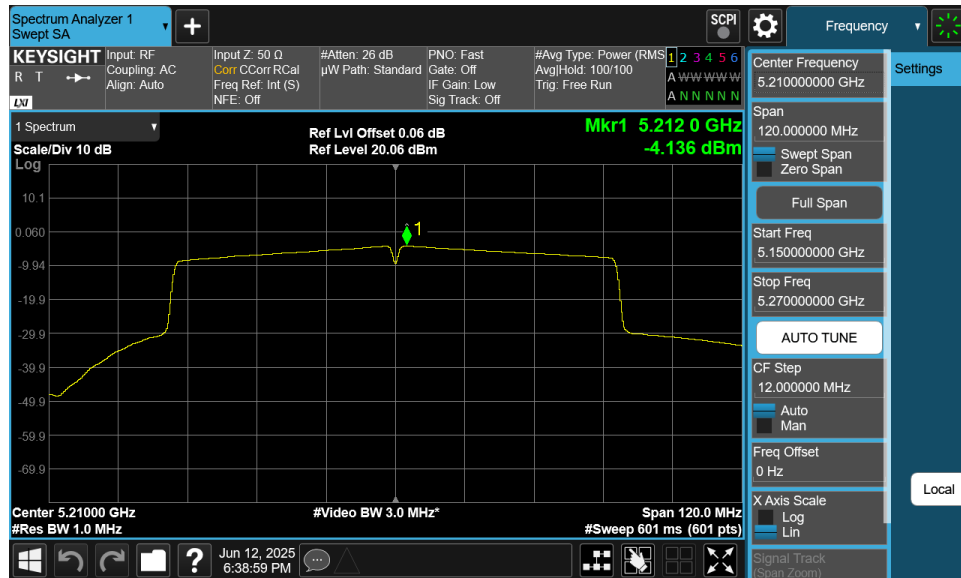
	Frequency [MHz]	Channel No.	802.11 MODE	Data Rate	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	12Mbps	6.48	0.90	7.38	10.0	-2.62
	5200	40	a	54Mbps	7.19	0.90	8.09	10.0	-1.91
	5240	48	a	54Mbps	6.61	0.90	7.51	10.0	-2.49
	5180	36	n (20MHz)	MCS2	6.42	0.90	7.32	10.0	-2.68
	5200	40	n (20MHz)	MCS7	7.44	0.90	8.34	10.0	-1.66
	5240	48	n (20MHz)	MCS4	6.88	0.90	7.78	10.0	-2.22
	5180	36	ax (SU) (20MHz)	MCS4	5.23	0.90	6.13	10.0	-3.87
	5200	40	ax (SU) (20MHz)	MCS2	6.77	0.90	7.67	10.0	-2.34
	5240	48	ax (SU) (20MHz)	MCS4	6.46	0.90	7.36	10.0	-2.64
	5190	38	n (40MHz)	MCS2	0.91	0.90	1.81	10.0	-8.19
	5230	46	n (40MHz)	MCS7	4.70	0.90	5.60	10.0	-4.40
	5190	38	ax (SU) (40MHz)	MCS4	-0.99	0.90	-0.09	10.0	-10.09
	5230	46	ax (SU) (40MHz)	MCS4	4.30	0.90	5.20	10.0	-4.80
	5210	42	ac (80MHz)	MCS2	-4.14	0.90	-3.24	10.0	-13.24
	5210	42	ax (SU) (80MHz)	MCS2	-4.30	0.90	-3.40	10.0	-13.40
Band 1/2	5250	50	ac (160MHz)	MCS4	-7.53	1.27	-6.26	10.0	-16.26
	5250	50	ax (SU) (160MHz)	MCS2	-8.86	1.27	-7.59	10.0	-17.59

Table 7-65. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 1

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 74 of 178



FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 75 of 178



FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-06-R2.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 76 of 178

