

7.8 Radiated Spurious Emissions – Above 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 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. All channels, modes (e.g. 802.11a, 802.11ax(SU) (20MHz BW), 802.11ax(SU) (40MHz BW), 802.11ax(SU) (80MHz), and modulations/data rates were investigated among the UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of -27 dBm/MHz. Emissions found in a restricted band are subject to the limits of 15.209 and RSS-Gen (7.4.3) as shown in the table below.

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-26. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Sections 12.7.7, 12.7.6.
KDB 789033 D02 v02r01 – Section G

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = 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 diagram below.

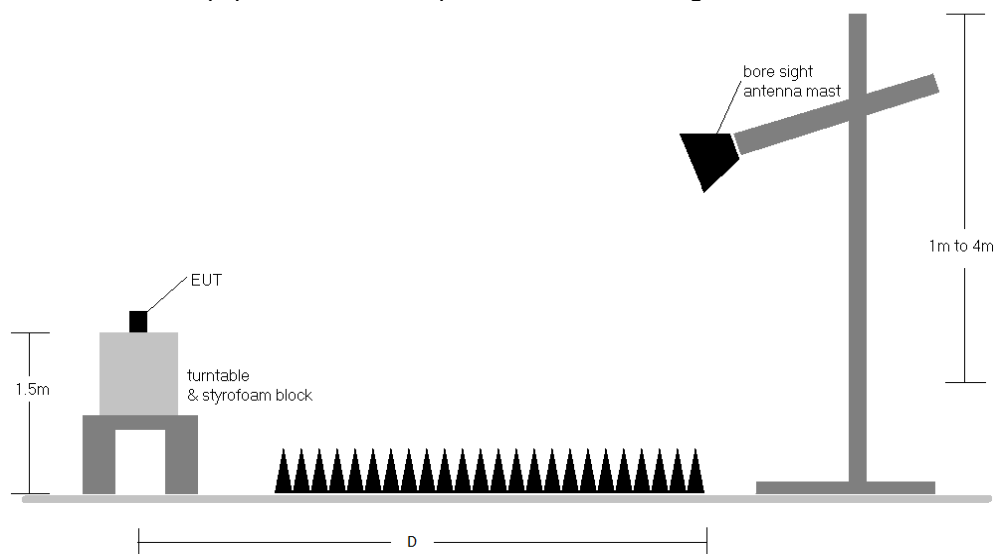


Figure 7-7. Test Instrument & Measurement Setup

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and section 7.5 of RSS-Gen are below the limit shown in Table 7-26.
2. All spurious emissions lying in restricted bands specified in §15.205 and section 7.5 of RSS-Gen are below the limit shown in Table 7-26. All spurious emissions that do not lie in a restricted band are subject to a limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. All data rates were investigated and only the worse case is reported
9. The unit was tested with all possible modes and only the highest emission is reported.
10. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
11. All radiated measurements were tested at the highest supported power setting per band.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

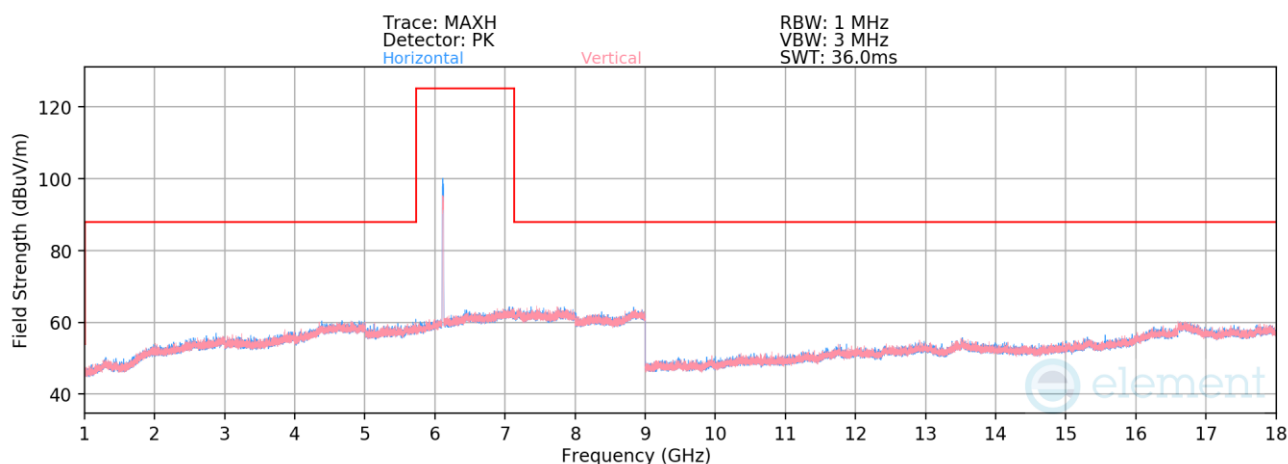
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.8.2 to 7.8.10 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.8.1 SDM Radiated Spurious Emission



Plot 7-159. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 33)

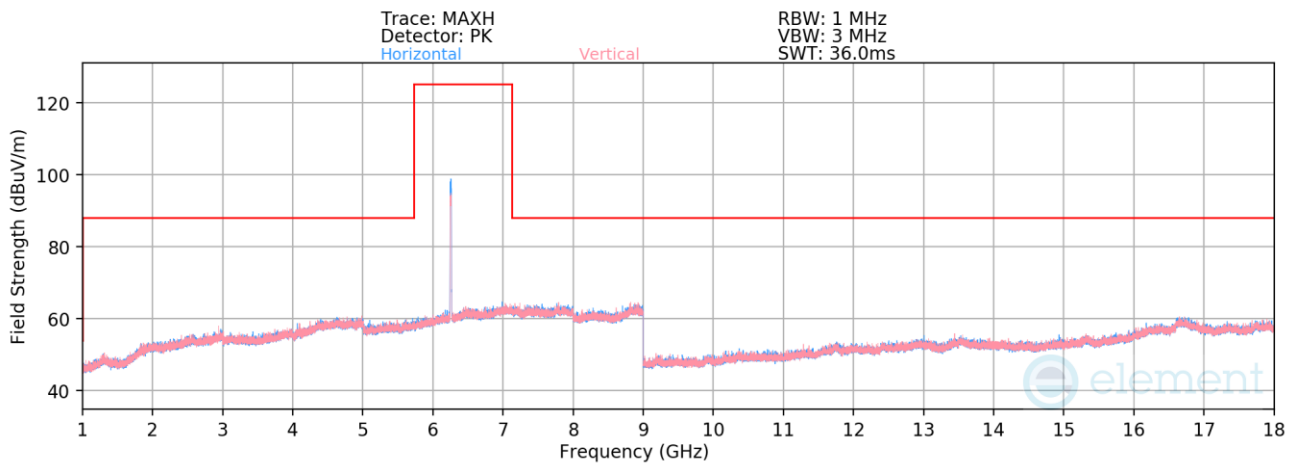
Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6115MHz
Channel:	33

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 12230.00	Average	V	-	-	-82.51	17.36	41.85	53.98	-12.13
* 12230.00	Peak	V	-	-	-70.88	17.36	53.48	73.98	-20.50

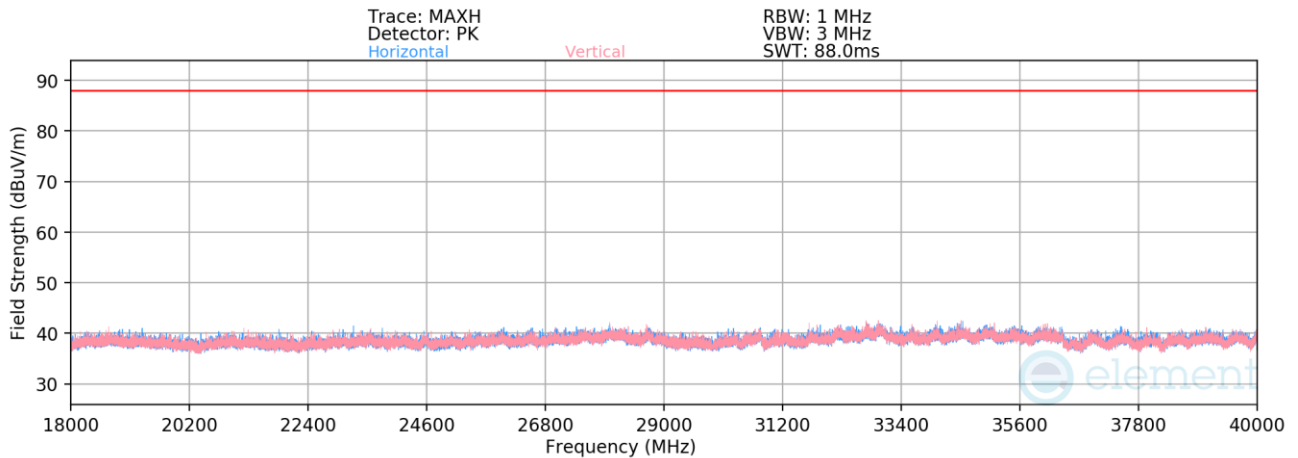
Table 7-27. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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Plot 7-160. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 61)



Plot 7-161. Radiated Spurious Emissions 18-40GHz SDM (802.11ax – Ch. 61)

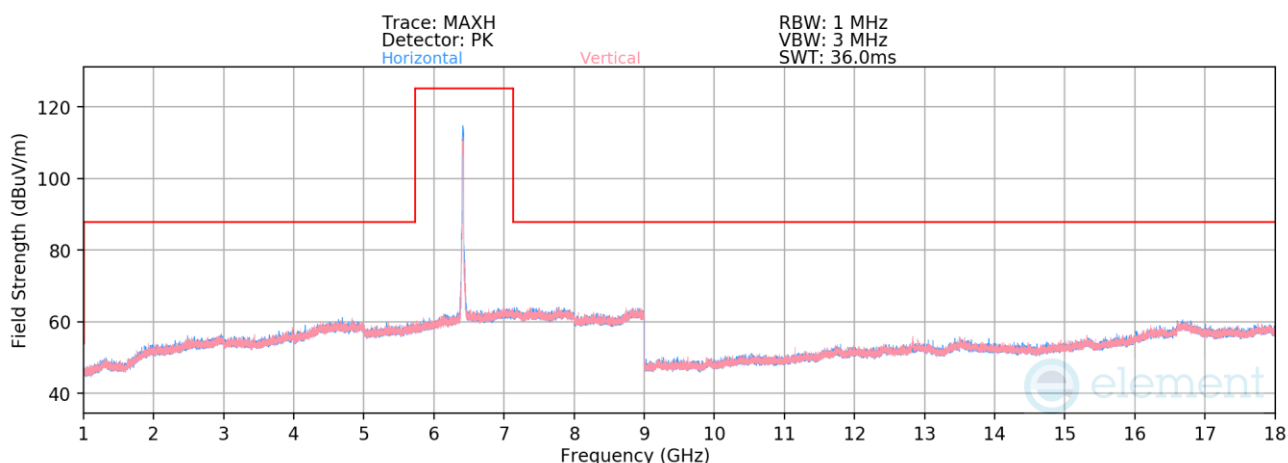
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6255MHz
Channel: 61

