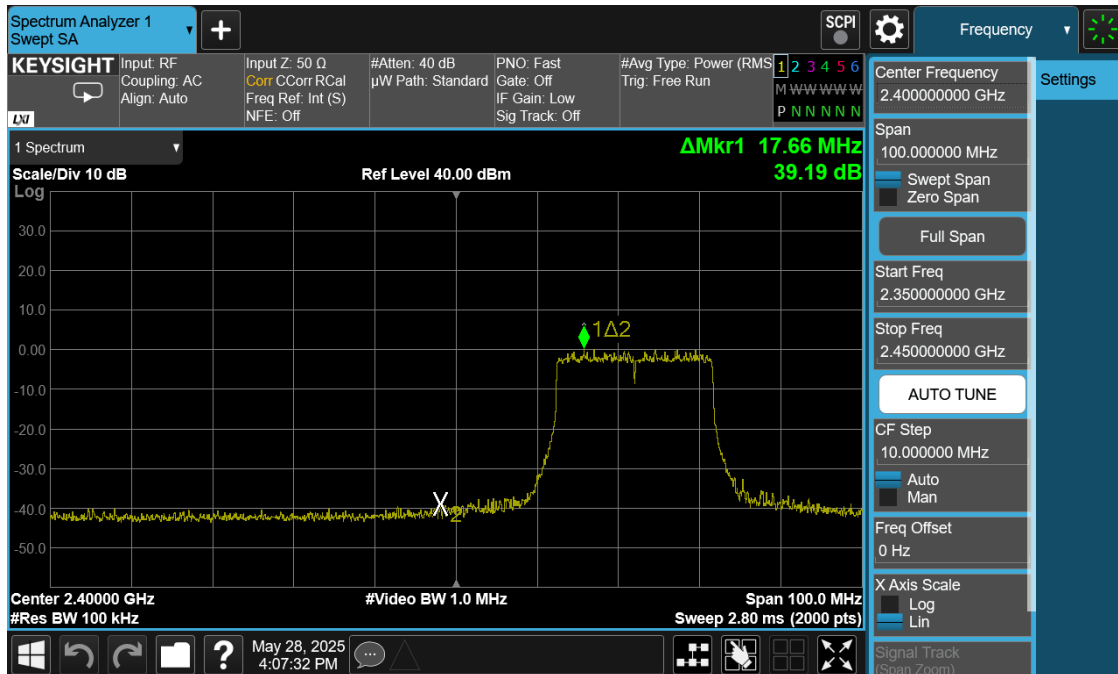
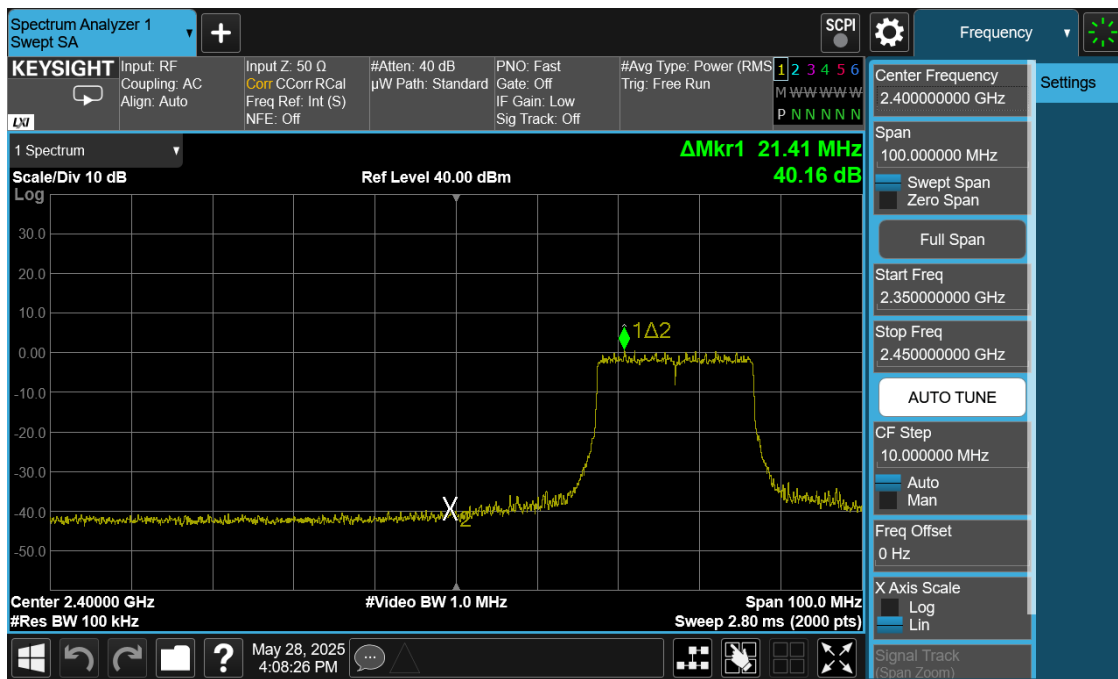


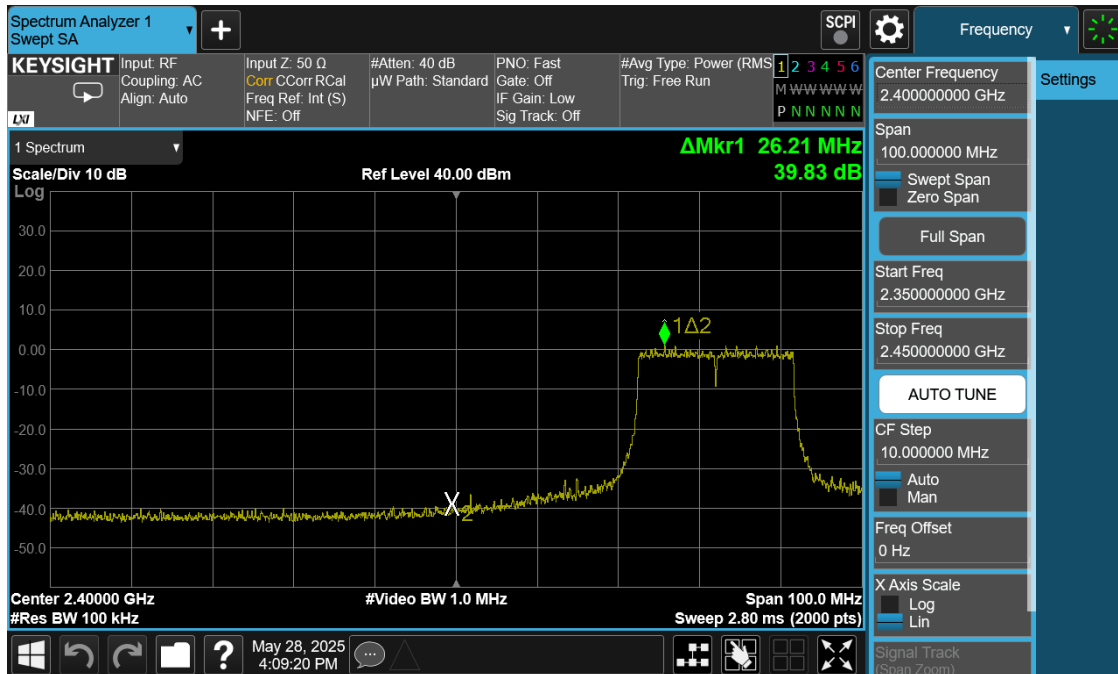


Plot 7-52. Band Edge Antenna 1 (Common) (802.11ax OFDMA – RU242 – Ch. 3)

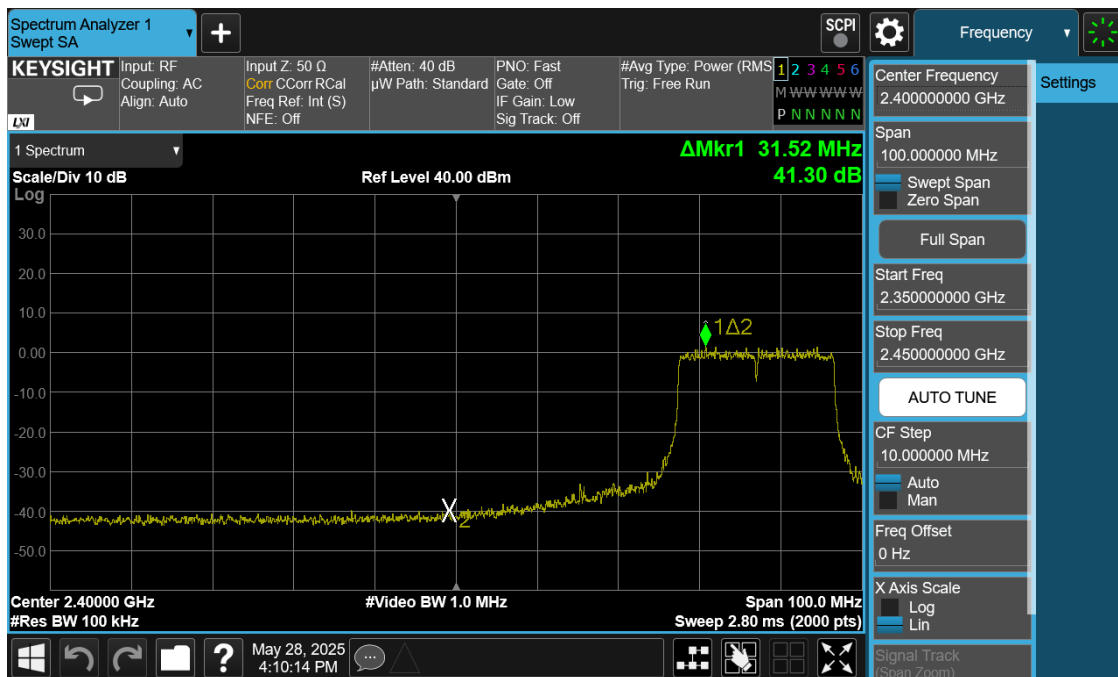


Plot 7-53. Band Edge Antenna 1 (Common) (802.11ax OFDMA – RU242 – Ch. 4)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 175

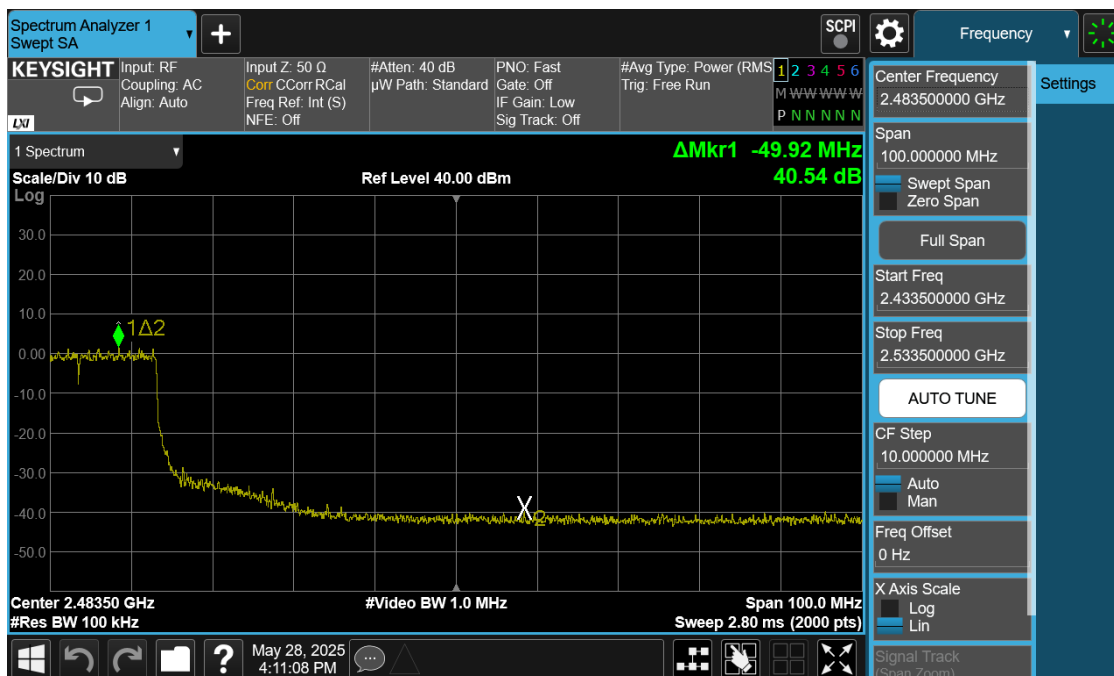


Plot 7-54. Band Edge Antenna 1 (Common) (802.11ax OFDMA – RU242 – Ch. 5)

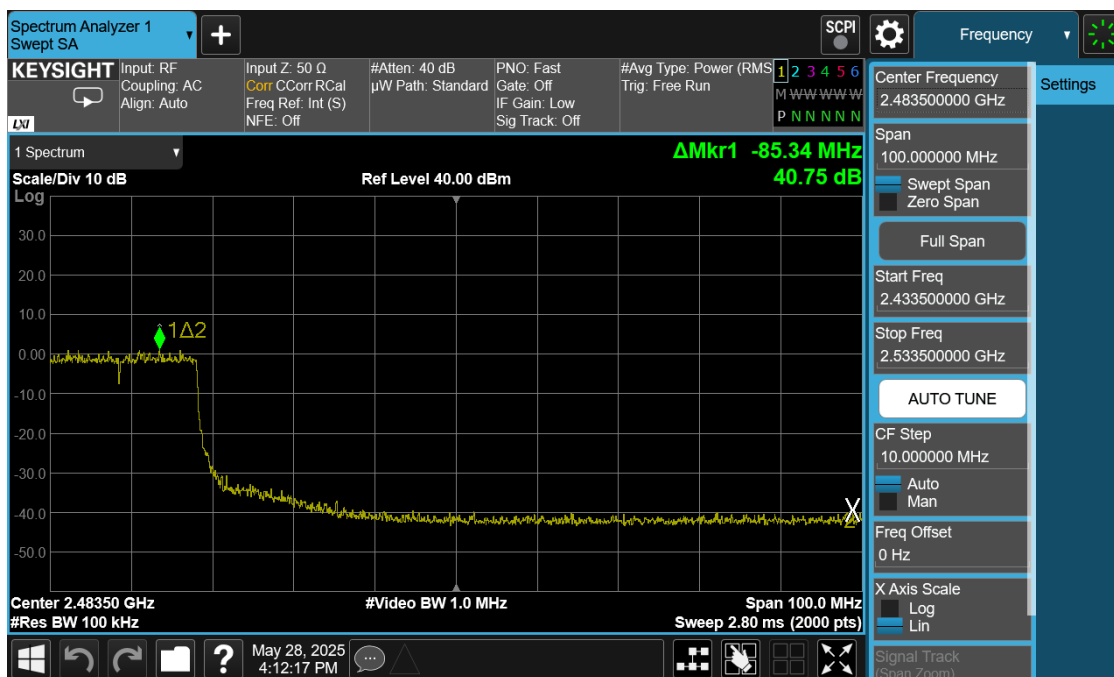


Plot 7-55. Band Edge Antenna 1 (Common) (802.11ax OFDMA – RU242 – Ch. 6(Low Channel))

