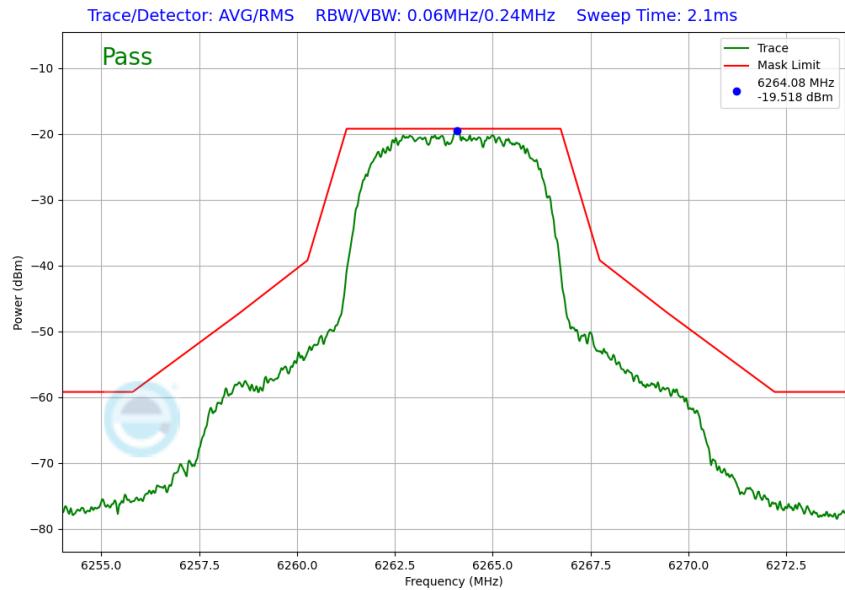
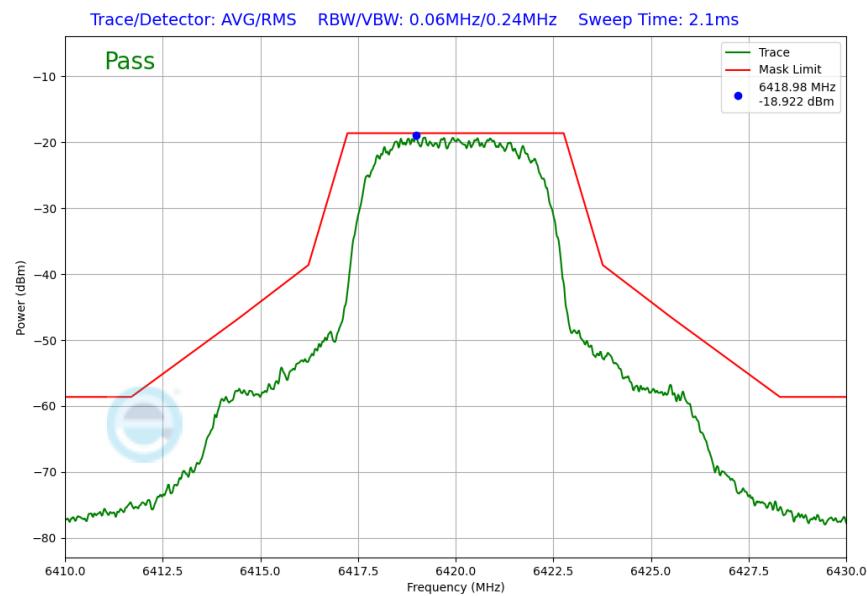


Plot 7-61. In Band Emission Plot (NB UNII HDRp8 – 6108MHz)



Plot 7-62. In Band Emission Plot (NB UNII HDRp8 – 6264MHz)

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 53 of 101



Plot 7-63. In Band Emission Plot (NB UNII HDRp8 – 6420MHz)

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 54 of 101

7.6 Contention Based Protocol

§15.407(d.6); RSS-248 [4.7]

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925 – 7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

KDB 987594 D02 v03 – Section I

Test Settings

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
7. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
9. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
10. Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
11. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 55 of 101 V 10.6 10/27/2023

Test Setup

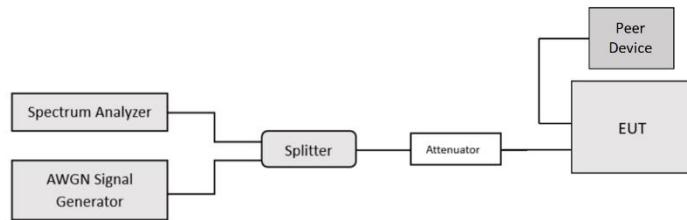


Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

1. Peer devices used was model: A2117 (refer to Table 2-4)
2. Per guidance from KDB 987594 D02 v03, contention-based protocol was tested using an AWGN signal with a bandwidth of 10MHz. The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, marker indicates the point at which the AWGN signal is introduced.
3. Per KDB 987594 D04 v03, contention-based protocol was tested with receiver with the lowest antenna gain.
4. 15 trials were ran in order to assure that at least 90% of certainty was met.
5. Per manufacturer's declaration, after establishing communication between the EUT and the peer device, NB UNII HDR is used to maintain communication and traffic. NB UNII BDR and NB UNII LE are used for establishing the initial connection with the peer device.
6. EUT does not support channel puncturing

$$\text{Detection Level} = \text{Injected AWGN Power (dBm)} - \text{Antenna Gain (dBi)} + \text{Path Loss (dB)}$$

Equation 7-1. Incumbent Detection Level Calculation

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 56 of 101 V 10.6 10/27/2023

Band	Incumbent Frequency [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	6350	-68.87	-3.83	-65.04	-62.0	-3.04

Table 7-5. Contention Based Protocol – Incumbent Detection Results

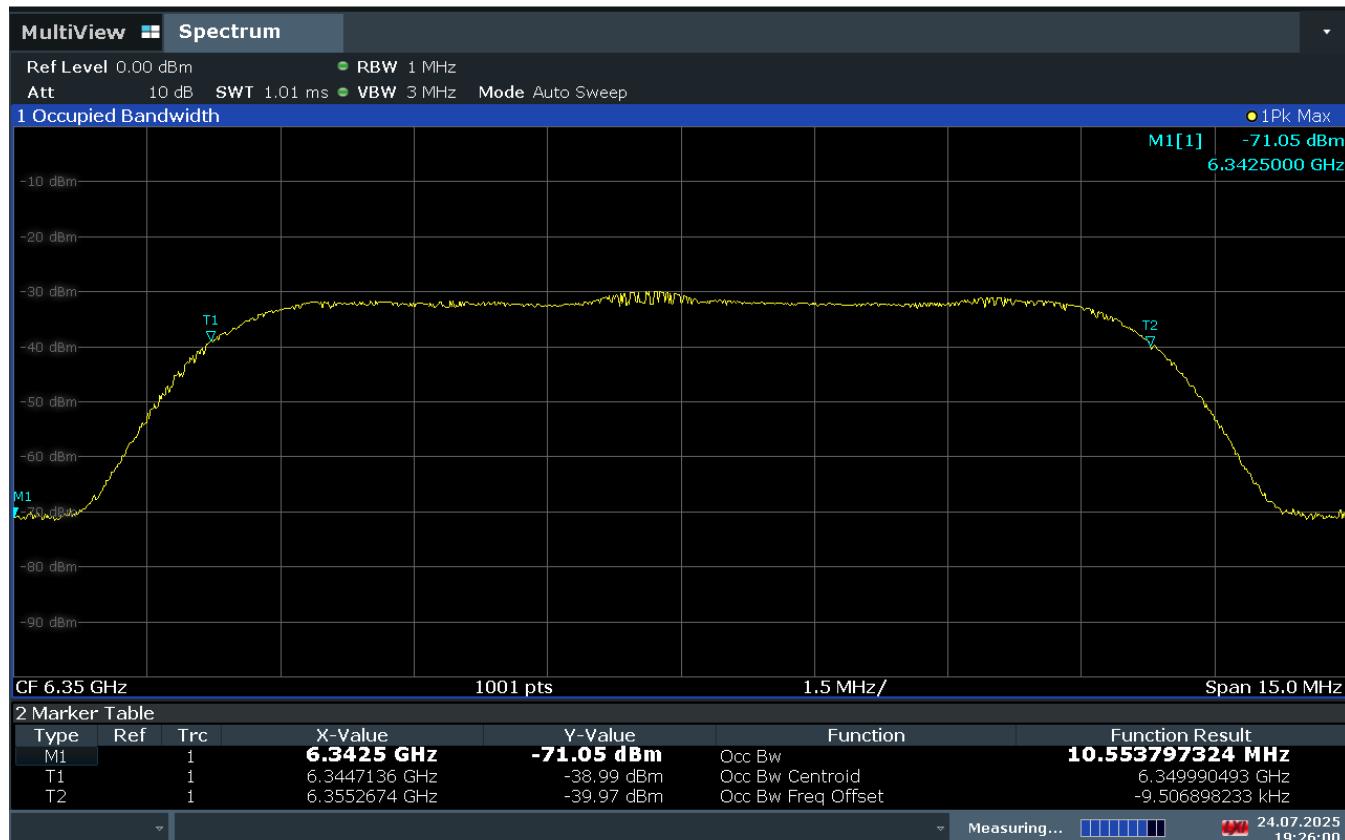
Band	EUT Transmission Status		
	Adjusted AWGN Power (dBm)		
	Normal	Minimal	Ceased
UNII Band 5	-76.22	-66.29	-65.04

Table 7-6. Contention Based Protocol – Detection Results

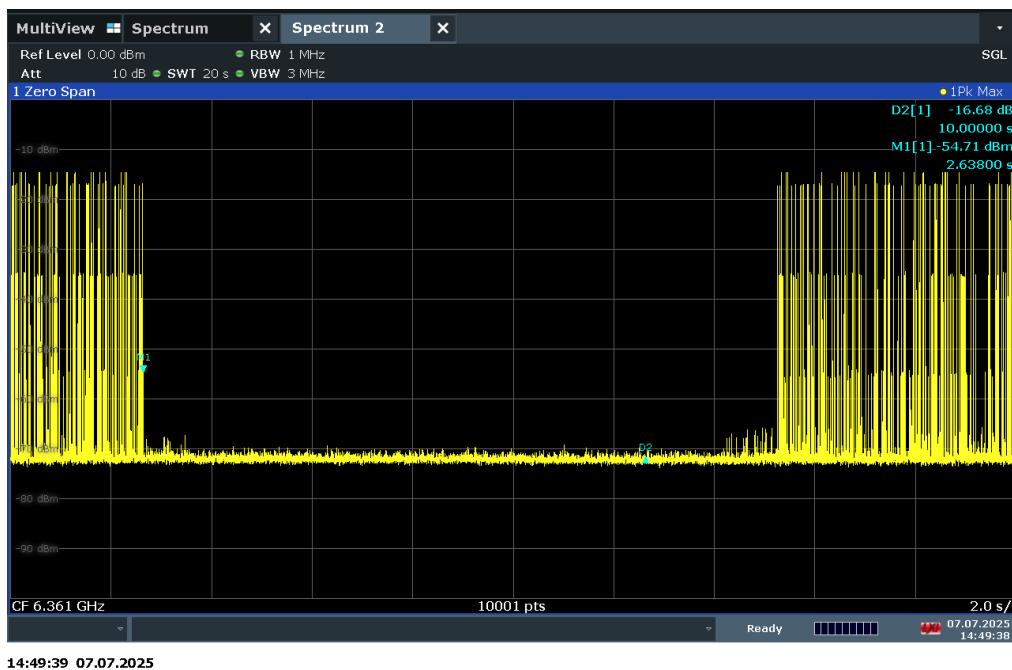
Band	CBP Detection (1 = Detection, Blank = No Detection)															Detection Rate [%]	Limit [%]	Pass/Fail
	Trail 1	Trail 2	Trail 3	Trail 4	Trail 5	Trail 6	Trail 7	Trail 8	Trail 9	Trail 10	Trail 11	Trail 12	Trail 13	Trail 14	Trail 15			
UNII Band 5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass

Table 7-7. Contention Based Protocol – Incumbent Detection Trials

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 57 of 101

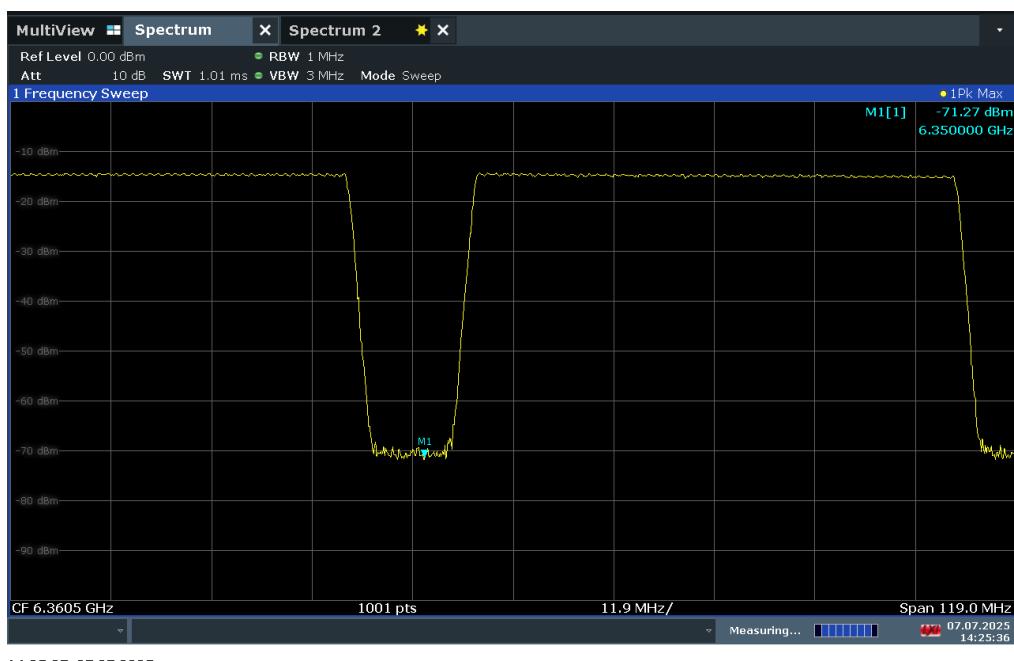
AWGN Plots
Peak

19:26:01 24.07.2025
Plot 7-64. AWGN Signal

FCC ID: BCG-A3064 IC: 579C-A3064		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 58 of 101

Contention-Based Protocol Timing Plots


FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 59 of 101

Bandwidth Reduction Plots



FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 60 of 101

7.7 Transmit Power Control (TPC)

§15.407(d.10); RSS-248 [4.6]

Test Overview and Limit

Very low power devices operating in the 5.925-6.425 and 6.525-6.875 GHz bands shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz.

