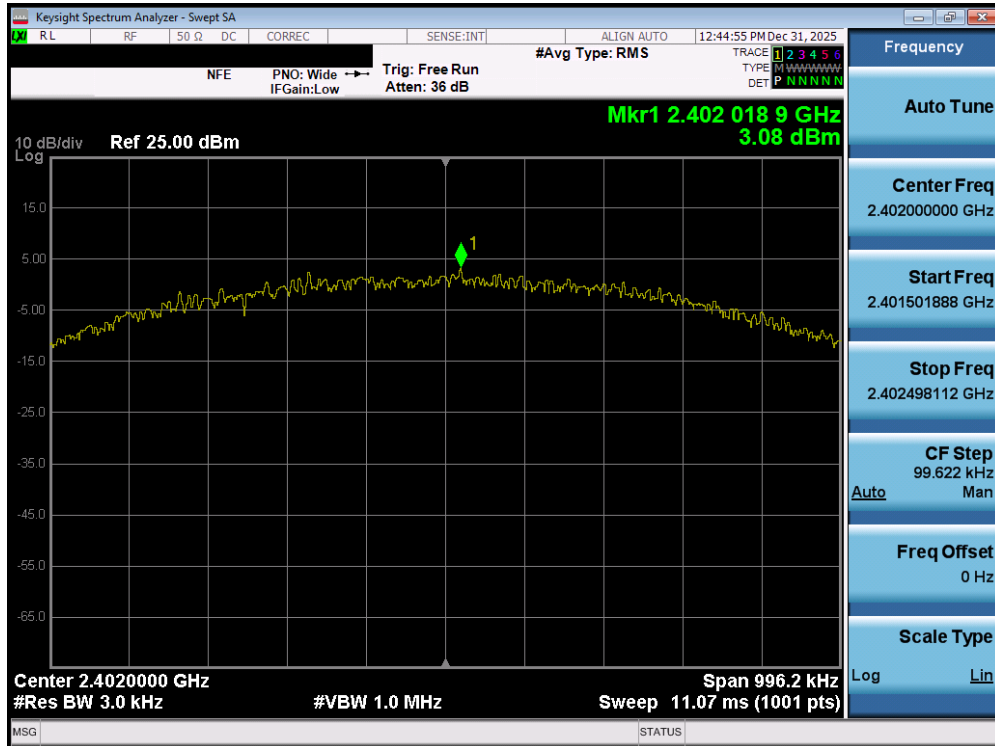
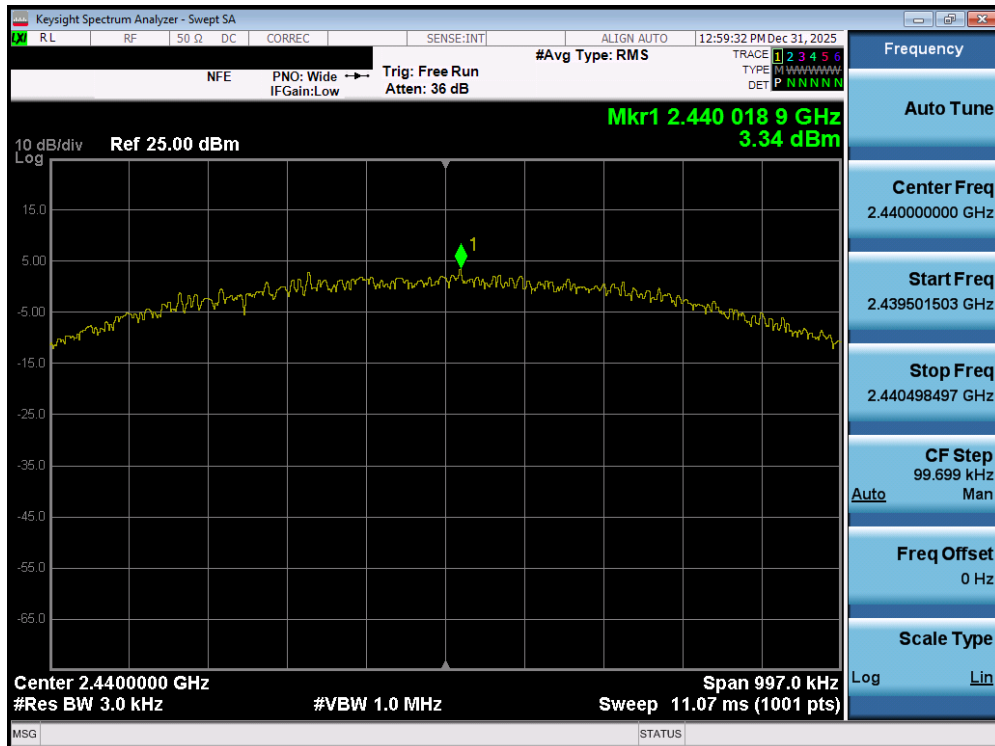