7.5.3 Summed CDD/SDM Power Spectral Density Measurements

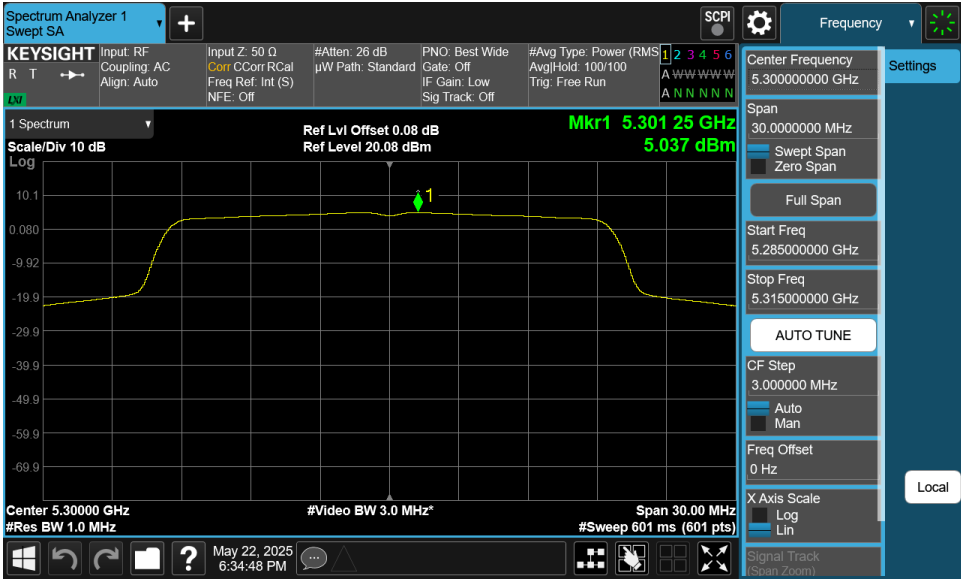
	Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate	Antenna 0 Power Density [dBm/MHz]	Antenna 1 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	CDD	6Mbps	4.85	4.22	7.56	11.00	-3.44
	5200	40	a	CDD	36Mbps	5.22	4.93	8.09	11.00	-2.91
	5240	48	a	CDD	36Mbps	4.86	4.87	7.88	11.00	-3.12
	5180	36	n (20MHz)	CDD	MCS10	4.55	4.25	7.41	11.00	-3.59
	5200	40	n (20MHz)	CDD	MCS15	4.85	4.63	7.75	11.00	-3.25
	5240	48	n (20MHz)	CDD	MCS15	4.74	4.56	7.66	11.00	-3.34
	5180	36	ax (SU) (20MHz)	CDD	MCS4	3.12	2.57	5.86	11.00	-5.14
	5200	40	ax (SU) (20MHz)	CDD	MCS4	4.91	4.54	7.74	11.00	-3.26
	5240	48	ax (SU) (20MHz)	CDD	MCS2	4.74	4.95	7.85	11.00	-3.15
	5190	38	n (40MHz)	CDD	MCS10	-1.66	-1.79	1.29	11.00	-9.71
	5230	46	n (40MHz)	CDD	MCS10	2.41	2.67	5.55	11.00	-5.45
	5190	38	ax (SU) (40MHz)	CDD	MCS4	-2.62	-3.29	0.07	11.00	-10.93
	5230	46	ax (SU) (40MHz)	CDD	MCS2	2.52	2.72	5.63	11.00	-5.37
Band 1/2	5210	42	ac (80MHz)	CDD	MCS4	-6.31	-6.32	-3.31	11.00	-14.31
	5210	42	ax (SU) (80MHz)	CDD	MCS2	-6.16	-6.68	-3.40	11.00	-14.40
Band 2A	5250	50	ac (160MHz)	CDD	MCS4	-8.65	-8.99	-5.81	11.00	-16.81
	5250	50	ax (SU) (160MHz)	CDD	MCS4	-8.92	-9.34	-6.12	11.00	-17.12
	5260	52	a	CDD	36Mbps	5.13	5.01	8.08	11.00	-2.92
	5300	60	a	CDD	18Mbps	5.54	5.01	8.30	11.00	-2.70
	5320	64	a	CDD	6Mbps	5.03	4.59	7.82	11.00	-3.18
	5260	52	n (20MHz)	CDD	MCS15	4.88	4.83	7.86	11.00	-3.14
	5300	60	n (20MHz)	CDD	MCS10	5.47	4.65	8.09	11.00	-2.91
	5320	64	n (20MHz)	CDD	MCS10	4.78	4.29	7.55	11.00	-3.45
	5260	52	ax (SU) (20MHz)	CDD	MCS4	5.13	4.44	7.81	11.00	-3.19
	5300	60	ax (SU) (20MHz)	CDD	MCS2	5.70	5.04	8.39	11.00	-2.61
	5320	64	ax (SU) (20MHz)	CDD	MCS2	3.42	3.55	6.50	11.00	-4.50
	5270	54	n (40MHz)	CDD	MCS10	3.50	3.28	6.40	11.00	-4.60