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 175

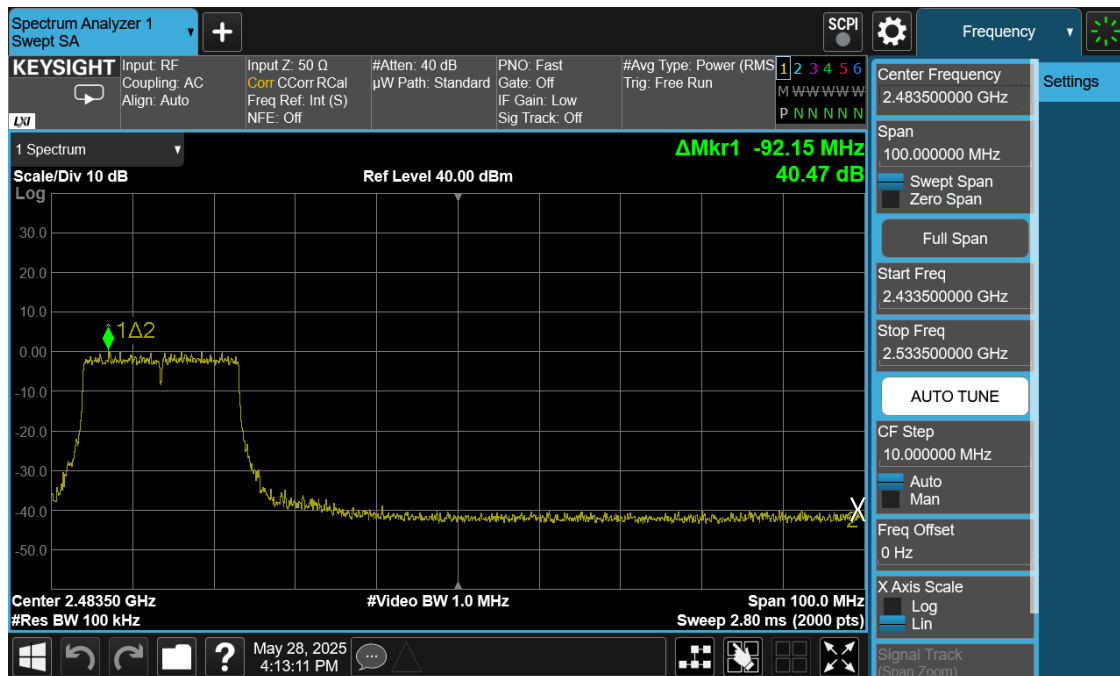


Plot 7-56. Band Edge Antenna 1 (Common) (802.11ax OFDMA – RU242 – Ch. 6(High Channel))

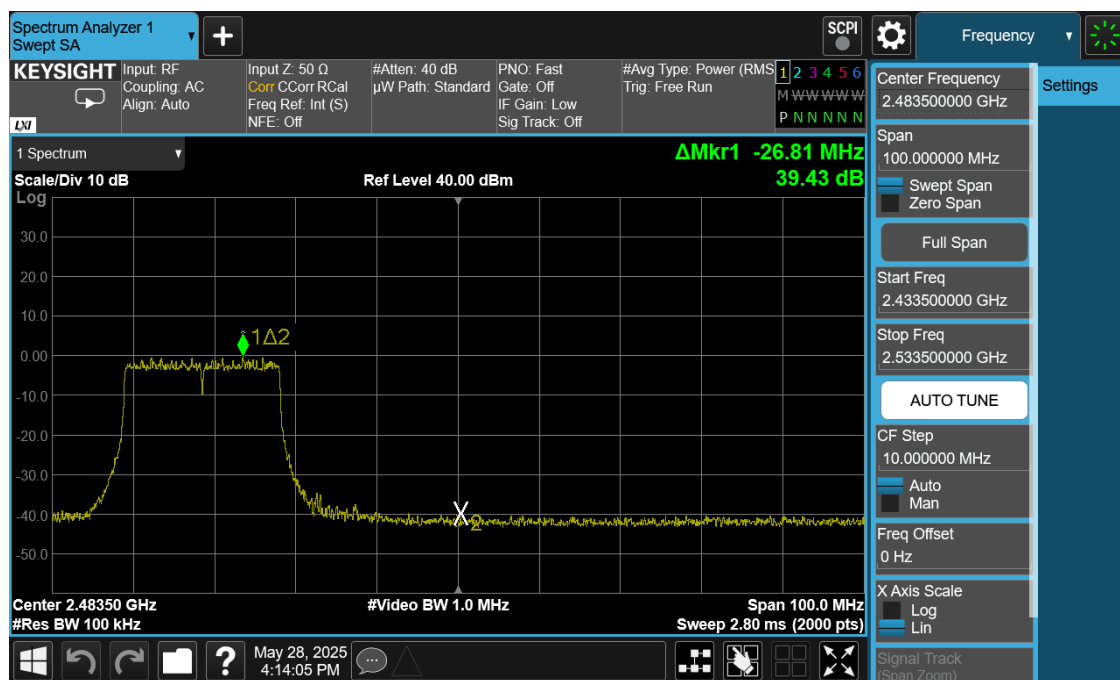


Plot 7-57. Band Edge Antenna 1 (Common) (802.11ax OFDMA – RU242 – Ch. 7)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 175

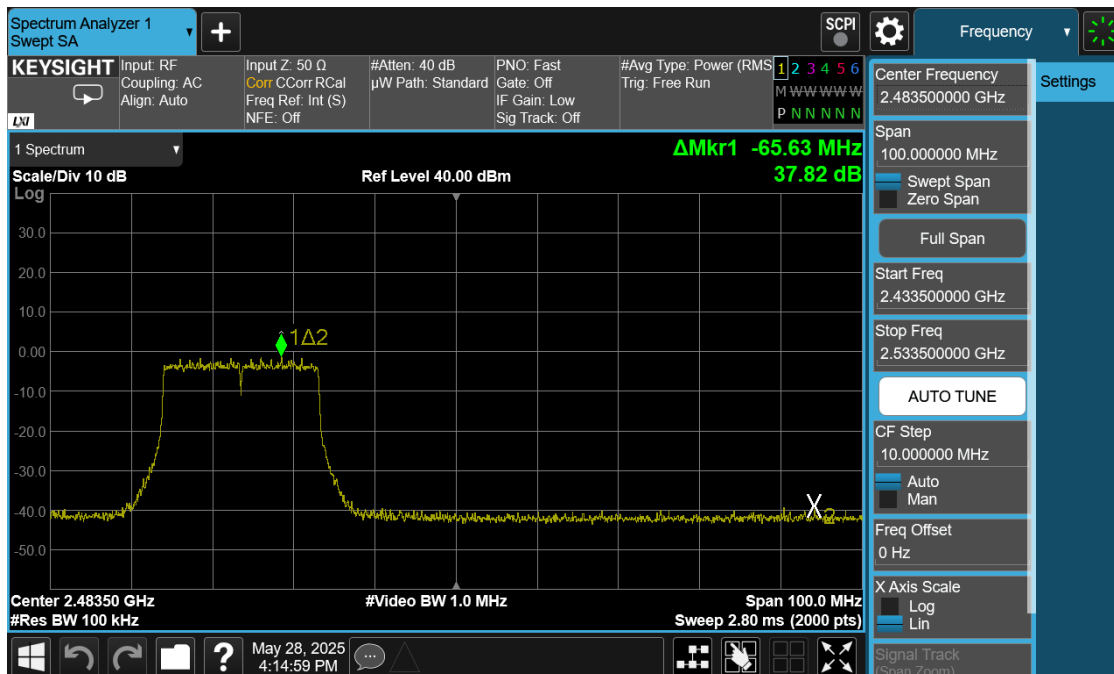


Plot 7-58. Band Edge Antenna 1 (Common) (802.11ax OFDMA – RU242 – Ch. 8)

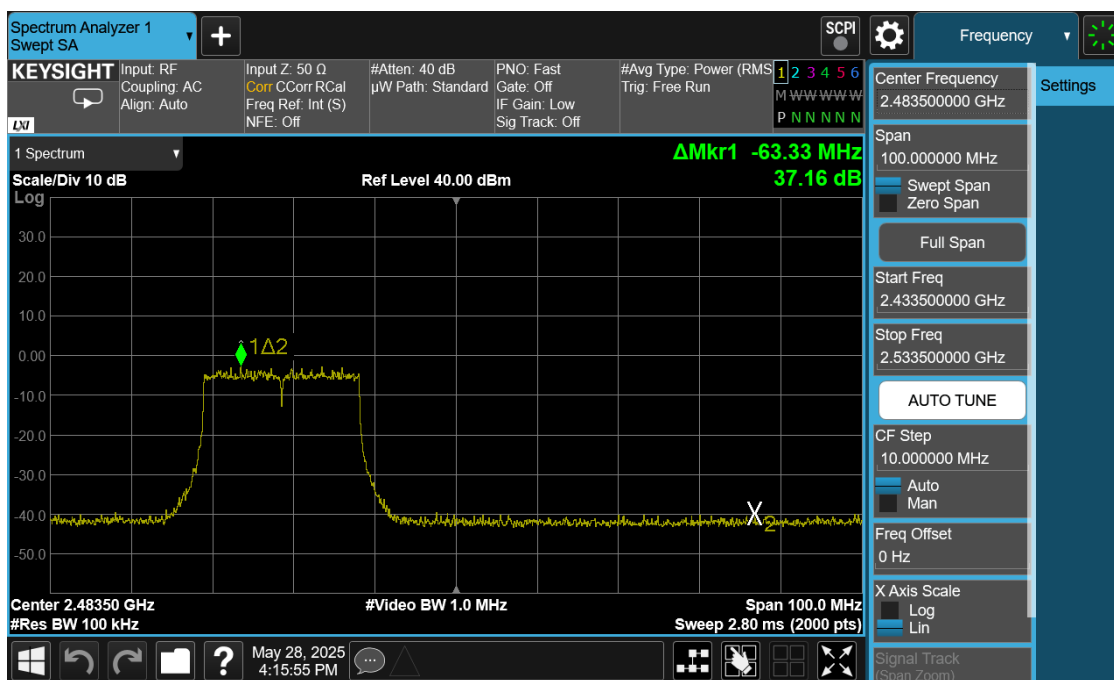


Plot 7-59. Band Edge Antenna 1 (Common) (802.11ax OFDMA – RU242 – Ch. 9)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 175

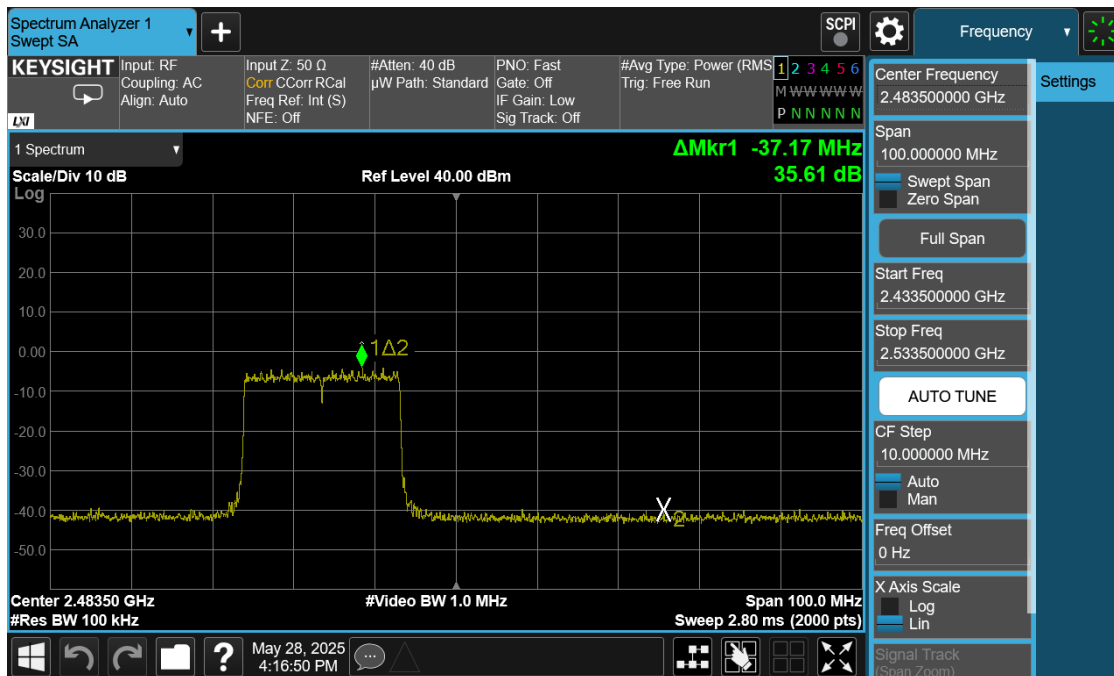


Plot 7-60. Band Edge Antenna 1 (Common) (802.11ax OFDMA – RU242 – Ch. 10)



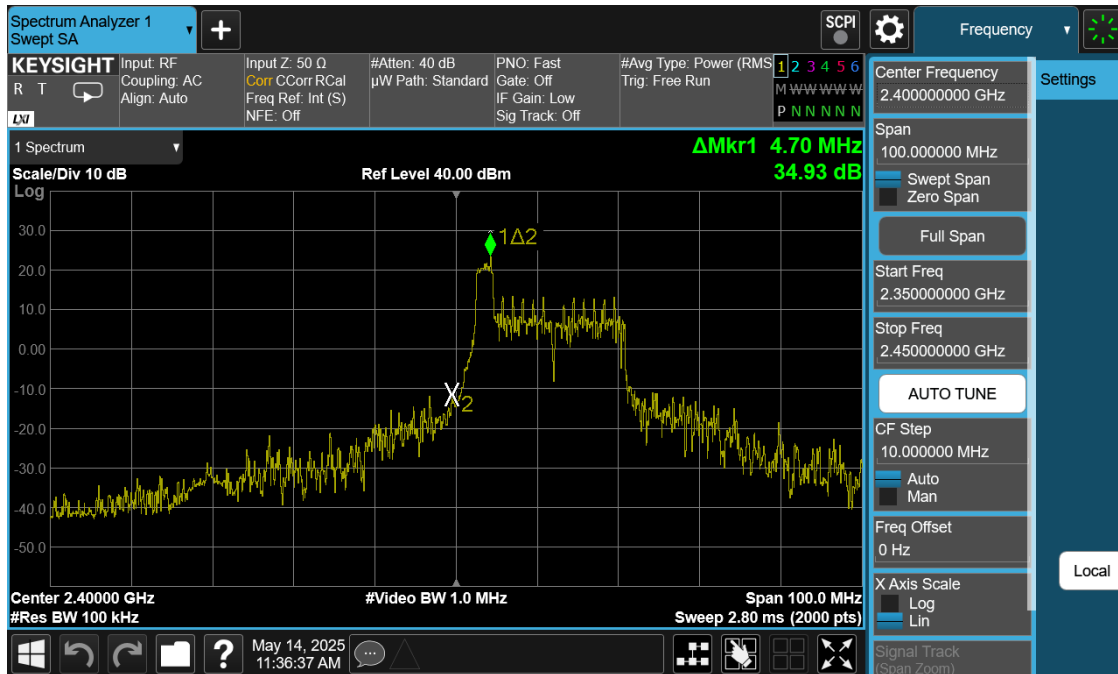
Plot 7-61. Band Edge Antenna 1 (Common) (802.11ax OFDMA – RU242 – Ch. 11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 175

