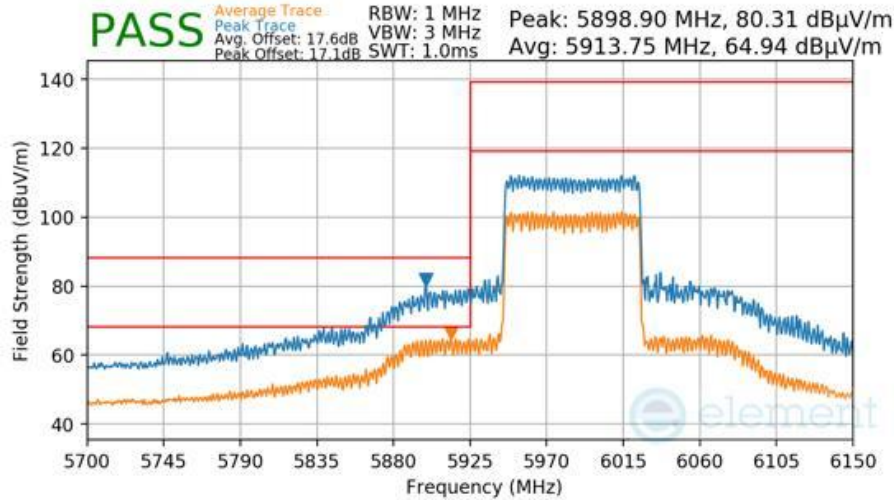


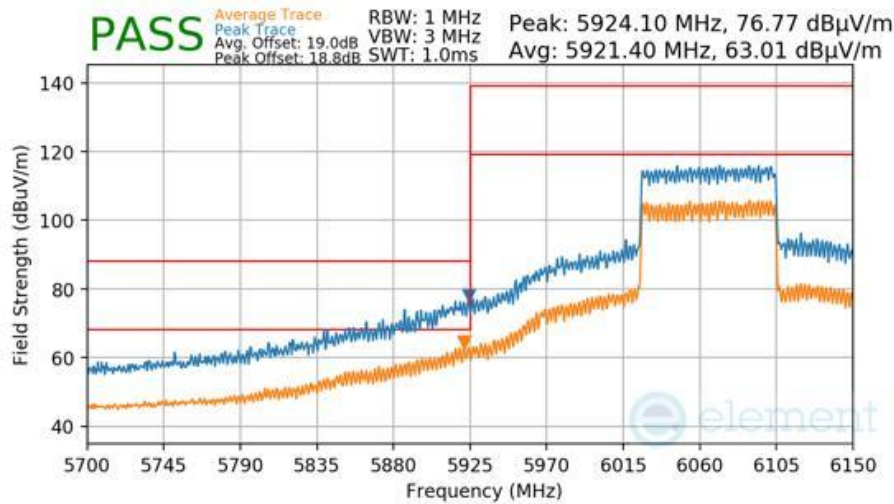
RU996

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5985MHz
 Channel: 7



Plot 7-735 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

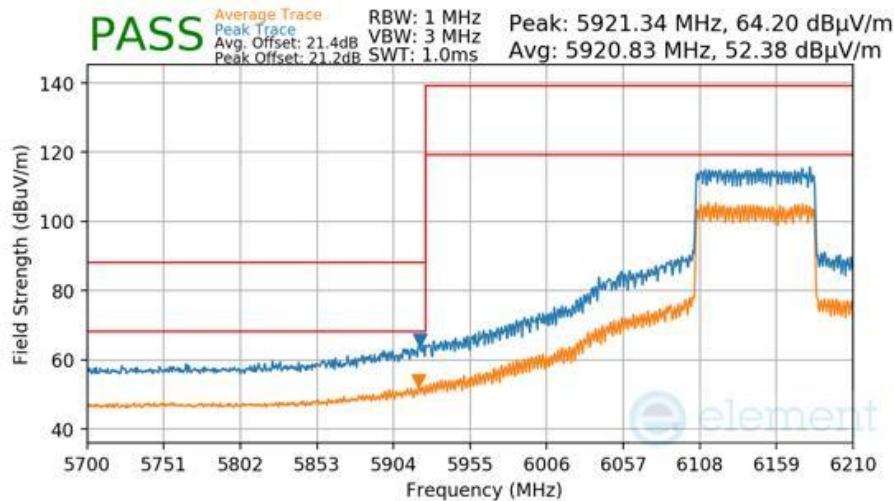
Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 6065MHz
 Channel: 23



Plot 7-736 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

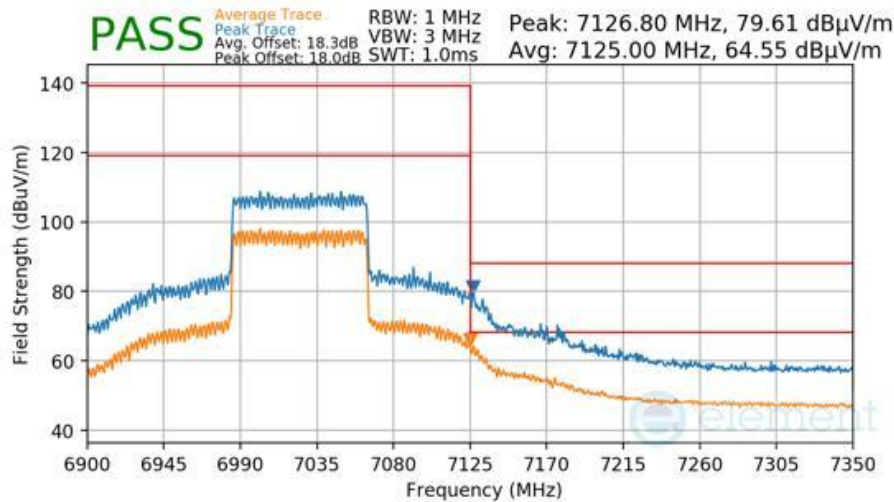
FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-10-R2.BCG	 This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			Page 339 of 362

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 6145MHz
 Channel: 39



Plot 7-737 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 7025MHz
 Channel: 215



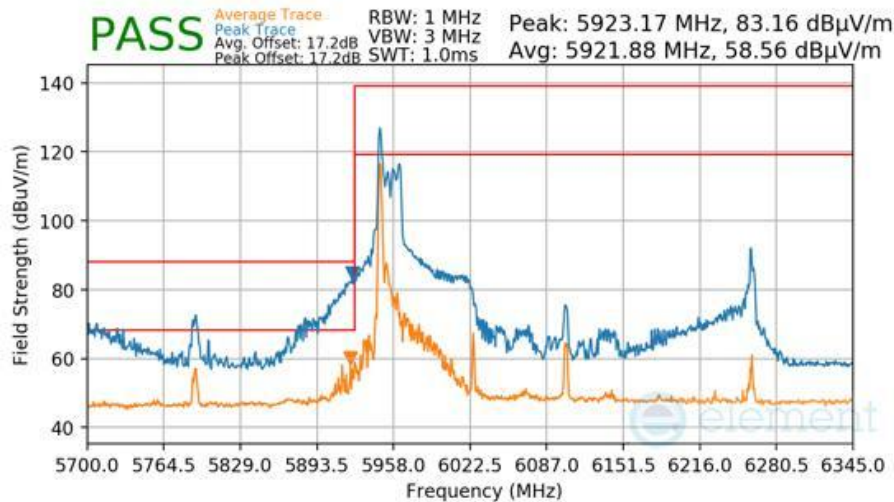
Plot 7-738 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.7.13 CDD Radiated Band Edge Measurements (160MHz BW)