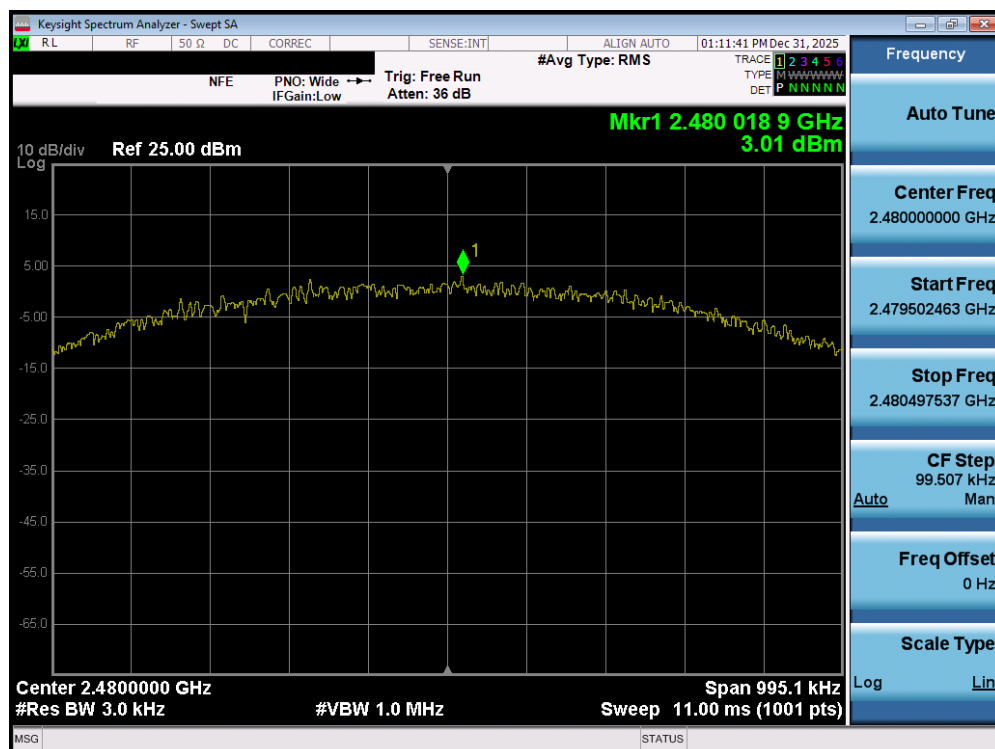


Plot 7-103. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 37) – SISO ANT2

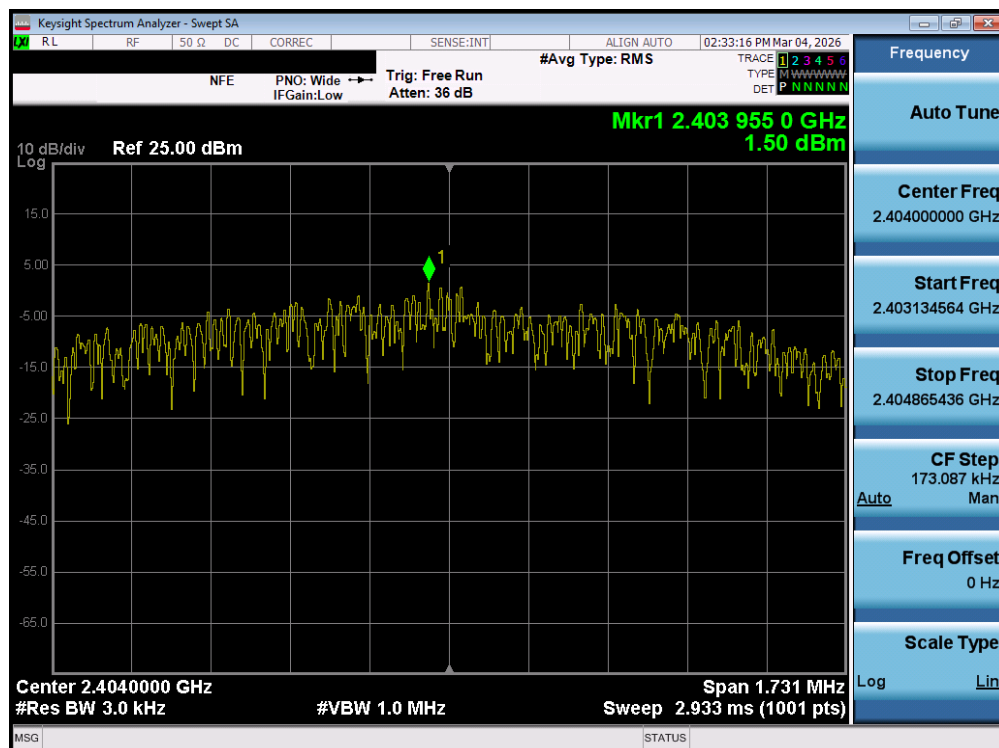


Plot 7-104. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 17) – SISO ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 79 of 137