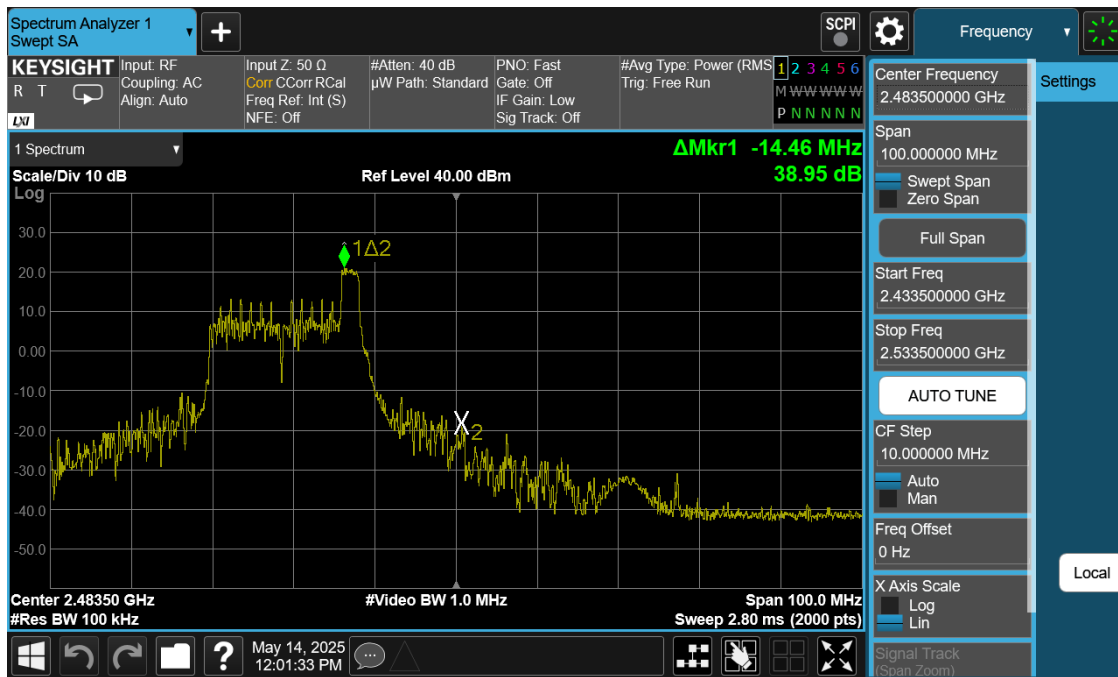


FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		

7.6.3 Antenna 0 (Dedicated) Conducted Emissions at the Band Edge

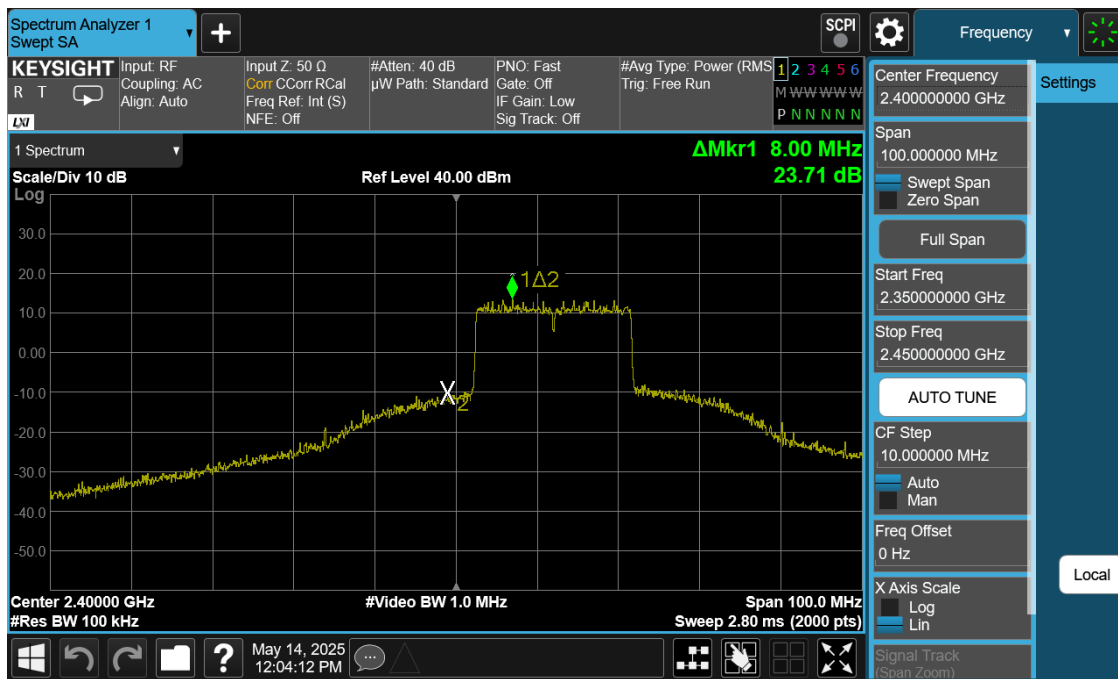


Plot 7-63. Band Edge Antenna 0 (Dedicated) (802.11ax OFDMA – RU26 Index 0 – Ch. 1)

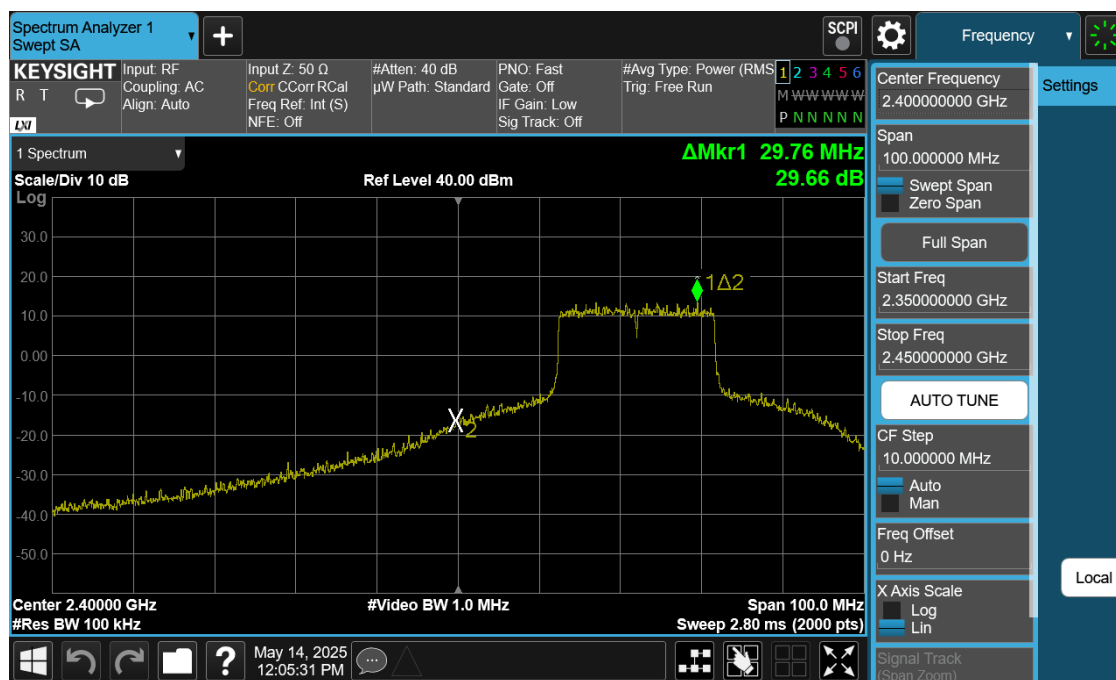
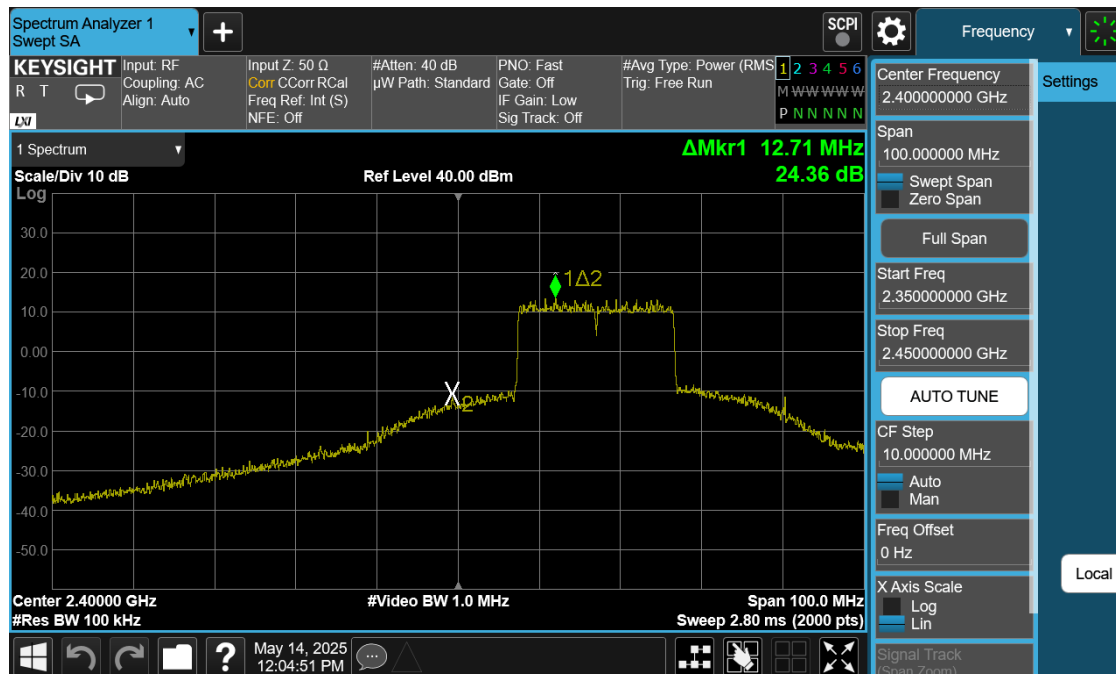


Plot 7-64. Band Edge Antenna 0 (Dedicated) (802.11ax OFDMA – RU26 Index 8 – Ch. 11)

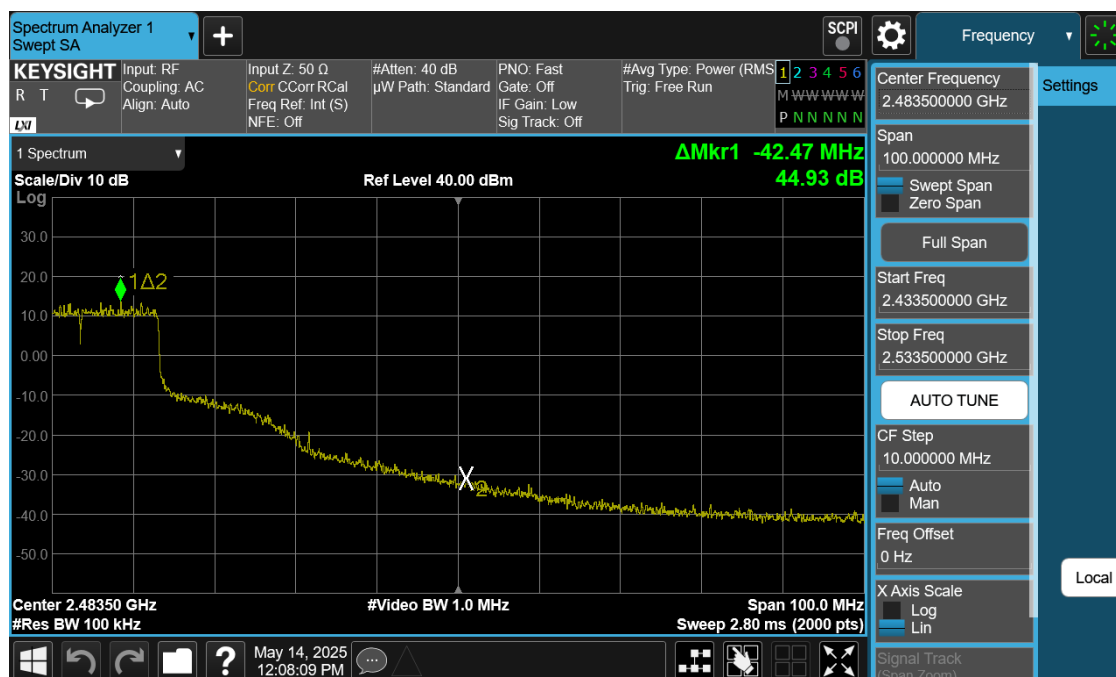
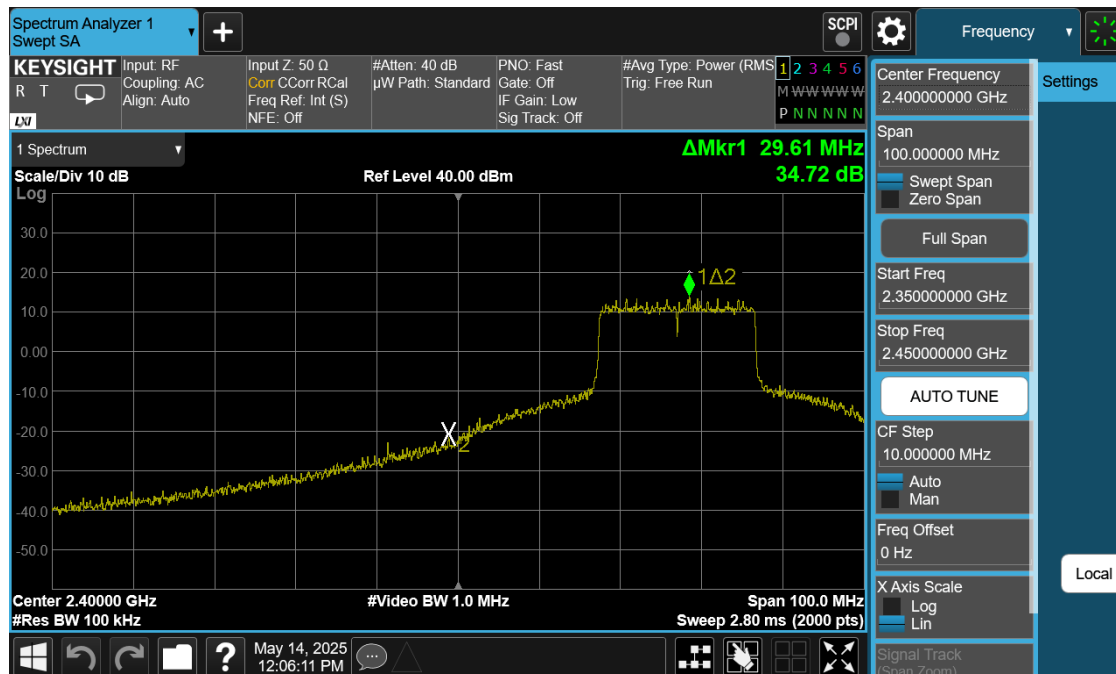
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 78 of 175



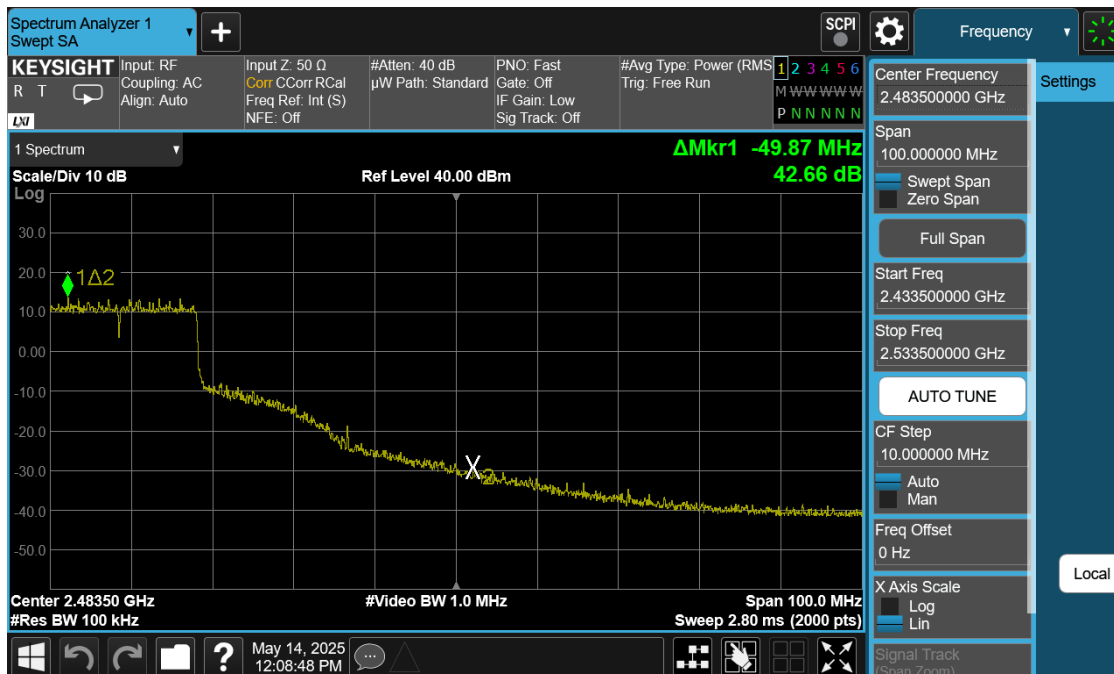
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 79 of 175