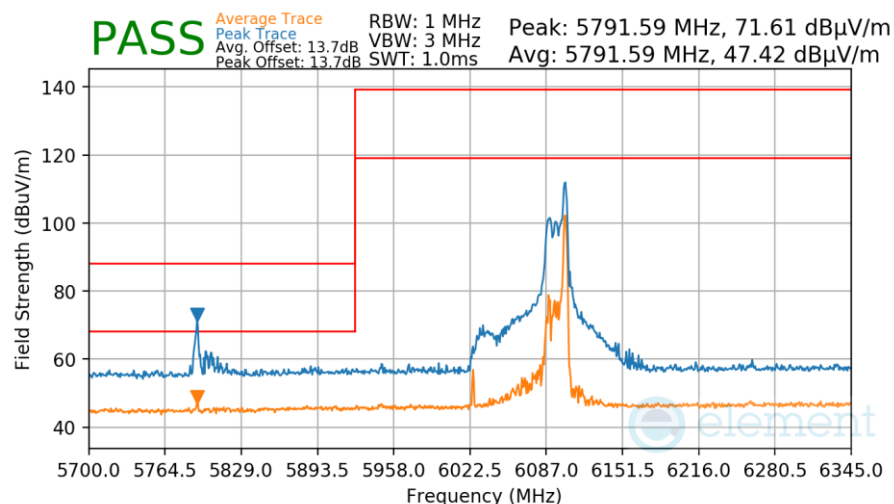
RU26

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 6025MHz
Channel: 15



Plot 7-739 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

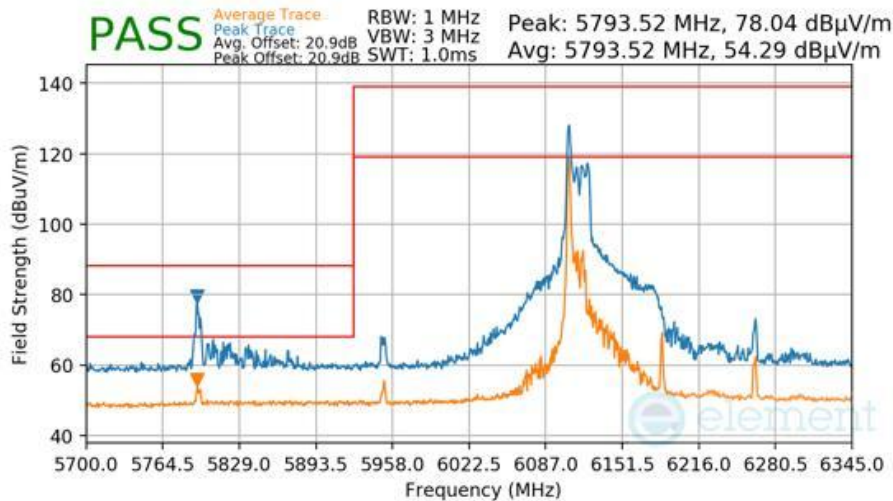
Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 36
Distance of Measurements: 3 Meters
Operating Frequency: 6025MHz
Channel: 15



Plot 7-740 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

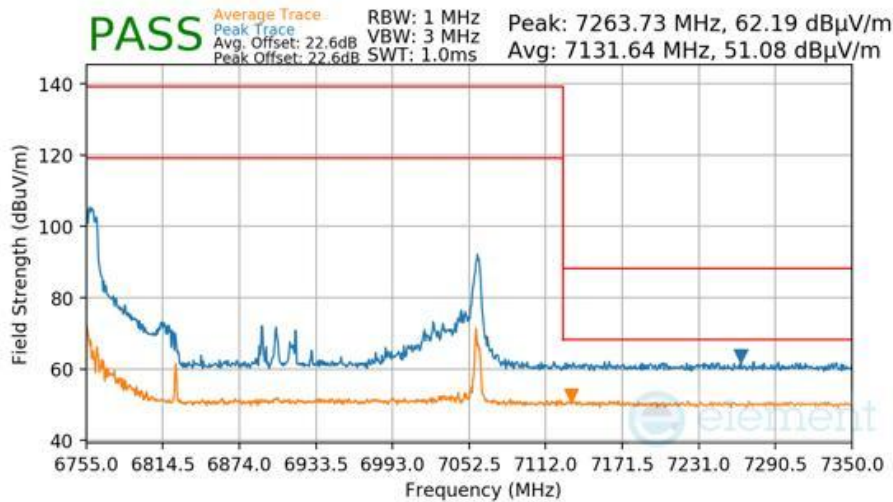
FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 6185MHz
Channel: 47



Plot 7-741 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
Transfer Rate: MCS11
RU Index: 0
Distance of Measurements: 3 Meters
Operating Frequency: 6825MHz
Channel: 175

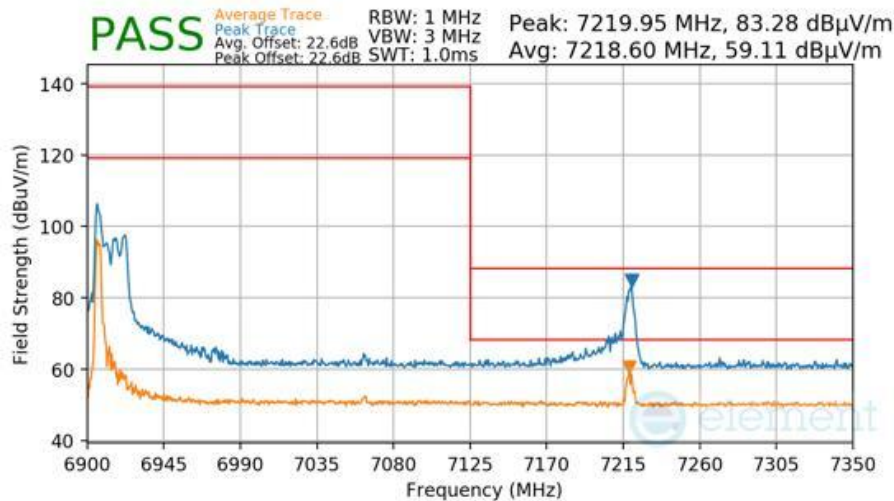


Plot 7-742 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 7)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-10-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 342 of 362

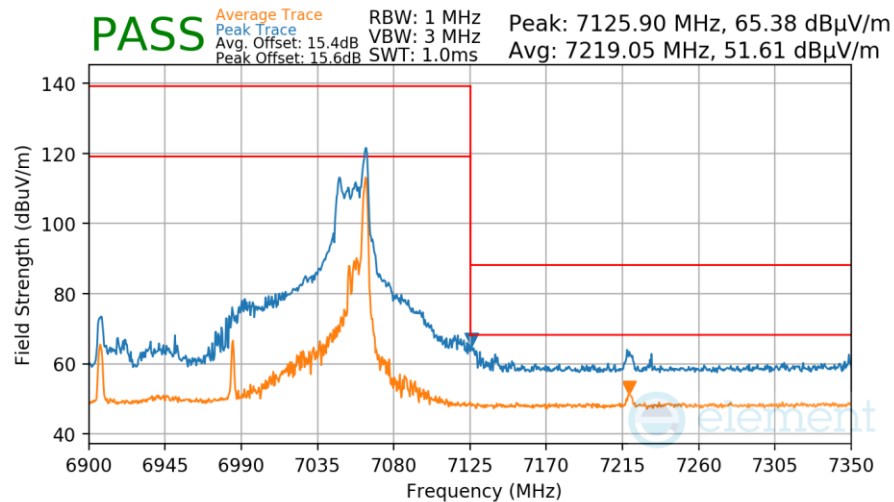
V 12.0 03/03/2026

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207



Plot 7-743 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 36
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207