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.7

KDB 789033 D02 v02r01 – Section F

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 99% OBW of the signal
3. RBW = 1MHz
4. VBW $\geq 1 / T$, (T refers to the minimum transmissions duration over which the transmitter is on)
5. Number of sweep points $> 2 \times (\text{span}/\text{RBW})$
6. Sweep time = No faster than couples (auto) time
7. Detector = peak
8. Trace mode = max hold
9. Trigger was set to free run for all modes
10. Compute power by integrating the spectrum across the 99 %OBW of the signal using the instrument's band-power measurement function with band limits set equal to the OBW band-edges.

Test Setup

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

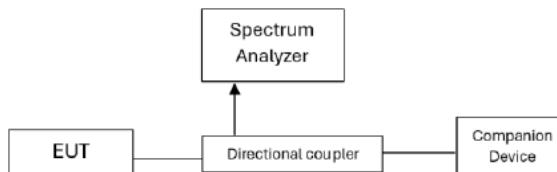


Figure 7-6. Test Instrument & Measurement Setup

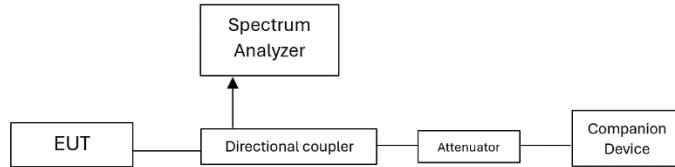


Figure 7-7. Test Instrument & Measurement Setup (With Attenuation)

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 61 of 101 V 10.6 10/27/2023



This test demonstrates the ability of the device to increase and decrease power by the required 6dB as the RSSI is decreased and increased.

1. Configure EUT and companion device for peer-to-peer communication as shown in Figure 7-6. (no attenuation for noise free spectral environment, high RSSI simulation)
2. Establish a link and start communication between EUT and companion device
3. Capture PSD spectrum analyzer
4. Add a 20dB attenuator to the setup as shown in Figure 7-7 (noisy spectral environment, low RSSI simulation)
5. Capture PSD spectrum analyzer
6. Compare the highest PSD captured in step 3 to the highest PSD on step 5 and determine the delta.

Test Notes

1. Companion device used was model: A2117 (refer to Table 2-4)
2. Per manufacturer's declaration, after establishing communication between the EUT and the companion device, NB UNII HDR is used to maintain communication and traffic. NB UNII BDR and NB UNII LE are used for establishing the initial connection with the companion device.
3. TPC is triggered when a high RSSI is detected. As RSSI detected signal decreases, the transmitters output power will increase back to maximum allowed power.

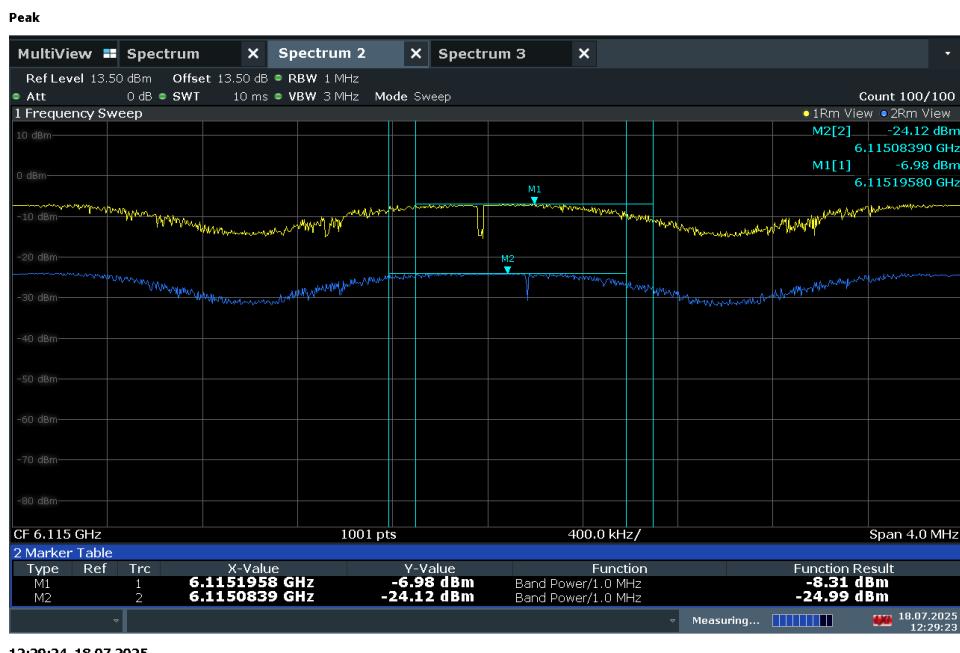
FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 62 of 101 V 10.6 10/27/2023

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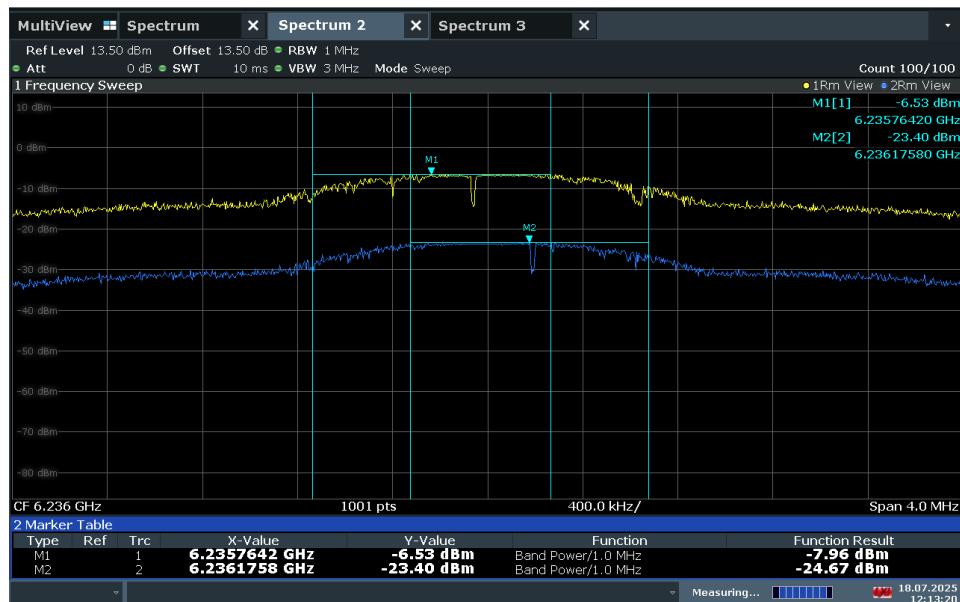
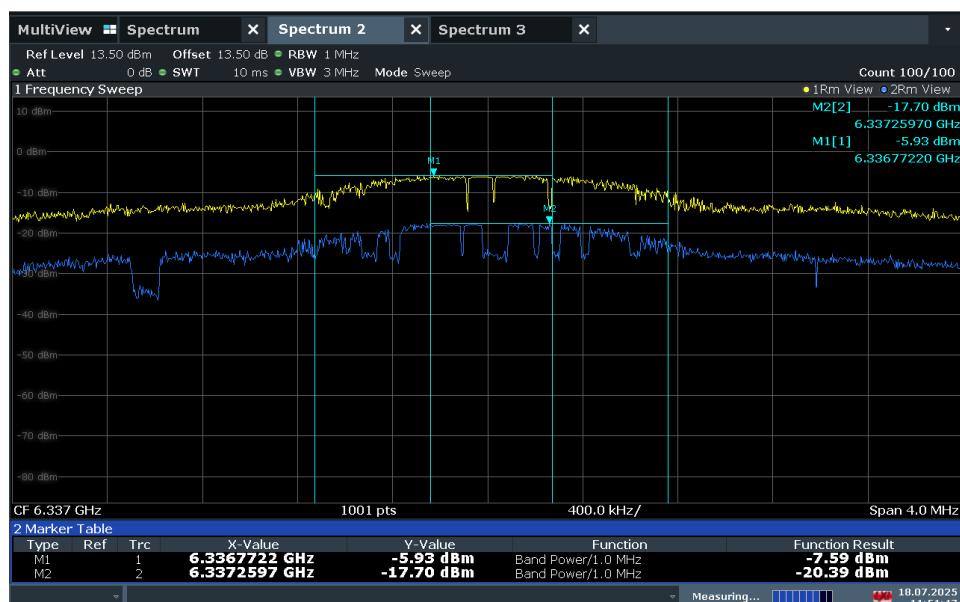
Frequency [MHz]	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	e.i.r.p. Power Density Limit [dBm/MHz]	Pass/Fail
6115	-6.98	-1.80	-8.78	-5.00	Pass
6236	-6.53	-2.04	-8.57	-5.00	Pass
6337	-5.93	-2.54	-8.47	-5.00	Pass

Table 7-8. PSD Measurements (no TPC)

Frequency [MHz]	Summed Power Density	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	e.i.r.p. Power Density Limit [dBm/MHz]	Pass/Fail
6115	-24.12	-1.80	-25.92	-11.00	Pass
6236	-23.40	-2.04	-25.44	-11.00	Pass
6337	-17.70	-2.54	-20.24	-11.00	Pass

Table 7-9. PSD Measurements (with TPC)

Plot 7-68. Power Spectral Density Plot (NB UNII BDR, 6115MHz)

FCC ID: BCG-A3064 IC: 579C-A3064		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Peak

Plot 7-69. Power Spectral Density Plot (NB UNII BDR, 6236MHz)
Peak

Plot 7-70. Power Spectral Density Plot (NB UNII BDR, 6377MHz)

FCC ID: BCG-A3064 IC: 579C-A3064		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 64 of 101

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7.8 Radiated Spurious Emission – Above 1GHz

§15.407(b) §15.205 §15.209; RS-Gen [8.9], RSS-248 [4.6.2]

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 and KDB 789033 D02 v02r01, and at the appropriate frequencies. 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 (8.9) as shown in the table below.

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-10. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – 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 $\geq 2 \times$ 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

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Setup

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

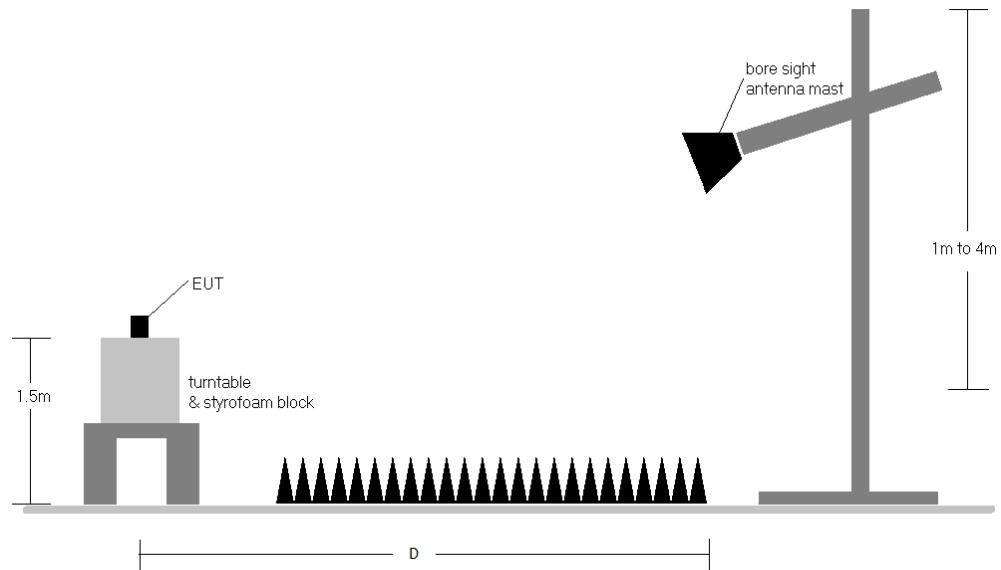


Figure 7-8. Test Instrument & Measurement Setup

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 66 of 101

Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and section 8.10 of RSS-Gen are below the limit shown in Table 7-10.
2. All spurious emissions lying in restricted bands specified in §15.205 and section 8.10 of RSS-Gen are below the limit shown in Table 7-10. 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 "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

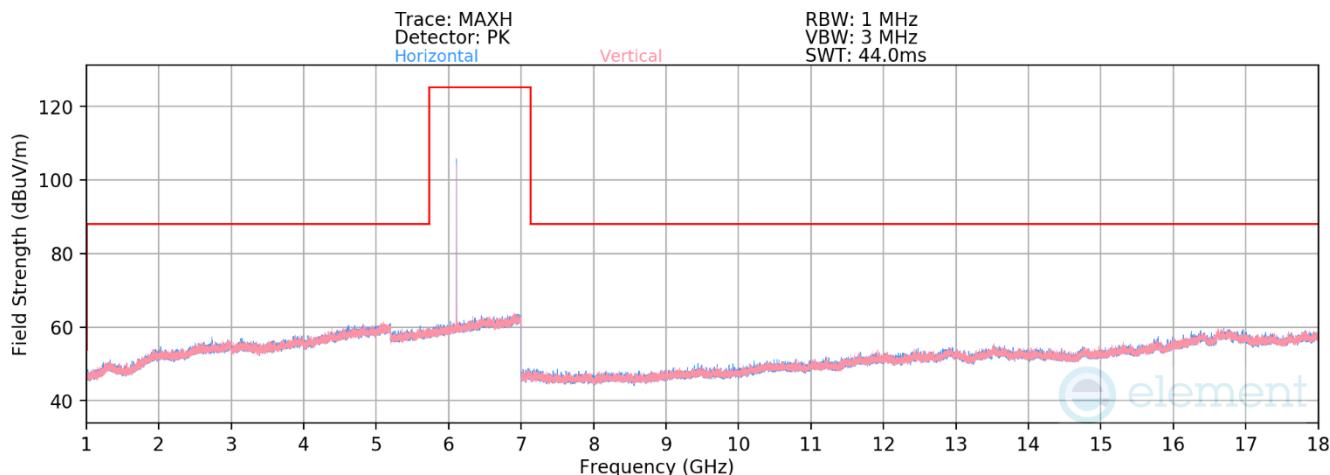
- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] – Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