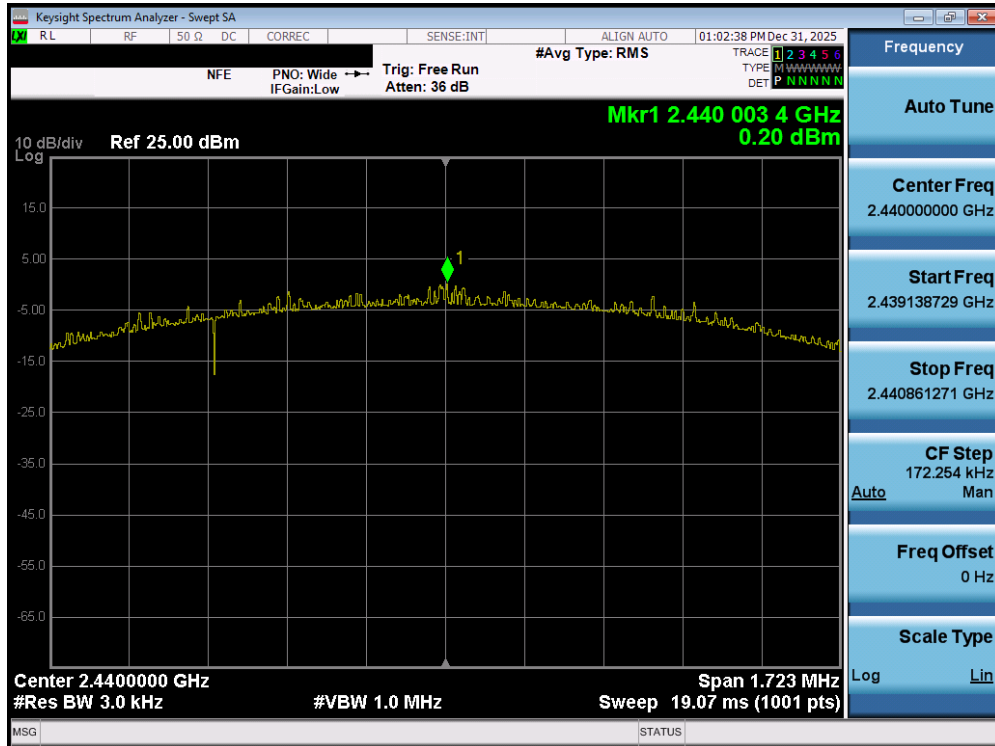


Plot 7-105. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 39) – SISO ANT2

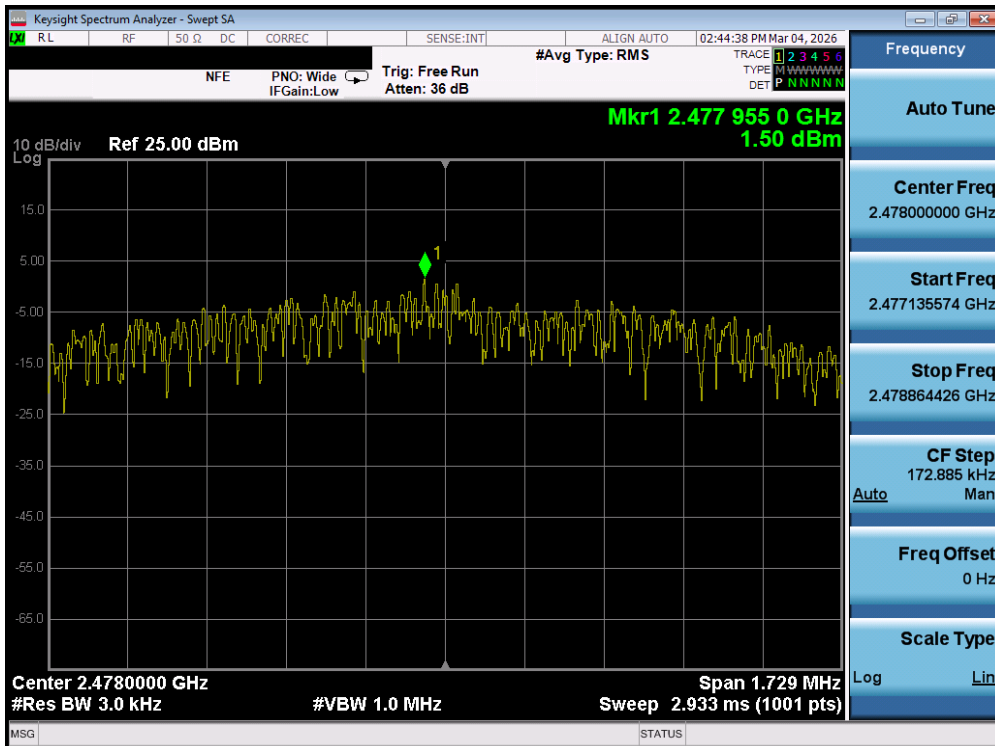


Plot 7-106. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 0) – SISO ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 80 of 137