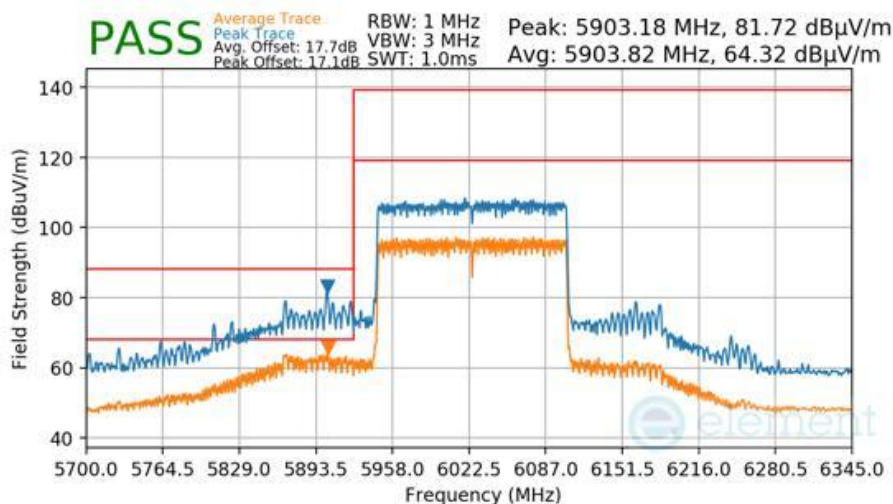


Plot 7-744 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-10-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 343 of 362

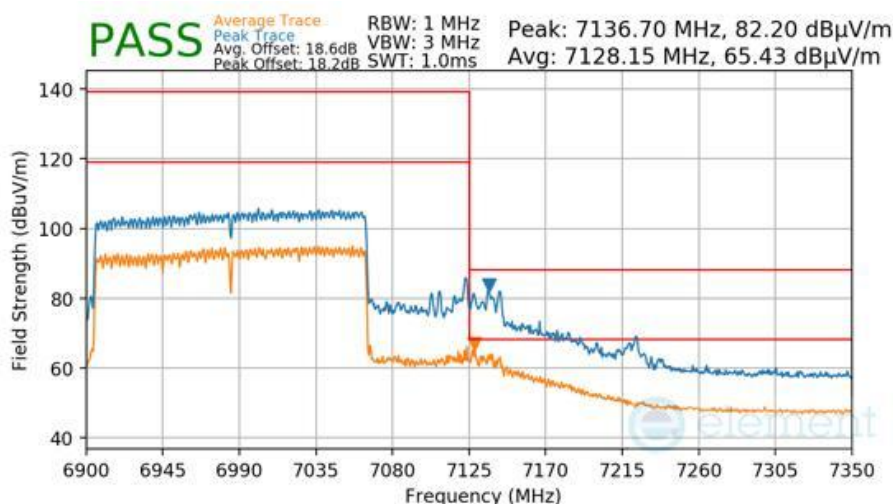
RU996x2

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 68
 Distance of Measurements: 3 Meters
 Operating Frequency: 6025MHz
 Channel: 15



Plot 7-745 CDD Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode: 802.11ax OFDMA
 Transfer Rate: MCS11
 RU Index: 68
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207



Plot 7-746 CDD Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-10-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 344 of 362

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7.8 Radiated Spurious Emissions – Below 1GHz

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (7.5) must not exceed the limits shown in Table 7-111 per Section 15.209 and RSS-Gen (7.4.3).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-111. Radiated Limits

Test Procedures Used

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

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = quasi-peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

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

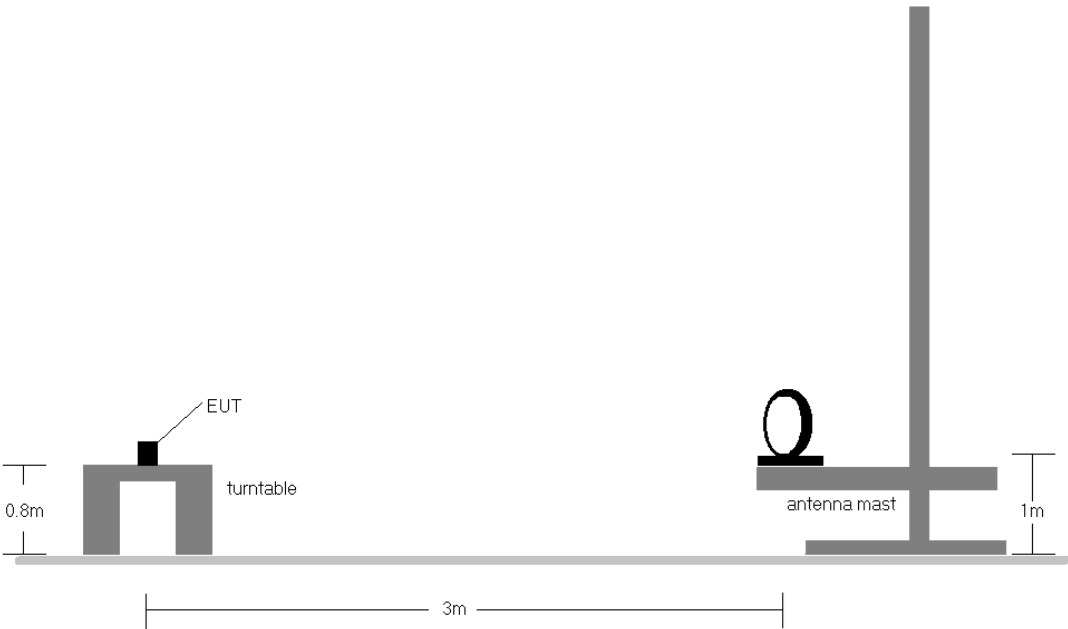


Figure 7-6. Radiated Test Setup < 30MHz

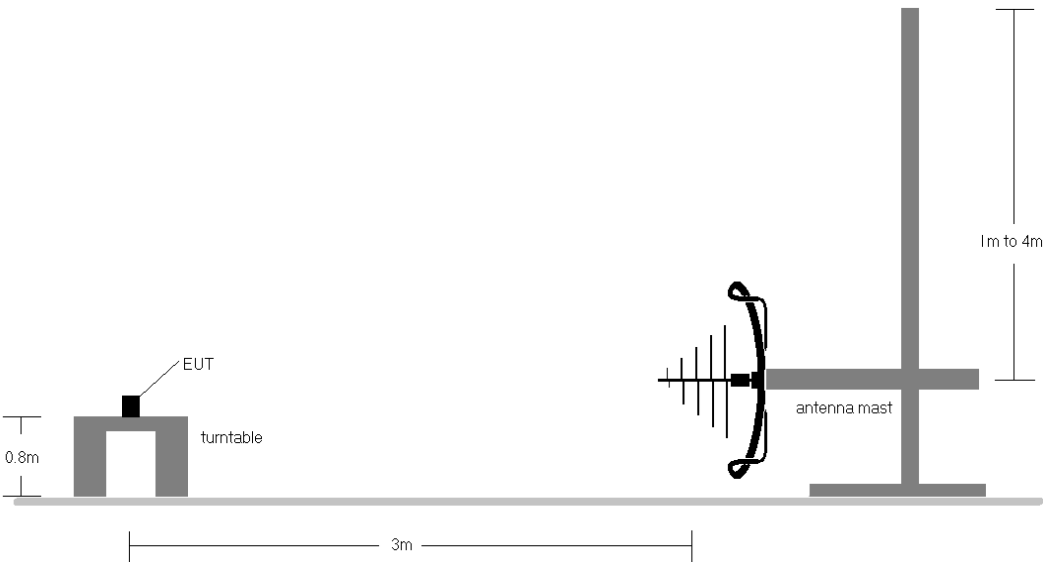


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (7.5) are below the limit shown in Table 7-111.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested while powered by an AC/DC Adapter via USB-C Cable.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions that were within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The worst case configuration below was investigated and reported.
10. EUT powered by AC/DC Adapter via USB-C cable.
11. All antenna configurations were investigated and only the worst case is reported.
12. The unit was tested with all possible modes and only the highest emission is reported.