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

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7.8.1 Radiated Spurious Emission (Above 1GHz)



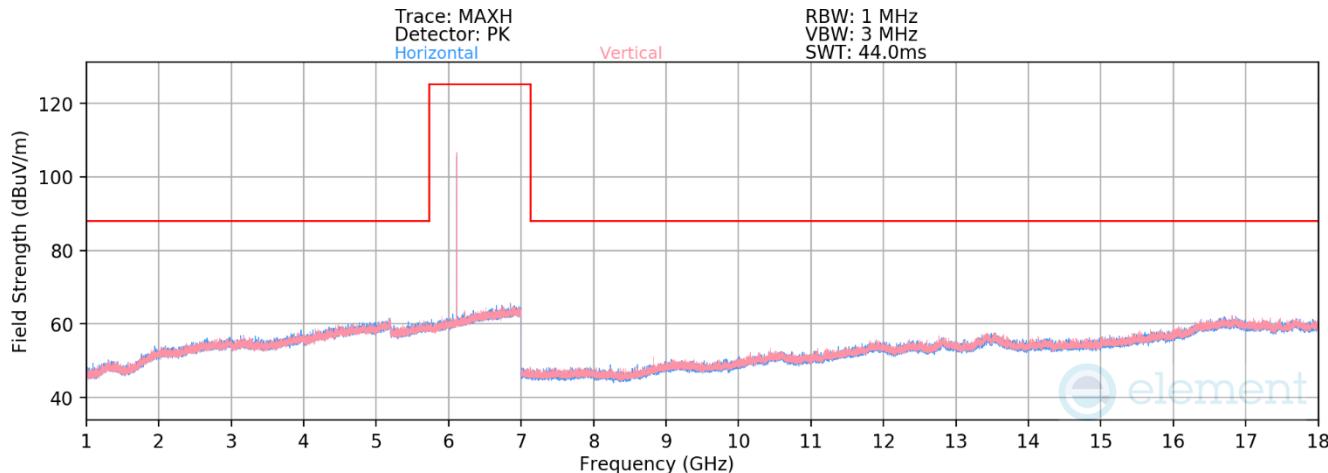
Plot 7-71. Radiated Spurious Emissions 1-18GHz (NB UNII BDR – 6108MHz)

Mode: NB UNII BDR
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6108MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 12216.00	Avg	-	-	-	-83.17	17.58	41.41	53.98	-12.57
* 12216.00	Peak	-	-	-	-81.36	17.58	43.22	73.98	-30.76

Table 7-11. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 68 of 101



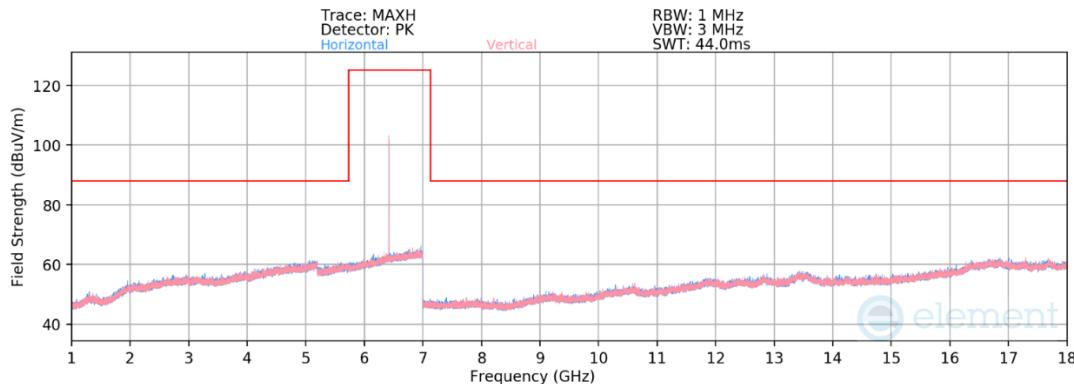
Plot 7-72. Radiated Spurious Emissions 1-18GHz (NB UNII BDR – 6264MHz)

Mode: NB UNII BDR
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6264MHz

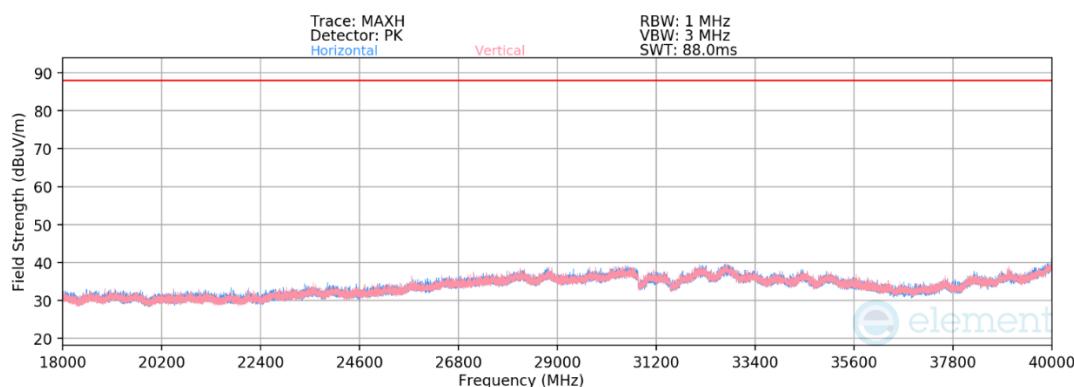
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 12528.00	Avg	-	-	-	-83.08	18.07	41.99	53.98	-11.99
* 12528.00	Peak	-	-	-	-71.52	18.07	53.55	73.98	-20.43

Table 7-12. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud			



Plot 7-73. Radiated Spurious Emissions 1-18GHz (NB UNII BDR – 6420MHz)



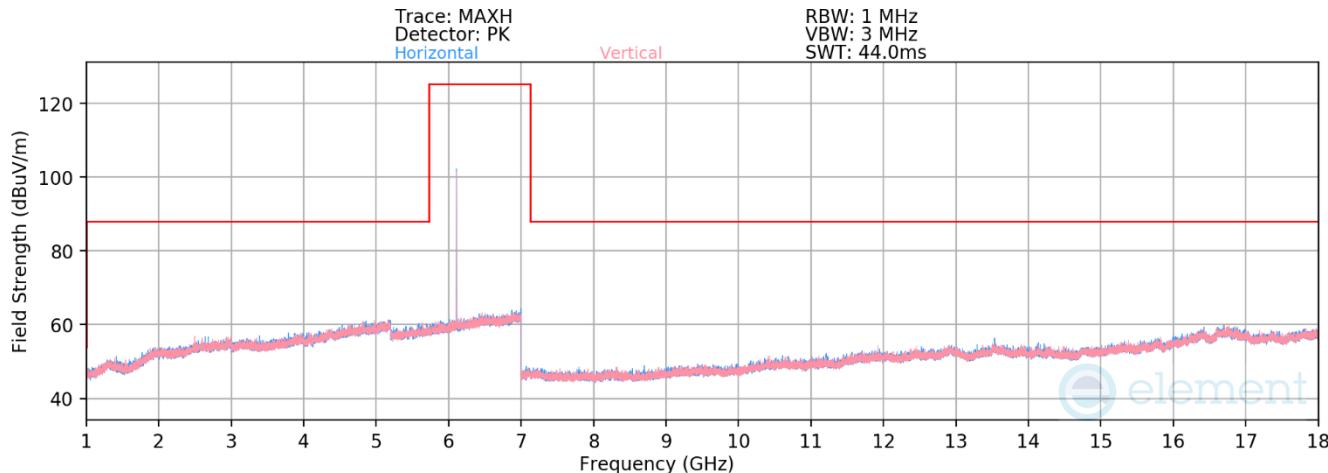
Plot 7-74. Radiated Spurious Emissions 18-40GHz (NB UNII BDR – 6420MHz)

Mode: NB UNII BDR
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6420MHz

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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]	
12840.00	Peak	-	-	-	-67.36	17.25	0.00	0.00	56.89	88.23	-31.34	
*	19260.00	Avg	H	150	221	-46.21	-7.50	1.17	-9.54	46.69	53.98	-7.29
*	19260.00	Peak	H	150	221	-37.32	-7.50	0.00	-9.54	51.31	73.98	-22.67
	25680.00	Peak	H	150	209	-49.30	-5.89	0.00	-9.54	42.27	88.23	-45.96
*	32100.00	Peak	V	150	60	-44.45	-2.73	0.00	-9.54	50.28	88.23	-37.95
*	38520.00	Avg	V	150	23	-60.54	-4.96	1.17	-9.54	33.13	53.98	-20.85
*	38520.00	Peak	V	150	23	-49.79	-4.96	0.00	-9.54	42.71	73.98	-31.27

Table 7-13. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 70 of 101



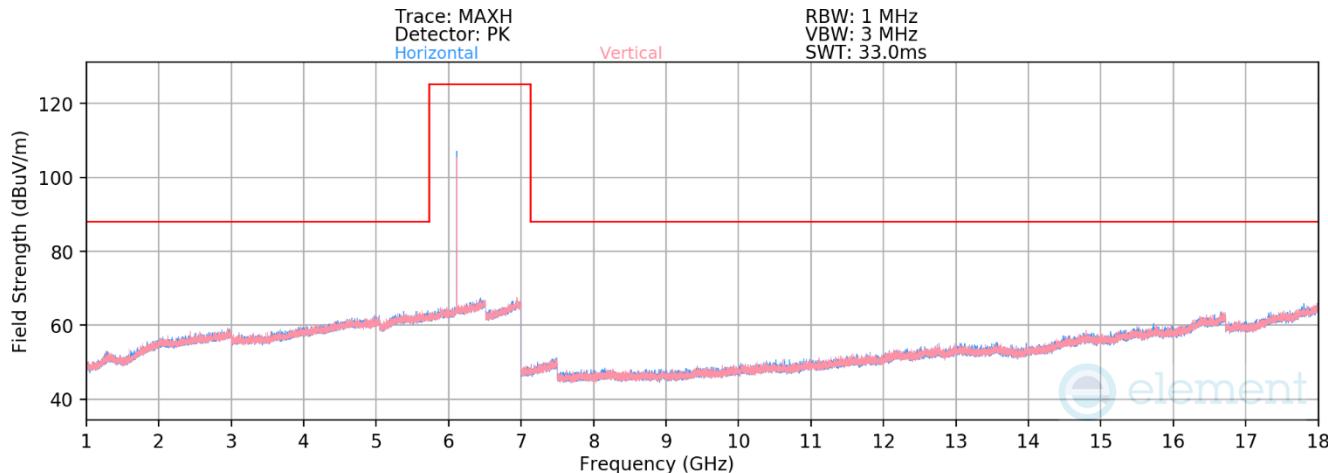
Plot 7-75. Radiated Spurious Emissions 1-18GHz (NB UNII LE1M – 6108MHz)

Mode: NB UNII LE
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6108MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 12216.00	Avg	-	-	-	-87.30	17.58	37.28	53.98	-16.70
* 12216.00	Peak	-	-	-	-75.51	17.58	49.07	73.98	-24.91

Table 7-14. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud			



Plot 7-76. Radiated Spurious Emissions 1-18GHz (NB UNII LE1M – 6264MHz)

Mode: NB UNII LE
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6264MHz

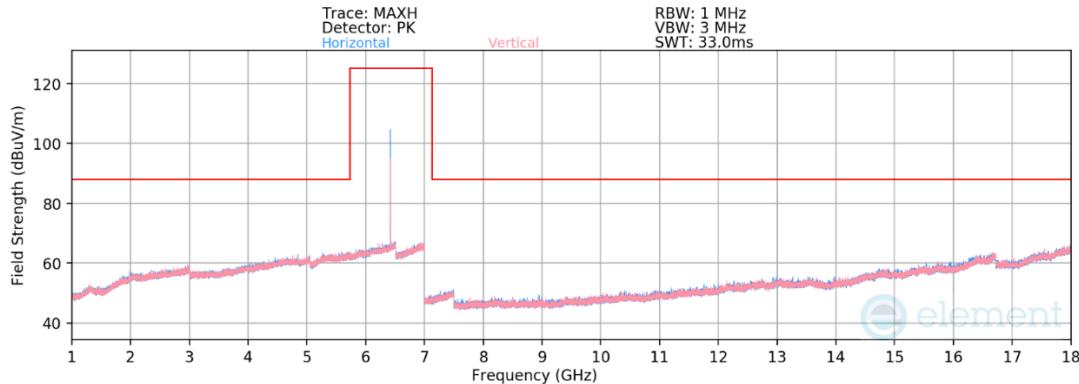
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 12528.00	Avg	-	-	-	-86.78	18.07	38.29	53.98	-15.69
* 12528.00	Peak	-	-	-	-74.57	18.07	50.50	73.98	-23.48

Table 7-15. Radiated Spurious Emissions Measurements

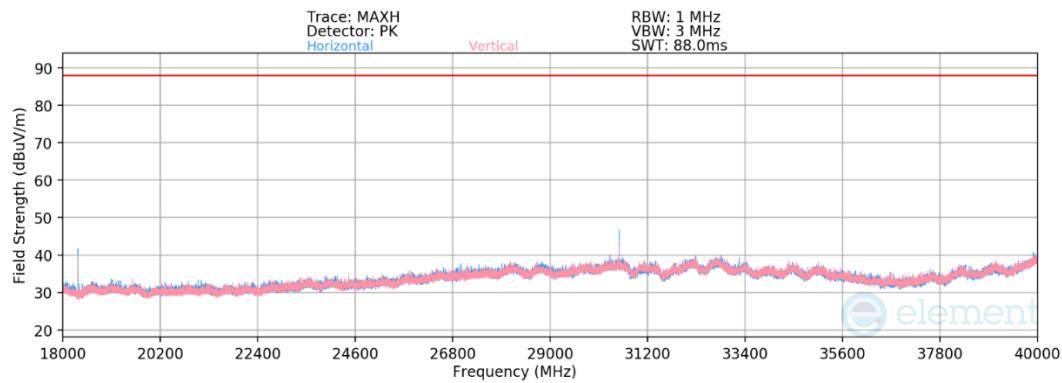
FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud			