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 80 of 175



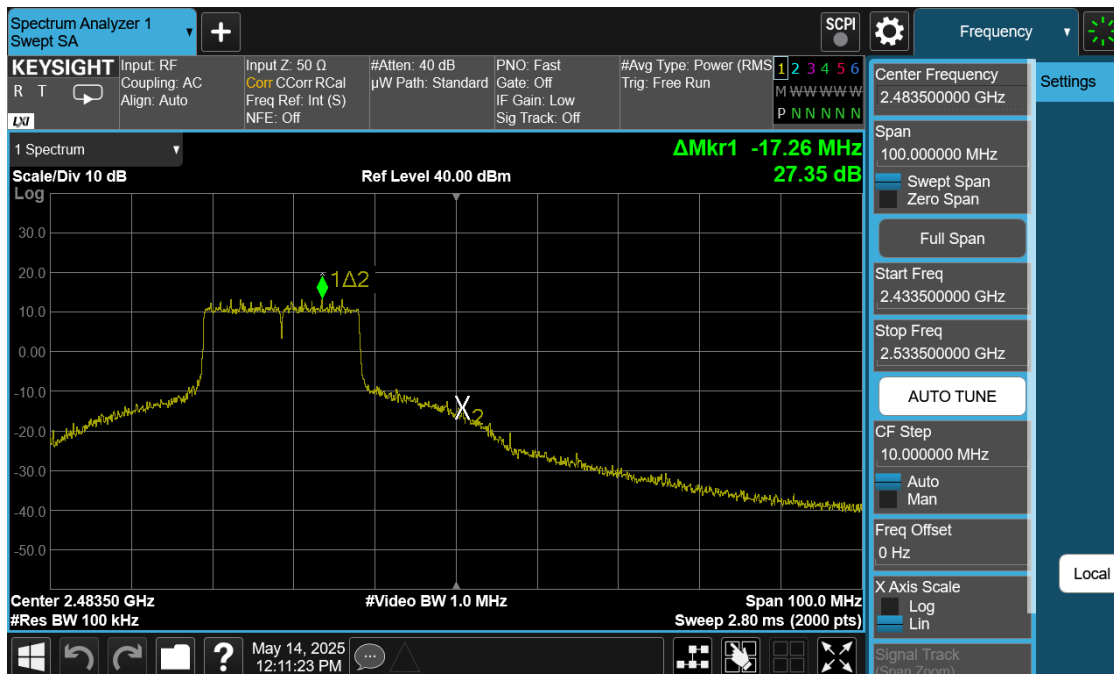
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 81 of 175



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 82 of 175

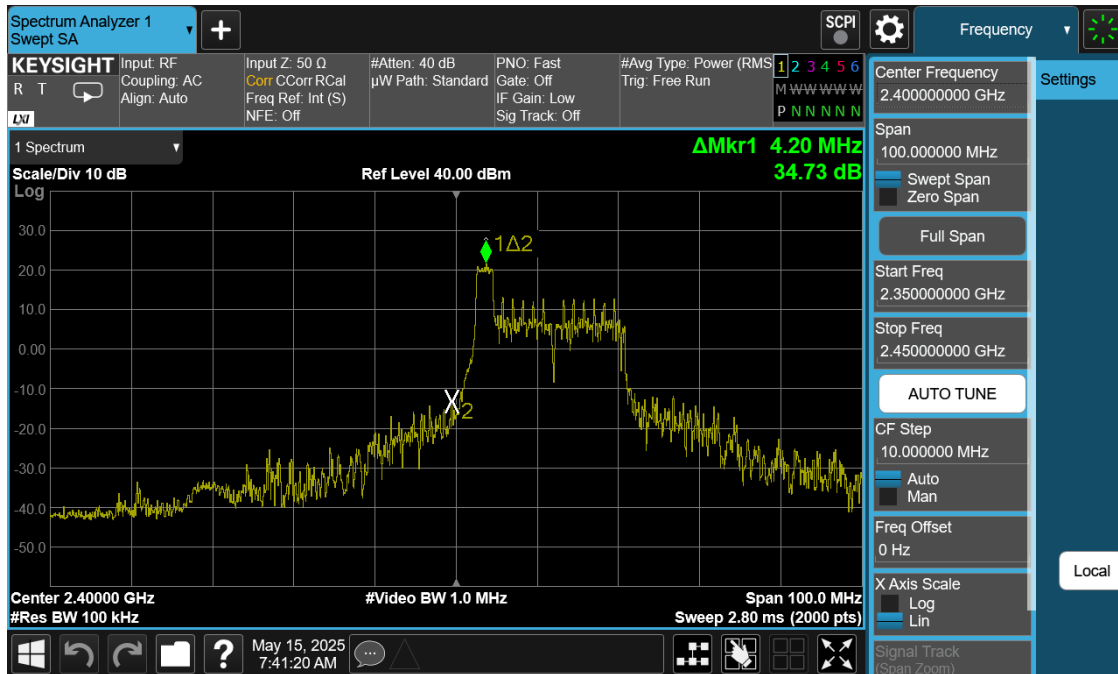


FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 83 of 175

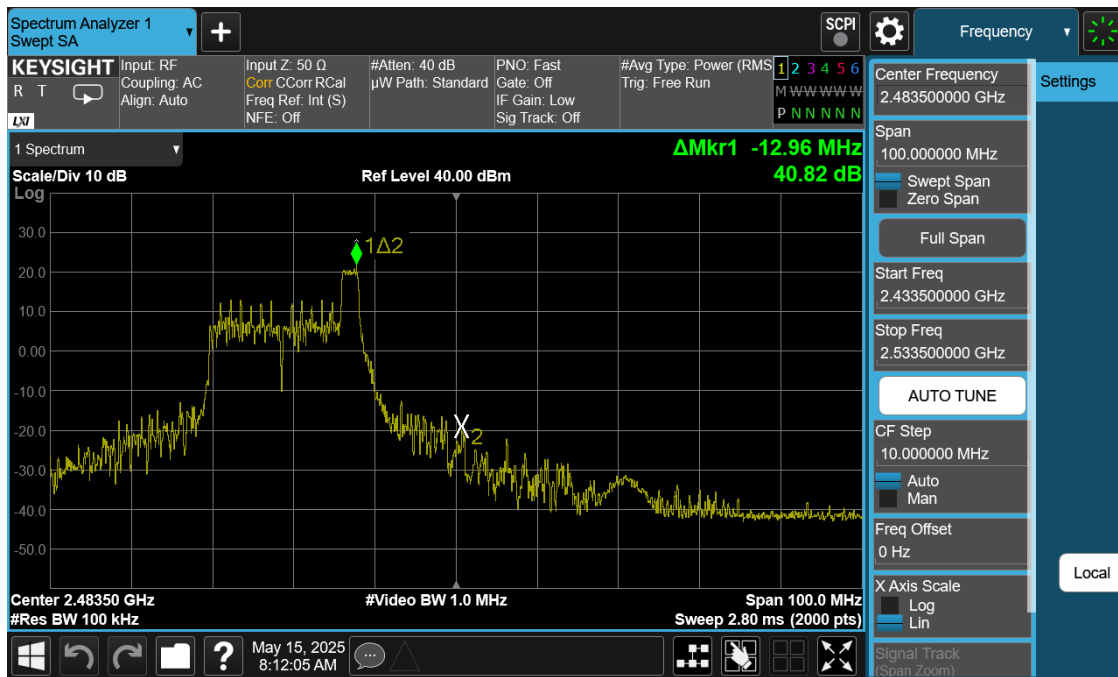


FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 84 of 175

7.6.4 Antenna 1 (Dedicated) Conducted Emissions at the Band Edge

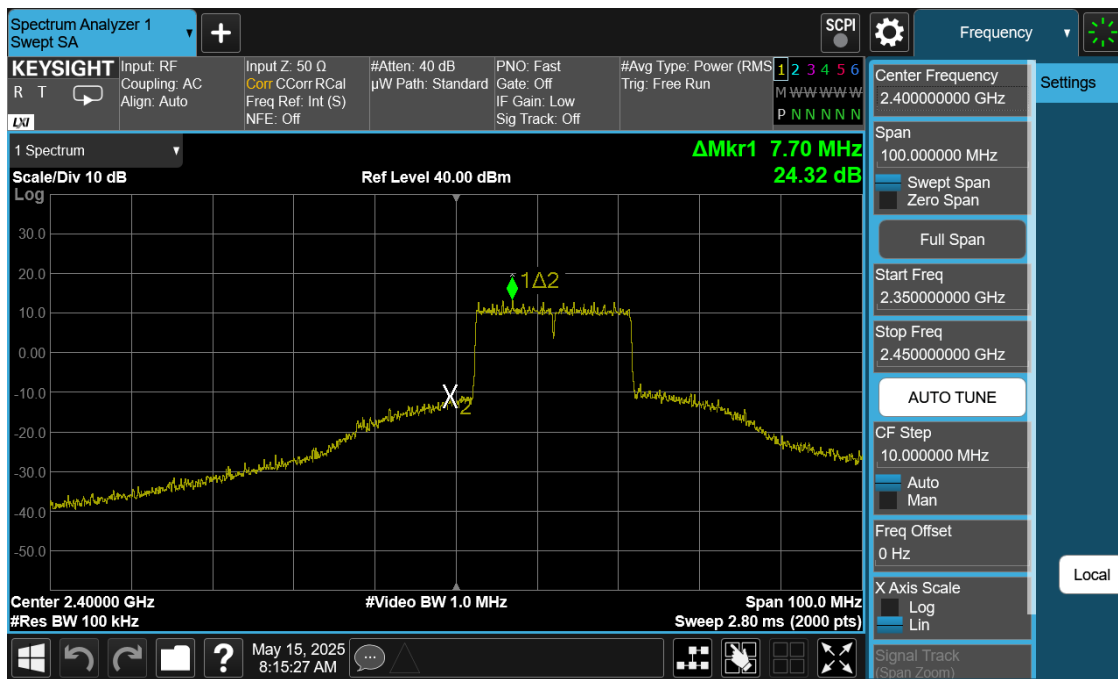
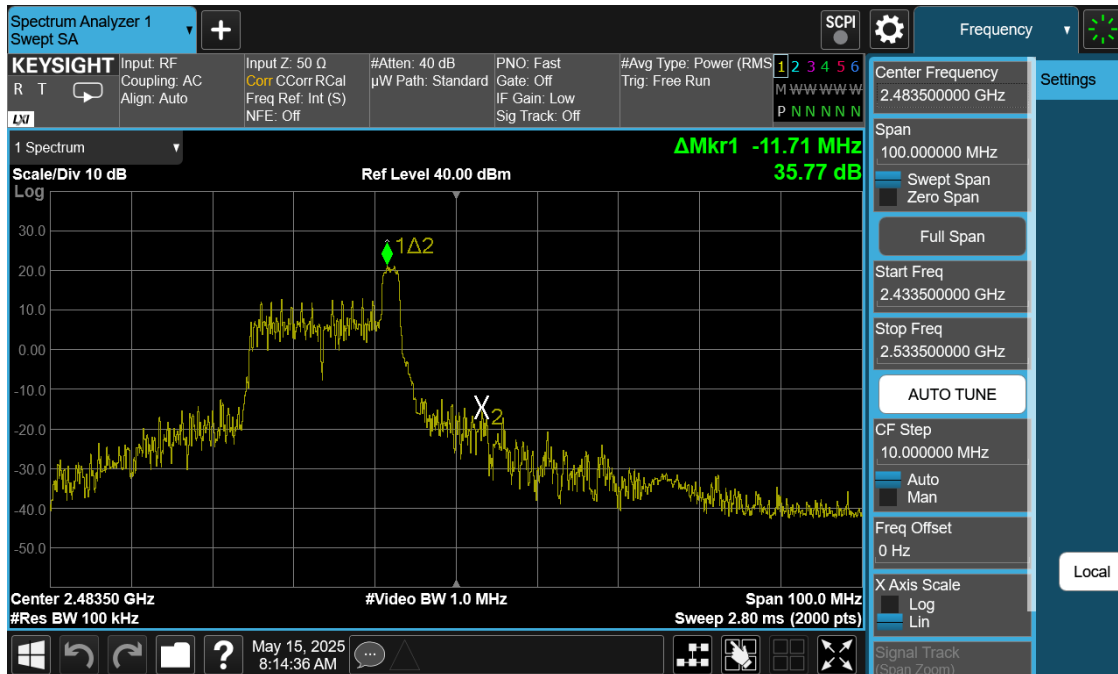


Plot 7-77. Band Edge Antenna 1 (Dedicated) (802.11ax OFDMA – RU26 Index 0 – Ch. 1)

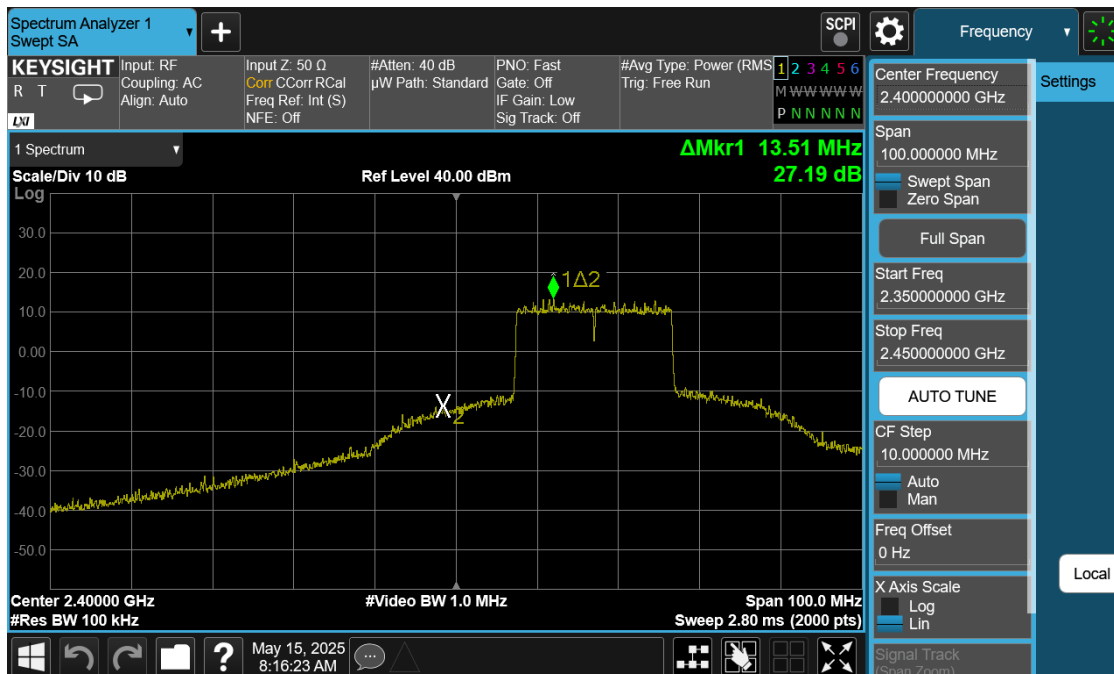


Plot 7-78. Band Edge Antenna 1 (Dedicated) (802.11ax OFDMA – RU26 Index 8 – Ch. 11)

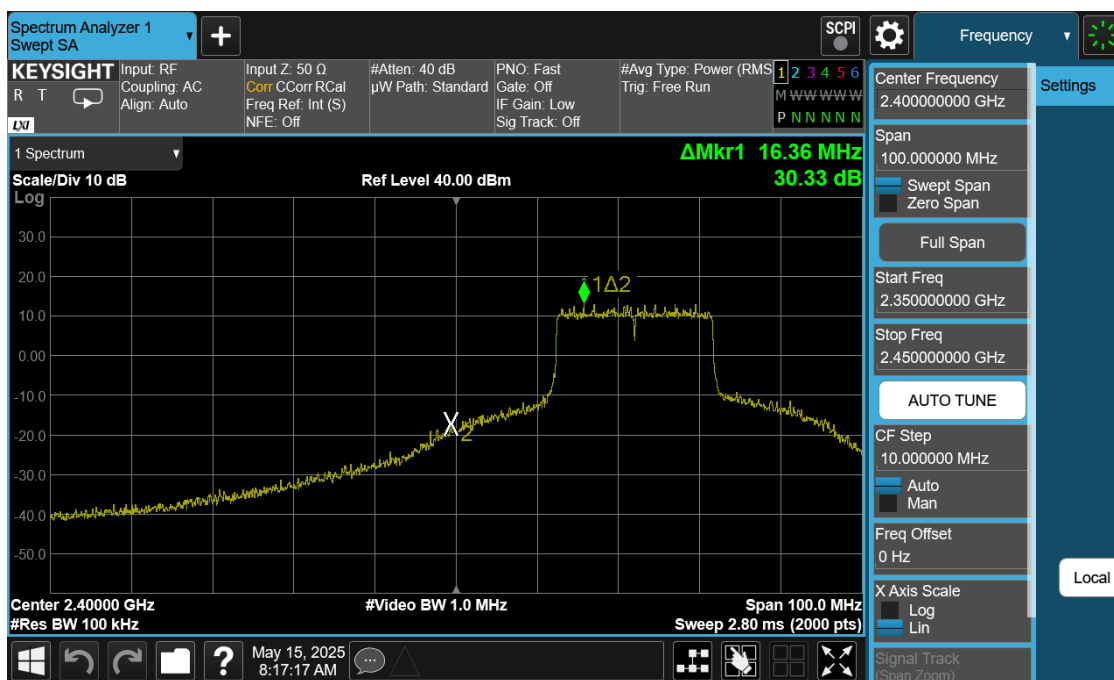
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 85 of 175