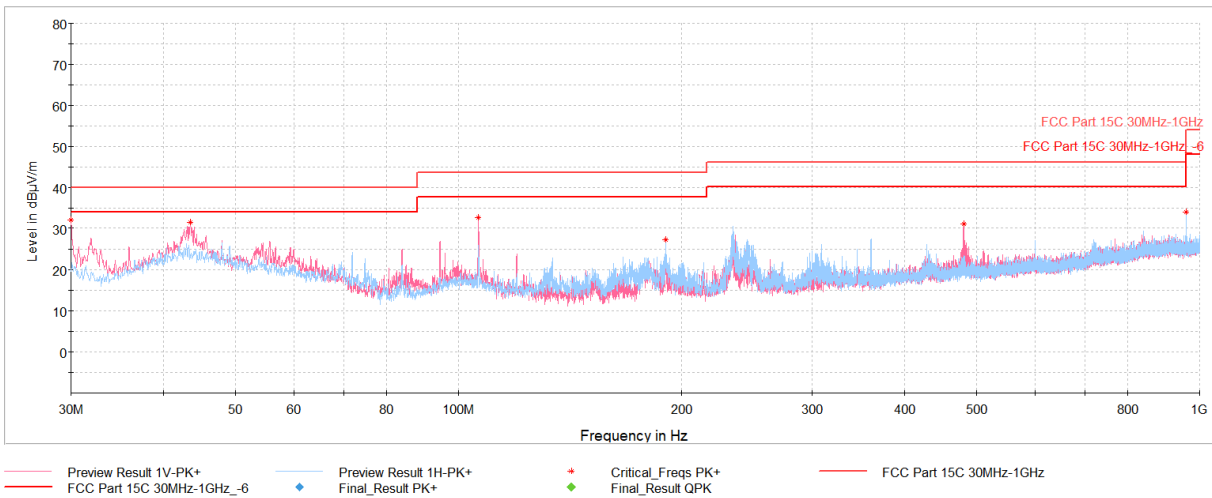
Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{\text{dB}\mu\text{V/m}} = \text{Analyzer Level}_{\text{dBm}} + 107 + \text{AFCL}_{\text{dB/m}}$
- $\text{AFCL}_{\text{dB/m}} = \text{Antenna Factor}_{\text{dB/m}} + \text{Cable Loss}_{\text{dB}} - \text{Preamp Gain}_{\text{dB}}$
- $\text{Margin}_{\text{dB}} = \text{Field Strength Level}_{\text{dB}\mu\text{V/m}} - \text{Limit}_{\text{dB}\mu\text{V/m}}$

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.8.1 CDD Radiated Spurious Emissions Measurements (Below 1GHz)



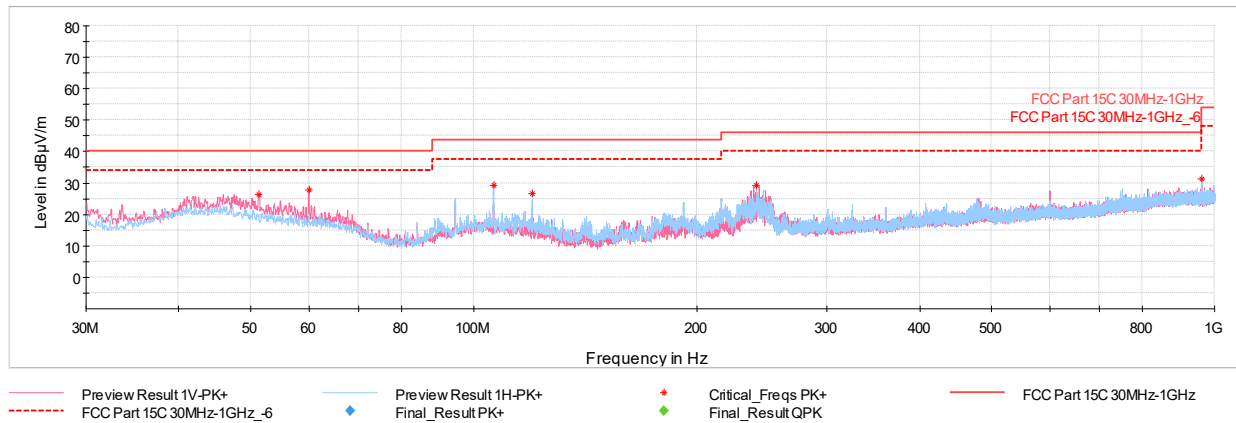
Plot 7-747. Radiated Spurious Emissions below 1GHz CDD (802.11ax – Ch.1 – RU26) with AC/DC Adapter via USB-C cable

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
30.00	Max-Peak	V	100	299	-56.64	-18.29	32.07	40.00	-7.93
43.48	Max-Peak	V	200	79	-60.81	-14.84	31.35	40.00	-8.65
106.48	Max-Peak	V	100	263	-57.82	-16.61	32.57	43.52	-10.95
190.29	Max-Peak	H	100	204	-62.92	-16.63	27.45	43.52	-16.07
479.98	Max-Peak	V	100	258	-67.08	-8.83	31.09	46.02	-14.93
960.04	Max-Peak	H	100	6	-71.53	-1.60	33.87	53.98	-20.11

Table 7-112. Radiated Spurious Emissions below 1GHz CDD (802.11ax – Ch.1 – RU26) with AC/DC Adapter via USB-C cable

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-10-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 348 of 362

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Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
51.39	Max Peak	V	100	13	-66.34	-14.25	26.41	40.00	-13.59
59.97	Max Peak	V	100	13	-63.32	-15.76	27.92	40.00	-12.08
106.44	Max Peak	H	300	111	-61.14	-16.60	29.26	43.52	-14.26
119.97	Max Peak	H	200	286	-61.86	-18.40	26.74	43.52	-16.78
240.98	Max Peak	V	200	222	-63.00	-14.72	29.28	46.02	-16.74
960.04	Max Peak	H	100	15	-74.13	-1.60	31.27	53.98	-22.71

Table 7-113. Radiated Spurious Emissions below 1GHz CDD (802.11ax – Ch.1 – RU242) with AC/DC Adapter via USB-C cable

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2410280081-10-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 349 of 362

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7.9 AC Line-Conducted Emissions Measurement

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (7.4.2).