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Plot 7-77. Radiated Spurious Emissions 1-18GHz (NB UNII LE1M – 6420MHz)



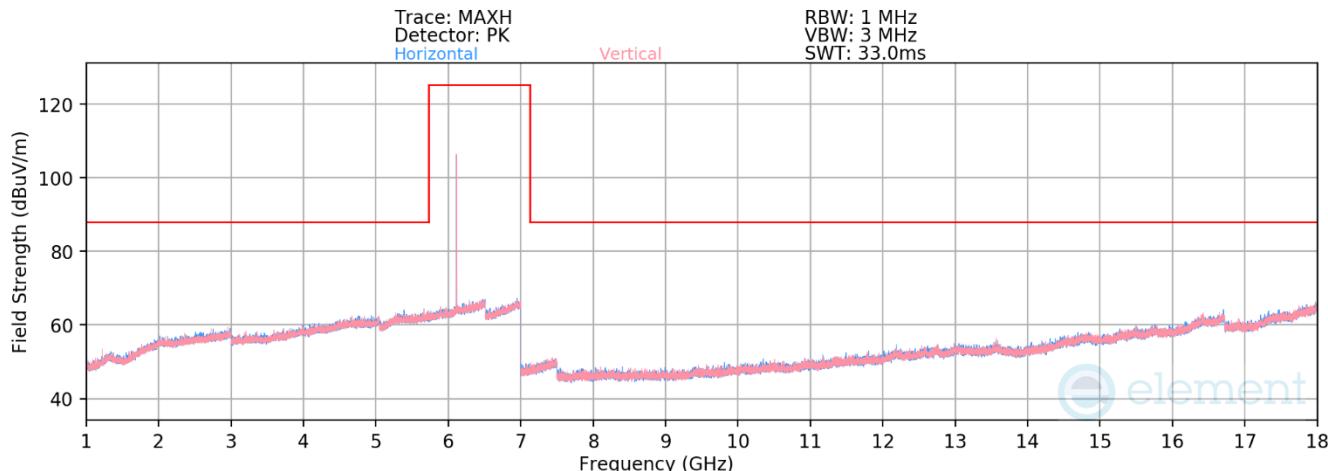
Plot 7-78. Radiated Spurious Emissions 18-40GHz (NB UNII LE1M– 6420MHz)

Mode: NB UNII LE
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6420MHz

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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	
12840.00	Peak	-	-	-	-70.85	17.25	0.00	0.00	53.40	88.23	-34.83	
*	19260.00	Avg	H	150	219	-48.73	-5.73	0.63	-9.54	43.63	53.98	-10.35
*	19260.00	Peak	H	150	41	-42.78	-5.73	0.00	-9.54	48.95	73.98	-25.03
25680.00	Peak	H	150	27	-48.42	-5.89	0.00	-9.54	43.15	88.23	-45.08	
32100.00	Peak	H	150	85	-39.64	-2.73	0.00	-9.54	55.09	88.23	-33.14	
*	38520.00	Avg	H	150	41	-57.59	-4.96	0.63	-9.54	35.54	53.98	-18.44
*	38520.00	Peak	H	150	41	-48.26	-4.96	0.00	-9.54	44.24	73.98	-29.74
30565.00	Peak	H	270	314	-53.38	-2.95	0.00	-9.54	50.67	88.23	-37.56	

Table 7-16. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 73 of 101



Plot 7-79. Radiated Spurious Emissions 1-18GHz (NB UNII HDR4 – 6108MHz)

Mode: NB UNII HDR4
 Data Rate: 4Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6108MHz

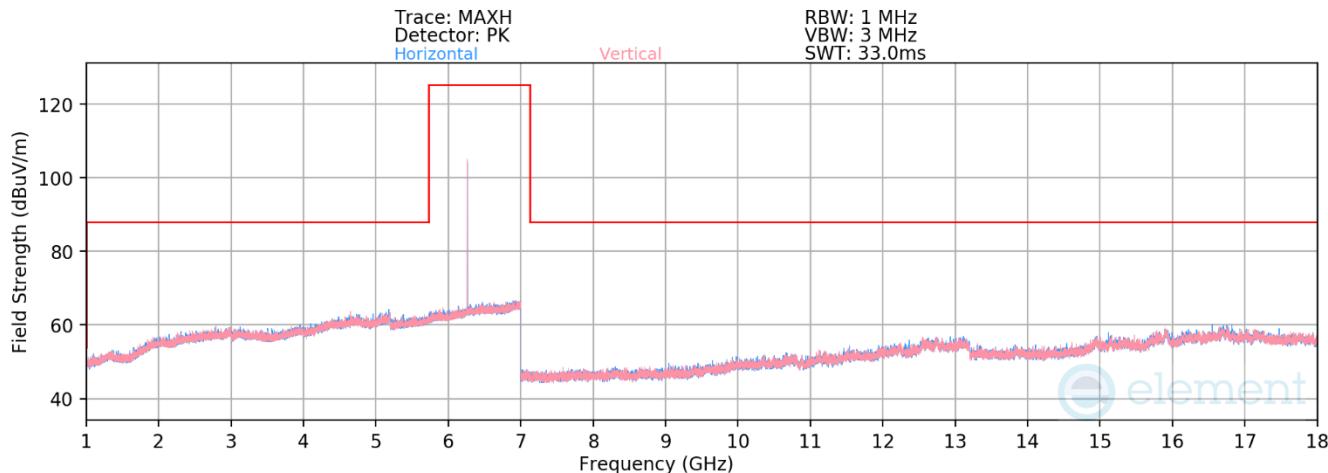
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 12216.00	Avg	-	-	-	-87.17	17.58	37.41	53.98	-16.57
* 12216.00	Peak	-	-	-	-75.87	17.58	48.71	73.98	-25.27

Table 7-17. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud			

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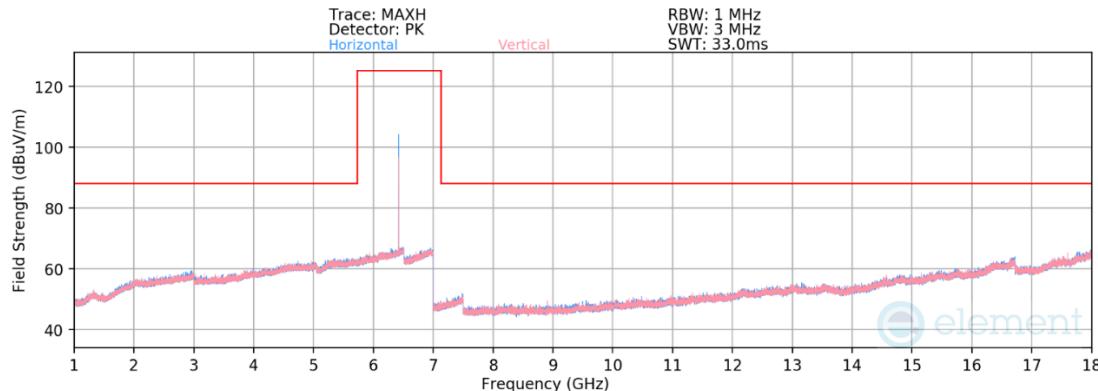
Plot 7-80. Radiated Spurious Emissions 1-18GHz (NB UNII HDR4 – 6264MHz)

Mode: NB UNII HDR4
 Data Rate: 4Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6264MHz

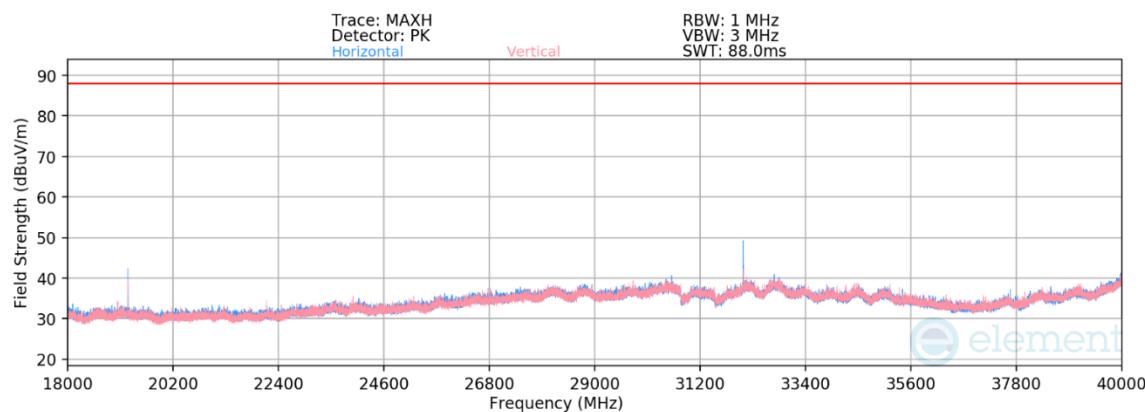
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 12528.00	Avg	-	-	-	-86.76	18.07	38.31	53.98	-15.67
* 12528.00	Peak	-	-	-	-75.06	18.07	50.01	73.98	-23.97

Table 7-18. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud			



Plot 7-81. Radiated Spurious Emissions 1-18GHz (NB UNII HDR4 – 6420MHz)



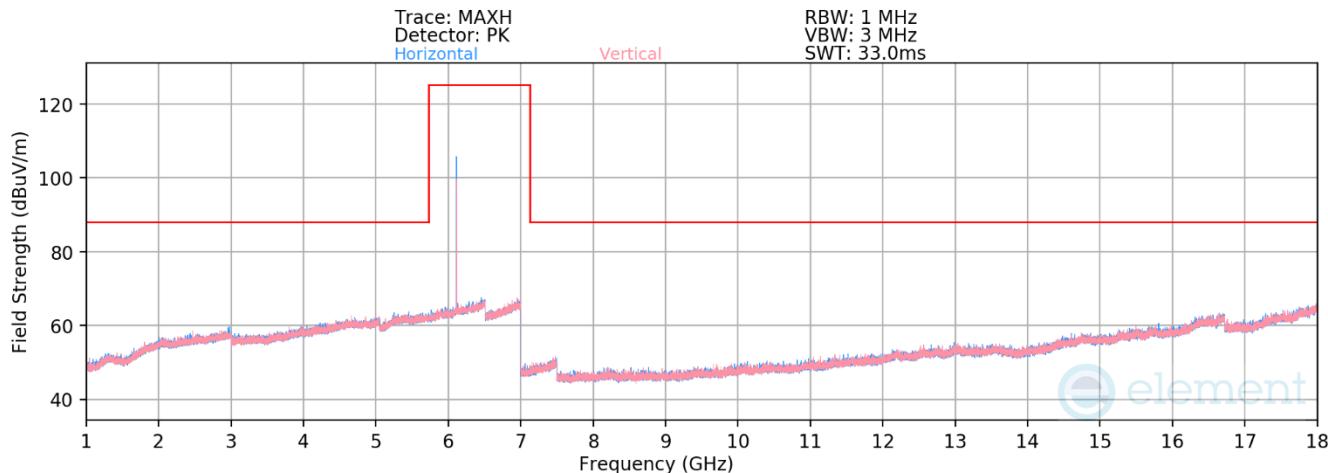
Plot 7-82. Radiated Spurious Emissions Above 18GHz (NB UNII HDR4 – 6420MHz)

Mode: NB UNII HDR4
 Data Rate: 4Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6420MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	
12840.00	Peak	-	-	-	-71.33	17.25	52.92	88.23	-35.31	
*	19260.00	Avg	V	150	21	-46.81	-7.50	44.23	53.98	-9.75
*	19260.00	Peak	V	150	21	-37.59	-7.50	52.37	73.98	-21.61
25680.00	Peak	V	150	267	-49.65	-5.89	41.93	88.23	-46.31	
32100.00	Peak	V	150	229	-48.64	-2.73	46.09	88.23	-42.14	
*	38520.00	Avg	V	150	24	-60.87	-4.96	32.71	53.98	-21.27
*	38520.00	Peak	V	150	24	-49.50	-4.96	43.00	73.98	-30.98

Table 7-19. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 76 of 101



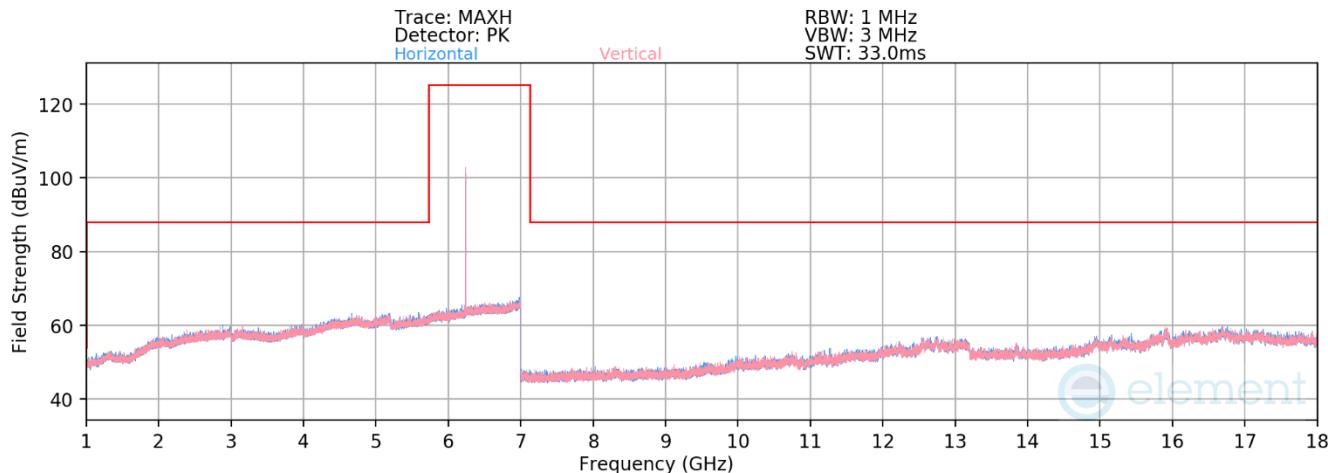
Plot 7-83. Radiated Spurious Emissions 1-18GHz (NB UNII HDRp4 – 6108MHz)