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 86 of 175

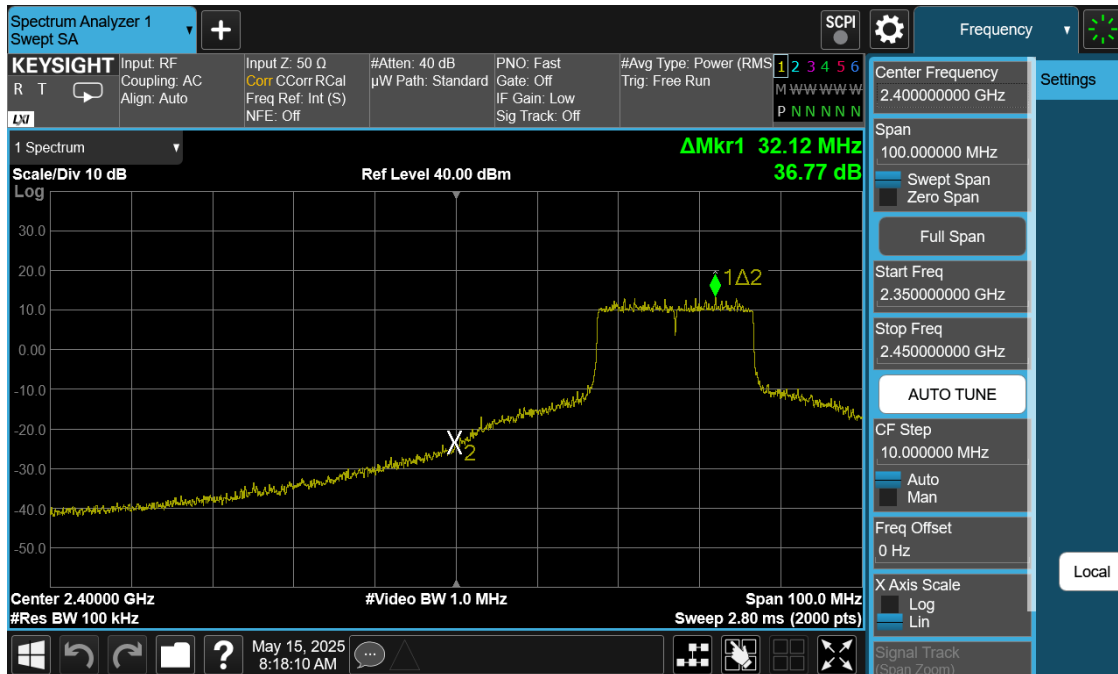


Plot 7-81. Band Edge Antenna 1 (Dedicated) (802.11ax OFDMA – RU242 – Ch. 2)

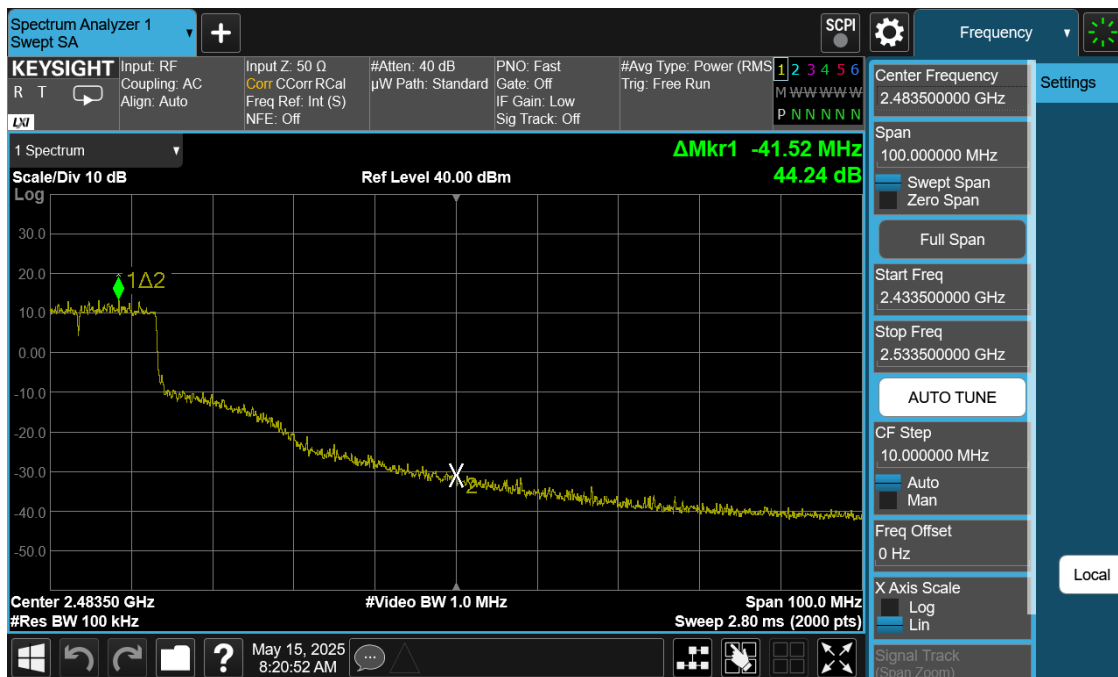


Plot 7-82. Band Edge Antenna 1 (Dedicated) (802.11ax OFDMA – RU242 – Ch. 3)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 87 of 175

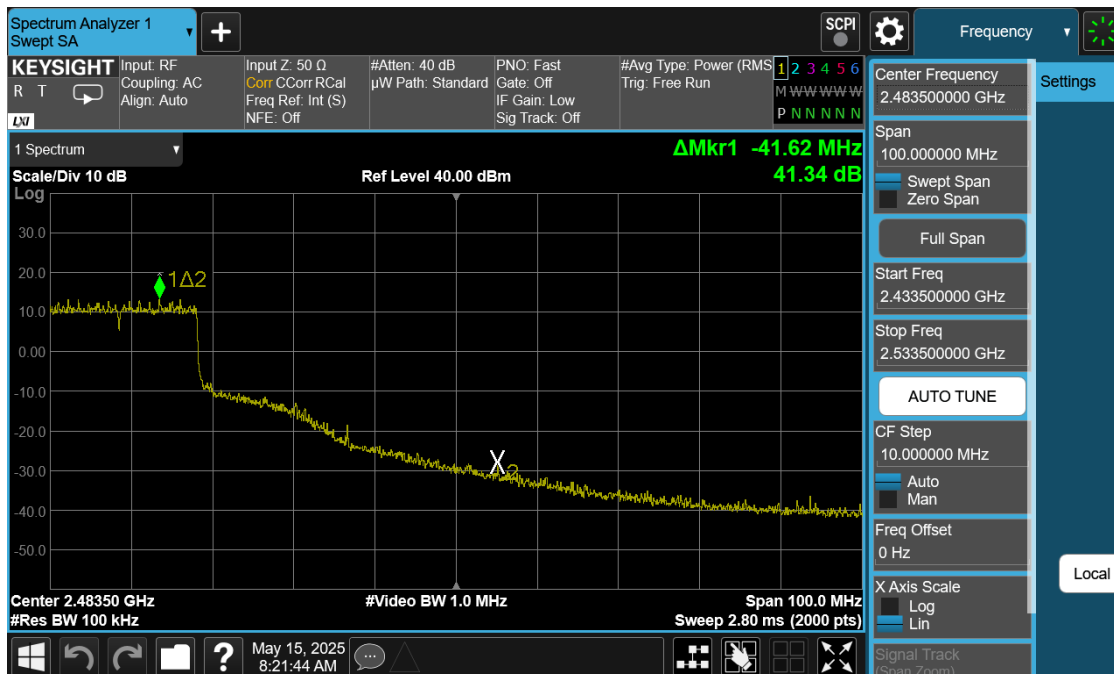


Plot 7-83. Band Edge Antenna 1 (Dedicated) (802.11ax OFDMA – RU242 – Ch. 4)



Plot 7-84. Band Edge Antenna 1 (Dedicated) (802.11ax OFDMA – RU242 – Ch. 6(High Channel))

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 88 of 175

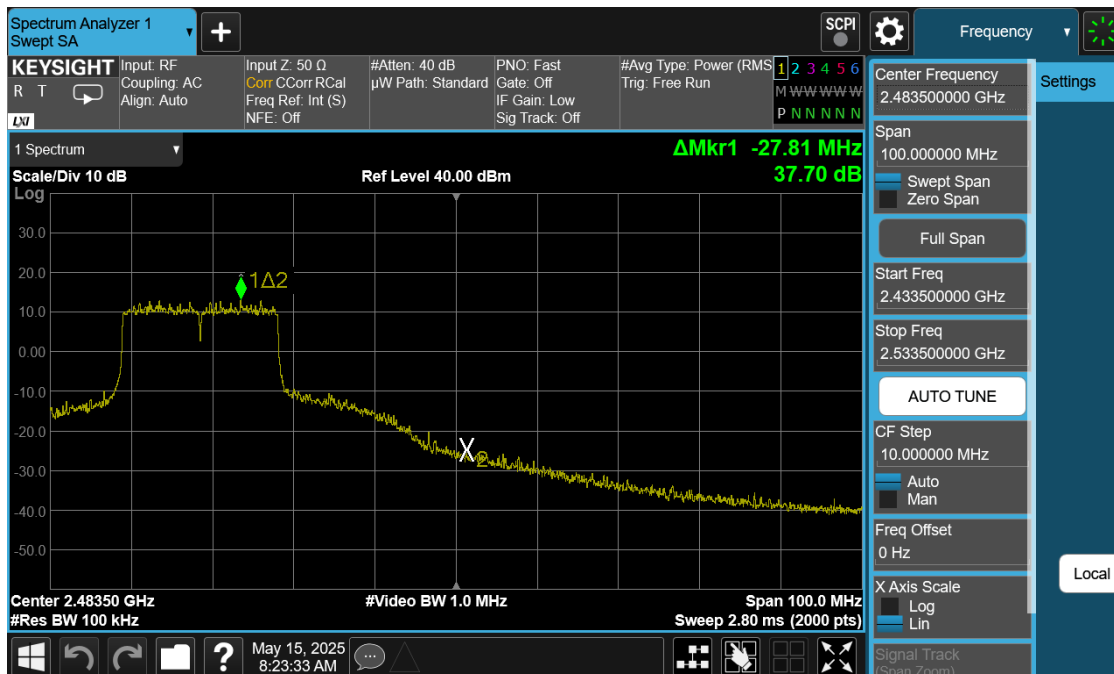


Plot 7-85. Band Edge Antenna 1 (Dedicated) (802.11ax OFDMA – RU242 – Ch. 7)

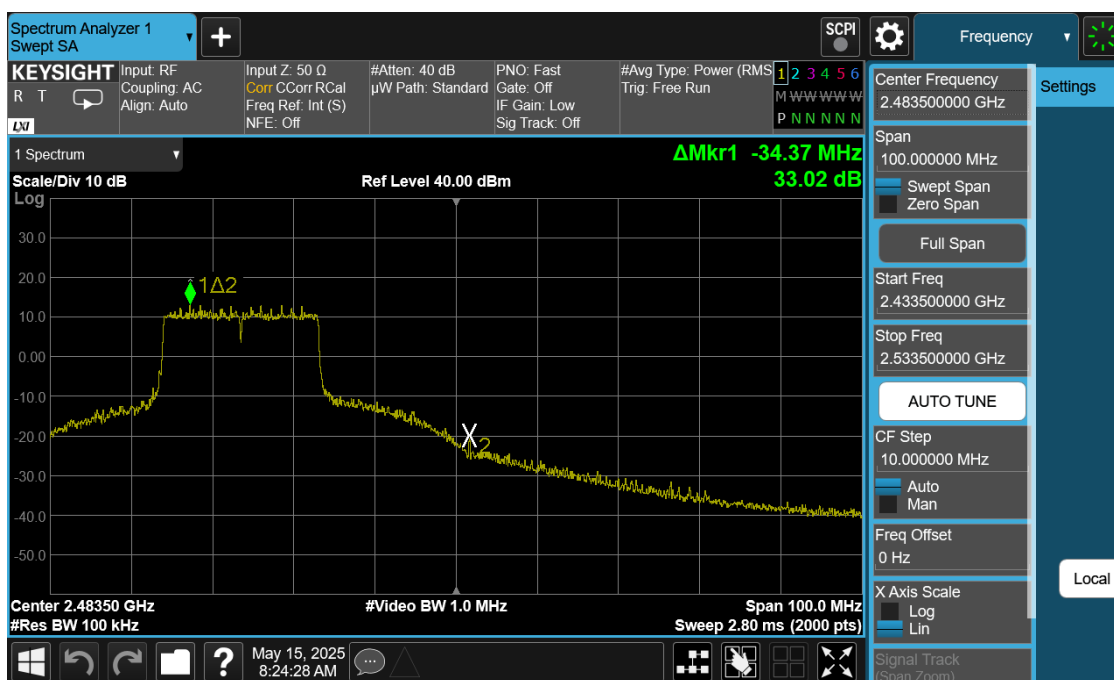


Plot 7-86. Band Edge Antenna 1 (Dedicated) (802.11ax OFDMA – RU242 – Ch. 8)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 89 of 175



Plot 7-87. Band Edge Antenna 1 (Dedicated) (802.11ax OFDMA – RU242 – Ch. 9)



Plot 7-88. Band Edge Antenna 1 (Dedicated) (802.11ax OFDMA – RU242 – Ch. 10)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 90 of 175



FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 91 of 175

7.7 Conducted Spurious Emissions

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates, tone configurations, and RU indices were investigated to determine the worst case configuration. For the following out of band conducted emissions plots, the EUT was set to a data rate of MCS9 in 802.11ax-RU mode as this setting produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Subclause 11.11 of ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 558074 D01 v05r02.