Plot 7-107. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 17) – SISO ANT2



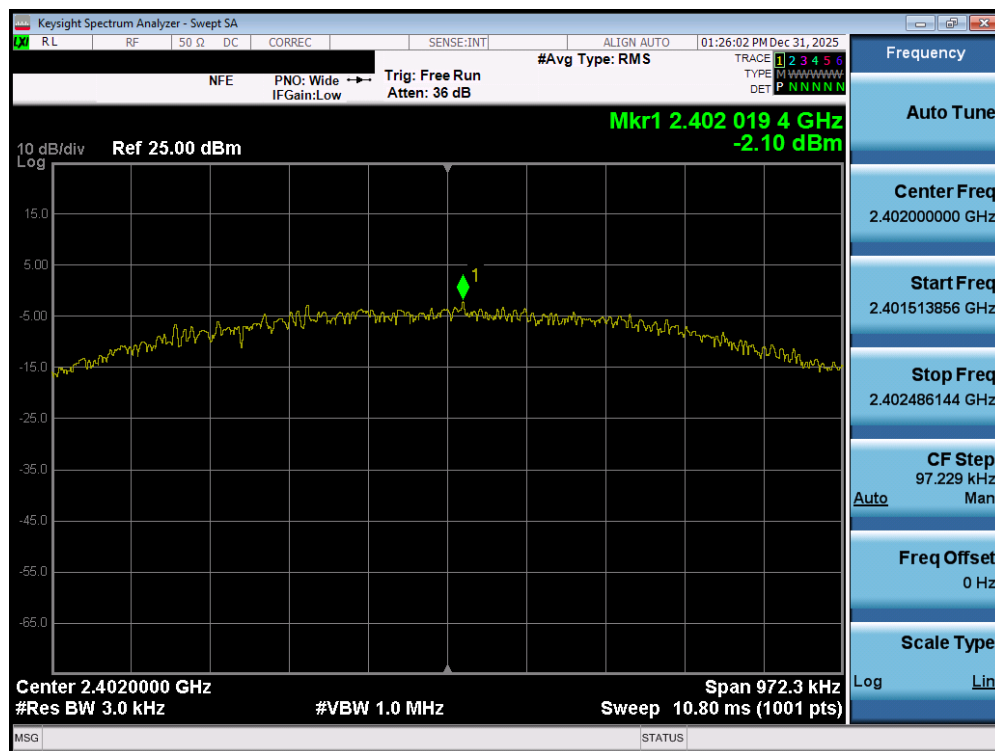
Plot 7-108. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 36) – SISO ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 81 of 137

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	ANT 1 Measured Power Spectral Density [dBm / 3kHz]	ANT 2 Measured Power Spectral Density [dBm / 3kHz]	Summed MIMO Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]
2402	1 Mbps	37	LE	-2.10	-2.31	0.81	8.0	-7.19
2440	1 Mbps	17	LE	-1.68	-1.90	1.22	8.0	-6.78
2480	1 Mbps	39	LE	-2.01	-2.10	0.96	8.0	-7.04
2404	2 Mbps	0	LE	-3.62	-3.56	-0.58	8.0	-8.58
2440	2 Mbps	17	LE	-4.93	-5.08	-1.99	8.0	-9.99
2478	2 Mbps	36	LE	-3.81	-3.78	-0.78	8.0	-8.78

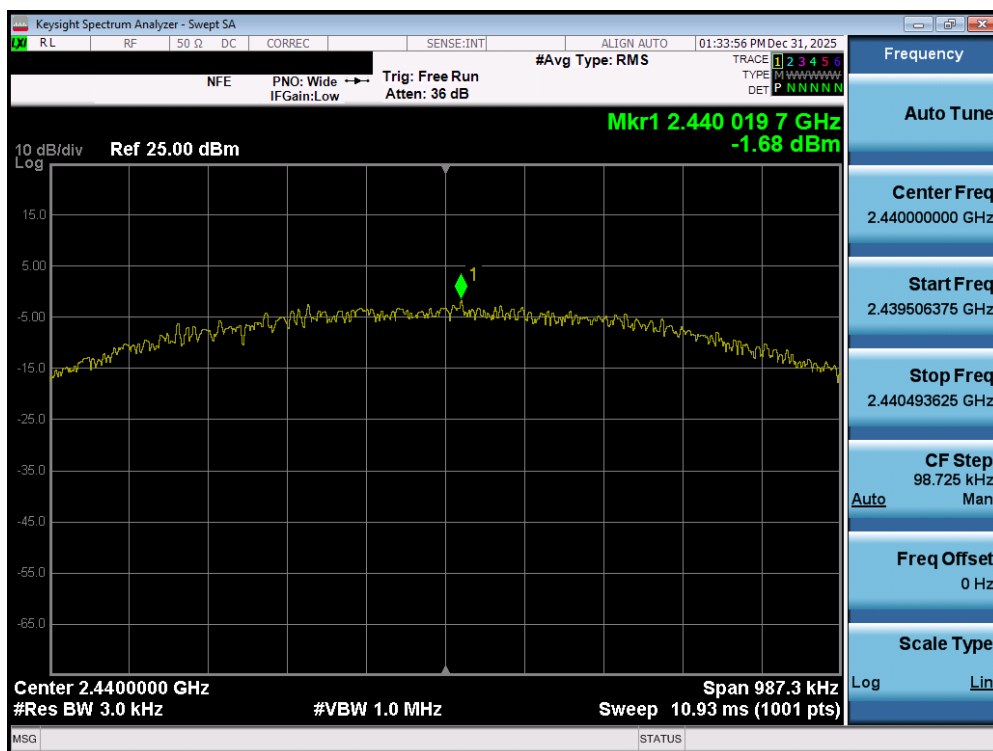
Table 7-12. Conducted Power Density Measurements – DUAL