Mode: NB UNII HDRp4
 Data Rate: 4Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6108MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 12216.00	Avg	-	-	-	-87.21	17.58	37.37	53.98	-16.61
* 12216.00	Peak	-	-	-	-74.89	17.58	49.69	73.98	-24.29

Table 7-20. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud			



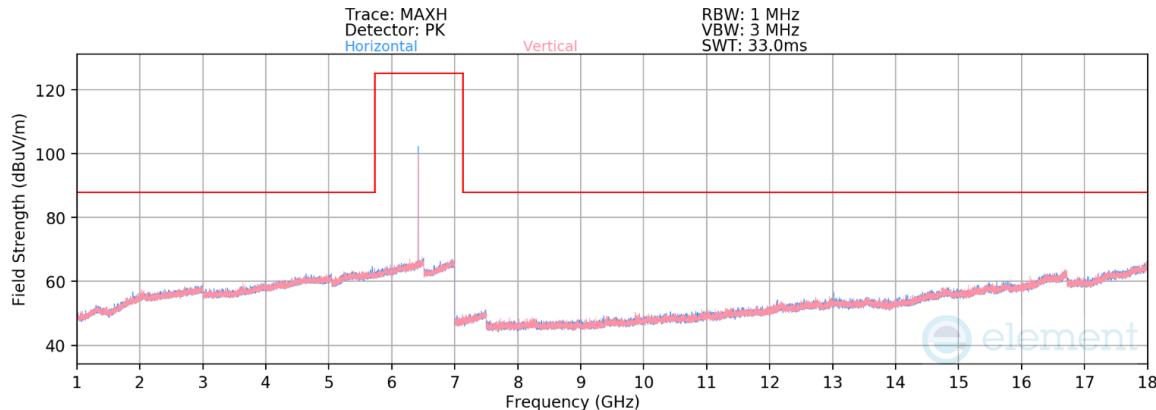
Plot 7-84. Radiated Spurious Emissions 1-18GHz (NB UNII HDRp4 – 6264MHz)

Mode: NB UNII HDRp4
 Data Rate: 4Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6264MHz

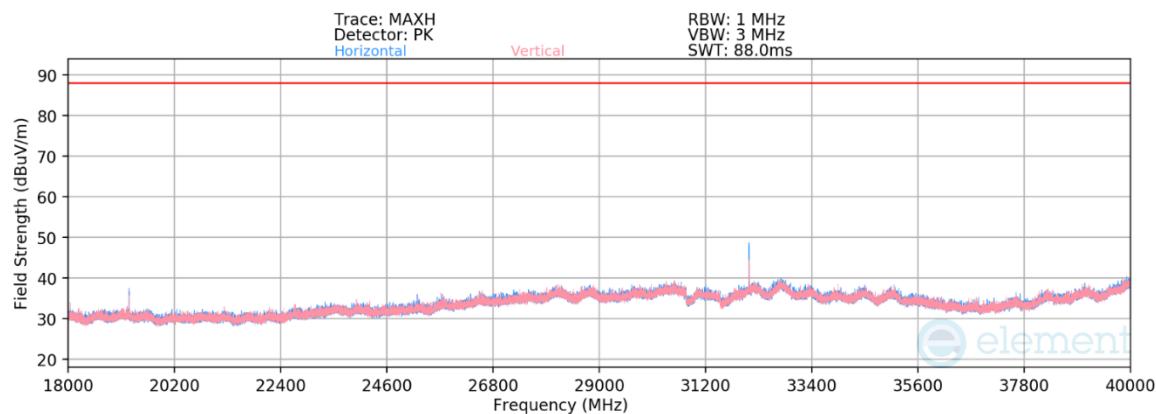
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 12528.00	Avg	-	-	-	-86.96	18.07	38.11	53.98	-15.87
* 12528.00	Peak	-	-	-	-75.09	18.07	49.98	73.98	-24.00

Table 7-21. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud			



Plot 7-85. Radiated Spurious Emissions 1-18GHz (NB UNII HDRp4 – 6420MHz)



Plot 7-86. Radiated Spurious Emissions Above 18GHz (NB UNII HDRp4 – 6420MHz)

Mode: NB UNII HDRp4
 Data Rate: 4Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 6420MHz

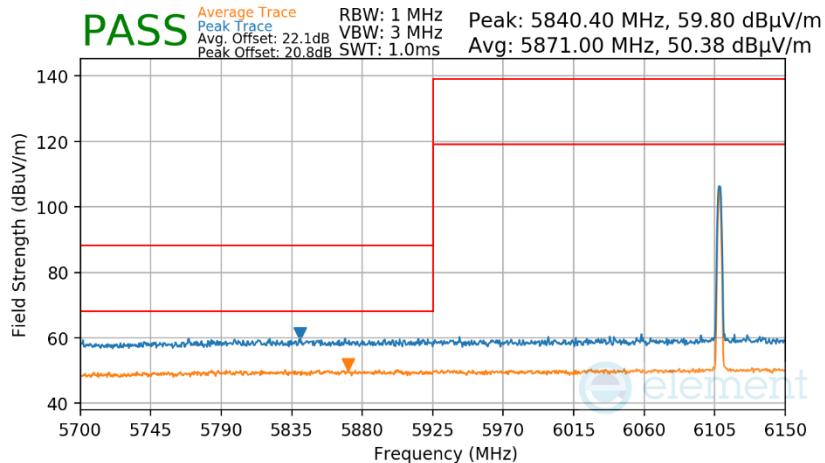
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
12840.00	Peak	-	-	-	-71.03	17.25	0.00	0.00	53.22	88.23	-35.01
*	Avg	V	150	31	-48.09	-7.50	0.73	-9.54	42.60	53.98	-11.38
*	Peak	V	150	31	-40.88	-7.50	0.00	-9.54	49.08	73.98	-24.90
25680.00	Peak	V	150	73	-49.44	-5.89	0.00	-9.54	42.13	88.23	-46.10
32100.00	Peak	V	150	59	-45.81	-2.73	0.00	-9.54	48.92	88.23	-39.31
*	Avg	H	150	77	-59.56	-4.96	0.73	-9.54	33.67	53.98	-20.31
*	Peak	H	150	77	-48.47	-4.96	0.00	-9.54	44.03	73.98	-29.95

Table 7-22. Radiated Spurious Emissions Measurements

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)						Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud						Page 79 of 101

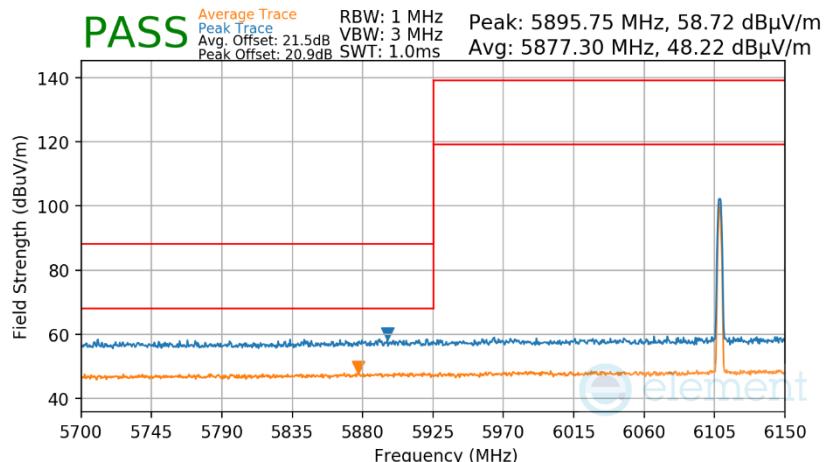
7.8.2 Radiated Band Edge Measurements

Mode: NB UNII BDR
 Measurement Distance: 3 Meters
 Operating Frequency: 6108MHz



Plot 7-87. Radiated Lower Band Edge Measurement

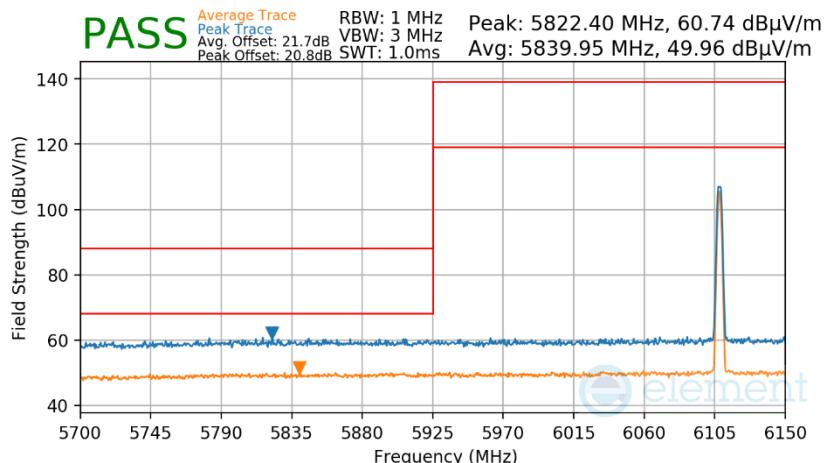
Mode: NB UNII LE
 Measurement Distance: 3 Meters
 Operating Frequency: 6108MHz



Plot 7-88. Radiated Lower Band Edge Measurement

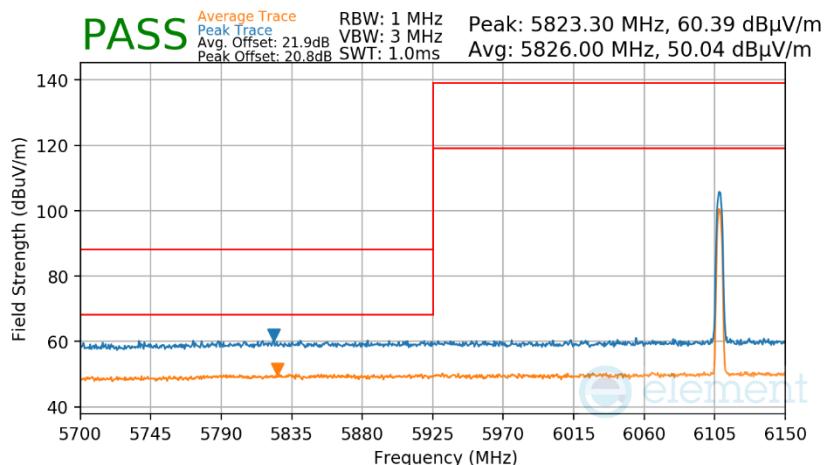
FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 80 of 101

Mode: NB UNII LE
 Measurement Distance: 3 Meters
 Operating Frequency: 6108MHz



Plot 7-89. Radiated Lower Band Edge Measurement

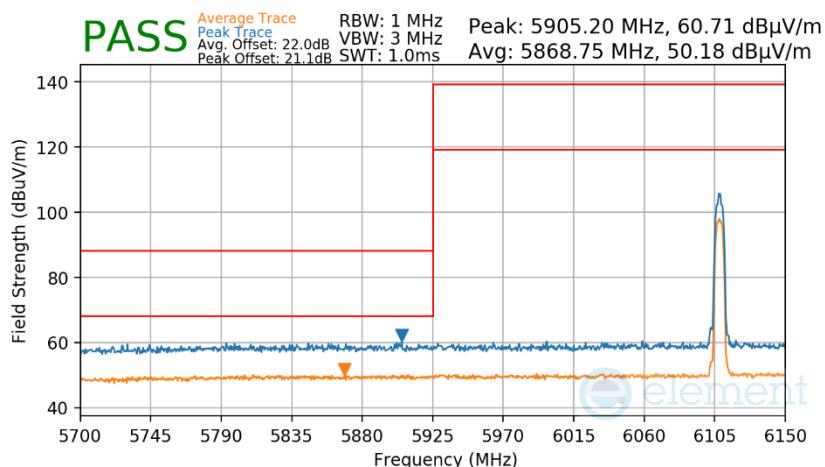
Mode: NB UNII HDR4
 Measurement Distance: 3 Meters
 Operating Frequency: 6108MHz



Plot 7-90. Radiated Lower Band Edge Measurement

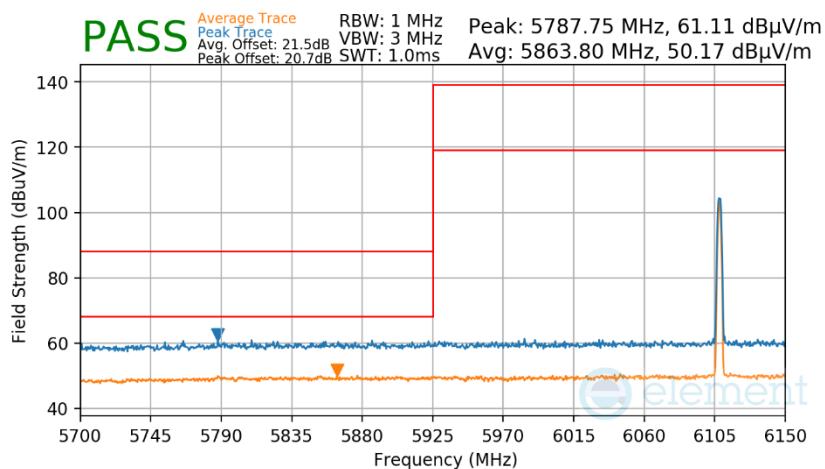
FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 81 of 101

Mode: NB UNII HDR8
 Measurement Distance: 3 Meters
 Operating Frequency: 6108MHz



Plot 7-91. Radiated Lower Band Edge Measurement

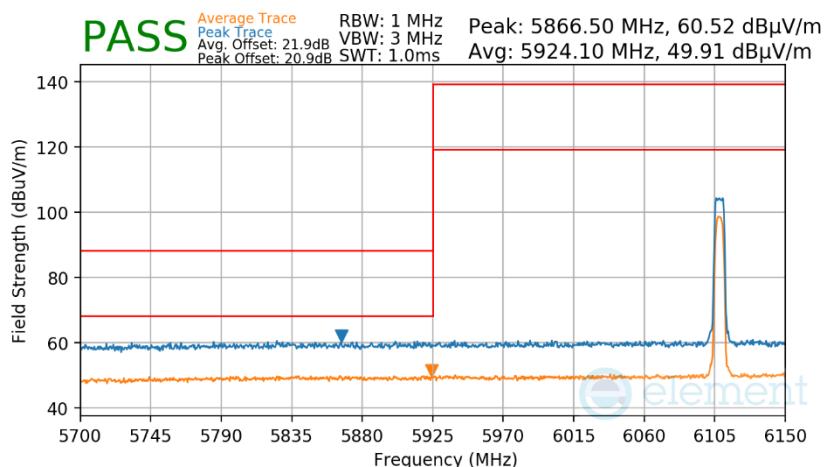
Mode: NB UNII HDRp4
 Measurement Distance: 3 Meters
 Operating Frequency: 6108MHz