Test Procedure Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.5
ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 14.3.3
KDB 662911 D01 v02r01 – Section E)3)b)

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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



Figure 7-6. Test Instrument & Measurement Setup

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 92 of 175

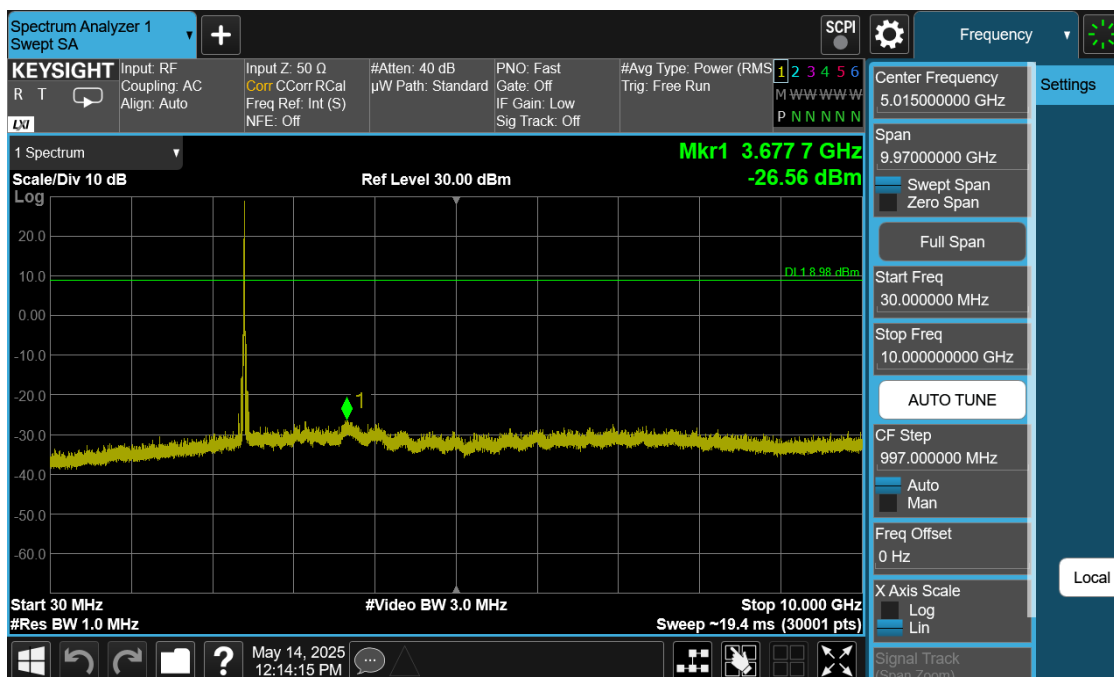
Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 and KDB 662911 D01 v02r01 Section E)3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.
5. All antenna configurations and data rates were investigated and only the worst case are reported.
6. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's are reported.

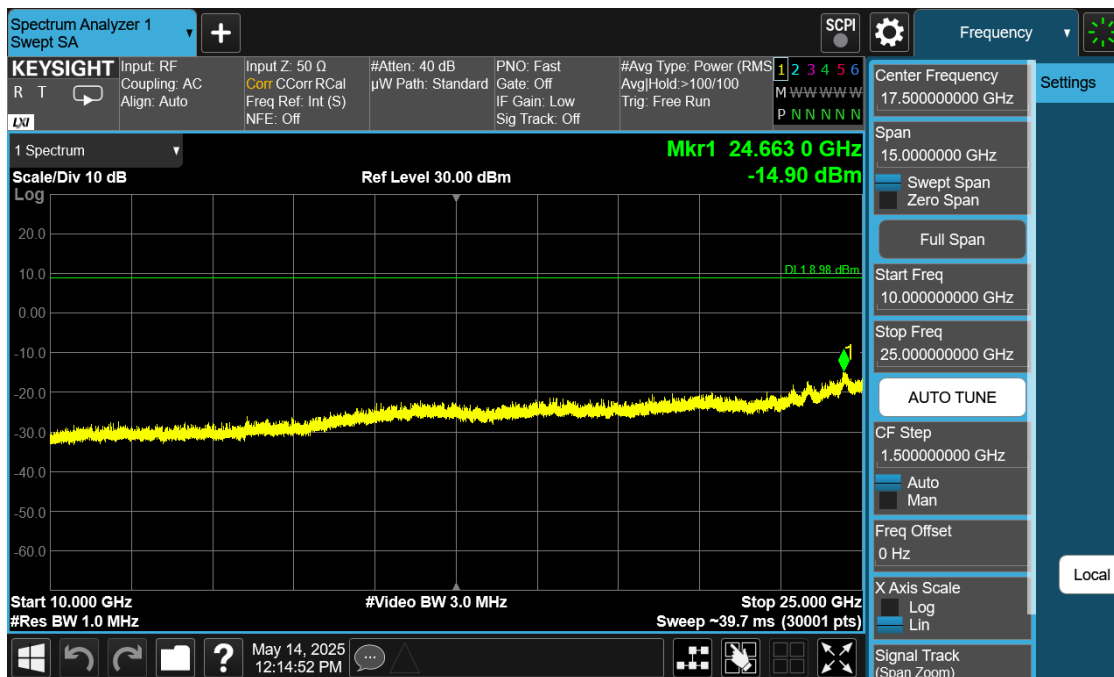
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 93 of 175

V 12.0 03/03/2026

7.7.1 Antenna 0 (Dedicated) Conducted Spurious Emission



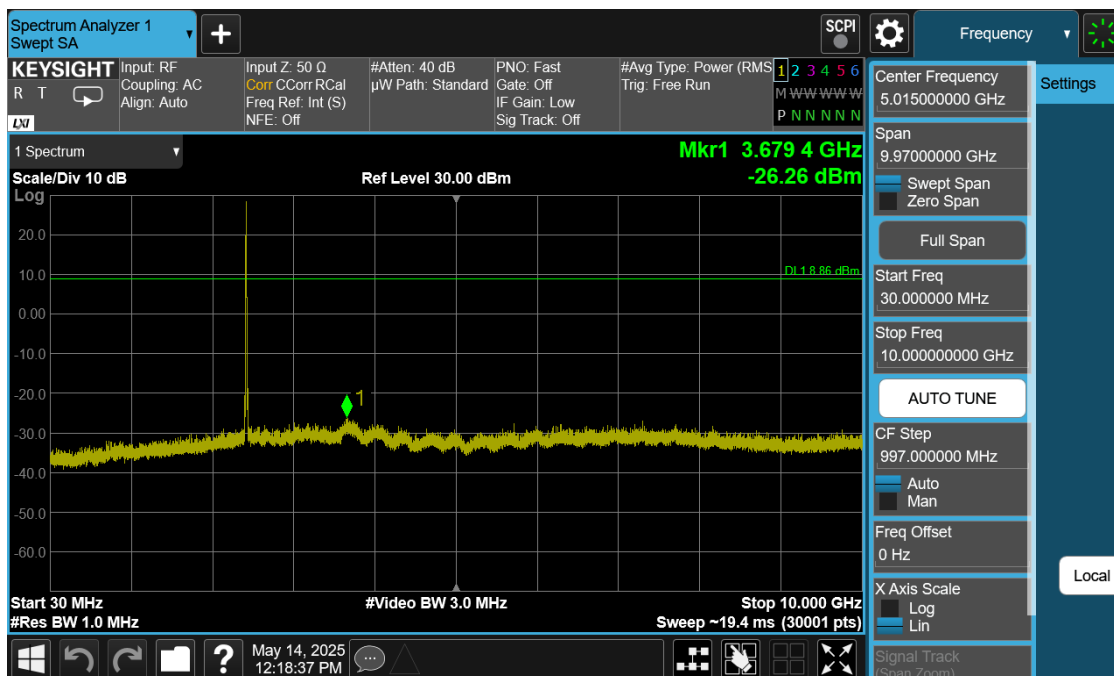
Plot 7-91. Conducted Spurious Plot Antenna 0 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 1)



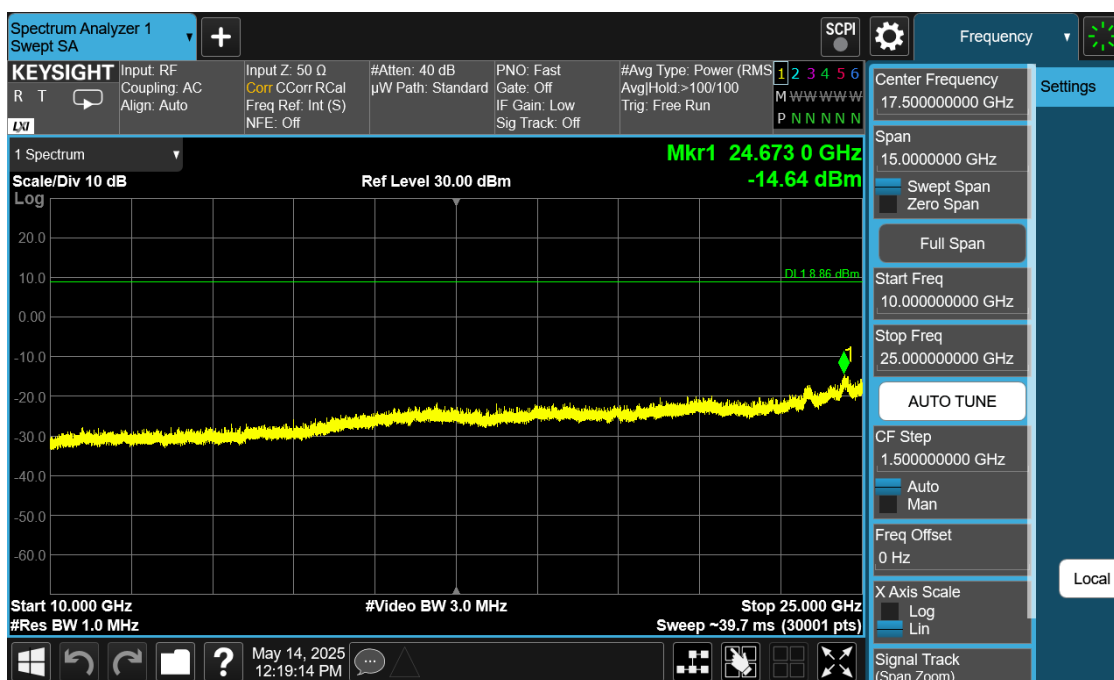
Plot 7-92. Conducted Spurious Plot Antenna 0 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 1)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 94 of 175

V 12.0 03/03/2026

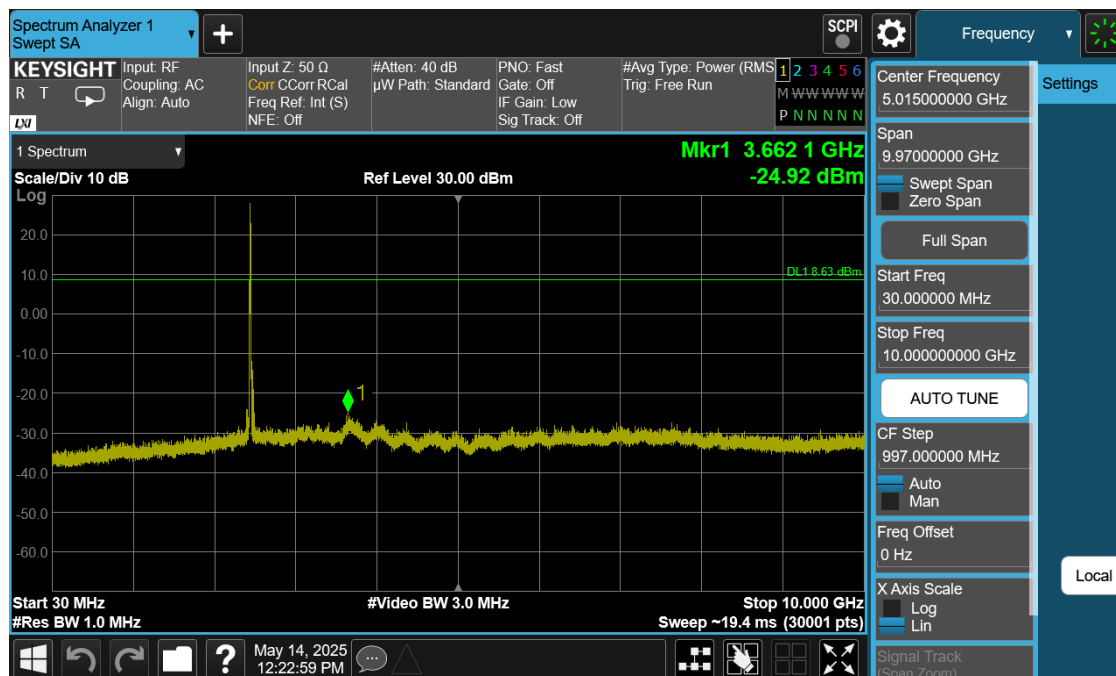


Plot 7-93. Conducted Spurious Plot Antenna 0 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 6)

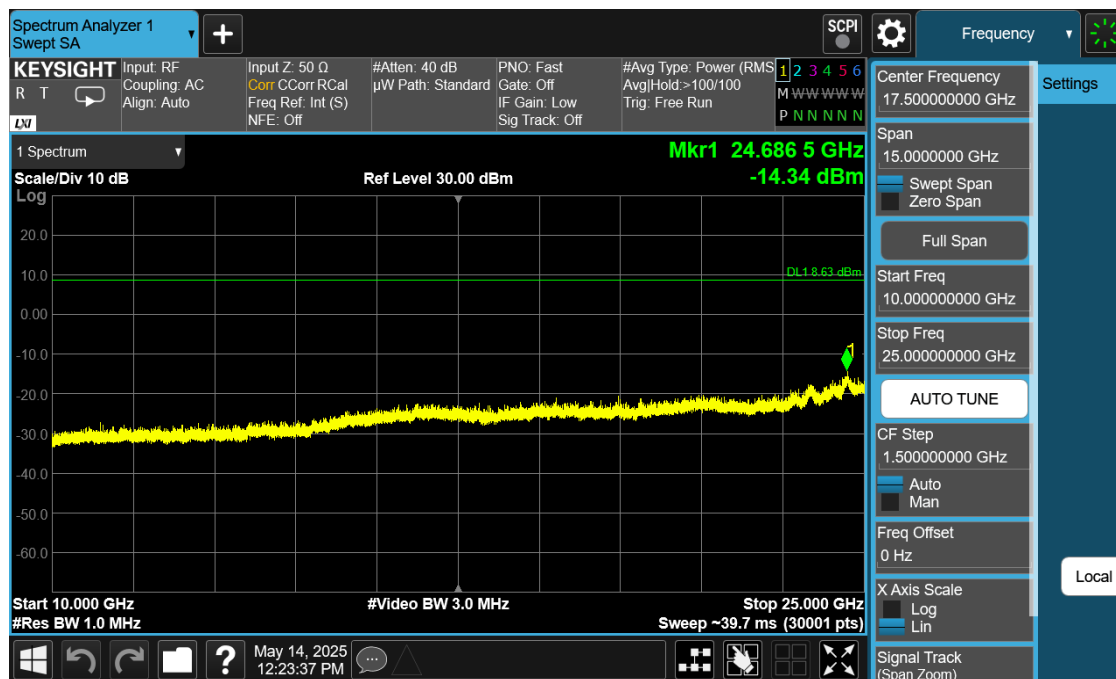


Plot 7-94. Conducted Spurious Plot Antenna 0 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 6)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 95 of 175



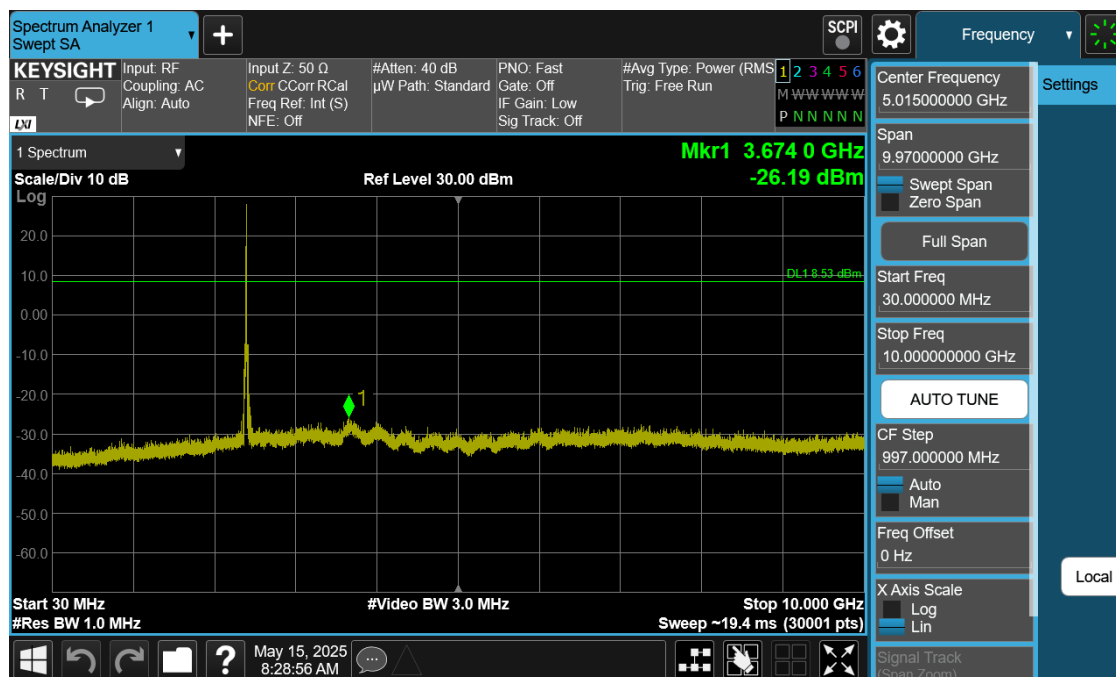
Plot 7-95. Conducted Spurious Plot Antenna 0 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 11)