DUAL ANT1

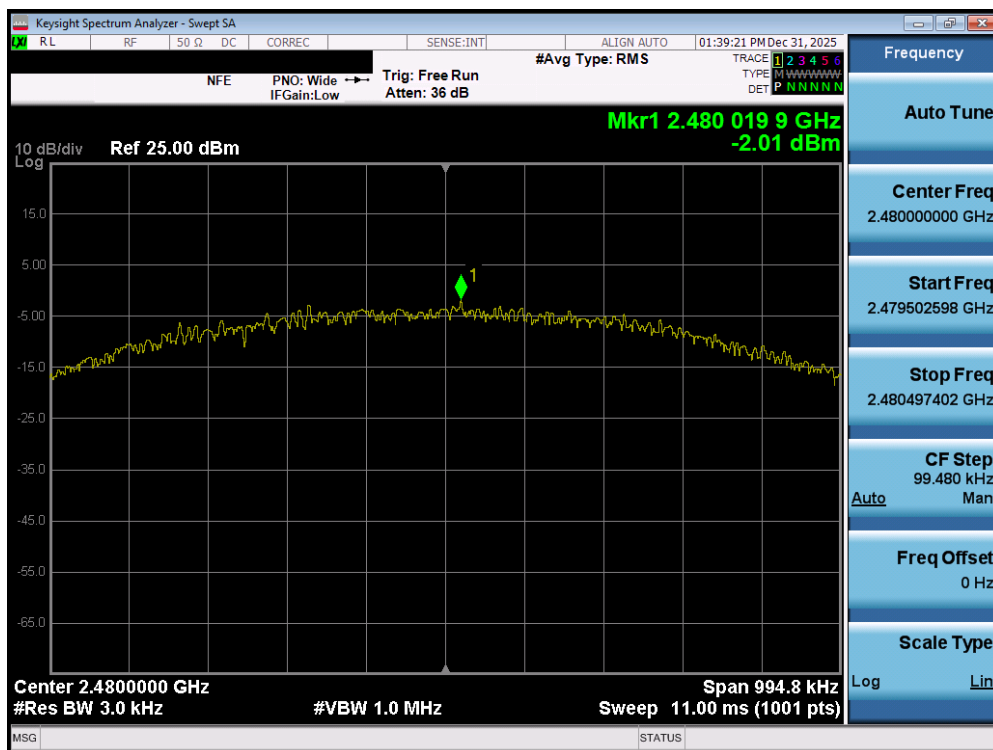


Plot 7-109. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 37) – DUAL ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 82 of 137