Plot 7-92. Radiated Lower Band Edge Measurement

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 82 of 101

Mode: NB UNII HDRp8
 Measurement Distance: 3 Meters
 Operating Frequency: 6108MHz



Plot 7-93. Radiated Lower Band Edge Measurement

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 83 of 101

7.9 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

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 7-23 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ 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 7-23. Radiated Limits

Test Procedures Used

ANSI C63.10-2020

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 = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 84 of 101 V 10.6 10/27/2023

Test Setup

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

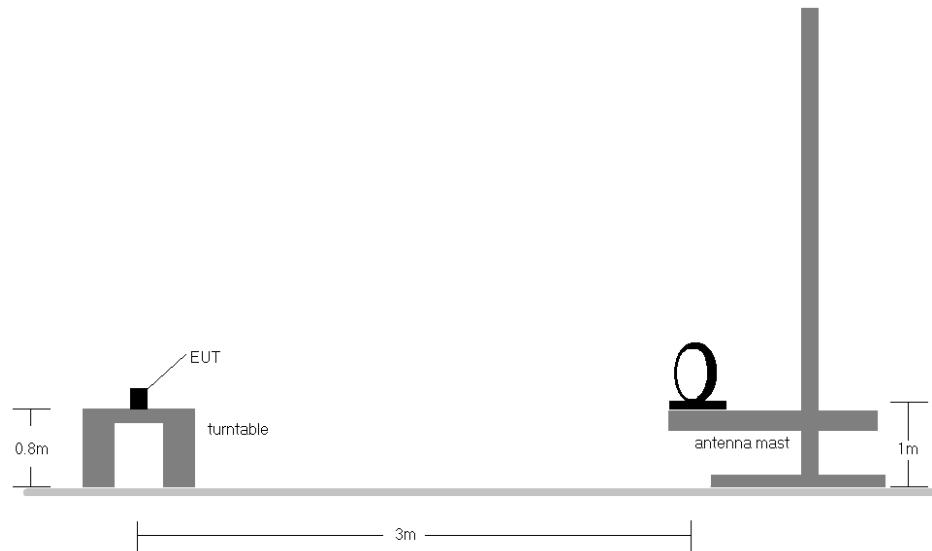


Figure 7-9. Radiated Test Setup < 30MHz

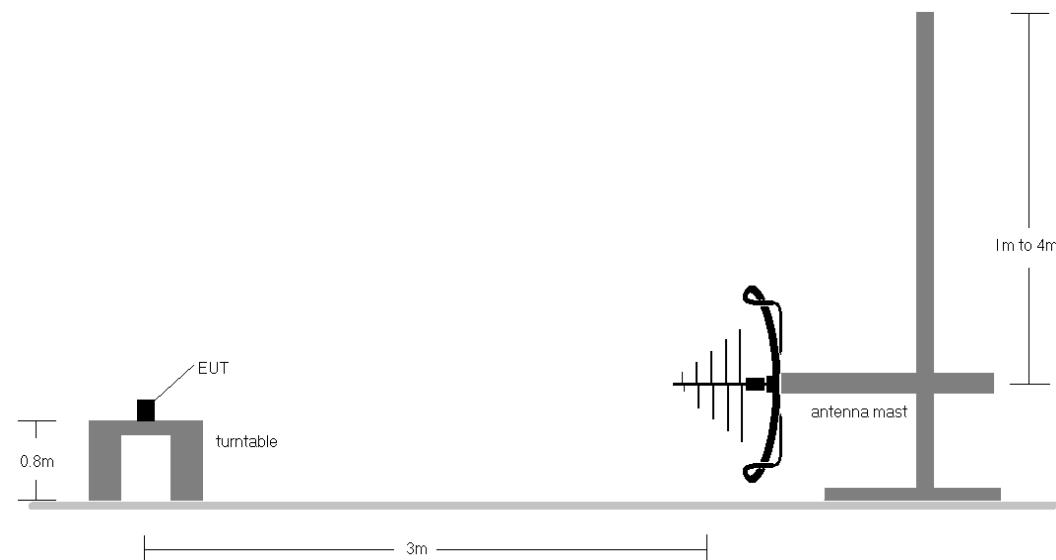


Figure 7-10. Radiated Test Setup < 1GHz

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 85 of 101 V 10.6 10/27/2023

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-23.
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 for emissions 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 charged by charging case and powered by AC/DC adaptor with USB-C cable.
 - b. EUT charged by charging case and powered by host PC with USB-C cable.

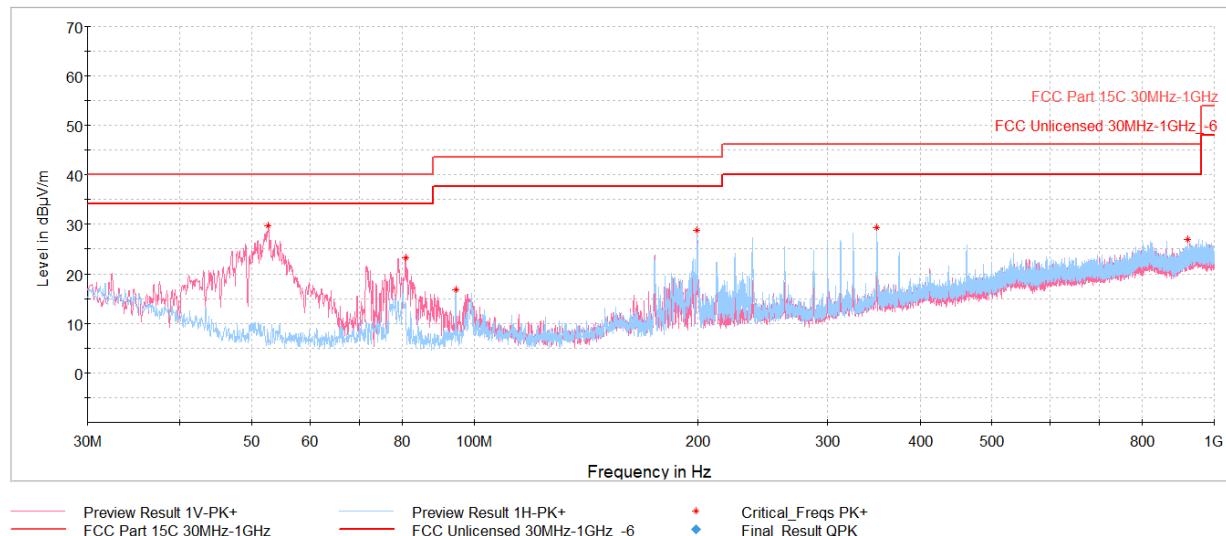
Sample Calculations

Determining Spurious Emissions Levels

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

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 86 of 101 V 10.6 10/27/2023

Radiated Spurious Emissions (Below 1GHz)

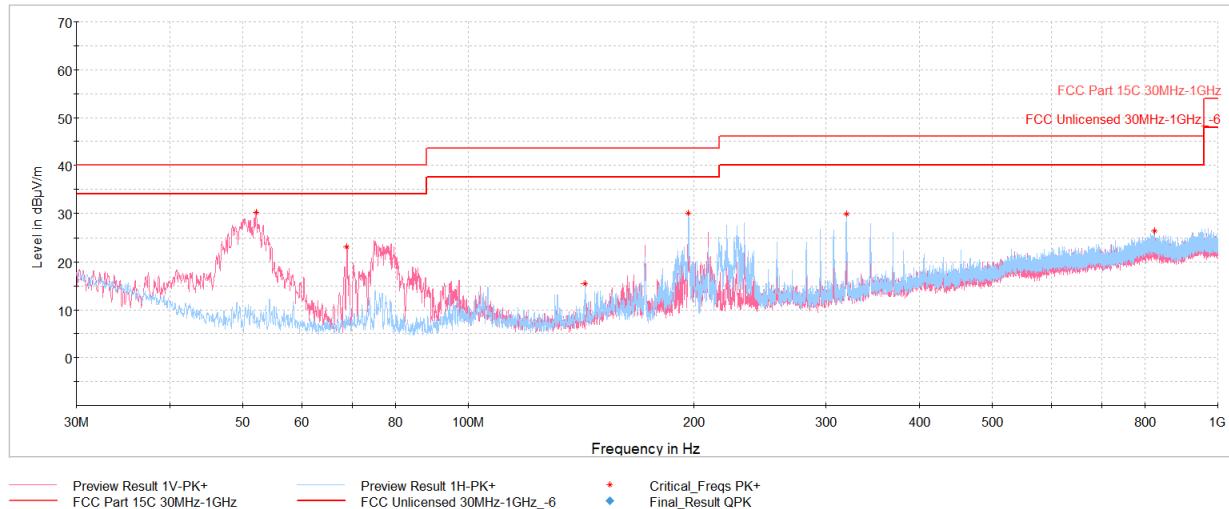


Plot 7-94. Radiated Spurious Emissions Below 1GHz (NB UNII BDR – 6420MHz), with AC/DC Adapter and USB-C Cable

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]
52.65	Max Peak	V	100	350	-54.80	-22.60	29.60	40.00	-10.40
80.78	Max Peak	V	100	280	-60.72	-22.97	23.31	40.00	-16.69
94.46	Max Peak	H	300	253	-68.23	-21.96	16.81	43.52	-26.71
199.85	Max Peak	H	100	225	-60.41	-17.89	28.70	43.52	-14.82
349.71	Max Peak	H	100	265	-64.96	-12.75	29.29	46.02	-16.73
919.88	Max Peak	H	300	51	-76.33	-3.76	26.91	46.02	-19.11

Table 7-24. Radiated Spurious Emissions Below 1GHz (NB UNII BDR – 6420MHz), with AC/DC Adapter and USB-C Cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud			Page 87 of 101

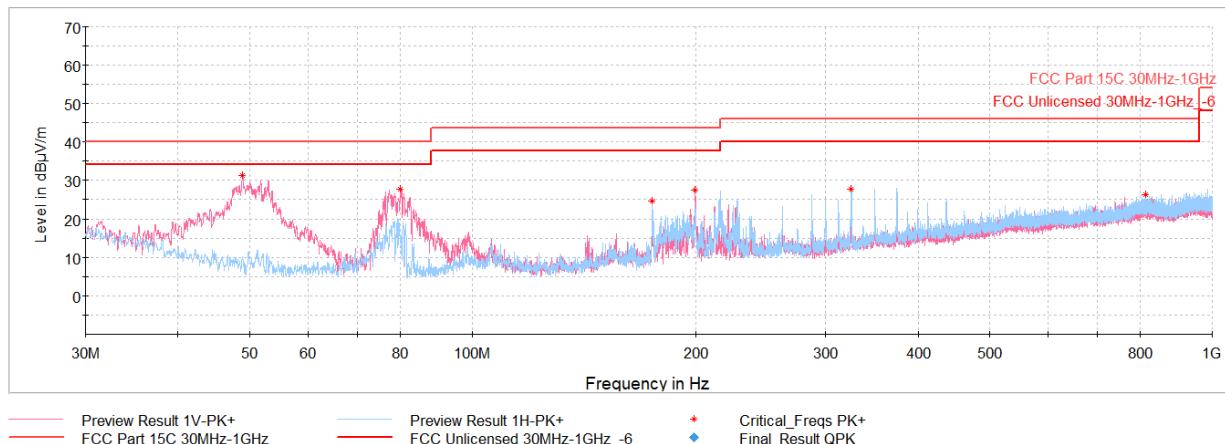


Plot 7-95. Radiated Spurious Emissions Below 1GHz (NB UNII LE1M – 6420MHz), with AC/DC Adapter and USB-C Cable

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]
52.12	Max Peak	V	100	246	-54.08	-22.76	30.16	40.00	-9.84
68.95	Max Peak	V	200	359	-61.01	-22.82	23.17	40.00	-16.83
142.91	Max Peak	H	100	6	-71.11	-20.50	15.39	43.52	-28.13
196.45	Max Peak	H	100	225	-58.76	-18.21	30.03	43.52	-13.49
319.21	Max Peak	H	100	283	-62.63	-14.50	29.87	46.02	-16.15
822.64	Max Peak	H	300	94	-77.21	-3.39	26.40	46.02	-19.62

Table 7-25. Radiated Spurious Emissions Below 1GHz (NB UNII LE1M – 6420MHz), with AC/DC Adapter and USB-C Cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 88 of 101

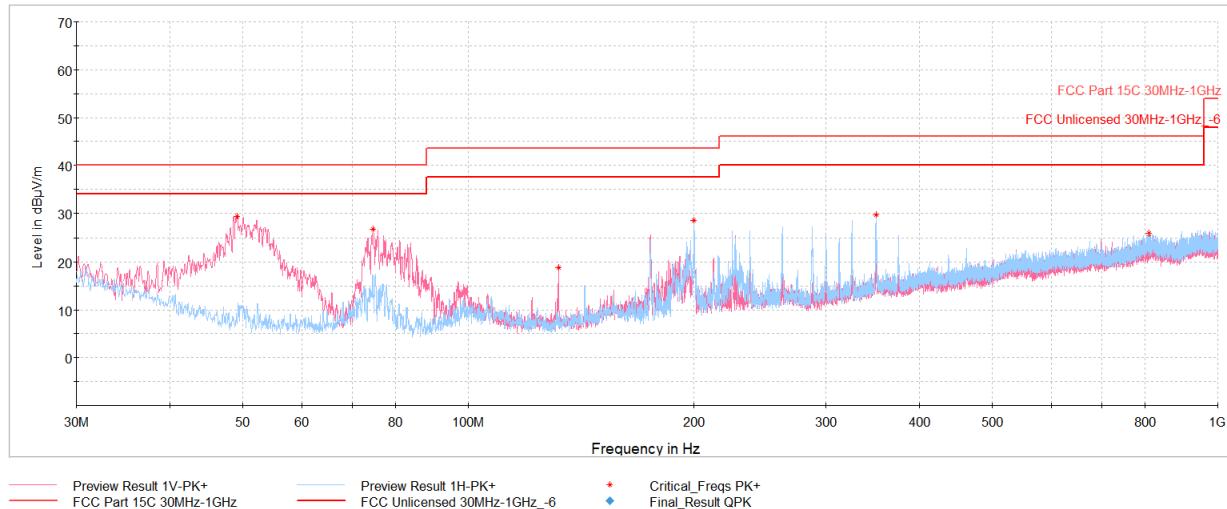


Plot 7-96. Radiated Spurious Emissions Below 1GHz (NB UNII HDR4 – 6420MHz), with AC/DC Adapter and USB-C Cable