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-114. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024, Section 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Test Setup

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

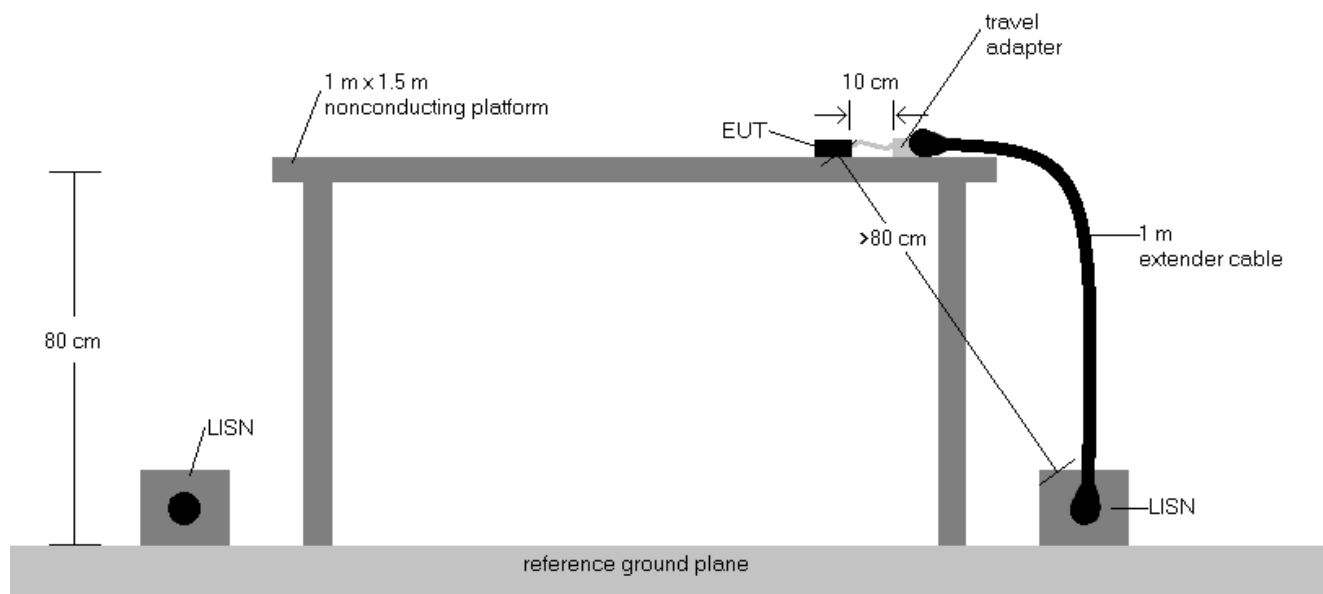
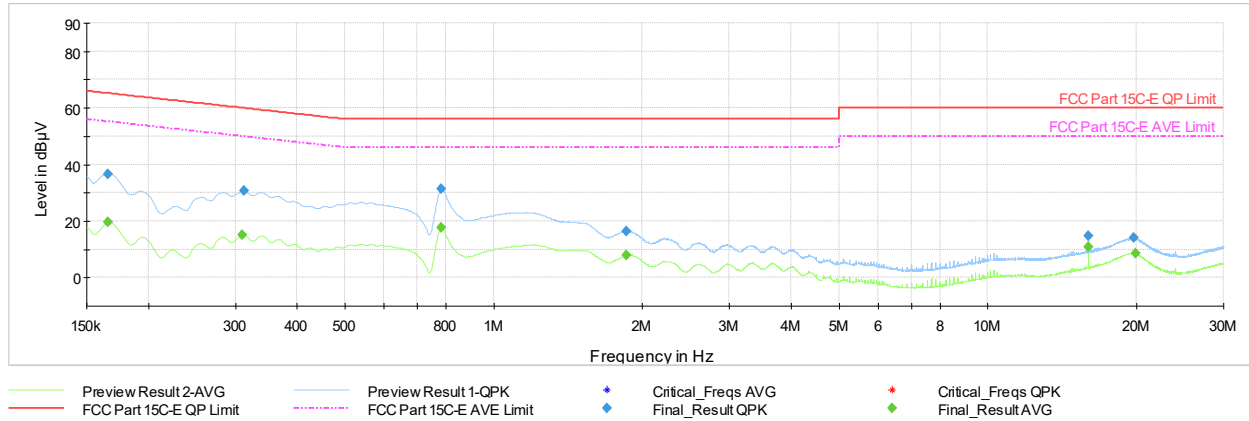


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. The worst case configuration below was investigated and reported.
 - a. EUT powered by AC/DC Adapter via USB-C cable
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (7.4.2).
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.
9. The unit was tested with all possible modes and only the highest emission is reported.

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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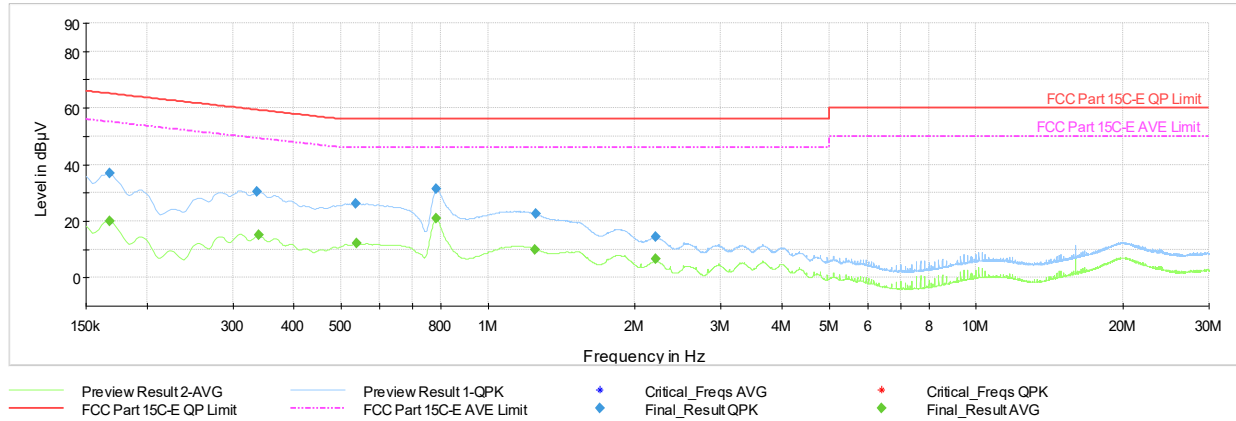


Plot 7-749. AC Line Conducted Plot with 802.11ax CDD UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC Adapter via USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.17	FINAL	---	19.51	55.17	-35.66	L1	GND
0.17	FINAL	36.67	---	65.17	-28.50	L1	GND
0.31	FINAL	---	15.14	49.98	-34.84	L1	GND
0.31	FINAL	30.69	---	59.92	-29.23	L1	GND
0.78	FINAL	---	17.70	46.00	-28.30	L1	GND
0.78	FINAL	31.34	---	56.00	-24.66	L1	GND
1.85	FINAL	16.43	---	56.00	-39.57	L1	GND
1.86	FINAL	---	7.76	46.00	-38.24	L1	GND
15.97	FINAL	14.64	---	60.00	-45.36	L1	GND
15.97	FINAL	---	10.86	50.00	-39.14	L1	GND
19.72	FINAL	14.09	---	60.00	-45.91	L1	GND
19.87	FINAL	---	8.44	50.00	-41.56	L1	GND

Table 7-115. AC Line Conducted Data with 802.11ax CDD UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC Adapter via USB-C cable