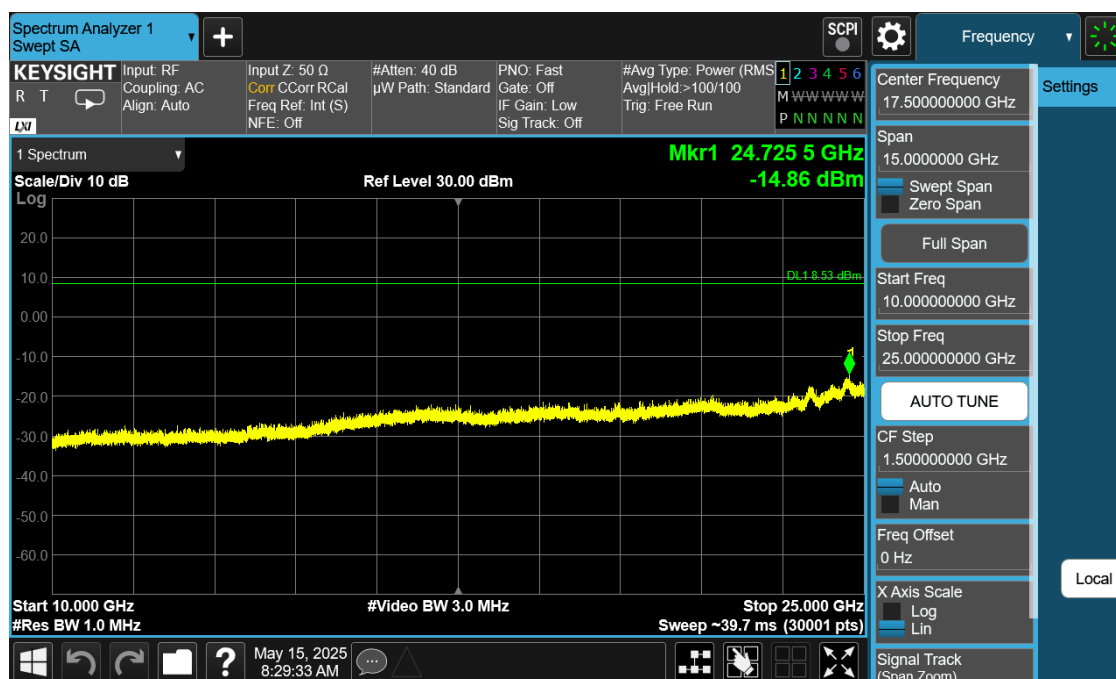
Plot 7-96. Conducted Spurious Plot Antenna 0 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 96 of 175

7.7.2 Antenna 1 (Dedicated) Conducted Spurious Emissions

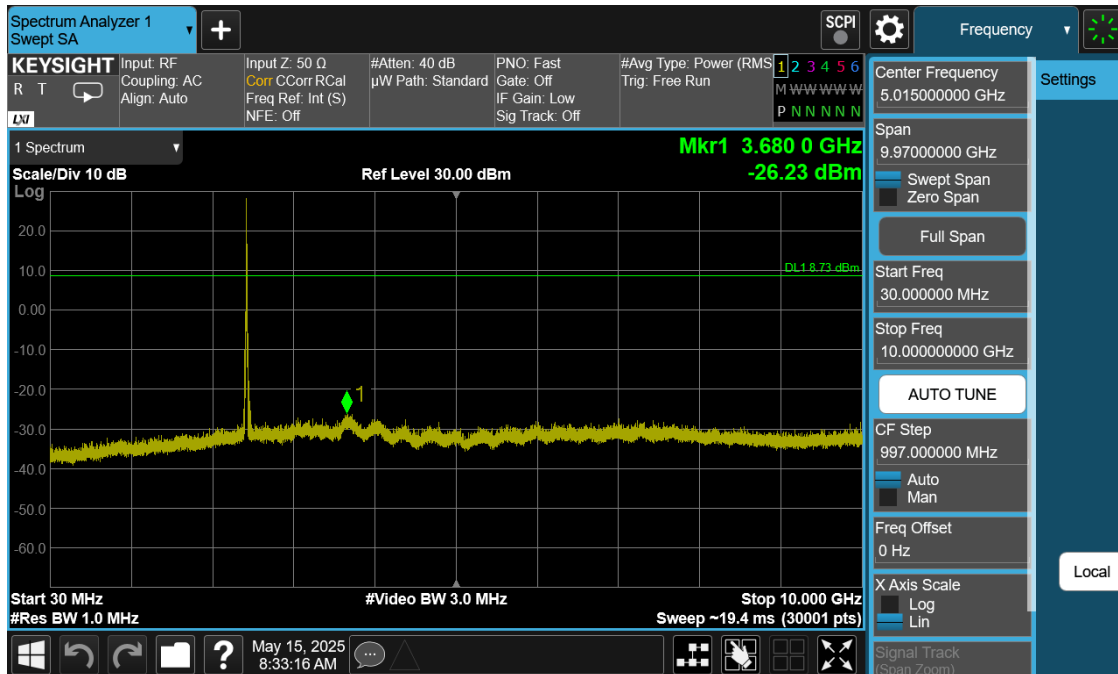


Plot 7-97. Conducted Spurious Plot Antenna 1 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 1)

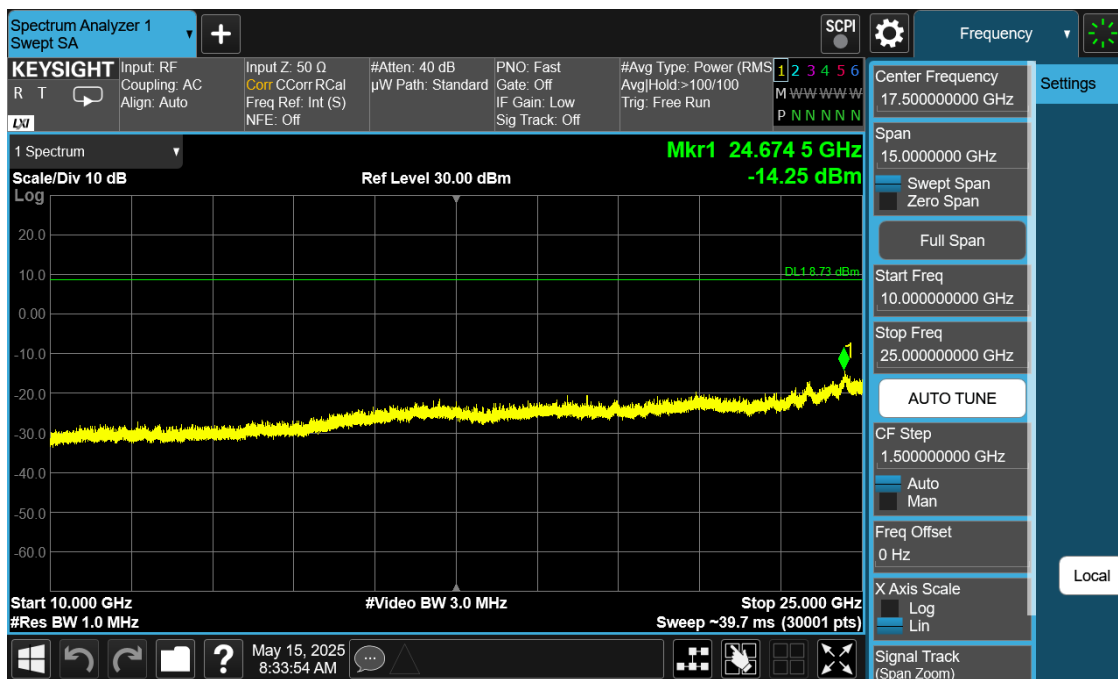


Plot 7-98. Conducted Spurious Plot Antenna 1 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 1)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 97 of 175

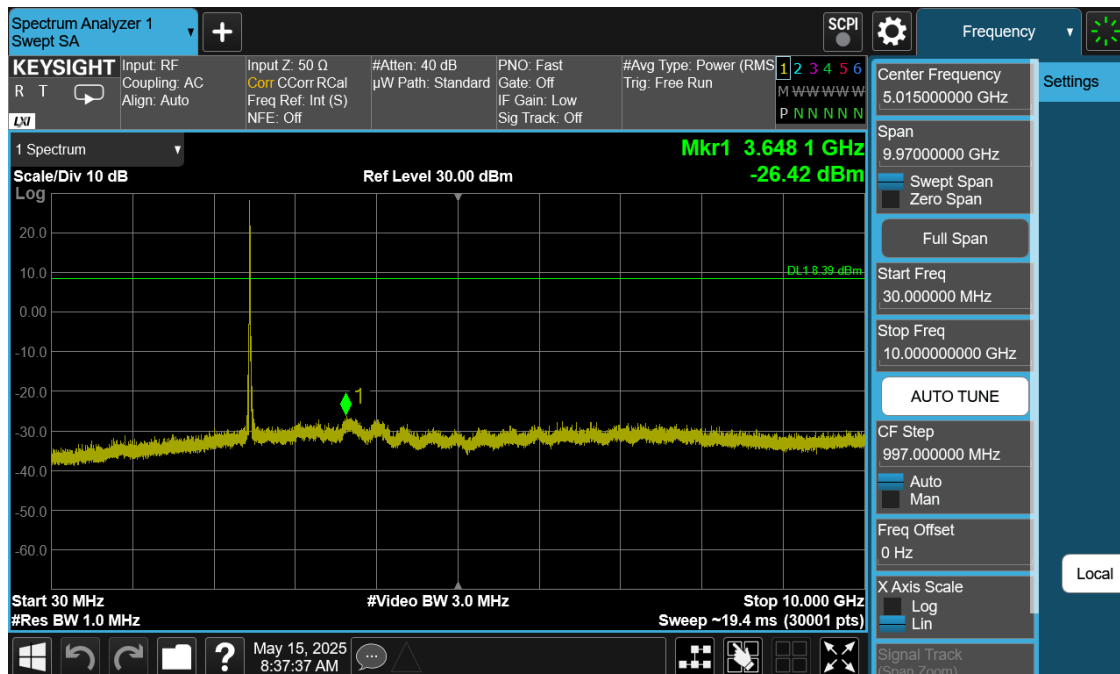


Plot 7-99. Conducted Spurious Plot Antenna 1 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 6)

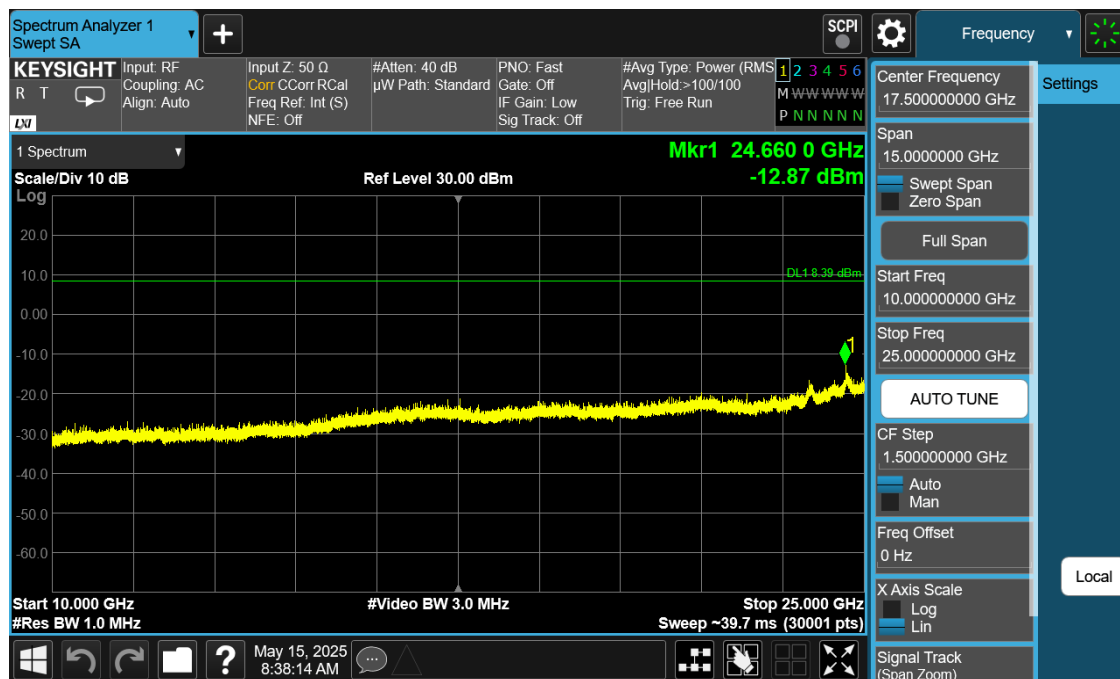


Plot 7-100. Conducted Spurious Plot Antenna 1 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 6)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 98 of 175



Plot 7-101. Conducted Spurious Plot Antenna 1 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 11)



Plot 7-102. Conducted Spurious Plot Antenna 1 (Dedicated) (802.11ax OFDMA – RU26 – Ch. 11)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 99 of 175

7.8 Radiated Spurious Emissions – Above 1 GHz

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 7-54 per Section 15.209 and RSS-Gen (7.4.3).