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 12510.00	Average	H	-	-	-82.74	17.82	0.00	42.07	53.98	-11.91
* 12510.00	Peak	H	-	-	-71.50	17.82	0.00	53.32	73.98	-20.66
* 18765.00	Average	H	-	-	-62.42	-5.37	-9.54	29.67	53.98	-24.31
* 18765.00	Peak	H	-	-	-50.73	-5.37	-9.54	41.35	73.98	-32.63
25020.00	Average	H	-	-	-61.81	-6.34	-9.54	29.31	68.23	-38.92
25020.00	Peak	H	-	-	-50.48	-6.34	-9.54	40.64	88.23	-47.59
* 31275.00	Average	H	-	-	-62.87	-4.36	-9.54	30.22	53.98	-23.76
* 31275.00	Peak	H	-	-	-51.71	-4.36	-9.54	41.38	73.98	-32.60

Table 7-28. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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Plot 7-162. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 93)

Mode: 802.11ax

Data Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 6415MHz

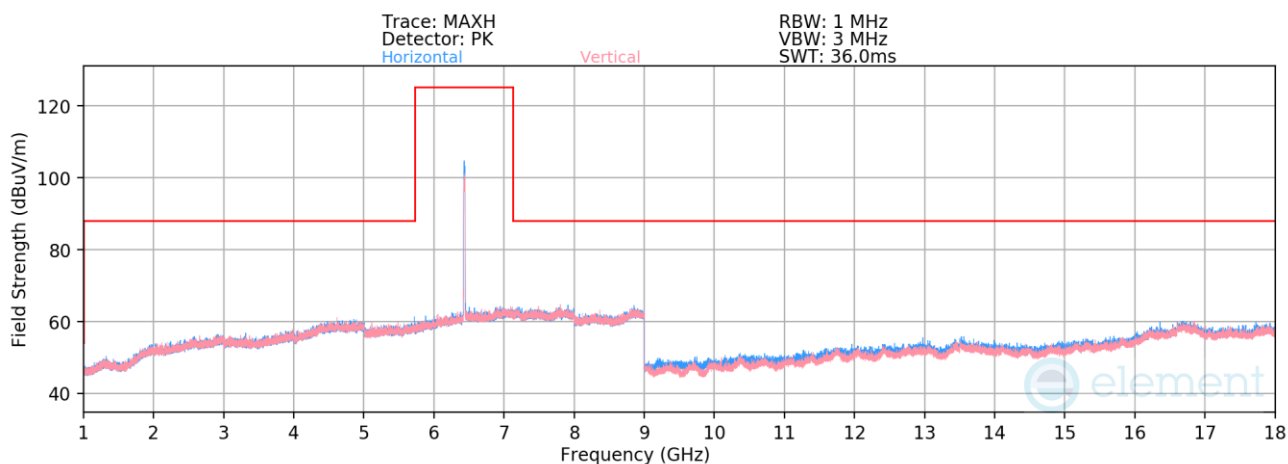
Channel: 93

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12830.00	Average	V	253	127	-77.42	18.23	47.80	68.23	-20.43
12830.00	Peak	V	253	127	-67.00	18.23	58.23	88.23	-30.00

Table 7-29. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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Plot 7-163. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 97)

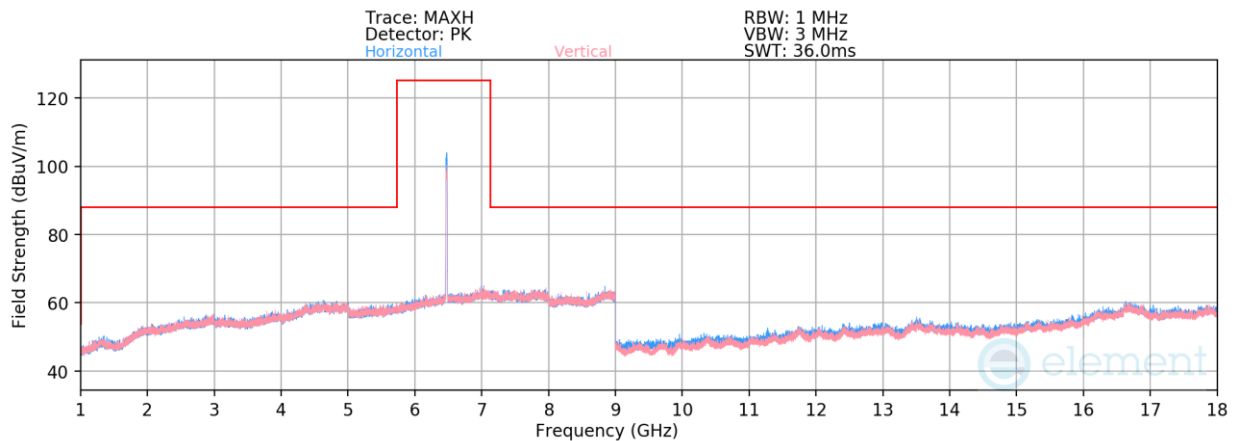
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6435MHz
Channel: 97

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12870.00	Average	V	-	-	-82.04	18.40	43.37	68.23	-24.86
12870.00	Peak	V	-	-	-70.40	18.40	55.00	88.23	-33.23

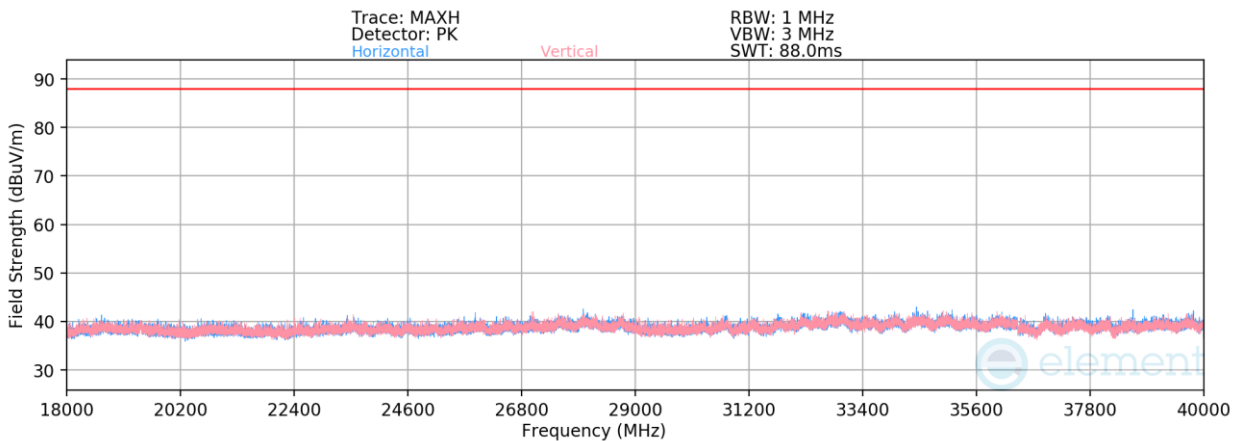
Table 7-30. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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Plot 7-164. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 105)



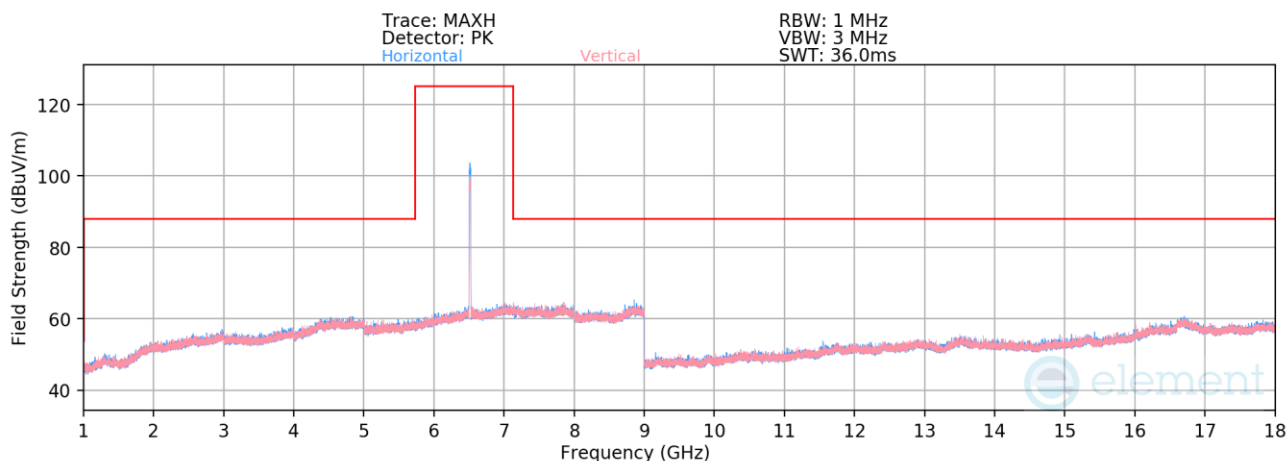
Plot 7-165. Radiated Spurious Emissions 18-40GHz SDM (802.11ax – Ch. 105)

Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6475MHz
Channel:	105

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12950.00	Average	V	-	-	-81.79	18.36	0.00	43.58	68.23	-24.65
12950.00	Peak	V	-	-	-71.38	18.36	0.00	53.98	88.23	-34.25
* 19425.00	Average	V	-	-	-62.06	-5.77	-9.54	29.63	53.98	-24.35
* 19425.00	Peak	V	-	-	-50.50	-5.77	-9.54	41.19	73.98	-32.79
25900.00	Average	V	-	-	-61.13	-5.81	-9.54	30.51	68.23	-37.72
25900.00	Peak	V	-	-	-49.35	-5.81	-9.54	42.30	88.23	-45.93
32375.00	Average	V	-	-	-62.56	-3.85	-9.54	31.05	68.23	-37.18
32375.00	Peak	V	-	-	-50.72	-3.85	-9.54	42.88	88.23	-45.35

Table 7-31. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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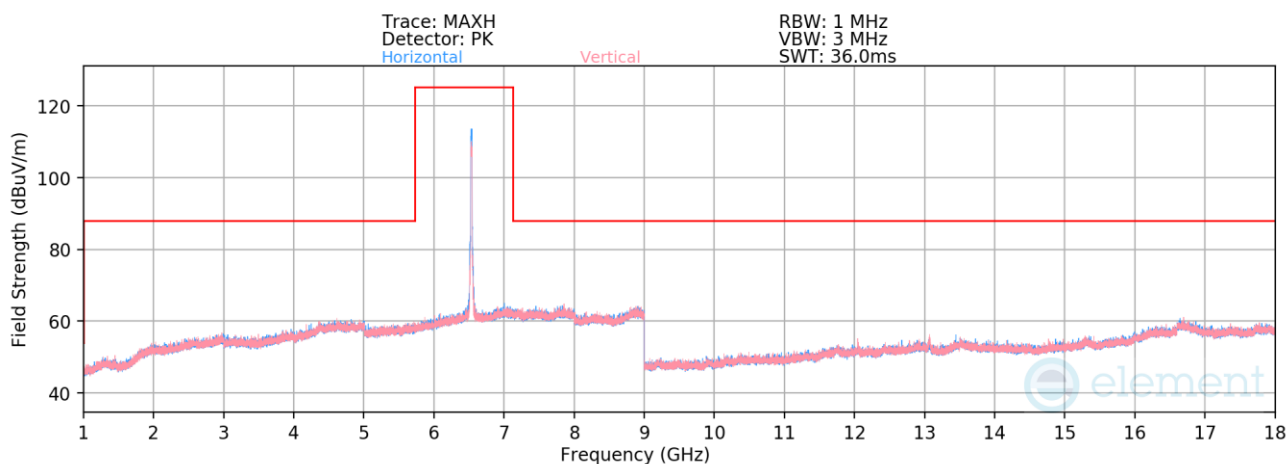
Plot 7-166. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 113)

Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6515MHz
Channel:	113

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13030.00	Average	V	-	-	-81.81	18.50	43.70	68.23	-24.53
13030.00	Peak	V	-	-	-71.26	18.50	54.25	88.23	-33.98

Table 7-32. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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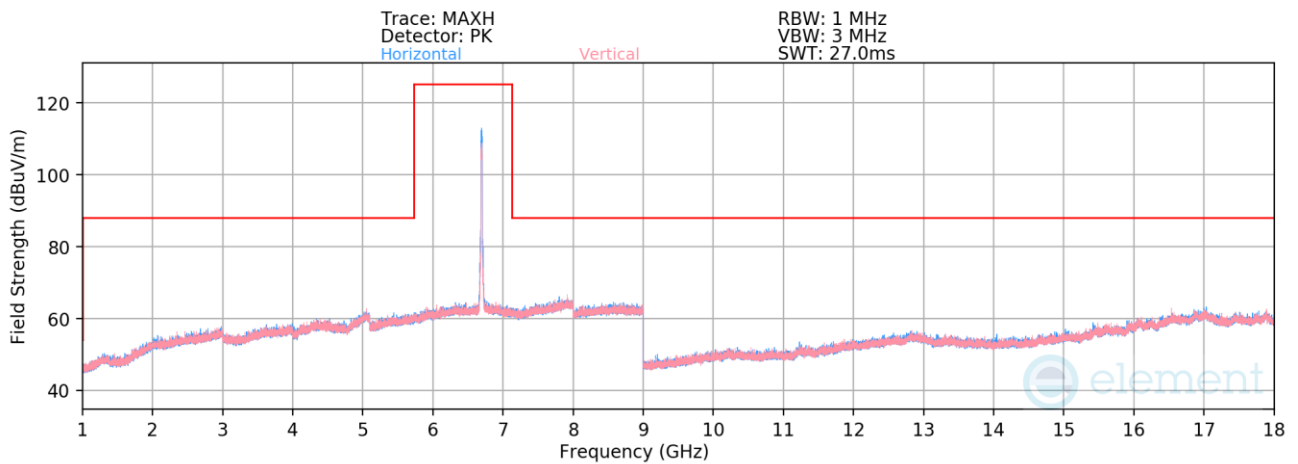
Plot 7-167. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 117)

Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6535MHz
Channel:	117

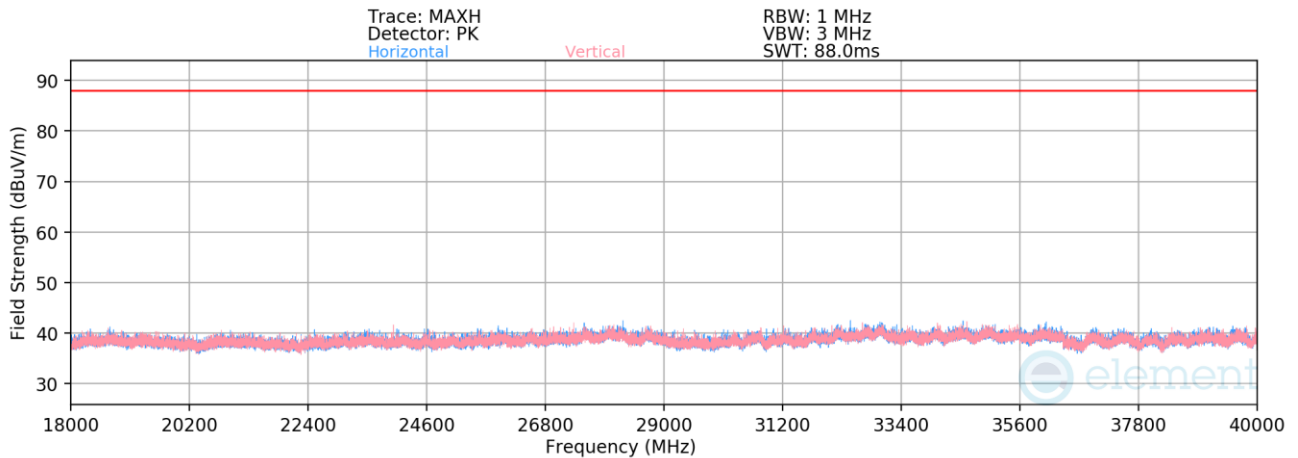
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13070.00	Average	V	211	56	-76.62	18.72	49.11	68.23	-19.12
13070.00	Peak	V	211	56	-66.49	18.72	59.23	88.23	-29.00

Table 7-33. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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Plot 7-168. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 149)



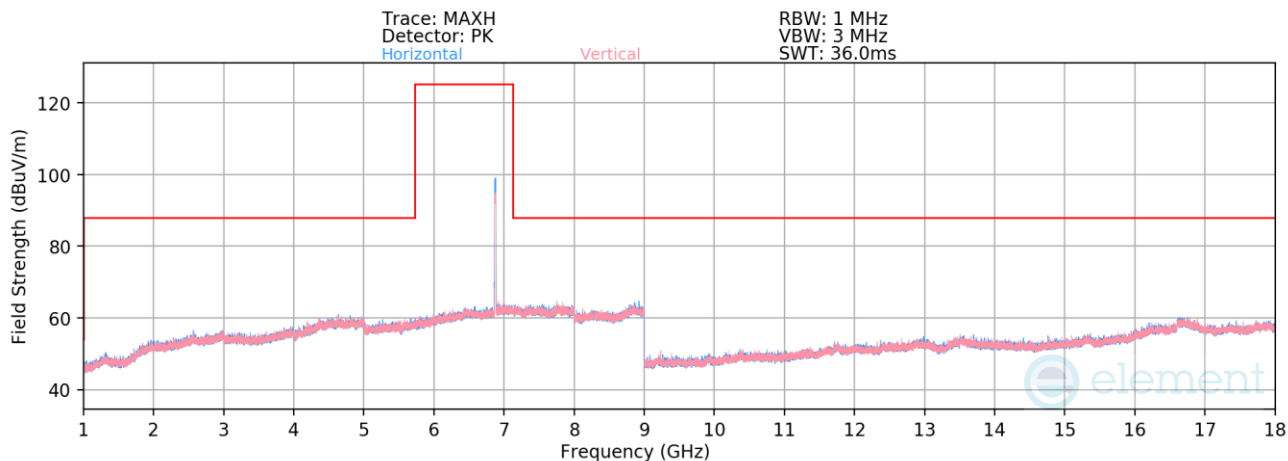
Plot 7-169. Radiated Spurious Emissions 18-40GHz SDM (802.11ax – Ch. 149)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6695MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 13390.00	Average	V	201	65	-79.07	18.60	0.00	46.53	53.98	-7.45
* 13390.00	Peak	V	201	65	-67.26	18.60	0.00	58.34	73.98	-15.64
* 20085.00	Average	V	-	-	-61.87	-6.27	-9.54	29.32	53.98	-24.66
* 20085.00	Peak	V	-	-	-50.34	-6.27	-9.54	40.84	73.98	-33.14
26780.00	Average	V	-	-	-61.43	-5.86	-9.54	30.17	68.23	-38.06
26780.00	Peak	V	-	-	-49.75	-5.86	-9.54	41.85	88.23	-46.38
26780.00	Average	V	-	-	-60.89	-4.38	-9.54	32.18	68.23	-36.05
26780.00	Peak	V	-	-	-49.32	-4.38	-9.54	43.76	88.23	-44.47

Table 7-34. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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Plot 7-170. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 185)

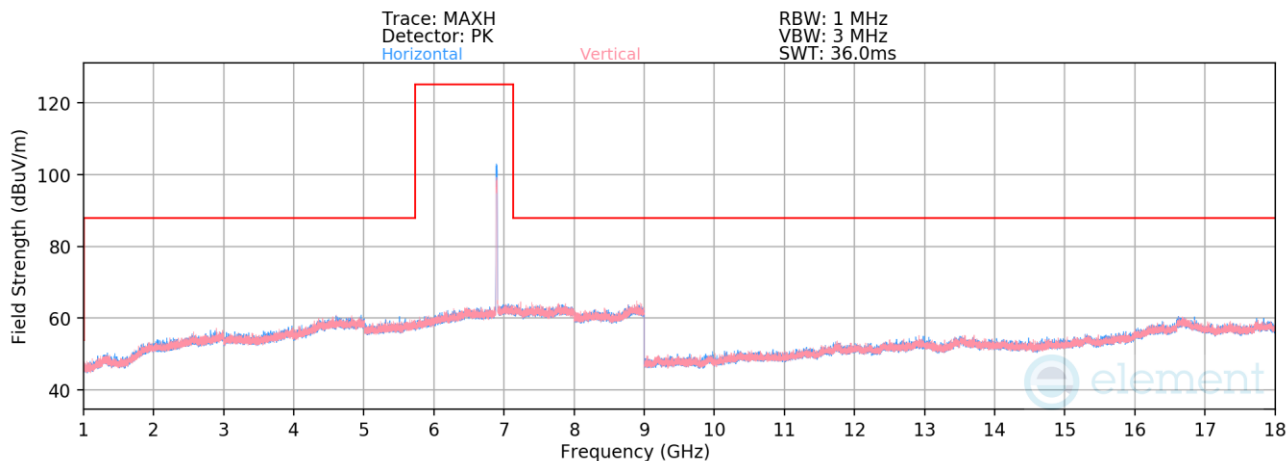
Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 6875MHz
Channel: 185

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]
13750.00	Average	V	-	-	-82.39	18.59	43.20	68.23	-25.03
13750.00	Peak	V	-	-	-70.28	18.59	55.32	88.23	-32.91

Table 7-35. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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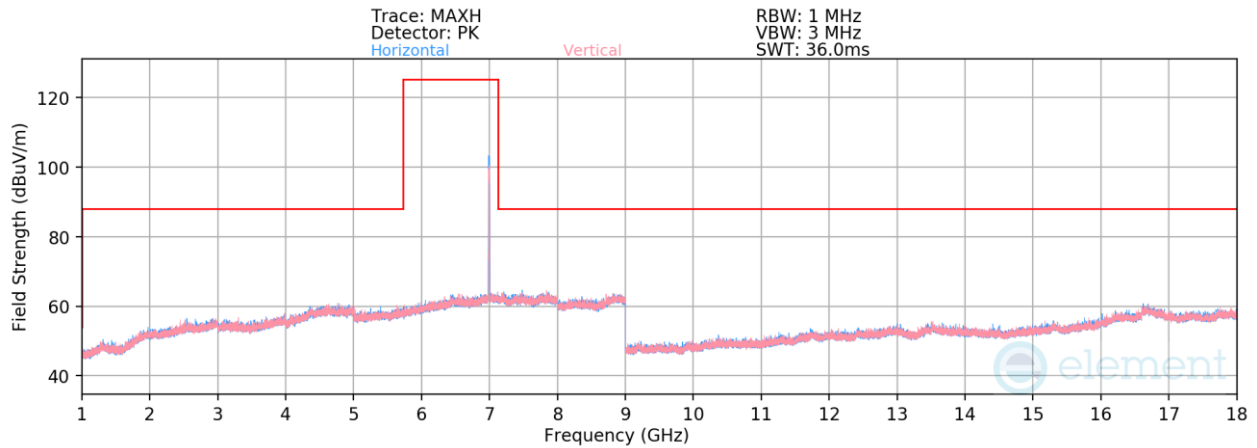
Plot 7-171. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 189)