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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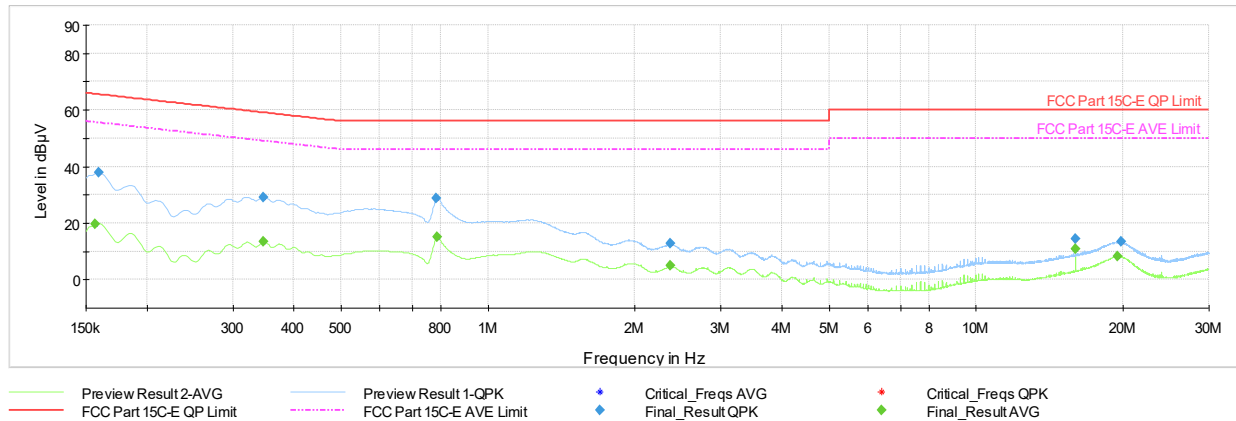


Plot 7-750. AC Line Conducted Plot with 802.11ax CDD UNII Band 5 – RU26 – Ch.1 (N) with AC/DC Adapter via USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.17	FINAL	---	20.08	55.06	-34.98	N	GND
0.17	FINAL	36.79	---	65.06	-28.27	N	GND
0.34	FINAL	30.36	---	59.28	-28.92	N	GND
0.34	FINAL	---	15.09	49.23	-34.14	N	GND
0.53	FINAL	26.24	---	56.00	-29.76	N	GND
0.54	FINAL	---	12.11	46.00	-33.89	N	GND
0.78	FINAL	31.32	---	56.00	-24.68	N	GND
0.78	FINAL	---	20.97	46.00	-25.03	N	GND
1.25	FINAL	---	9.97	46.00	-36.03	N	GND
1.25	FINAL	22.48	---	56.00	-33.52	N	GND
2.21	FINAL	---	6.54	46.00	-39.46	N	GND
2.21	FINAL	14.47	---	56.00	-41.53	N	GND

Table 7-116. AC Line Conducted Data with 802.11ax CDD UNII Band 5 – RU26 – Ch.1 (N) with AC/DC Adapter via USB-C cable

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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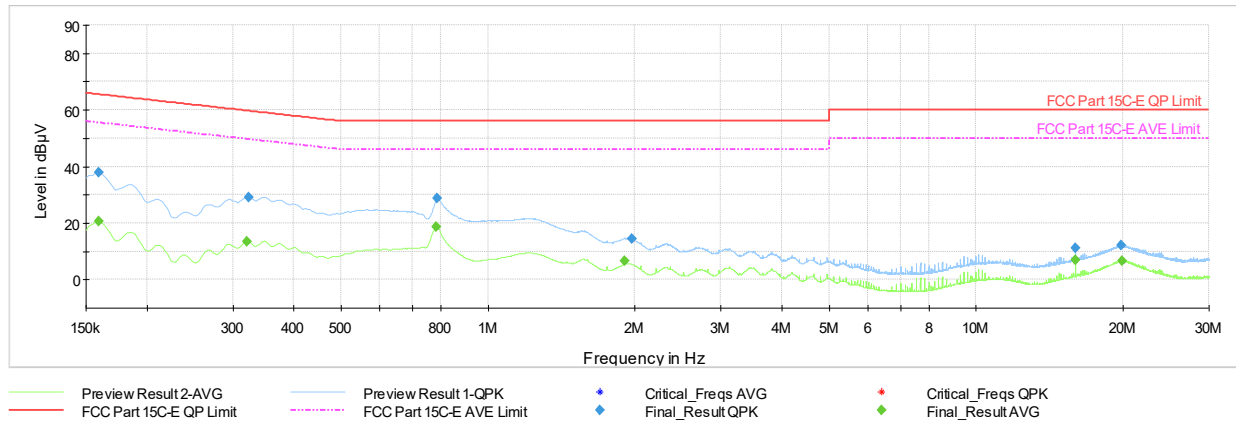
Plot 7-751. AC Line Conducted Plot with 802.11ax CDD UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC Adapter via USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.16	FINAL	---	19.71	55.63	-35.92	L1	GND
0.16	FINAL	37.72	---	65.52	-27.80	L1	GND
0.35	FINAL	---	13.38	49.06	-35.68	L1	GND
0.35	FINAL	29.07	---	59.06	-29.99	L1	GND
0.78	FINAL	28.61	---	56.00	-27.39	L1	GND
0.79	FINAL	---	15.15	46.00	-30.85	L1	GND
2.36	FINAL	12.79	---	56.00	-43.21	L1	GND
2.36	FINAL	---	5.01	46.00	-40.99	L1	GND
15.96	FINAL	14.45	---	60.00	-45.55	L1	GND
15.96	FINAL	---	10.73	50.00	-39.27	L1	GND
19.45	FINAL	---	8.11	50.00	-41.89	L1	GND
19.79	FINAL	13.30	---	60.00	-46.70	L1	GND

Table 7-117. AC Line Conducted Data with 802.11ax CDD UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC Adapter via USB-C cable

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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Plot 7-752. AC Line Conducted Plot with 802.11ax CDD UNII Band 5 – RU242 – Ch.1 (N) with AC/DC Adapter via USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.16	FINAL	---	20.64	55.06	-34.42	N	GND
0.16	FINAL	38.26	---	65.06	-26.80	N	GND
0.34	FINAL	29.86	---	59.28	-29.42	N	GND
0.34	FINAL	---	16.03	49.23	-33.20	N	GND
0.77	FINAL	28.76	---	56.00	-27.24	N	GND
0.77	FINAL	---	19.86	46.00	-26.14	N	GND
1.97	FINAL	14.23	---	56.00	-41.77	N	GND
1.85	FINAL	---	8.24	46.00	-37.76	N	GND
16.24	FINAL	---	16.15	46.00	-29.85	N	GND
16.24	FINAL	14.11	---	56.00	-41.89	N	GND
19.97	FINAL	---	16.27	46.00	-29.73	N	GND
19.97	FINAL	13.57	---	56.00	-42.43	N	GND

Table 7-118. AC Line Conducted Data with 802.11ax CDD UNII Band 5 – RU242 – Ch.1 (N) with AC/DC Adapter via USB-C cable

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.10 Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point

Test Overview and Limits

A client device that connects to a Standard Power AP must limit its power to a minimum of 6 dB lower than its associated Standard Power access point's authorized transmit power. The term "authorized" means the AFC-approved power level for the AP to use on a particular channel.

Test Procedure Used

KDB 987594 D03 – Section L

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.4.3.2 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

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.