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

Table 7-54. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to C63.10a:2024 – Subclause 6.6.4.3
KDB 558074 D01 v05r02 – Sections 8.6, 8.7

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. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

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

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 100 of 175

Test Setup

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

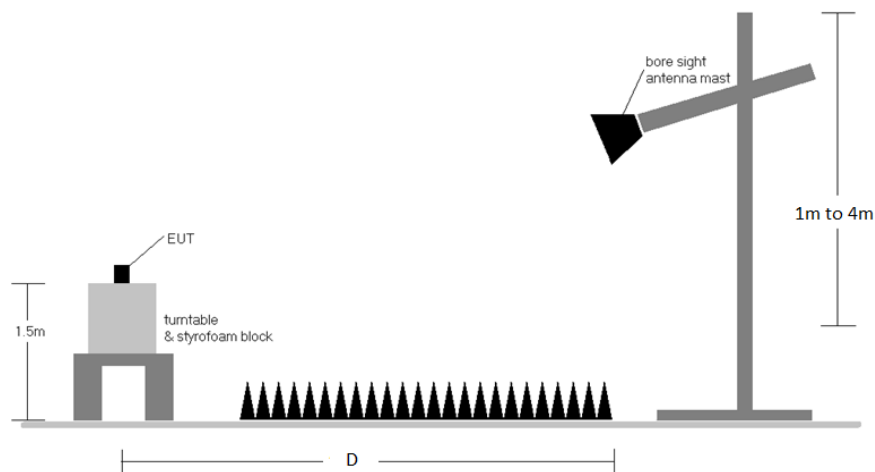


Figure 7-7. Radiated Measurement Setup

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All Radiated Spurious Emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 7.5 of RSS-Gen are below the limit shown in Table 7-54.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through one orthogonal plane.
4. This unit was tested while powered by an AC power source.
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. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. All data rates were investigated and only the worst case is reported.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 101 of 175

Sample Calculations

Determining Spurious Emissions Levels

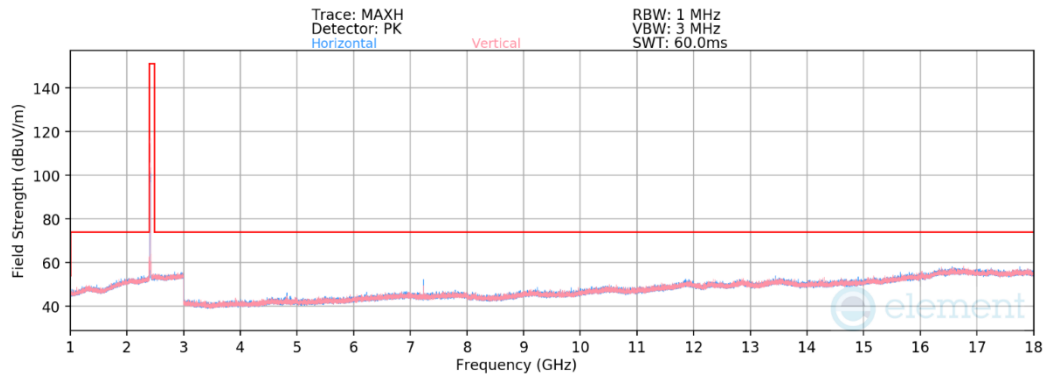
- Field Strength Level $_{[dB_{\mu V/m}]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB_{\mu V/m}]}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

Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.8.2 to 7.8.7 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 102 of 175

7.8.1 CDD (Dedicated) Radiated Spurious Emission Measurements



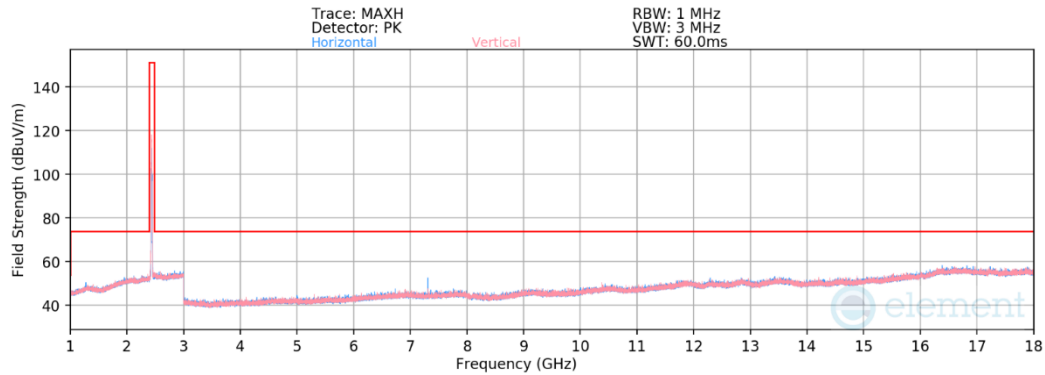
Plot 7-103. Radiated Spurious Emissions above 1GHz CDD (Dedicated) (802.11ax OFDMA – RU26 – Ch. 1)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS9
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

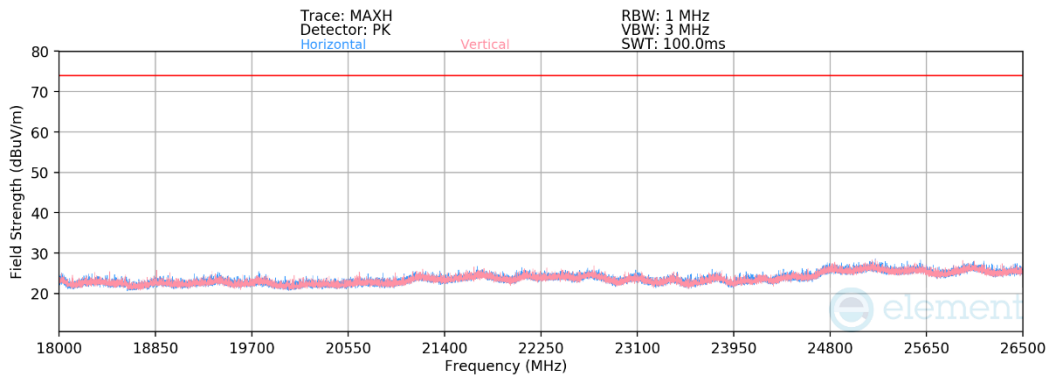
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	H	191	329	-76.42	6.61	37.19	53.98	-16.79
4824.00	Peak	H	191	329	-65.09	6.61	48.52	73.98	-25.46
12060.00	Avg	V	-	-	-82.94	15.64	39.70	53.98	-14.28
12060.00	Peak	V	-	-	-71.48	15.64	51.16	73.98	-22.82
14472.00	Avg	H	-	-	-84.09	18.22	41.13	53.98	-12.85
14472.00	Peak	H	-	-	-72.84	18.22	52.38	73.98	-21.60

Table 7-55. Radiated Measurements CDD (Dedicated) (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 103 of 175



Plot 7-104. Radiated Spurious Emissions above 1GHz CDD (Dedicated) (802.11ax OFDMA – RU26 – Ch. 6)



Plot 7-105. Radiated Spurious Emissions above 18GHz CDD (Dedicated) (802.11ax OFDMA – RU26 – Ch. 6)

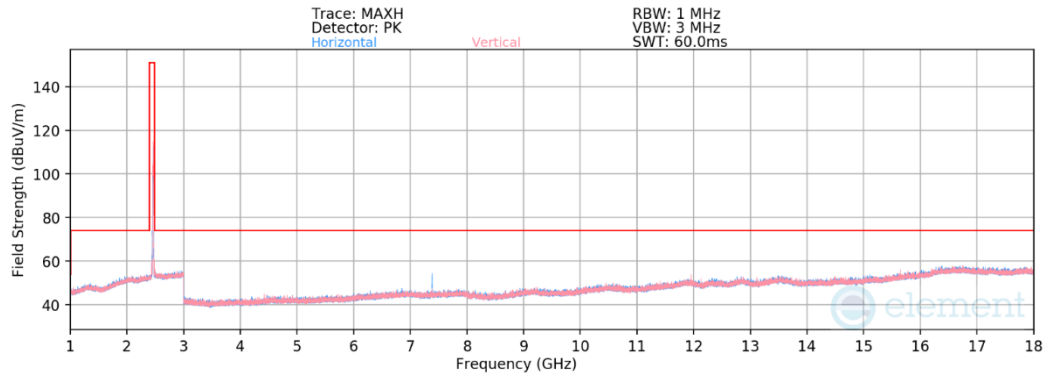
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 4
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	-	-	-79.71	6.56	0.00	33.85	53.98	-20.13
4874.00	Peak	V	-	-	-67.85	6.56	0.00	45.71	73.98	-28.27
7311.00	Avg	V	106	36	-82.97	13.35	0.00	37.38	53.98	-16.60
7311.00	Peak	V	106	36	-68.62	15.68	0.00	54.06	73.98	-19.92
12185.00	Avg	H	-	-	-83.53	15.68	0.00	39.15	53.98	-14.83
12185.00	Peak	H	-	-	-72.31	15.68	0.00	50.37	73.98	-23.61
19496.00	Avg	H	-	-	-52.28	-5.94	-9.54	29.70	53.98	-24.28
19496.00	Peak	H	-	-	-40.62	-5.94	-9.54	41.36	73.98	-32.62

Table 7-56. Radiated Measurements CDD (Dedicated) (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 175



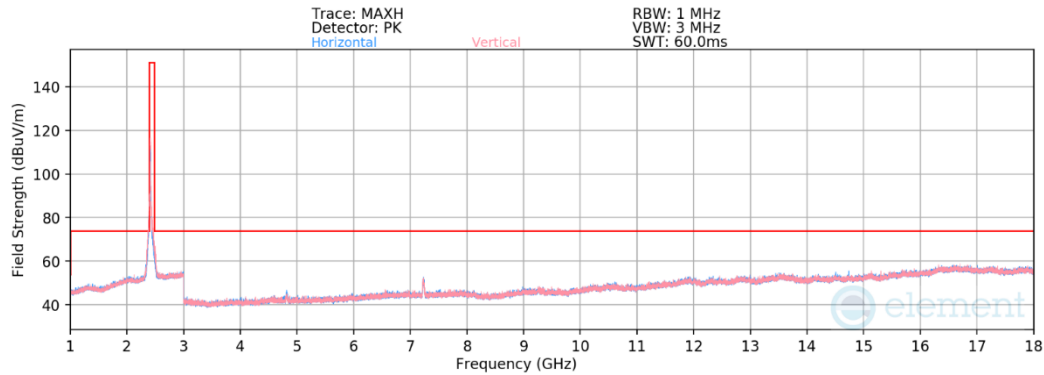
Plot 7-106. Radiated Spurious Emissions above 1GHz CDD (Dedicated) (802.11ax OFDMA – RU26 – Ch. 11)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS9
RU Index:	4
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11

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]
4924.00	Average	V	-	-	-79.46	6.50	34.04	53.98	-19.94
4924.00	Peak	V	-	-	-68.06	6.50	45.45	73.98	-28.53
7386.00	Average	H	250	36	-81.15	10.03	35.88	53.98	-18.10
7386.00	Peak	H	250	36	-65.03	10.03	52.00	73.98	-21.98
12310.00	Average	H	-	-	-83.67	16.37	39.70	53.98	-14.28
12310.00	Peak	H	-	-	-72.42	16.37	50.95	73.98	-23.03

Table 7-57. Radiated Measurements CDD (Dedicated) (RU26)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 175



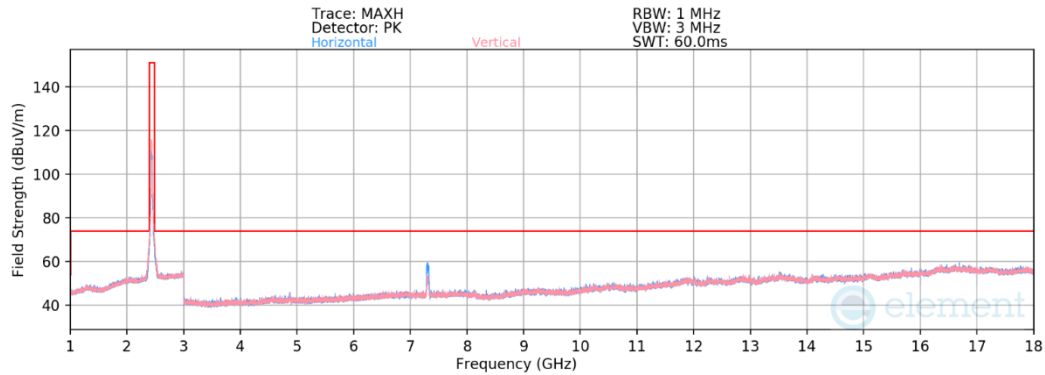
Plot 7-107. Radiated Spurious Emissions above 1GHz CDD (Dedicated) (802.11ax OFDMA – RU242 – Ch. 1)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

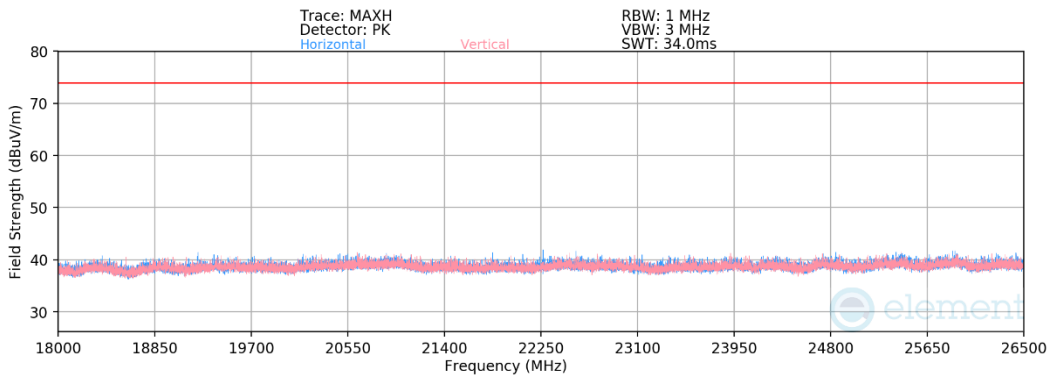
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4824.00	Avg	H	185	327	-74.24	6.68	0.09	39.53	53.98	-14.45
4824.00	Peak	H	185	327	-63.72	6.68	0.00	49.96	73.98	-24.02
7236.00	Avg	H	258	275	-72.94	10.84	0.09	44.99	53.98	-8.99
7236.00	Peak	H	258	275	-61.68	10.84	0.00	56.16	73.98	-17.82
12060.00	Avg	V	-	-	-82.92	16.59	0.00	40.67	53.98	-13.31
12060.00	Peak	V	-	-	-71.29	16.59	0.00	52.30	73.98	-21.68

Table 7-58. Radiated Measurements CDD (Dedicated) (RU242)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 175



Plot 7-108. Radiated Spurious Emissions above 1GHz CDD (Dedicated) (802.11ax OFDMA – RU242 – Ch. 6)



Plot 7-109. Radiated Spurious Emissions above 18GHz CDD (Dedicated) (802.11ax OFDMA – RU242 – Ch. 6)

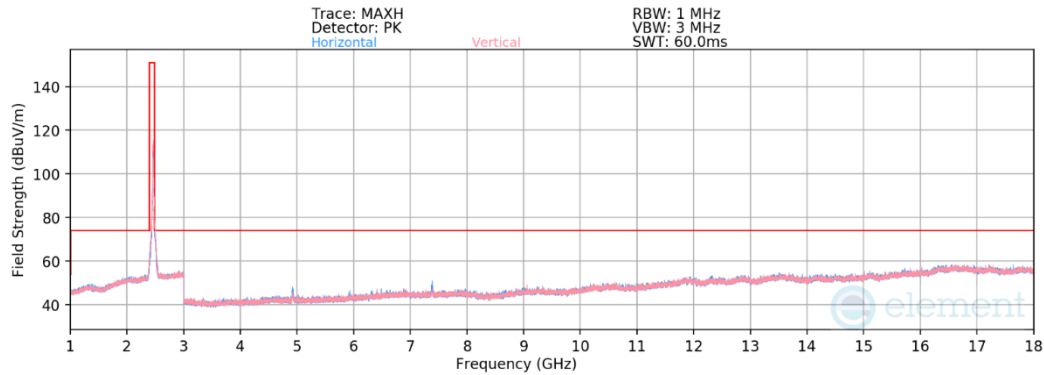
FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.BCG		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 108 of 175

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS9
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	190	190	-71.76	6.47	0.09	0.00	41.80	53.98	-12.18
4874.00	Peak	H	190	190	-60.32	6.47	0.00	0.00	53.15	73.98	-20.83
7311.00	Avg	H	268	268	-72.05	10.07	0.09	0.00	45.11	53.98	-8.87
7311.00	Peak	H	268	268	-59.17	10.07	0.00	0.00	57.90	73.98	-16.08
12185.00	Avg	H	-	-	-83.66	16.86	0.00	0.00	40.20	53.98	-13.78
12185.00	Peak	H	-	-	-72.47	16.86	0.00	0.00	51.39	73.98	-22.59
19496.00	Avg	H	-	-	-52.35	-5.94	0.00	-9.54	29.64	53.98	-24.34
19496.00	Peak	H	-	-	-40.70	-5.94	0.00	-9.54	41.32	73.98	-32.66

Table 7-59. Radiated Measurements CDD (Dedicated) (RU242)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 175	



Plot 7-110. Radiated Spurious Emissions above 1GHz CDD (Dedicated) (802.11ax OFDMA – RU242 – Ch. 11)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS9
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4924.00	Avg	H	174	327	-72.58	6.55	0.09	41.06	53.98	-12.92
4924.00	Peak	H	174	327	-61.59	6.55	0.00	51.96	73.98	-22.02
7386.00	Avg	H	253	5	-75.95	10.14	0.09	41.28	53.98	-12.70
7386.00	Peak	H	253	5	-62.62	10.14	0.00	54.52	73.98	-19.46
12310.00	Avg	V	-	-	-83.63	17.34	0.00	40.71	53.98	-13.27
12310.00	Peak	V	-	-	-71.88	17.34	0.00	52.46	73.98	-21.52

Table 7-60. Radiated Measurements CDD (Dedicated) (RU242)

FCC ID: BCGA3300 IC: 579C-A3300		Test Dates: 3/24/2025 - 11/26/2025	EUT Type: Smart Speaker with Display	Approved by: Technical Manager
Test Report S/N: 1C2503170028-05-R4.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 175