Mode:	802.11ax
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6895MHz
Channel:	189

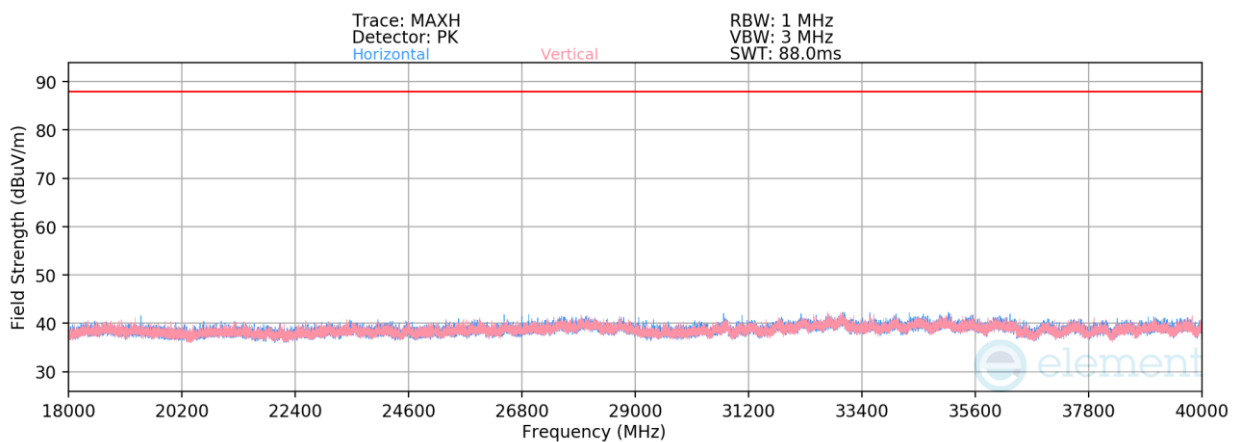
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13790.00	Average	V	-	-	-82.65	18.53	42.88	68.23	-25.35
13790.00	Peak	V	-	-	-71.42	18.18	53.77	88.23	-34.46

Table 7-36. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
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Plot 7-172. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 209)



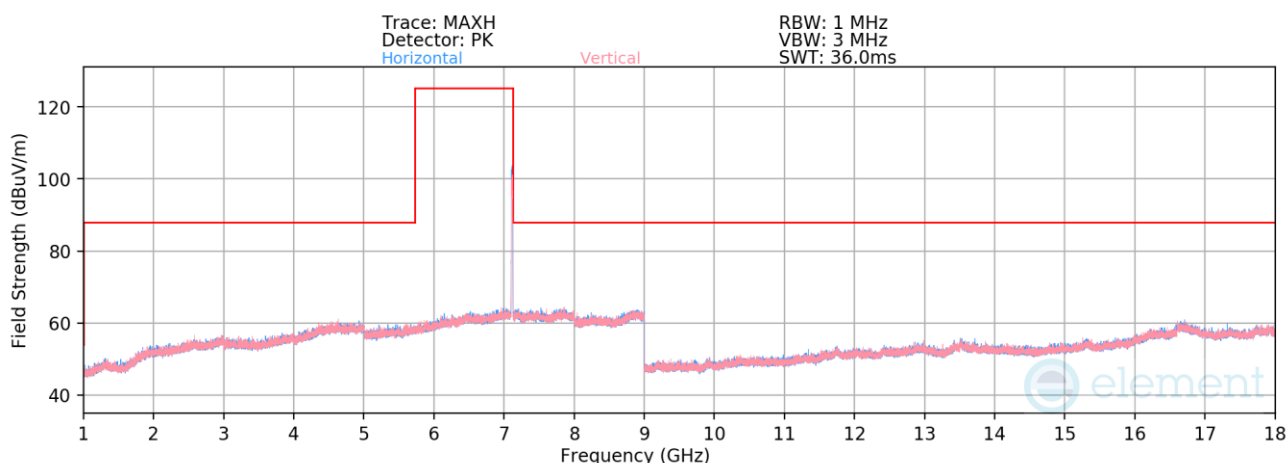
Plot 7-173. Radiated Spurious Emissions 18-40GHz SDM (802.11ax – Ch. 209)

Mode: 802.11ax
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 6995MHz
 Channel: 209

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13990.00	Average	V	-	-	-81.67	18.32	0.00	43.65	68.23	-24.58
13990.00	Peak	V	-	-	-70.56	18.29	0.00	54.72	88.23	-33.51
* 20985.00	Average	V	-	-	-61.37	-5.98	-9.54	30.11	53.98	-23.87
* 20985.00	Peak	V	-	-	-50.19	-5.98	-9.54	41.29	73.98	-32.69
27980.00	Average	V	-	-	-61.91	-4.50	-9.54	31.05	68.23	-37.18
27980.00	Peak	V	-	-	-49.50	-4.36	-9.54	43.60	88.23	-44.63
34975.00	Average	V	-	-	-61.24	-4.44	-9.54	31.78	68.23	-36.45
34975.00	Peak	V	-	-	-50.13	-4.44	-9.54	42.89	88.23	-45.34

Table 7-37. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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.		



Plot 7-174. Radiated Spurious Emissions 1-18GHz SDM (802.11ax – Ch. 233)

Mode: 802.11ax
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 7115MHz
Channel: 233

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]
14230.00	Average	V	-	-	-81.93	18.46	43.53	68.23	-24.70
14230.00	Peak	V	-	-	-71.18	18.46	54.29	88.23	-33.94

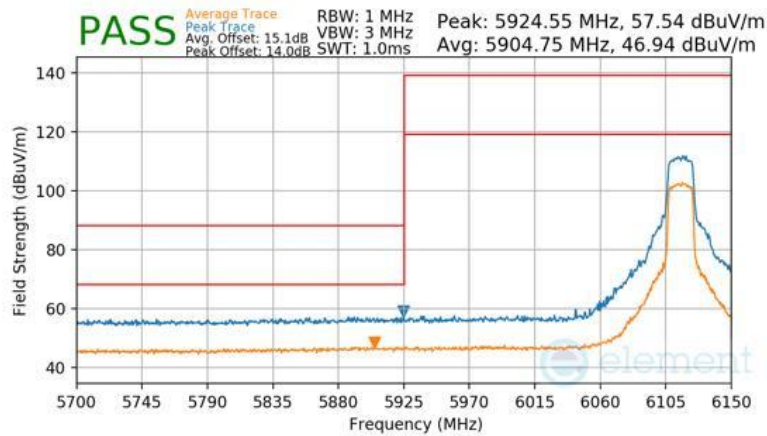
Table 7-38. Radiated Spurious Emission Measurements SDM

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 104 of 133

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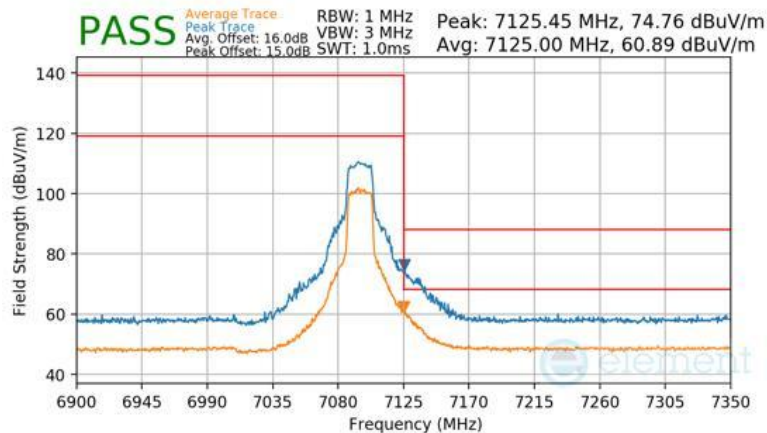
7.8.2 Antenna 0 Radiated Band Edge Measurements (20MHz BW)

Mode	802.11a
Data Rate	54Mbps
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-175 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

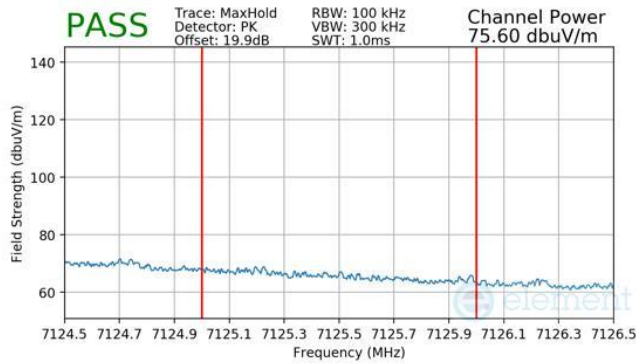
Mode	802.11a
Data Rate	54Mbps
Distance of Measurement	3 Meters
Operating Frequency	7095MHz
Channel	229



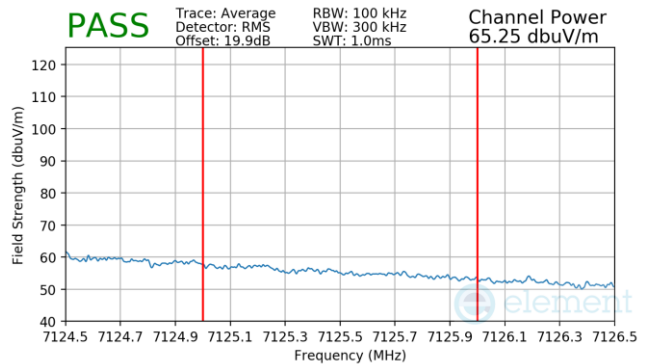
Plot 7-176 Antenna 0 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 105 of 133

Mode	802.11a
Data Rate	54Mbps
Distance of Measurement	3 Meters
Operating Frequency	7115MHz
Channel	233

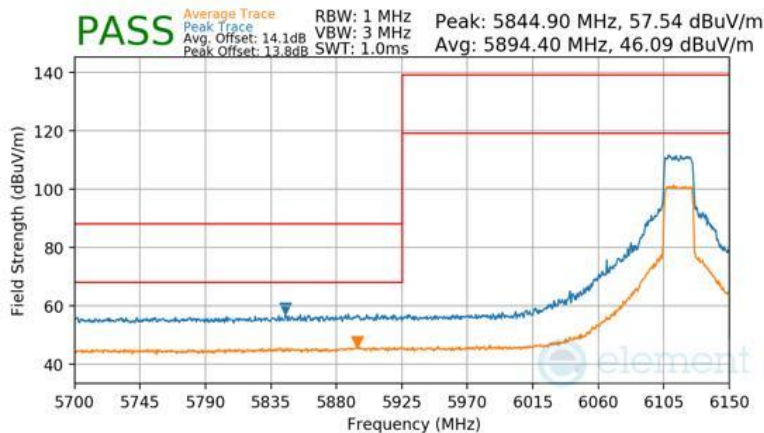


Plot 7-177 Antenna 0 Radiated Integrated Band Edge (Peak – UNII Band 8)



Plot 7-178 Antenna 0 Radiated Integrated Band Edge (Average – UNII Band 8)