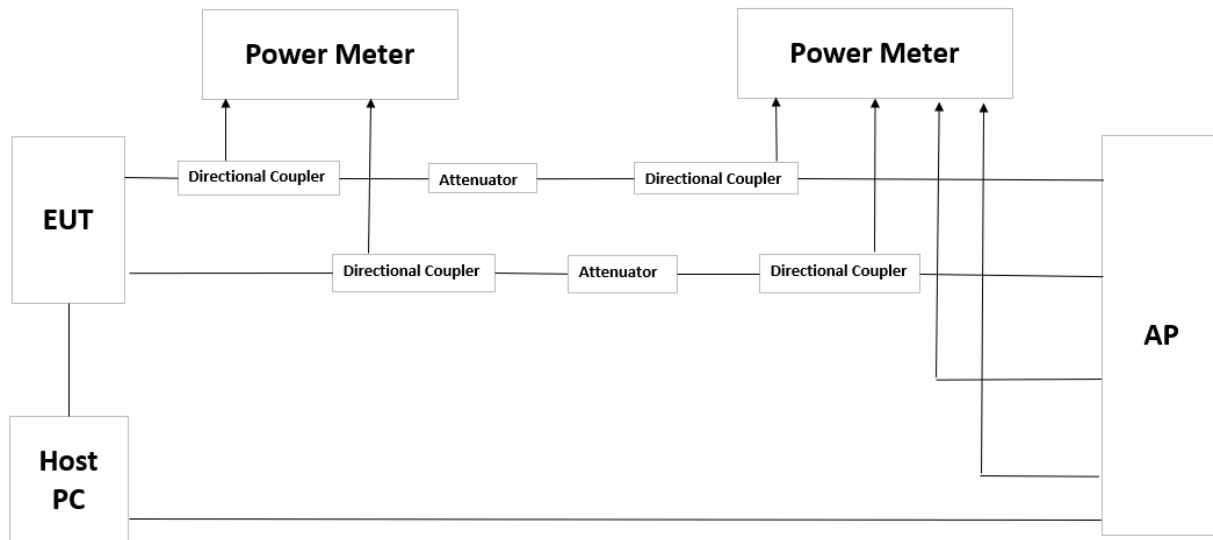


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. AFC Limit was set to 36, 28 and 21 dBm EIRP.
2. Standard Power AP which was used in the test setup is not certified and it's a production version.
3. Standard Power AP specification is declared by Apple/manufacturer.

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AFC Authorized Power (36dBm EIRP)

```

root@OpenWrt:~# iwpriv rax0 show afcparams
root@OpenWrt:~# dmesg -c
[ 1339.858312] Device type : 1
[ 1339.861178] State : 3
[ 1339.863496] UNII_INDEX 0
[ 1339.866054]
[ 1339.866054] PSD      : 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46
[ 1339.866054] EIRP 20  : 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72
[ 1339.866054] EIRP 40  : 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78
[ 1339.866054] EIRP 80  : 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84
[ 1339.866054] EIRP 160 : 90 90 90
[ 1339.866054]
[ 1339.898752] UNII_INDEX 1
[ 1339.901277]
[ 1339.901277] PSD      : 46 46 46 46 46
[ 1339.901277] EIRP 20  : 127 127 127 127 127
[ 1339.901277] EIRP 40  : 127 127 127
[ 1339.901277] EIRP 80  : 127 127
[ 1339.901277] EIRP 160 : 127
[ 1339.901277]
[ 1339.921079] UNII_INDEX 2
[ 1339.923608]
[ 1339.923608] PSD      : 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46
[ 1339.923608] EIRP 20  : 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72 72
[ 1339.923608] EIRP 40  : 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78
[ 1339.923608] EIRP 80  : 84 84 84
[ 1339.923608] EIRP 160 : 90
[ 1339.923608]
[ 1339.950268] Expiry Time   : 0
[ 1339.953230] Response Code : 0
[ 1339.953230]
[ 1339.957664] Band:2 Scan:0 Ch_Band:2 HTBW:1 VHTBW:2 BW:3
[ 1339.957664]
[ 1339.964352] ExtCh:3 PCh:37 CenCh1:47 CenCh2:0 RxStream:2 APBW:0 ApCenCh:0
[ 1339.964352]
root@OpenWrt:~#

```

Figure 7-10. AP AFC EIRP/PSD Authorization by channel – 36dBm

Channel	Frequency (MHz)	Power Measured (dBm)			Correlated Gain (dBi)	Measured e.i.r.p (dBm)	Limit (dBm)	Margin (dB)
		Antenna 0	Antenna 1	Summed				
37	6135	13.55	13.12	16.35	2.71	19.06	30.00	-10.94

Table 7-119: EUT measured e.i.r.p (MIMO)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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AFC Authorized Power (28dBm EIRP)

```

root@OpenWrt:~# iwpriv rax0 show afcparams
root@OpenWrt:~# dmesg -c
[ 1824.947162] Device type : 1
[ 1824.949953] State : 3
[ 1824.952228] UNII_INDEX 0
[ 1824.954756]
[ 1824.954756] PSD      : 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46
[ 1824.954756] EIRP 20  : 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56
[ 1824.954756] EIRP 40  : 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62
[ 1824.954756] EIRP 80  : 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68 68
[ 1824.954756] EIRP 160 : 74 74 74
[ 1824.954756]
[ 1824.987414] UNII_INDEX 1
[ 1824.989933]
[ 1824.989933] PSD      : 46 46 46 46 46 46
[ 1824.989933] EIRP 20  : 127 127 127 127 127 127
[ 1824.989933] EIRP 40  : 127 127 127
[ 1824.989933] EIRP 80  : 127 127
[ 1824.989933] EIRP 160 : 127
[ 1824.989933]
[ 1825.009728] UNII_INDEX 2
[ 1825.012251]
[ 1825.012251] PSD      : 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46
[ 1825.012251] EIRP 20  : 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56
[ 1825.012251] EIRP 40  : 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62 62
[ 1825.012251] EIRP 80  : 68 68 68
[ 1825.012251] EIRP 160 : 74
[ 1825.012251]
[ 1825.038907] Expiry Time   : 0
[ 1825.041863] Response Code : 0
[ 1825.041863]
[ 1825.046297] Band:2 Scan:0 Ch_Band:2 HTBW:1 VHTBW:2 BW:3
[ 1825.046297]
[ 1825.052985] ExtCh:3 PCh:37 CenCh1:47 CenCh2:0 RxStream:2 APBW:0 ApCenCh:0
[ 1825.052985]
root@OpenWrt:~# █

```

Figure 7-11: AP AFC EIRP/PSD Authorization by channel – 28dBm

Channel	Frequency (MHz)	Power Measured (dBm)			Correlated Gain (dBi)	Measured e.i.r.p (dBm)	Limit (dBm)	Margin (dB)
		Antenna 0	Antenna 1	Summed				
37	6135	12.82	12.35	15.60	2.71	18.31	22.00	-3.69