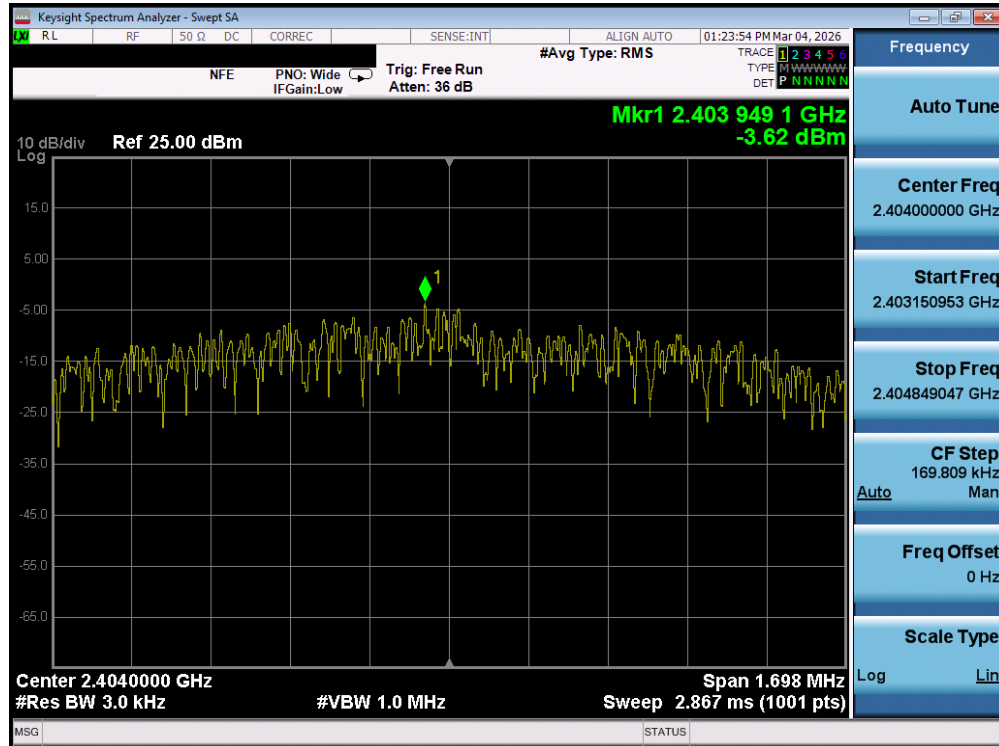


Plot 7-110. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 17) – DUAL ANT1

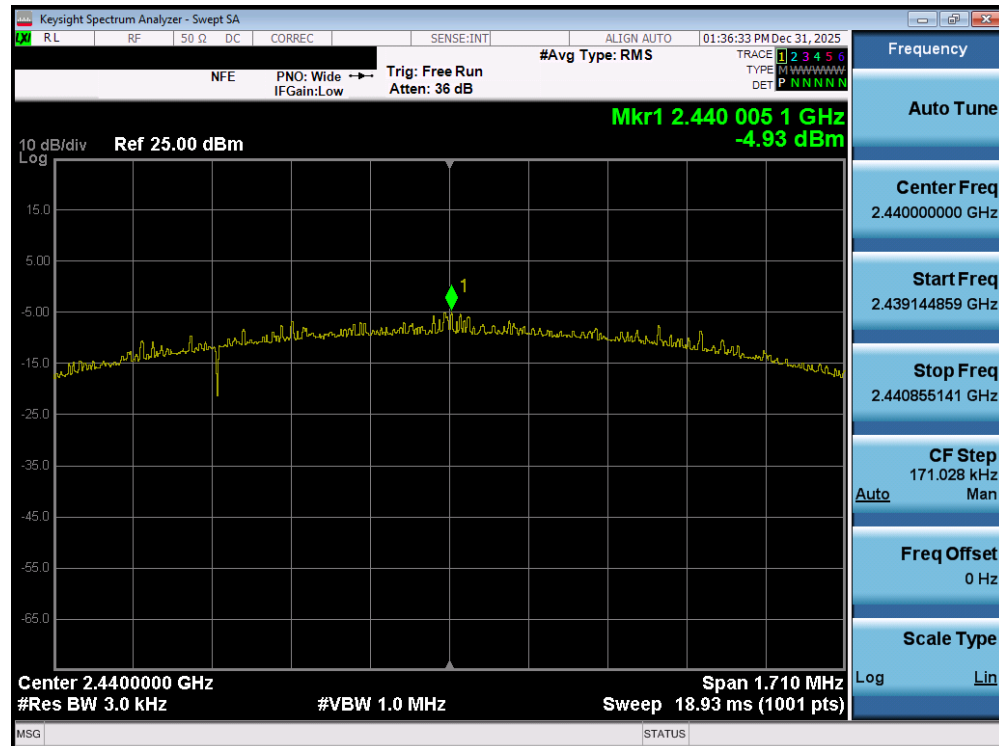


Plot 7-111. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 39) – DUAL ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 83 of 137