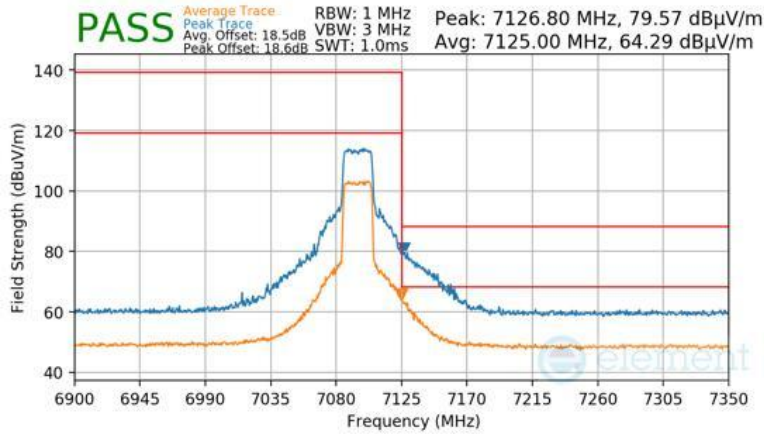
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-179 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

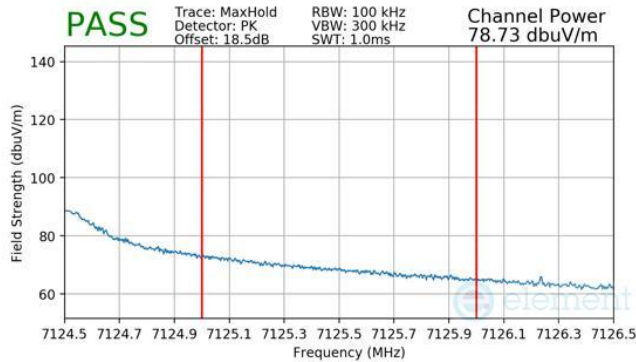
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 106 of 133

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7095MHz
Channel	229

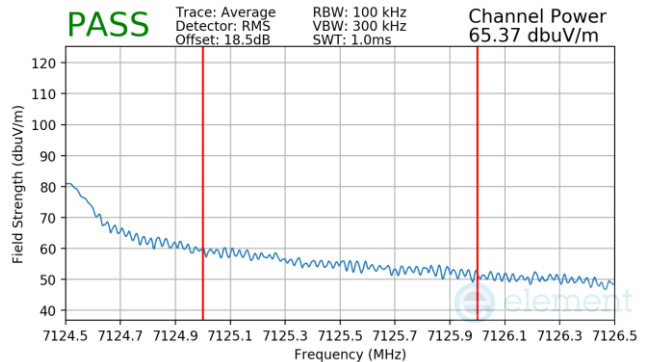


Plot 7-180 Antenna 0 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7115MHz
Channel	233



Plot 7-181 Antenna 0 Radiated Integrated Band Edge (Peak – UNII Band 8)

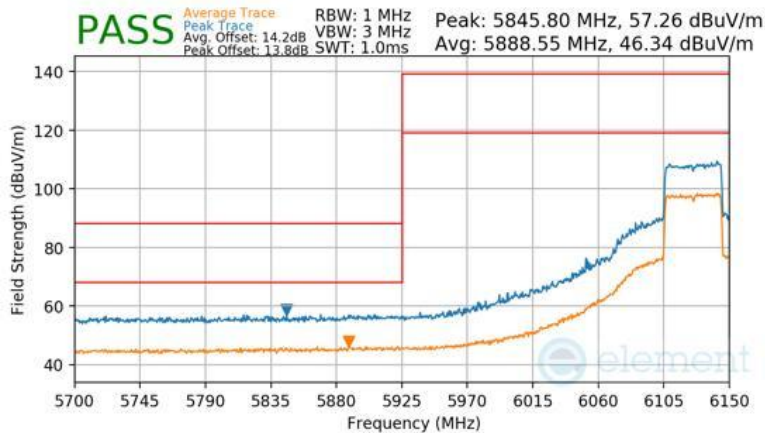


Plot 7-182 Antenna 0 Radiated Integrated Band Edge (Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 107 of 133

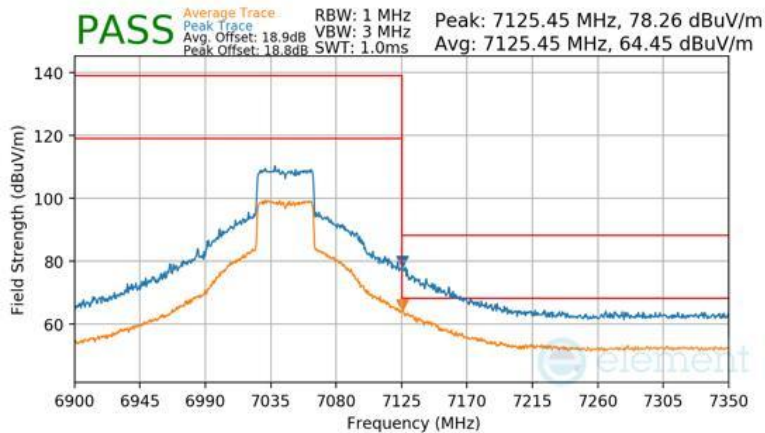
7.8.3 Antenna 0 Radiated Band Edge Measurements (40MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6125MHz
Channel	35



Plot 7-183 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

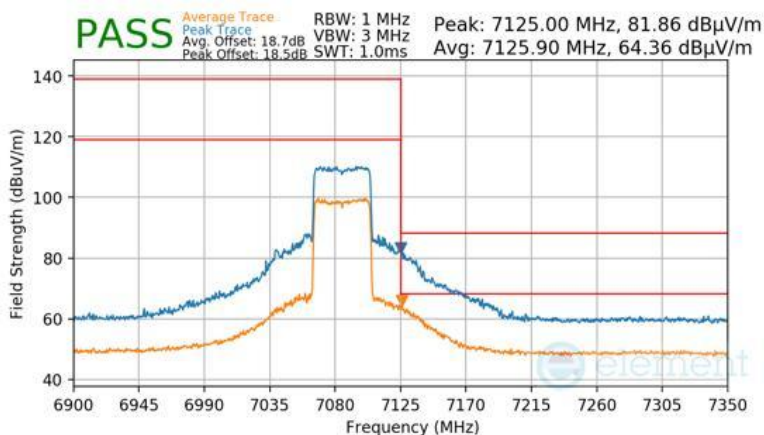
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7045MHz
Channel	219



Plot 7-184 Antenna 0 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 108 of 133

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7085MHz
Channel	227

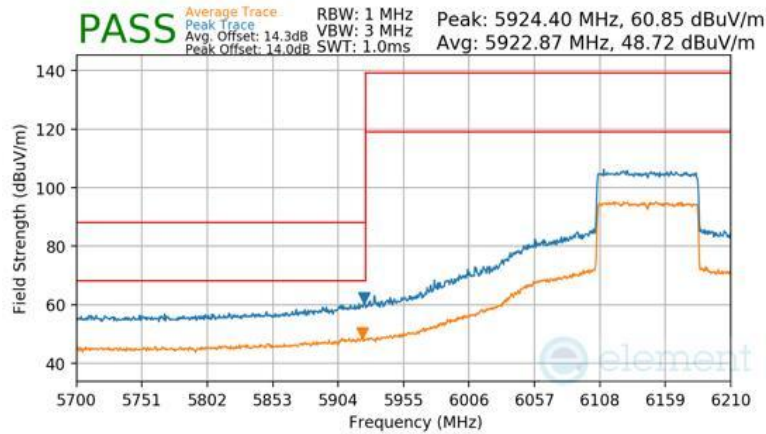


Plot 7-185 Antenna 0 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 109 of 133

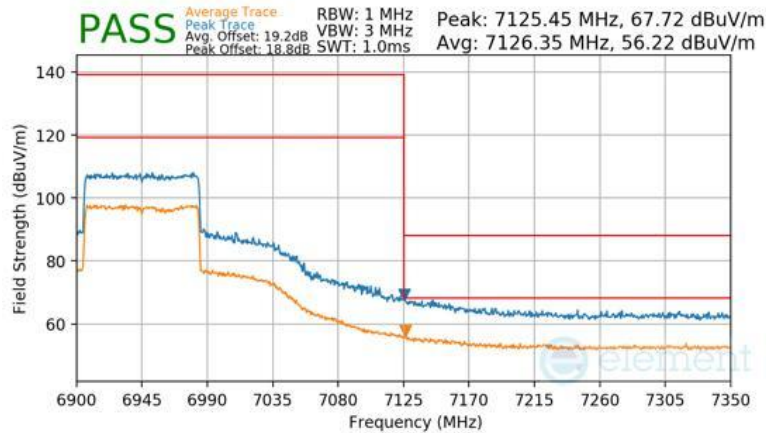
7.8.4 Antenna 0 Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39



Plot 7-186 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6945MHz
Channel	199

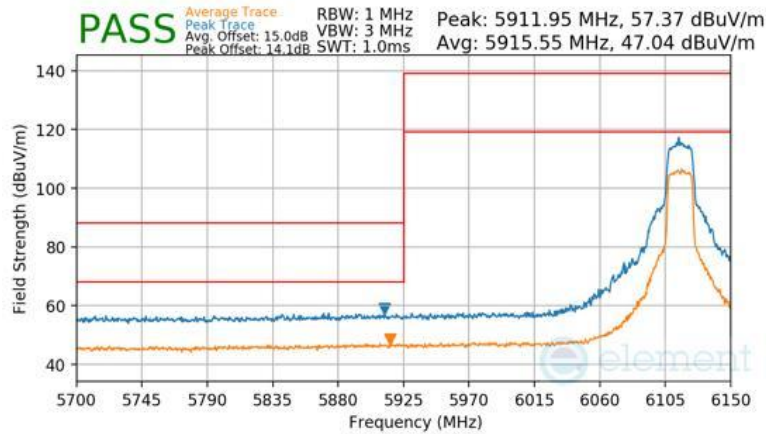


Plot 7-187 Antenna 0 Radiated Lower Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 110 of 133

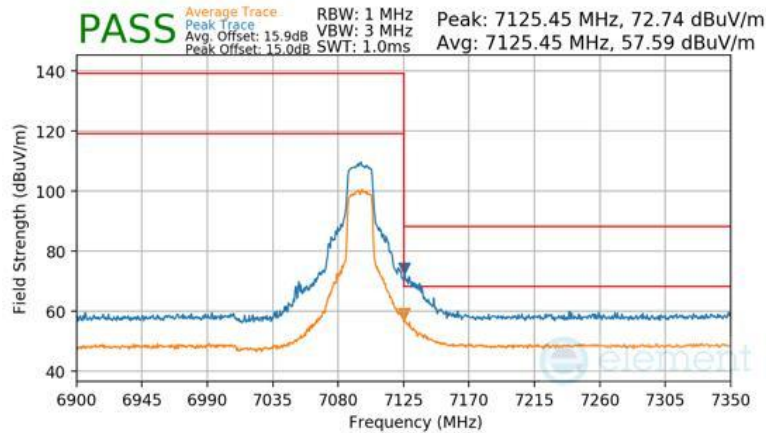
7.8.5 Antenna 1 Radiated Band Edge Measurements (20MHz BW)

Mode	802.11a
Data Rate	54Mbps
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-189 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