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]
48.92	Max Peak	V	100	278	-52.46	-23.33	31.21	40.00	-8.79
80.05	Max Peak	V	100	284	-56.28	-23.01	27.71	40.00	-12.29
174.72	Max Peak	H	200	219	-63.33	-19.15	24.52	43.52	-19.00
199.85	Max Peak	V	100	21	-61.83	-17.80	27.37	43.52	-16.15
324.49	Max Peak	H	100	226	-64.91	-14.42	27.67	46.02	-18.35
811.82	Max Peak	H	100	257	-77.45	-3.31	26.24	46.02	-19.78

Table 7-26. Radiated Spurious Emissions Below 1GHz (NB UNII HDR4 – 6420MHz), with AC/DC Adapter and USB-C Cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 89 of 101



Plot 7-97. Radiated Spurious Emissions Below 1GHz (NB UNII HDRp4 – 6420MHz), with AC/DC Adapter and 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]
49.16	Max Peak	V	100	26	-54.35	-23.33	29.32	40.00	-10.68
74.72	Max Peak	V	100	306	-57.15	-23.20	26.65	40.00	-13.35
132.09	Max Peak	V	100	1	-67.03	-21.10	18.87	43.52	-24.65
199.85	Max Peak	H	100	187	-60.58	-17.89	28.53	43.52	-14.99
349.62	Max Peak	H	100	244	-64.59	-12.75	29.66	46.02	-16.36
809.01	Max Peak	H	200	121	-77.76	-3.36	25.88	46.02	-20.14

Table 7-27. Radiated Spurious Emissions Below 1GHz (NB UNII HDRp4 – 6420MHz), with AC/DC Adapter and USB-C Cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud			Page 90 of 101

7.10 AC Line Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

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. All data rates and modes were investigated for AC Line conducted spurious emissions.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

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 7-28. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, 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: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Setup

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

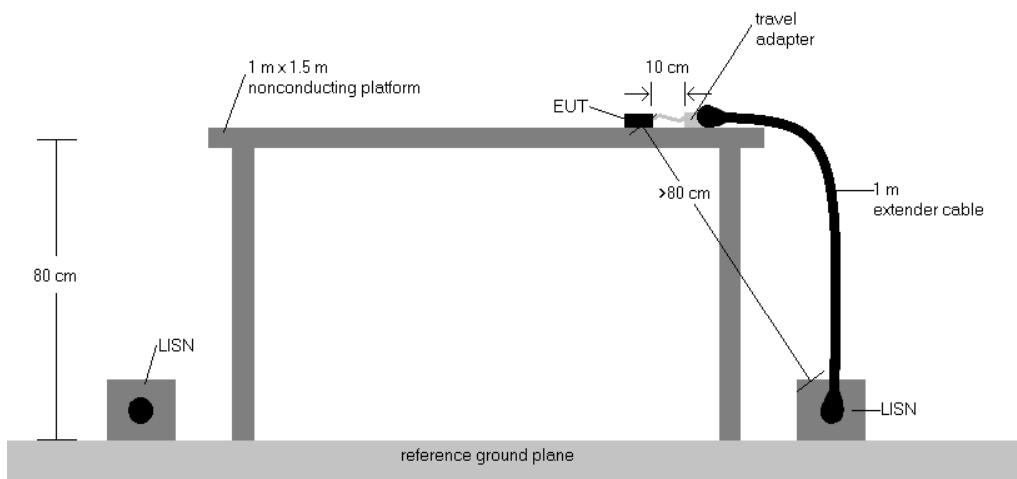
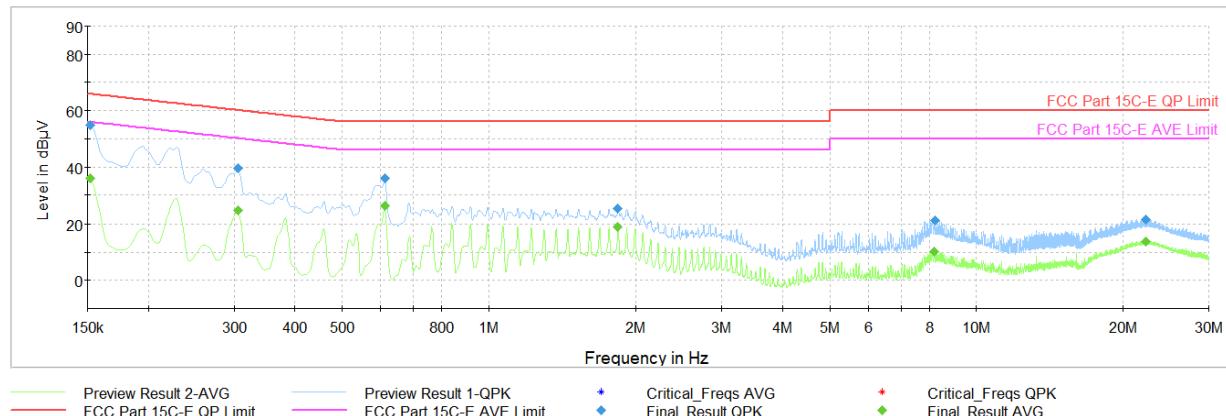


Figure 7-11. Test Instrument & Measurement Setup

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 charged by charging case and powered by AC/DC adaptor with USB-C cable.
 - b. EUT charged by charging case and powered by host PC with USB-C cable.
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
6. Margin (dB) = QP/AV Level (dB μ V) - QP/AV Limit (dB μ V)
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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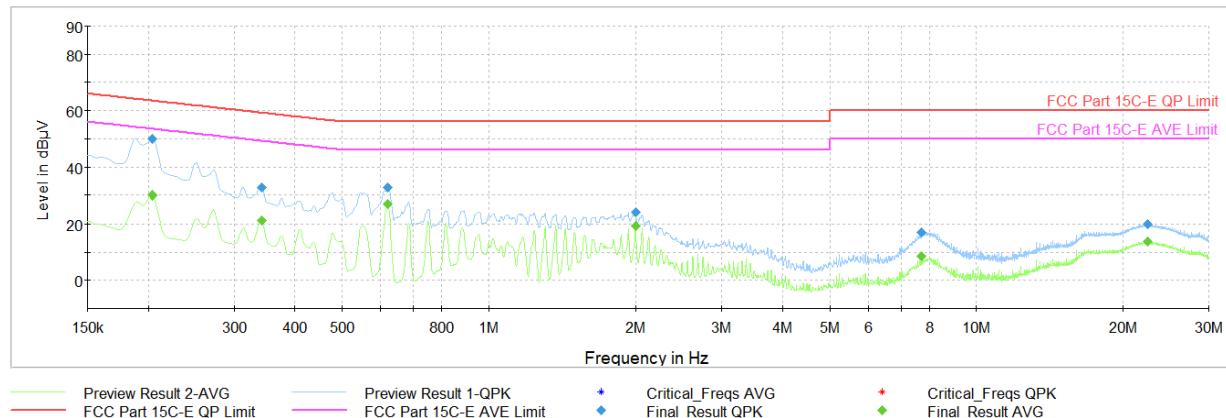


Plot 7-98. AC Line Conducted Plot (NB UNII BDR – 6420MHz) (L1) with host PC with USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.152	FINAL	—	36.02	55.88	-19.85	L1	GND
0.152	FINAL	54.7	—	65.88	-11.14	L1	GND
0.305	FINAL	—	25.01	50.10	-25.09	L1	GND
0.305	FINAL	39.5	—	60.10	-20.59	L1	GND
0.611	FINAL	—	26.48	46.00	-19.52	L1	GND
0.611	FINAL	35.8	—	56.00	-20.17	L1	GND
1.833	FINAL	25.7	—	56.00	-30.34	L1	GND
1.835	FINAL	—	18.93	46.00	-27.07	L1	GND
8.203	FINAL	—	10.06	50.00	-39.94	L1	GND
8.210	FINAL	21.4	—	60.00	-38.60	L1	GND
22.322	FINAL	—	13.93	50.00	-36.07	L1	GND
22.322	FINAL	21.5	—	60.00	-38.48	L1	GND

Table 7-29. AC Line Conducted Data (NB UNII BDR – 6420MHz) (L1) with host PC with USB-C cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 93 of 101

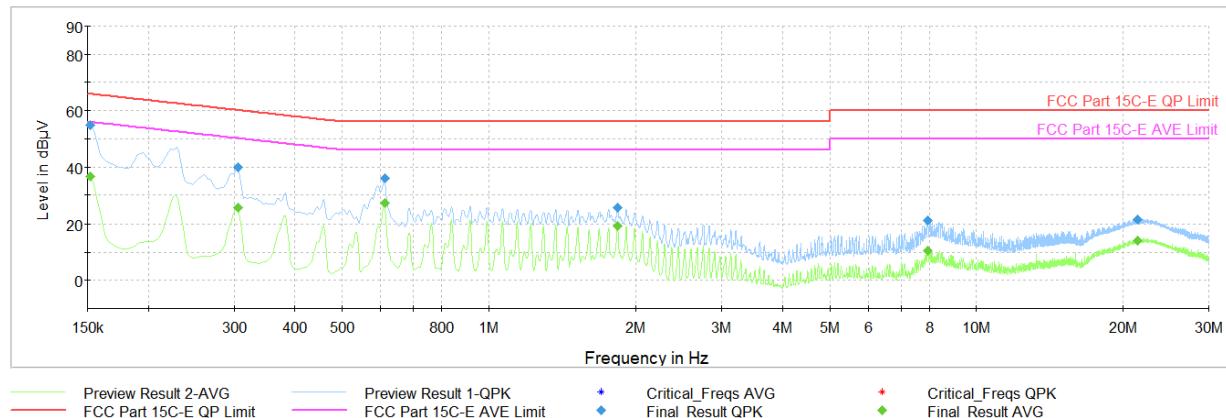


Plot 7-99. AC Line Conducted Plot (NB UNII BDR – 6420MHz) (N) with host PC with USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.204	FINAL	—	30.08	53.45	-23.36	N	GND
0.204	FINAL	49.9	—	63.45	-13.57	N	GND
0.341	FINAL	—	21.38	49.17	-27.79	N	GND
0.341	FINAL	32.8	—	59.17	-26.42	N	GND
0.620	FINAL	—	27.01	46.00	-18.99	N	GND
0.620	FINAL	32.8	—	56.00	-23.23	N	GND
1.993	FINAL	24.4	—	56.00	-31.64	N	GND
1.993	FINAL	—	19.33	46.00	-26.67	N	GND
7.712	FINAL	17.1	—	60.00	-42.90	N	GND
7.712	FINAL	—	8.63	50.00	-41.37	N	GND
22.515	FINAL	—	13.78	50.00	-36.22	N	GND
22.515	FINAL	20.0	—	60.00	-40.04	N	GND

Table 7-30. AC Line Conducted Data (NB UNII BDR – 6420MHz) (N) with host PC with USB-C cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 94 of 101

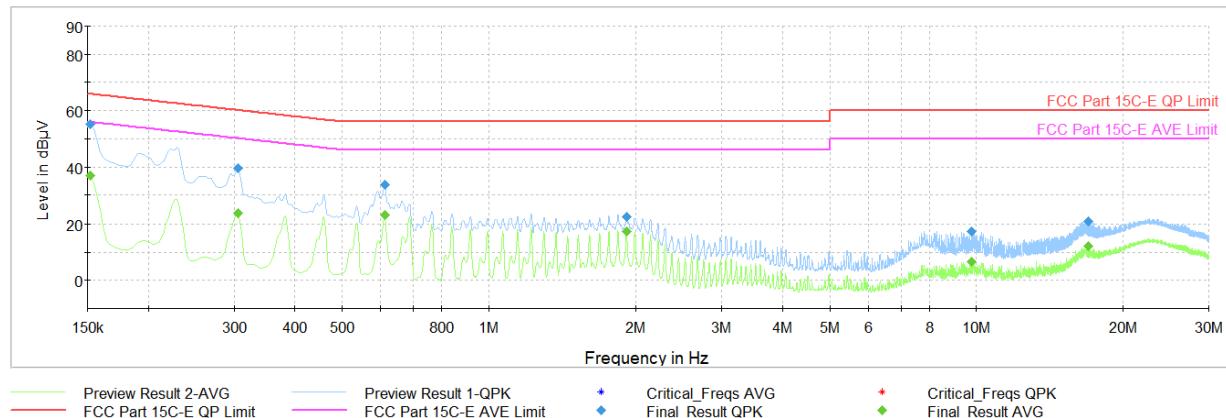


Plot 7-100. AC Line Conducted Plot (NB UNII LE1M – 6420MHz) (L1) with host PC and USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.152	FINAL	—	36.60	55.88	-19.27	L1	GND
0.152	FINAL	54.8	—	65.88	-11.04	L1	GND
0.305	FINAL	—	25.79	50.10	-24.30	L1	GND
0.305	FINAL	39.7	—	60.10	-20.39	L1	GND
0.611	FINAL	—	27.48	46.00	-18.52	L1	GND
0.611	FINAL	35.9	—	56.00	-20.14	L1	GND
1.831	FINAL	25.7	—	56.00	-30.32	L1	GND
1.831	FINAL	—	19.39	46.00	-26.61	L1	GND
7.926	FINAL	21.2	—	60.00	-38.81	L1	GND
7.937	FINAL	—	10.67	50.00	-39.33	L1	GND
21.406	FINAL	21.5	—	60.00	-38.53	L1	GND
21.413	FINAL	—	14.25	50.00	-35.75	L1	GND

Table 7-31. AC Line Conducted Data (NB UNII LE1M – 6420MHz) (L1) with host PC and USB-C Cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 95 of 101