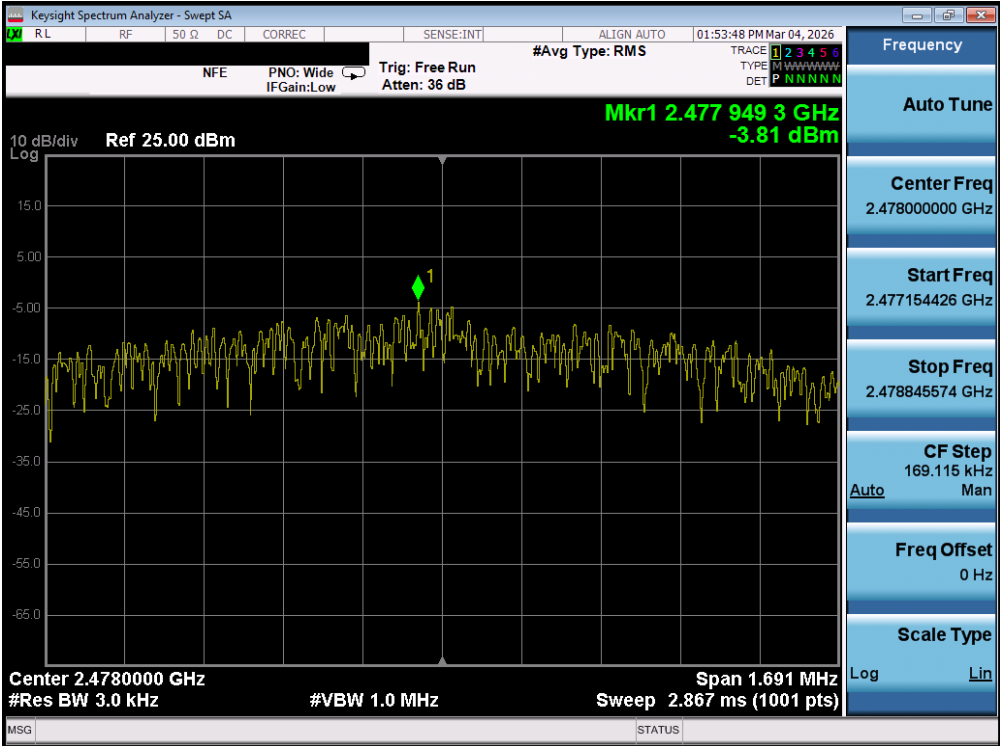


Plot 7-112. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 0) – DUAL ANT1



Plot 7-113. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 17) – DUAL ANT1

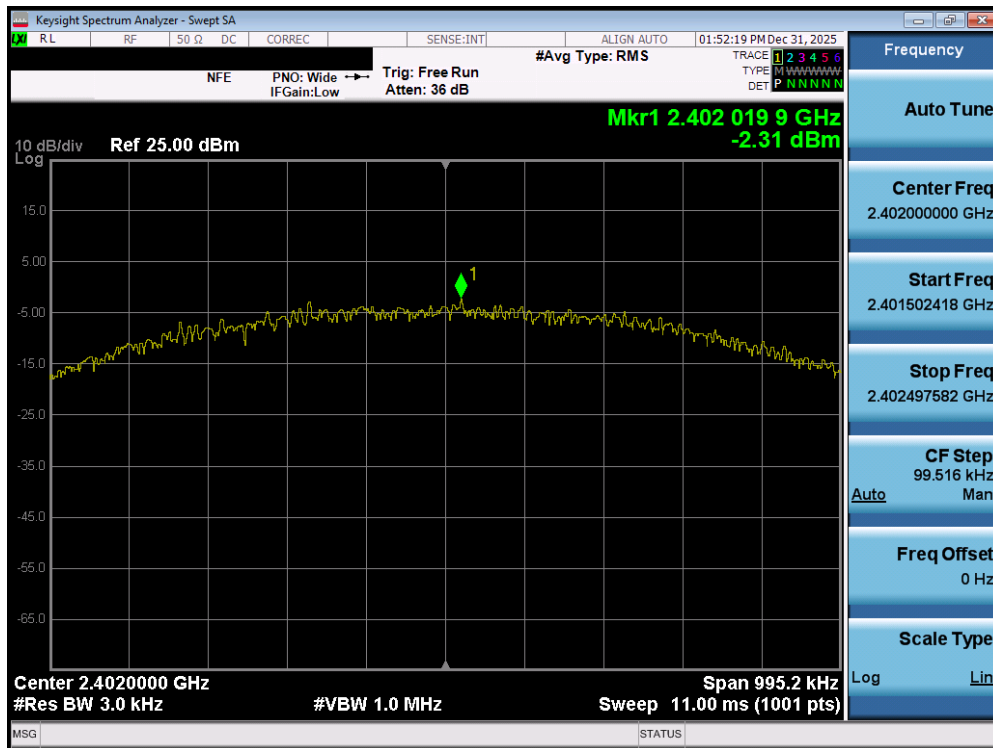
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 84 of 137



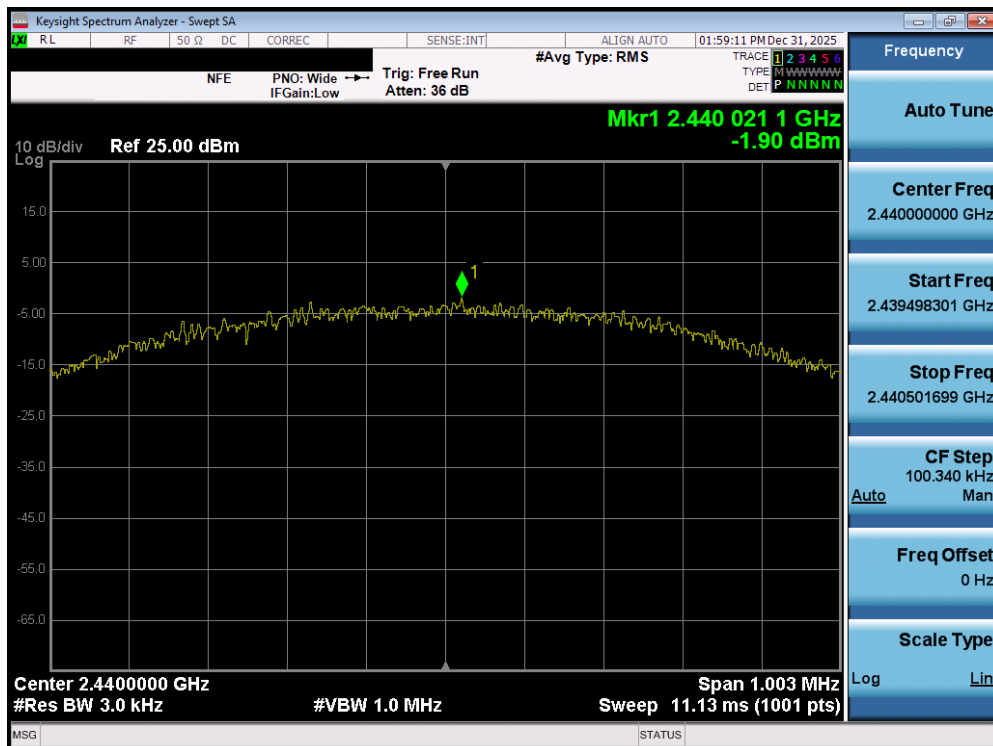
Plot 7-114. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 36) – DUAL ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 85 of 137