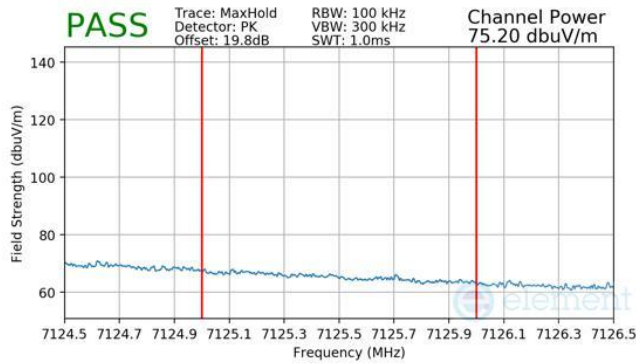
Mode	802.11a
Data Rate	54Mbps
Distance of Measurement	3 Meters
Operating Frequency	7095MHz
Channel	229



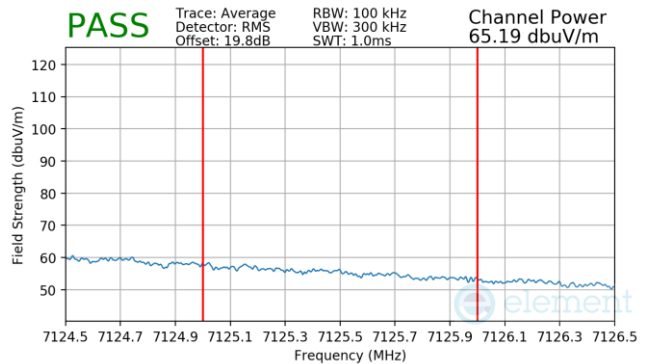
Plot 7-190 Antenna 1 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 112 of 133

Mode	802.11a
Data Rate	54Mbps
Distance of Measurement	3 Meters
Operating Frequency	7115MHz
Channel	233

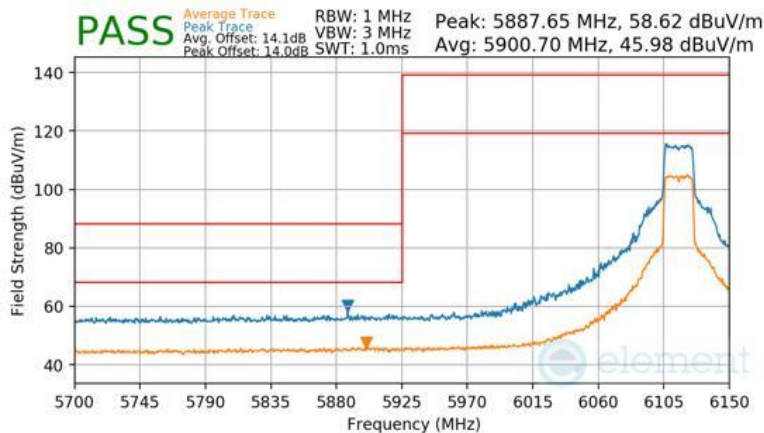


Plot 7-191 Antenna 1 Radiated Integrated Band Edge (Peak – UNII Band 8)



Plot 7-192 Antenna 1 Radiated Integrated Band Edge (Average – UNII Band 8)

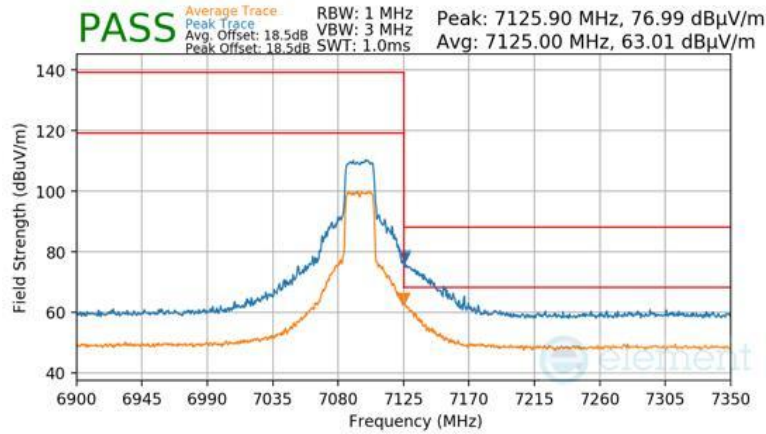
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-193 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

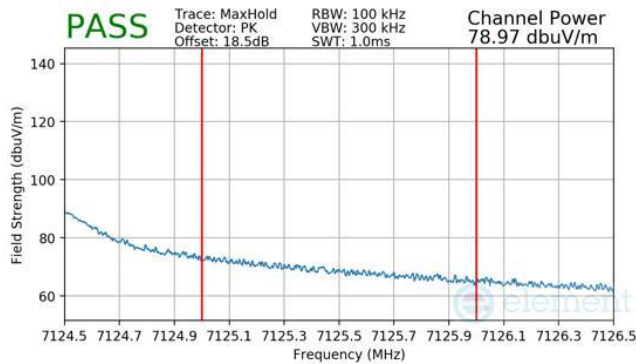
FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 113 of 133

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7095MHz
Channel	229

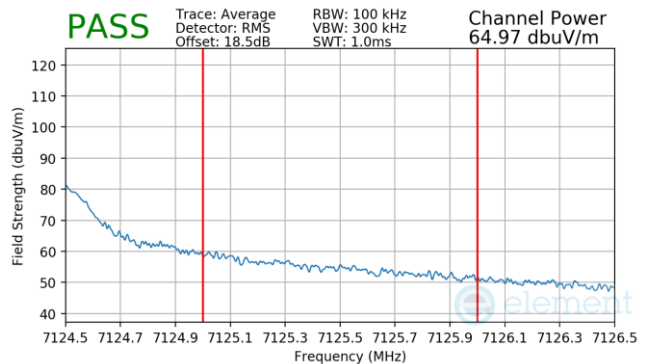


Plot 7-194 Antenna 1 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7115MHz
Channel	233



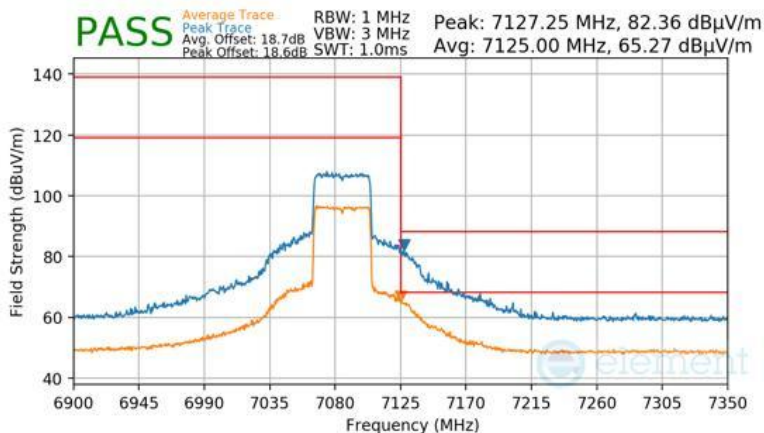
Plot 7-195 Antenna 1 Radiated Integrated Band Edge (Peak – UNII Band 8)



Plot 7-196 Antenna 1 Radiated Integrated Band Edge (Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 114 of 133

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7085MHz
Channel	227



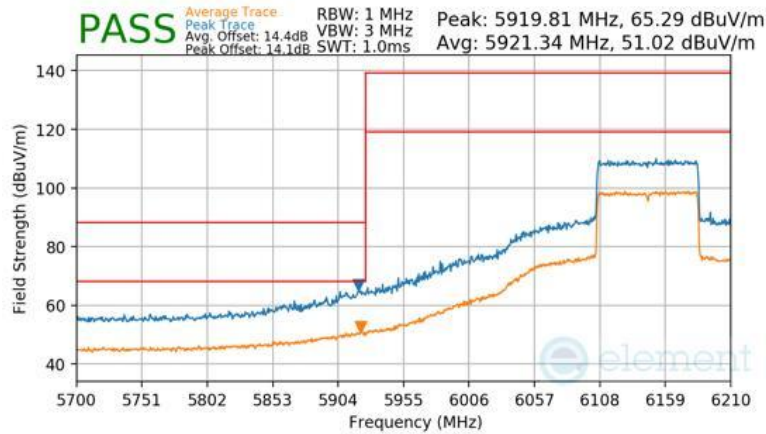
Plot 7-199 Antenna 1 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 116 of 133

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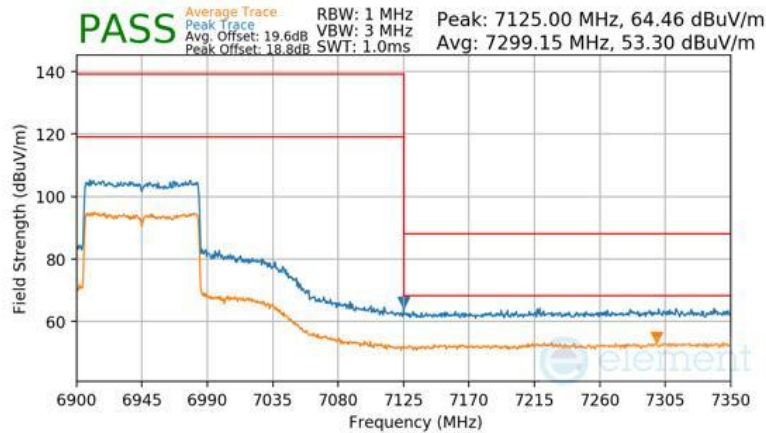
7.8.7 Antenna 1 Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39



Plot 7-200 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 5)

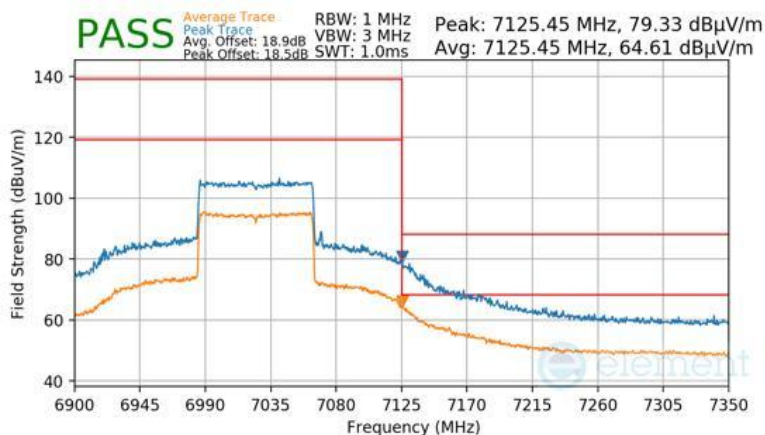
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6945MHz
Channel	199



Plot 7-201 Antenna 1 Radiated Lower Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 117 of 133

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7025MHz
Channel	215

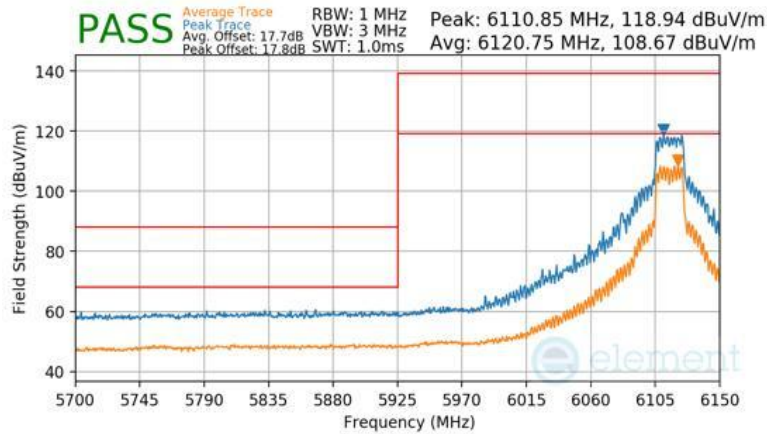


Plot 7-202 Antenna 1 Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 118 of 133