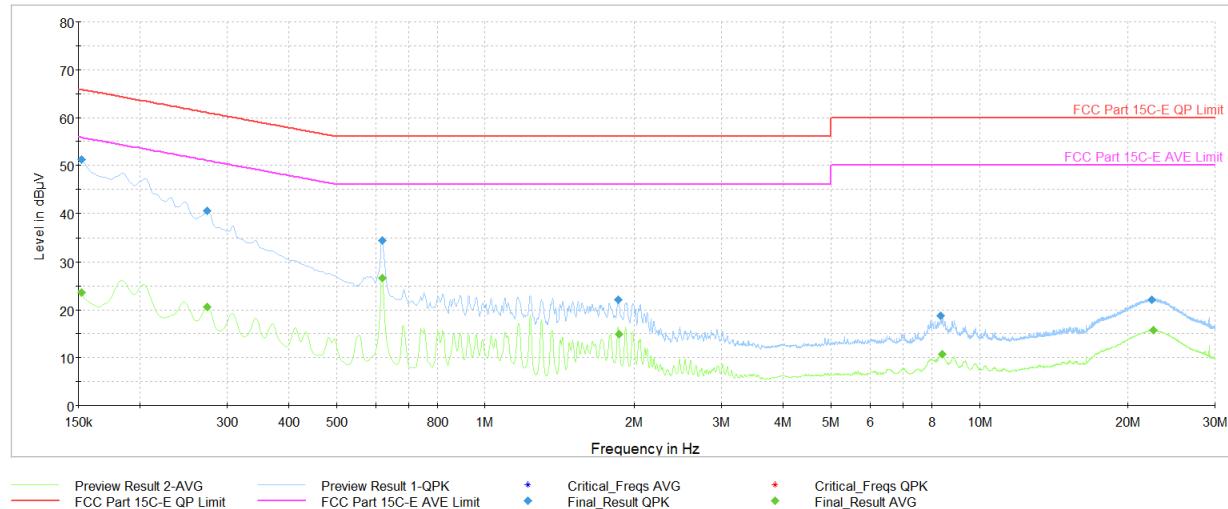


Plot 7-101. AC Line Conducted Data (NB UNII LE1M – 6420MHz) (N) with host PC and USB-C Cable

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.152	FINAL	—	36.91	55.88	-18.97	N	GND
0.152	FINAL	55.0	—	65.88	-10.84	N	GND
0.305	FINAL	—	23.87	50.10	-26.23	N	GND
0.305	FINAL	39.5	—	60.10	-20.59	N	GND
0.611	FINAL	—	23.34	46.00	-22.66	N	GND
0.611	FINAL	33.7	—	56.00	-22.27	N	GND
1.910	FINAL	22.7	—	56.00	-33.27	N	GND
1.912	FINAL	—	17.45	46.00	-28.55	N	GND
9.773	FINAL	17.4	—	60.00	-42.61	N	GND
9.778	FINAL	—	6.77	50.00	-43.23	N	GND
16.944	FINAL	—	12.24	50.00	-37.76	N	GND
16.944	FINAL	21.1	—	60.00	-38.90	N	GND

Table 7-32. AC Line Conducted Data (NB UNII LE1M – 6420MHz) (N) with host PC and USB-C Cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 96 of 101

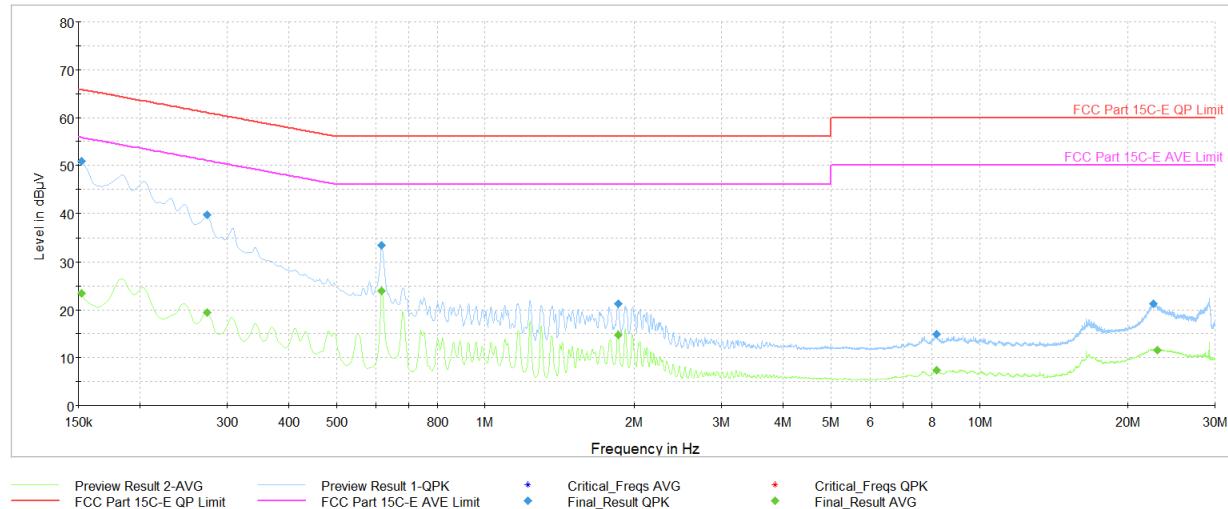


Plot 7-102. AC Line Conducted Plot (NB UNII HDR4 – 6420MHz) (L1) with host PC with USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.152	FINAL	—	23.64	55.88	-32.24	L1	GND
0.152	FINAL	51.2	—	65.88	-14.70	L1	GND
0.274	FINAL	—	20.67	51.00	-30.34	L1	GND
0.274	FINAL	40.6	—	61.00	-20.43	L1	GND
0.620	FINAL	—	26.64	46.00	-19.36	L1	GND
0.620	FINAL	34.4	—	56.00	-21.60	L1	GND
1.853	FINAL	22.2	—	56.00	-33.84	L1	GND
1.860	FINAL	—	14.92	46.00	-31.08	L1	GND
8.349	FINAL	18.7	—	60.00	-41.30	L1	GND
8.408	FINAL	—	10.65	50.00	-39.35	L1	GND
22.324	FINAL	22.1	—	60.00	-37.86	L1	GND
22.517	FINAL	—	15.72	50.00	-34.28	L1	GND

Table 7-33. AC Line Conducted Data (NB UNII HDR4 – 6420MHz) (L1) with host PC with USB-C cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 97 of 101

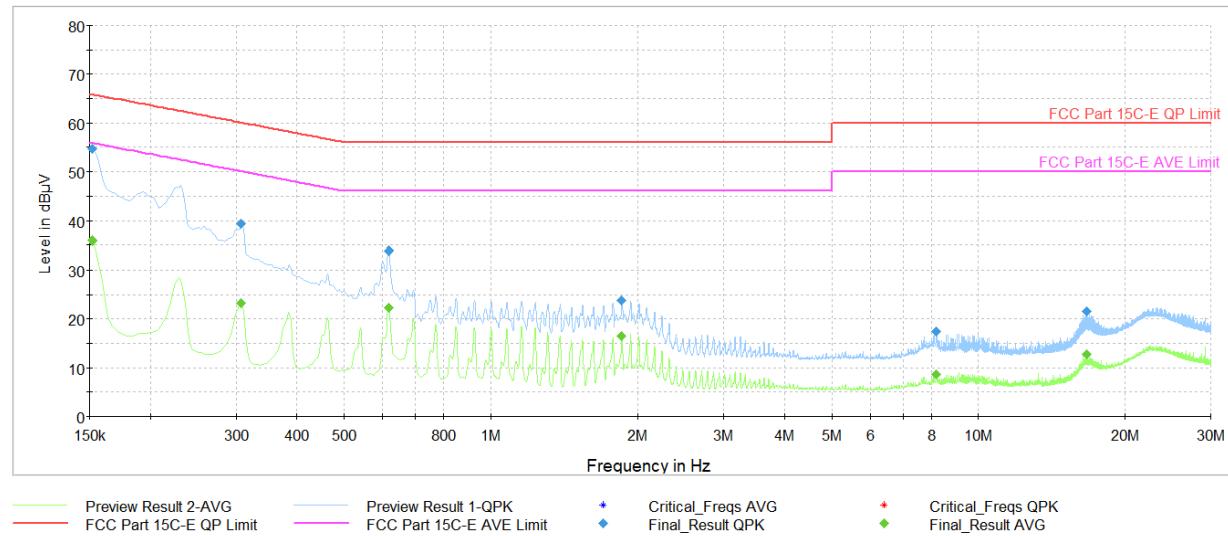


Plot 7-103. AC Line Conducted Plot (NB UNII HDR4 – 6420MHz) (N) with host PC with USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.152	FINAL	—	23.50	55.88	-32.38	N	GND
0.152	FINAL	50.9	—	65.88	-15.00	N	GND
0.274	FINAL	—	19.47	51.00	-31.54	N	GND
0.274	FINAL	39.8	—	61.00	-21.26	N	GND
0.618	FINAL	—	23.97	46.00	-22.03	N	GND
0.618	FINAL	33.4	—	56.00	-22.58	N	GND
1.856	FINAL	21.3	—	56.00	-34.74	N	GND
1.858	FINAL	—	14.67	46.00	-31.33	N	GND
8.174	FINAL	—	7.35	50.00	-42.65	N	GND
8.198	FINAL	14.9	—	60.00	-45.08	N	GND
22.538	FINAL	21.2	—	60.00	-38.78	N	GND
22.922	FINAL	—	11.58	50.00	-38.42	N	GND

Table 7-34. AC Line Conducted Data (NB UNII HDR4 – 6420MHz) (N) with host PC with USB-C cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 98 of 101

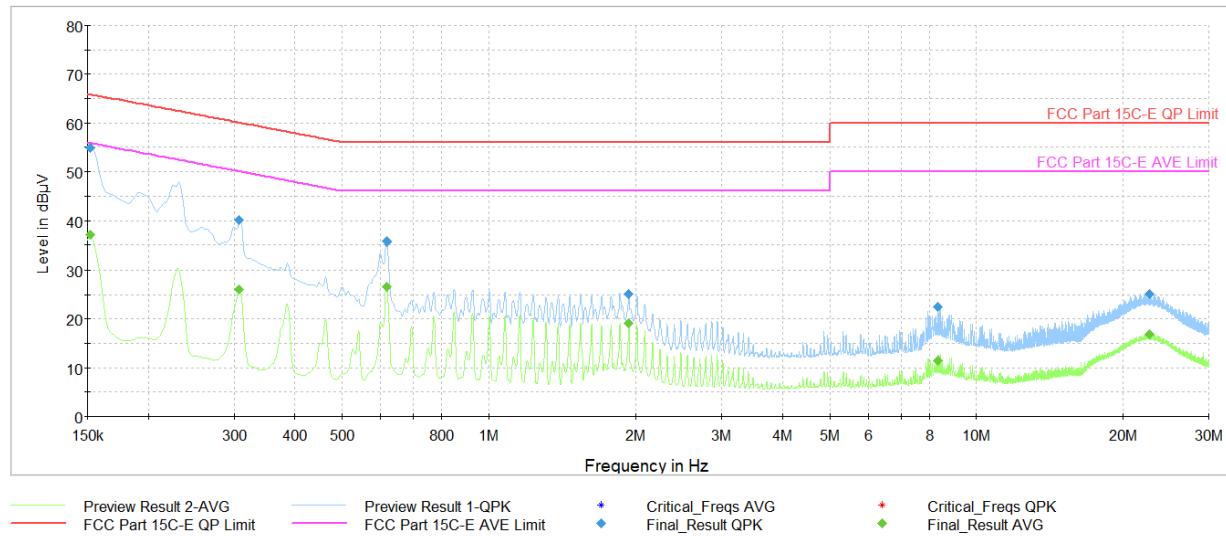


Plot 7-104. AC Line Conducted Plot (NB UNII HDRp4 – 6420MHz) (L1) with host PC with USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.152	FINAL	—	35.89	55.88	-19.99	L1	GND
0.152	FINAL	54.8	—	65.88	-11.12	L1	GND
0.308	FINAL	—	23.30	50.04	-26.74	L1	GND
0.308	FINAL	39.3	—	60.04	-20.70	L1	GND
0.618	FINAL	—	22.36	46.00	-23.64	L1	GND
0.618	FINAL	33.9	—	56.00	-22.09	L1	GND
1.851	FINAL	23.8	—	56.00	-32.21	L1	GND
1.851	FINAL	—	16.56	46.00	-29.44	L1	GND
8.198	FINAL	17.5	—	60.00	-42.48	L1	GND
8.198	FINAL	—	8.53	50.00	-41.47	L1	GND
16.708	FINAL	—	12.81	50.00	-37.19	L1	GND
16.708	FINAL	21.6	—	60.00	-38.40	L1	GND

Table 7-35. AC Line Conducted Data (NB UNII HDRp4 – 6420MHz) (L1) with host PC with USB-C cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-105. AC Line Conducted Plot (NB UNII HDRp4 – 6420MHz) (N) with host PC with USB-C cable

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.152	FINAL	—	37.13	55.88	-18.75	N	GND
0.152	FINAL	55.0	—	65.88	-10.89	N	GND
0.308	FINAL	—	25.96	50.04	-24.07	N	GND
0.308	FINAL	40.1	—	60.04	-19.98	N	GND
0.618	FINAL	—	26.63	46.00	-19.37	N	GND
0.618	FINAL	35.8	—	56.00	-20.20	N	GND
1.930	FINAL	25.0	—	56.00	-30.96	N	GND
1.930	FINAL	—	19.03	46.00	-26.97	N	GND
8.329	FINAL	22.5	—	60.00	-37.53	N	GND
8.329	FINAL	—	11.40	50.00	-38.60	N	GND
22.675	FINAL	—	16.80	50.00	-33.20	N	GND
22.675	FINAL	25.0	—	60.00	-34.98	N	GND

Table 7-36. AC Line Conducted Data (NB UNII HDRp4 – 6420MHz) (N) with host PC with USB-C cable

FCC ID: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)			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 Wireless Left Earbud** **FCC ID: BCG-A3064** and **IC: 579C-A3064** 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: BCG-A3064 IC: 579C-A3064	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2504170044-05-R1.BCG	Test Dates: 5/27/2025 - 7/25/2025	EUT Type: Wireless Left Earbud	Page 101 of 101

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