	5310	62	n (40MHz)	CDD	MCS10	-1.23	-1.89	1.46	11.00	-9.54
	5270	54	ax (SU) (40MHz)	CDD	MCS2	2.87	2.83	5.86	11.00	-5.14
	5310	62	ax (SU) (40MHz)	CDD	MCS2	-2.41	-2.81	0.41	11.00	-10.59
	5290	58	ac (80MHz)	CDD	MCS4	-6.22	-6.90	-3.54	11.00	-14.54
	5290	58	ax (SU) (80MHz)	CDD	MCS4	-7.31	-6.27	-3.75	11.00	-14.75
Band 2C	5500	100	a	CDD	6Mbps	4.18	4.34	7.27	11.00	-3.73
	5580	116	a	CDD	36Mbps	5.29	4.55	7.94	11.00	-3.06
	5720	144	a	CDD	18Mbps	4.75	4.33	7.56	11.00	-3.44
	5500	100	n (20MHz)	CDD	MCS10	4.30	4.04	7.18	11.00	-3.82
	5580	116	n (20MHz)	CDD	MCS10	4.71	4.14	7.45	11.00	-3.55
	5720	144	n (20MHz)	CDD	MCS10	4.68	3.81	7.28	11.00	-3.72
	5500	100	ax (SU) (20MHz)	CDD	MCS2	2.11	2.32	5.23	11.00	-5.77
	5580	116	ax (SU) (20MHz)	CDD	MCS4	4.74	4.37	7.57	11.00	-3.43
	5720	144	ax (SU) (20MHz)	CDD	MCS2	4.76	3.78	7.31	11.00	-3.69
	5510	102	n (40MHz)	CDD	MCS12	-2.35	-1.95	0.87	11.00	-10.13
	5550	110	n (40MHz)	CDD	MCS12	2.97	2.28	5.65	11.00	-5.35
	5590	118	n (40MHz)	CDD	MCS10	3.18	2.59	5.90	11.00	-5.10
	5670	134	n (40MHz)	CDD	MCS10	0.82	0.25	3.55	11.00	-7.45
	5710	142	n (40MHz)	CDD	MCS15	3.68	2.44	6.11	11.00	-4.89
	5510	102	ax (SU) (40MHz)	CDD	MCS2	-4.21	-4.19	-1.19	11.00	-12.19
	5550	110	ax (SU) (40MHz)	CDD	MCS2	2.36	1.82	5.11	11.00	-5.89
	5710	142	ax (SU) (40MHz)	CDD	MCS2	3.00	2.65	5.84	11.00	-5.16
	5530	106	ac (80MHz)	CDD	MCS4	-6.51	-7.46	-3.95	11.00	-14.95
	5610	122	ac (80MHz)	CDD	MCS2	-2.21	-2.83	0.50	11.00	-10.50
	5690	138	ac (80MHz)	CDD	MCS2	-1.75	-2.25	1.02	11.00	-9.98
	5530	106	ax (SU) (80MHz)	CDD	MCS2	-7.19	-5.29	-3.13	11.00	-14.13
	5610	122	ax (SU) (80MHz)	CDD	MCS2	-3.85	-3.86	-0.85	11.00	-11.85
	5690	138	ax (SU) (80MHz)	CDD	MCS2	-0.68	-2.29	1.60	11.00	-9.40
	5570	114	ac (160MHz)	CDD	MCS2	-9.97	-8.65	-6.25	11.00	-17.25
	5570	114	ax (SU) (160MHz)	CDD	MCS2	-9.65	-8.95	-6.27	11.00	-17.27