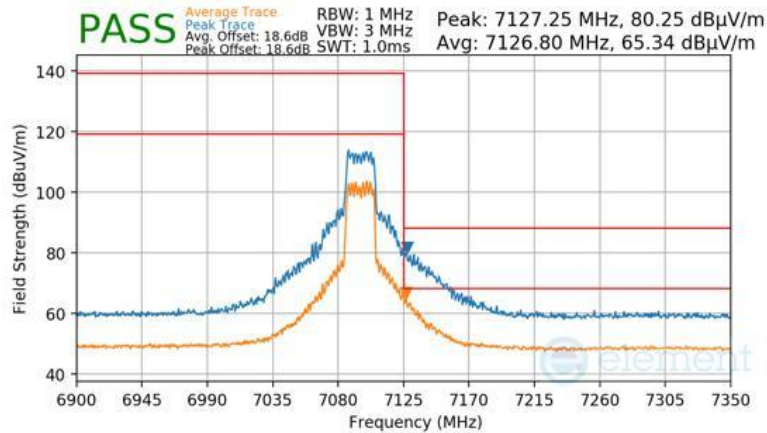
7.8.8 SDM Radiated Band Edge Measurements (20MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6115MHz
Channel	33



Plot 7-203 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

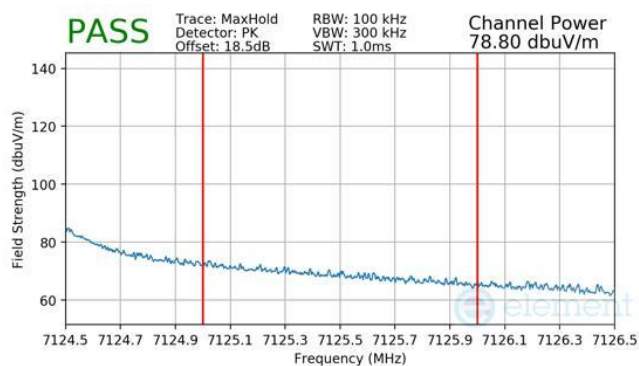
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7095MHz
Channel	229



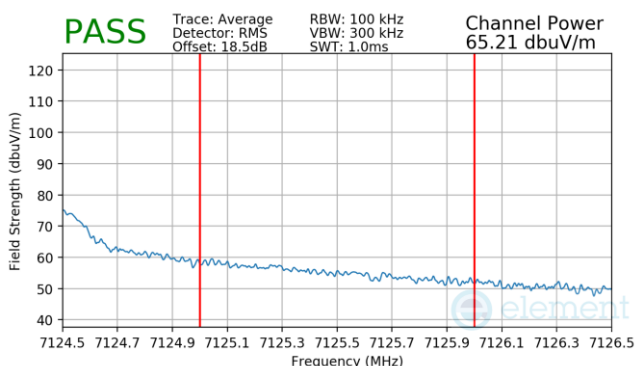
Plot 7-204 SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 119 of 133

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7115MHz
Channel	233



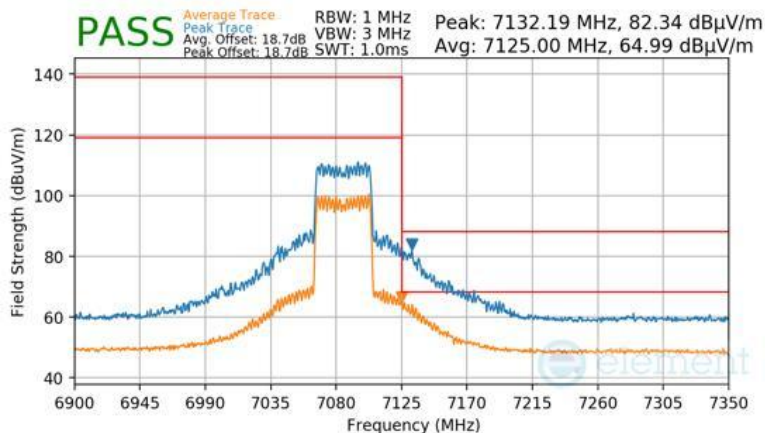
Plot 7-205 SDM Radiated Integrated Band Edge (Peak – UNII Band 8)



Plot 7-206 SDM Radiated Integrated Band Edge (Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 120 of 133

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7085MHz
Channel	227

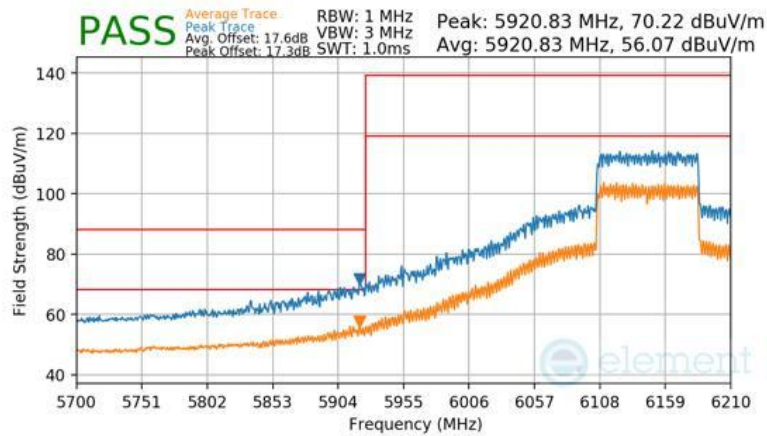


Plot 7-209 SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 122 of 133

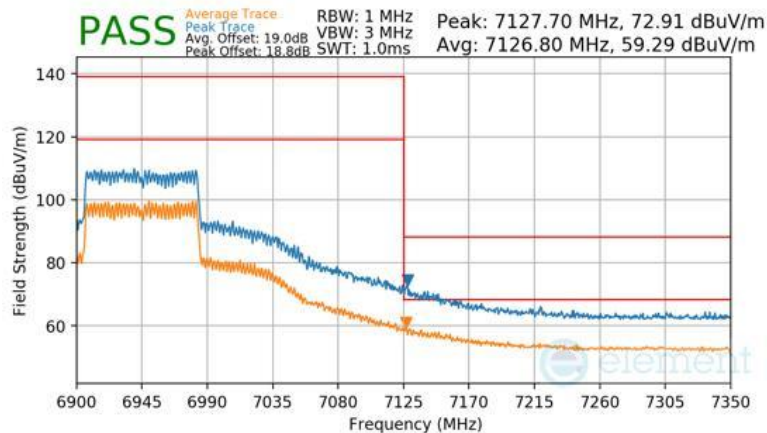
7.8.10 SDM Radiated Band Edge Measurements (80MHz BW)

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6145MHz
Channel	39



Plot 7-210 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

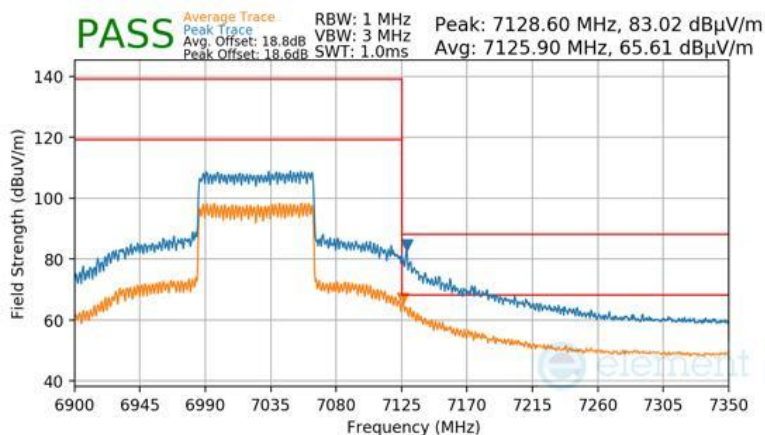
Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	6945MHz
Channel	199



Plot 7-211 SDM Radiated Lower Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 123 of 133

Mode	802.11ax-SU
Data Rate	MCS11
Distance of Measurement	3 Meters
Operating Frequency	7025MHz
Channel	215



Plot 7-212 SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 124 of 133

7.9 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 must not exceed the limits shown in Table 7-39 per Section 15.209 and RSS-Gen (7.4.3).

Frequency	Field Strength [$\mu\text{V/m}$]	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 7-39. 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

FCC ID: BCGA3374 IC: 579C-A3374		Test Dates: 05/15/2025 - 02/28/2026	EUT Type: Smart Speaker	Approved by: Technical Manager
Test Report S/N: 1C2505300067-12-R1.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 125 of 133

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Test Setup

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

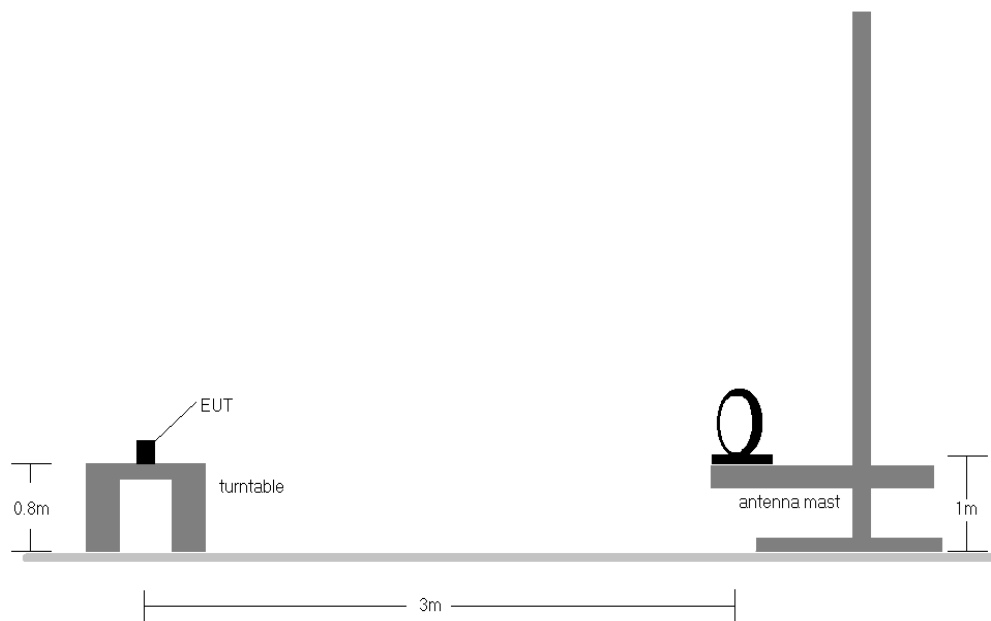


Figure 7-8. Radiated Test Setup < 30MHz

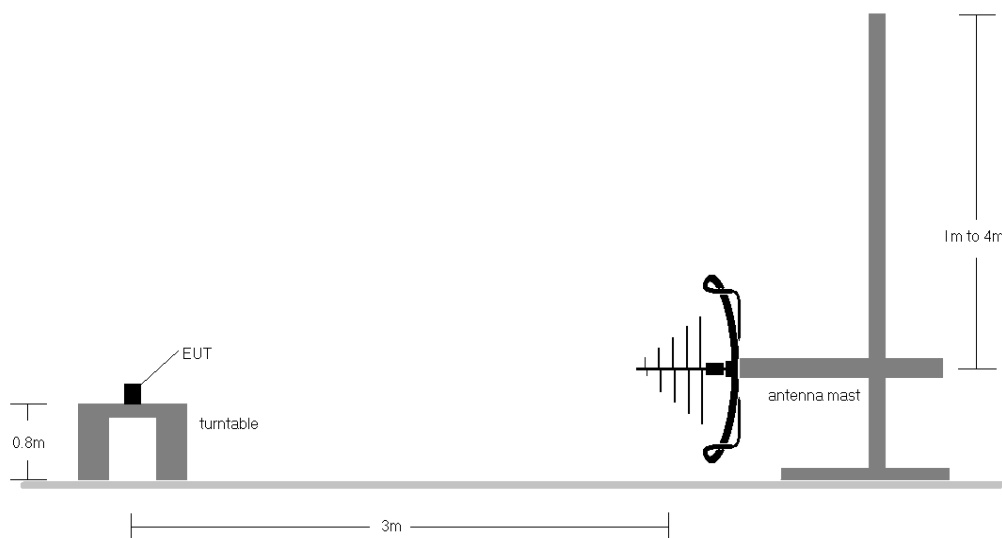


Figure 7-9. Radiated Test Setup < 1GHz

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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 7-39.
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 with its standard battery.
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. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
10. All antenna configurations were investigated and only the worst case is reported.
11. The unit was tested with all possible modes and only the highest emission is reported.