Table 7-120: EUT measured e.i.r.p (MIMO)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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AFC Authorized Power (21dBm EIRP)

```

root@OpenWrt:~# iwpriv rax0 show afcparams
root@OpenWrt:~# dmesg -c
[ 1965.676826] Device type : 1
[ 1965.679635] State : 3
[ 1965.681895] UNII_INDEX 0
[ 1965.684425]
[ 1965.684425] PSD      : 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46
[ 1965.684425] EIRP 20  : 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42
[ 1965.684425] EIRP 40  : 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48
[ 1965.684425] EIRP 80  : 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54
[ 1965.684425] EIRP 160 : 60 60 60
[ 1965.684425]
[ 1965.717084] UNII_INDEX 1
[ 1965.719611]
[ 1965.719611] PSD      : 46 46 46 46 46
[ 1965.719611] EIRP 20  : 127 127 127 127 127
[ 1965.719611] EIRP 40  : 127 127 127
[ 1965.719611] EIRP 80  : 127 127
[ 1965.719611] EIRP 160 : 127
[ 1965.719611]
[ 1965.739405] UNII_INDEX 2
[ 1965.741924]
[ 1965.741924] PSD      : 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46 46
[ 1965.741924] EIRP 20  : 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42 42
[ 1965.741924] EIRP 40  : 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48 48
[ 1965.741924] EIRP 80  : 54 54 54
[ 1965.741924] EIRP 160 : 60
[ 1965.741924]
[ 1965.768580] Expiry Time   : 0
[ 1965.771537] Response Code : 0
[ 1965.771537]
[ 1965.775971] Band:2 Scan:0 Ch_Band:2 HTBW:1 VHTBW:2 BW:3
[ 1965.775971]
[ 1965.782659] ExtCh:3 PCh:37 CenCh1:47 CenCh2:0 RxStream:2 APBW:0 ApCenCh:0
[ 1965.782659]
root@OpenWrt:~#

```

Figure 7-12. AP AFC EIRP/PSD Authorization by channel – 21dBm

Channel	Frequency (MHz)	Power Measured (dBm)			Correlated Gain (dBi)	Measured e.i.r.p (dBm)	Limit (dBm)	Margin (dB)
		Antenna 0	Antenna 1	Summed				
37	6135	6.45	5.84	9.17	2.71	11.88	15.00	-3.12

Table 7-121: EUT measured e.i.r.p (SISO)

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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7.11 Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

Test Overview and Limits

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP. If a client has the flexibility to connect to both APs, verification is needed to show that it can distinguish between the two configurations, and then control the power levels accordingly.

Test Procedure Used

KDB 987594 D02 v03 – Section K

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Section 12.4.3.2 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

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.

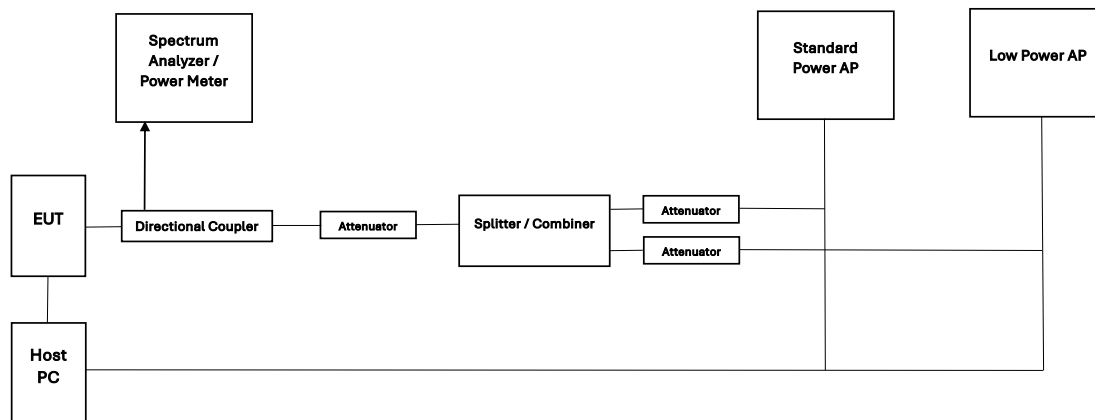
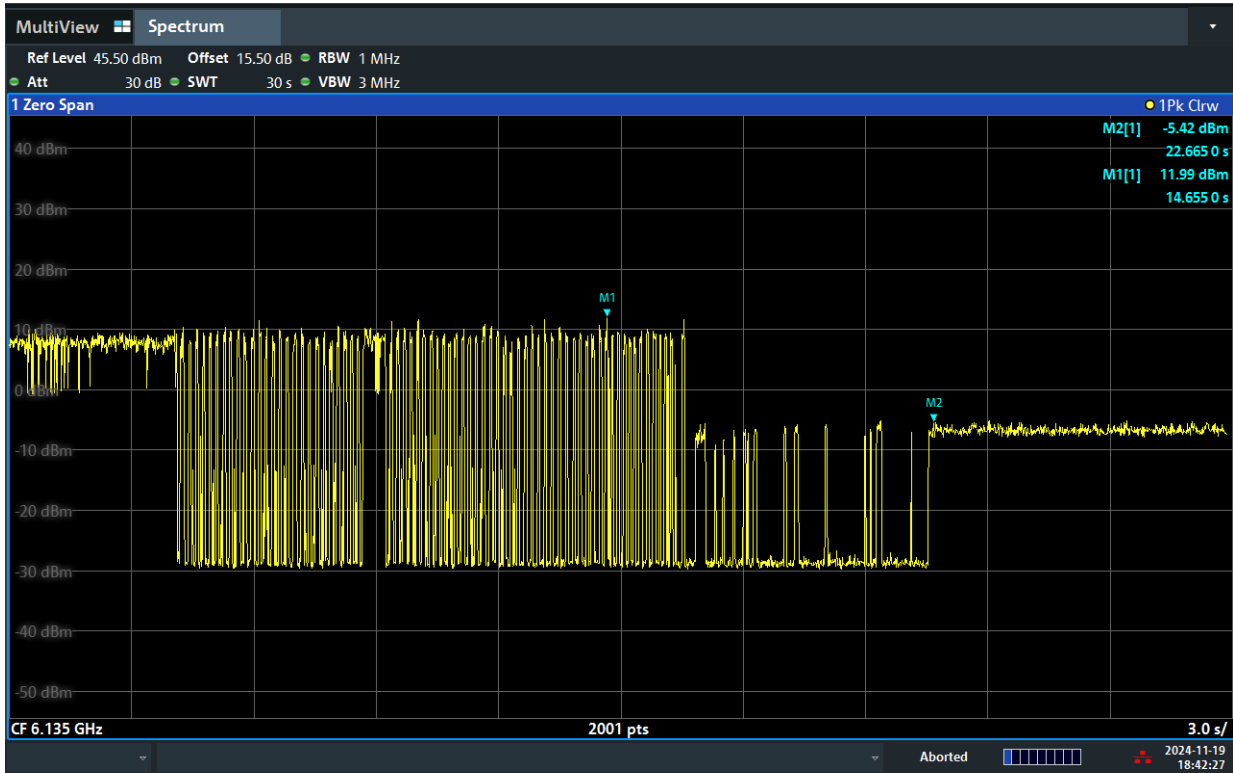


Figure 7-13. Test Instrument & Measurement Setup

Test Notes

1. Standard Power AP was set on highest power setting (36dBm EIRP)
2. Standard Power AP and Low Power Indoor AP were configured to transmit on same channel.
3. DUT was configured for SISO transmission so Antenna 0 was measured.

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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06:42:28 PM 11/19/2024

Plot 7-753. Client device observation from Standard Power AP to Low Power Indoor AP

Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)
37	6135	12.35	2.71	15.06

Table 7-122: EUT measured e.i.r.p when established with Standard Power AP

Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)
37	6135	2.33	2.71	5.04

Table 7-123: EUT measured e.i.r.p when established with Low Power Indoor AP

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Smart Speaker with Display FCC ID: BCGA3218** and **IC: 579C-A3218** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-248 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA3218 IC: 579C-A3218	MEASUREMENT REPORT (CERTIFICATION)	Test Dates: 10/14/2024 - 12/12/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
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