Table 7-66. Bands 1, 2A, 2C CDD Power Spectral Density Measurements

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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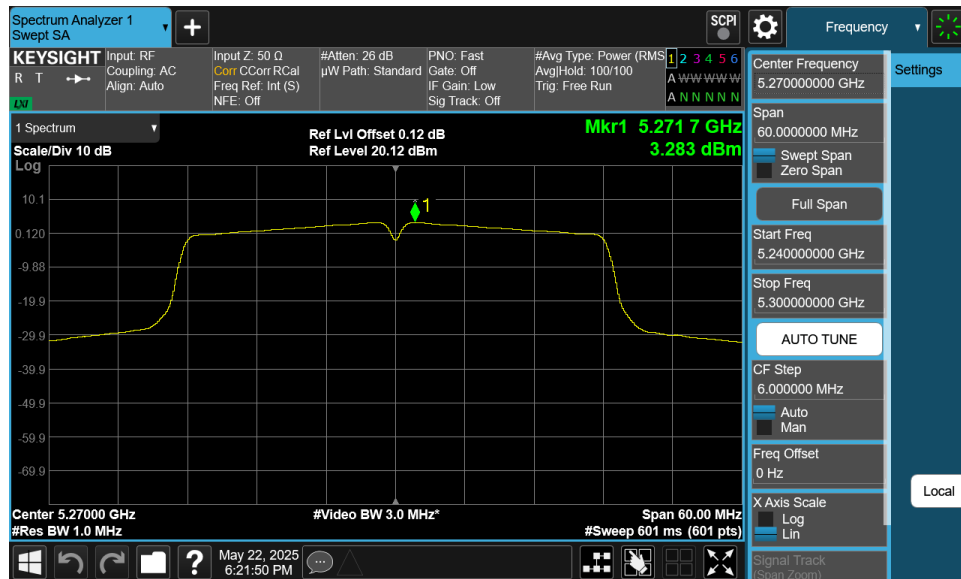
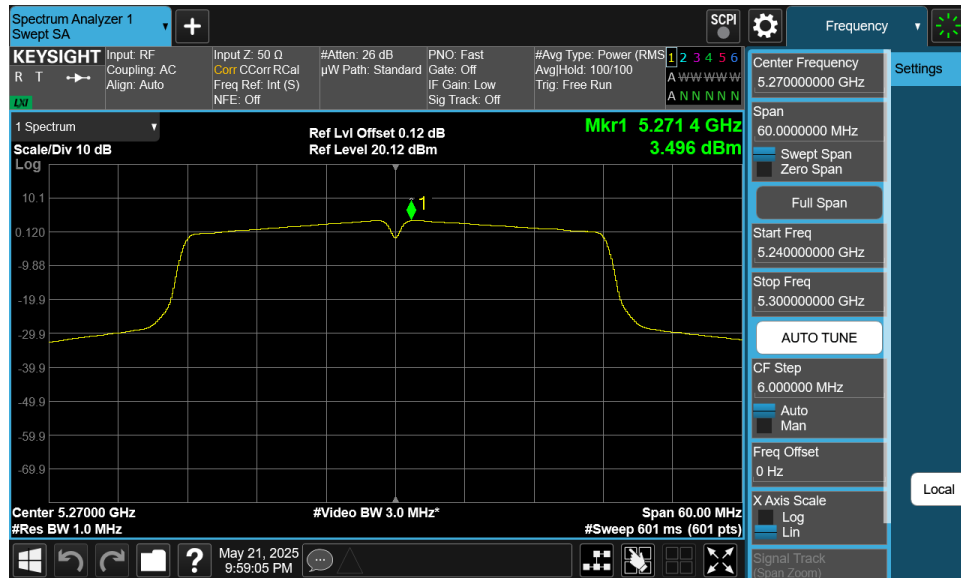


Plot 7-43. PSD CDD Antenna 0 (20MHz BW 802.11ax(SU) – Ch. 60)



Plot 7-44. PSD CDD Antenna 1 (20MHz BW 802.11ax(SU) – Ch. 60)

FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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FCC ID: BCGA3300 IC: 579C-A3300	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 3/24/2025 - 7/4/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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