Sample Calculations

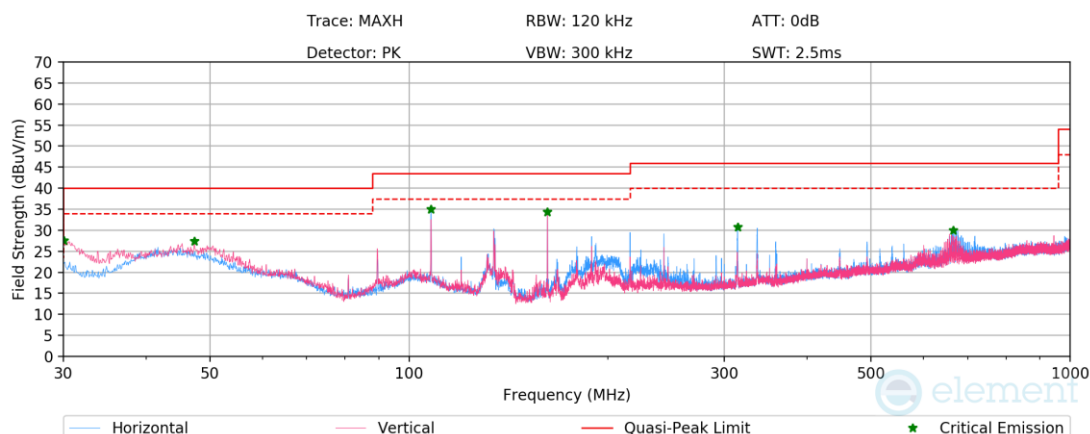
Determining Spurious Emissions Levels

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

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7.9.1 SDM Radiated Spurious Emissions Measurements (Below 1GHz)



Plot 7-213. Radiated Spurious Emissions below 1GHz SDM, 802.11ax, Ch.149 with AC/DC Adapter

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
30.06	Max-Peak	V	100	-	-60.23	-19.21	27.56	40.00	-12.44
47.34	Max-Peak	V	100	-	-64.54	-15.10	27.36	40.00	-12.64
107.94	Max-Peak	H	300	-	-52.51	-18.17	36.32	43.50	-7.18
161.95	Max-Peak	V	100	-	-52.28	-20.34	34.37	43.50	-9.13
314.05	Max-Peak	H	100	-	-61.32	-14.99	30.69	46.00	-15.31
665.31	Max-Peak	H	100	-	-69.15	-7.89	29.96	46.00	-16.04

Table 7-40. Radiated Spurious Emissions Measurement below 1GHz SDM, 802.11ax, Ch.149 with AC/DC Adapter

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7.10 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 7-41. 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

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Test Setup

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

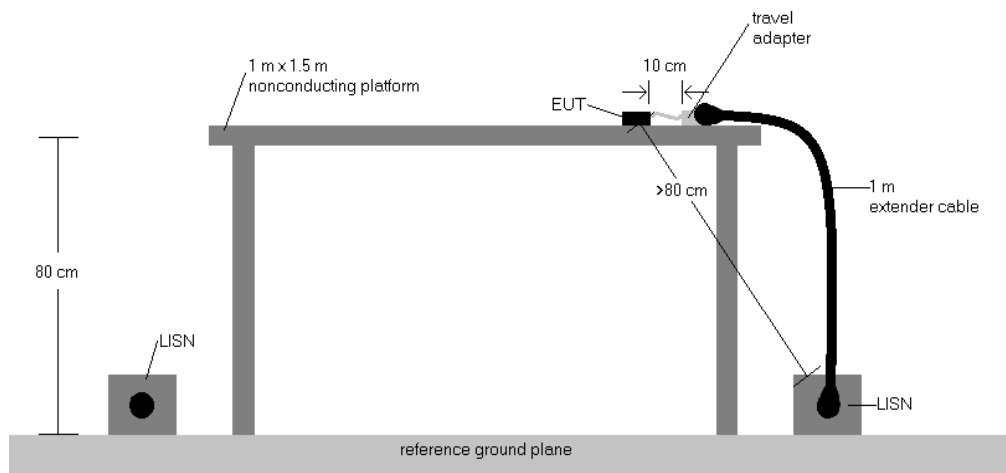


Figure 7-10. Test Instrument & Measurement Setup

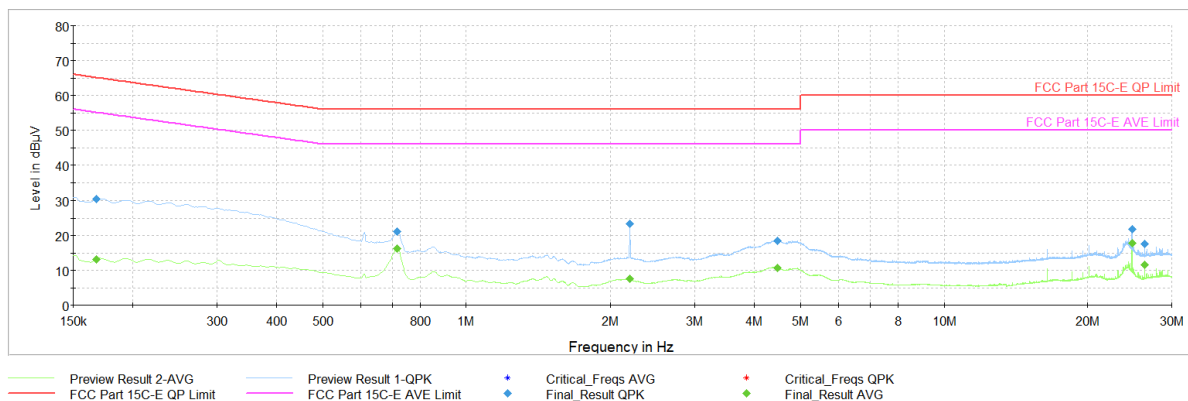
Test Notes

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. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
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.

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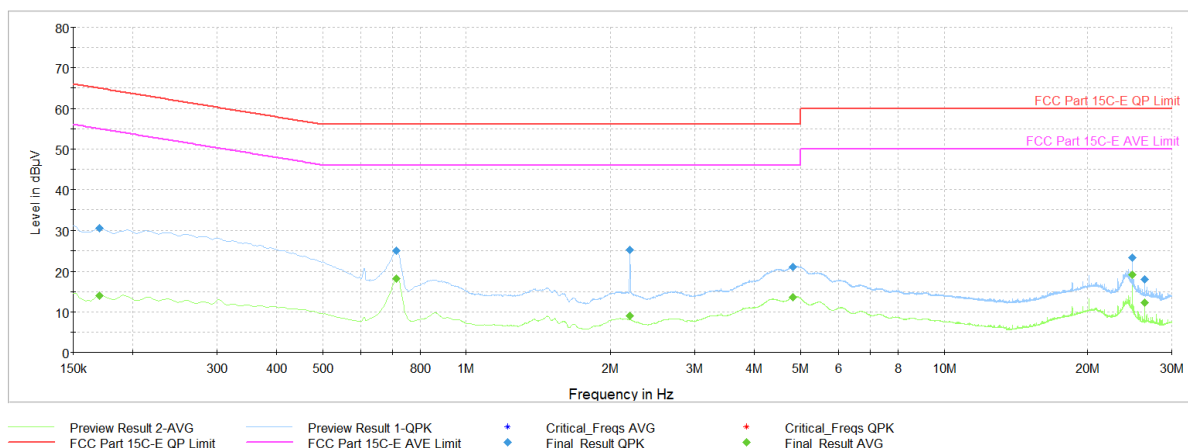


Plot 7-214. AC Line Conducted Plot with 802.11ax SDM – Ch.149 (L1), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	—	13.41	55.06	-41.65	L1	GND
0.168	FINAL	31.2	—	65.06	-33.91	L1	GND
0.717	FINAL	—	16.93	46.00	-29.07	L1	GND
0.717	FINAL	21.9	—	56.00	-34.14	L1	GND
2.195	FINAL	—	8.44	46.00	-37.56	L1	GND
2.195	FINAL	24.2	—	56.00	-31.83	L1	GND
4.468	FINAL	19.2	—	56.00	-36.81	L1	GND
4.468	FINAL	—	11.24	46.00	-34.76	L1	GND
24.756	FINAL	22.1	—	60.00	-37.85	L1	GND
24.756	FINAL	—	18.56	50.00	-31.44	L1	GND
26.302	FINAL	—	12.31	50.00	-37.69	L1	GND
26.302	FINAL	18.1	—	60.00	-41.91	L1	GND

Table 7-42. AC Line Conducted Data with 802.11ax SDM – Ch. 149 (L1) with AC/DC Adapter

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Plot 7-215. AC Line Conducted Plot with 802.11ax SDM – Ch. 149 (N), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.170	FINAL	—	14.37	54.95	-40.58	N	GND
0.170	FINAL	31.0	—	64.95	-33.90	N	GND
0.713	FINAL	—	19.17	46.00	-26.83	N	GND
0.713	FINAL	25.1	—	56.00	-30.94	N	GND
2.195	FINAL	—	9.40	46.00	-36.60	N	GND
2.195	FINAL	25.4	—	56.00	-30.60	N	GND
4.828	FINAL	21.6	—	56.00	-34.38	N	GND
4.828	FINAL	—	13.73	46.00	-32.27	N	GND
24.765	FINAL	23.7	—	60.00	-36.29	N	GND
24.765	FINAL	—	19.95	50.00	-30.05	N	GND
26.313	FINAL	—	12.72	50.00	-37.28	N	GND
26.313	FINAL	18.5	—	60.00	-41.50	N	GND

Table 7-43. AC Line Conducted Data with 802.11ax SDM – Ch. 149 (N), with AC/DC Adapter

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Smart Speaker FCC ID: BCGA3374** and **IC: 579C-A3374** 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.

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