DUAL ANT2

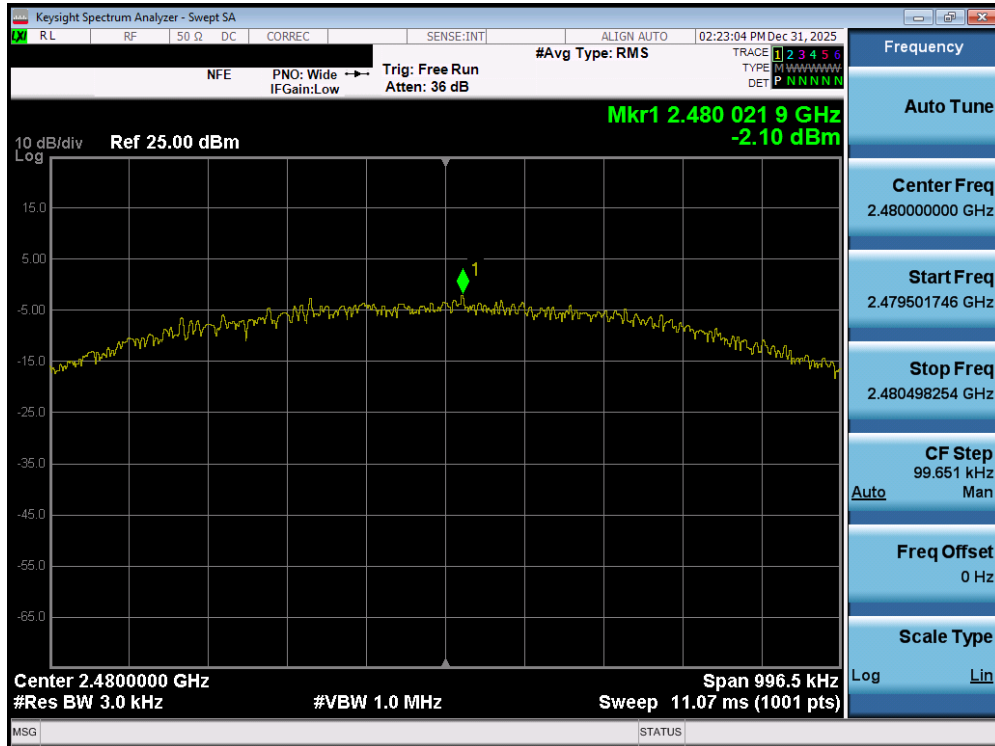


Plot 7-115. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 37) – DUAL ANT2

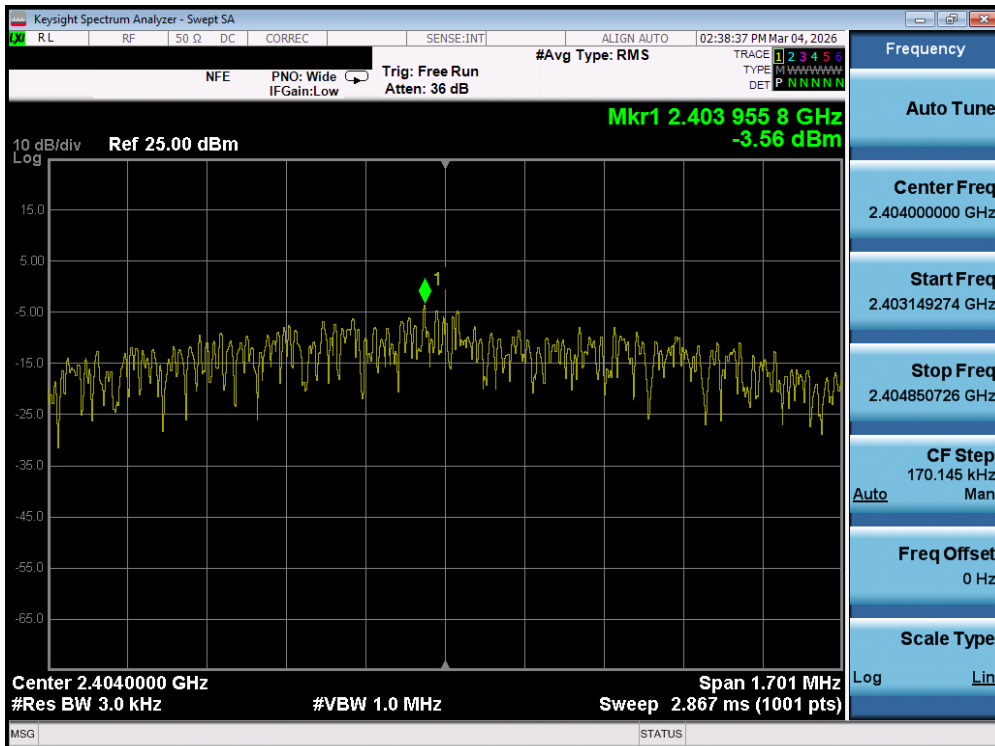


Plot 7-116. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 17) – DUAL ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 86 of 137

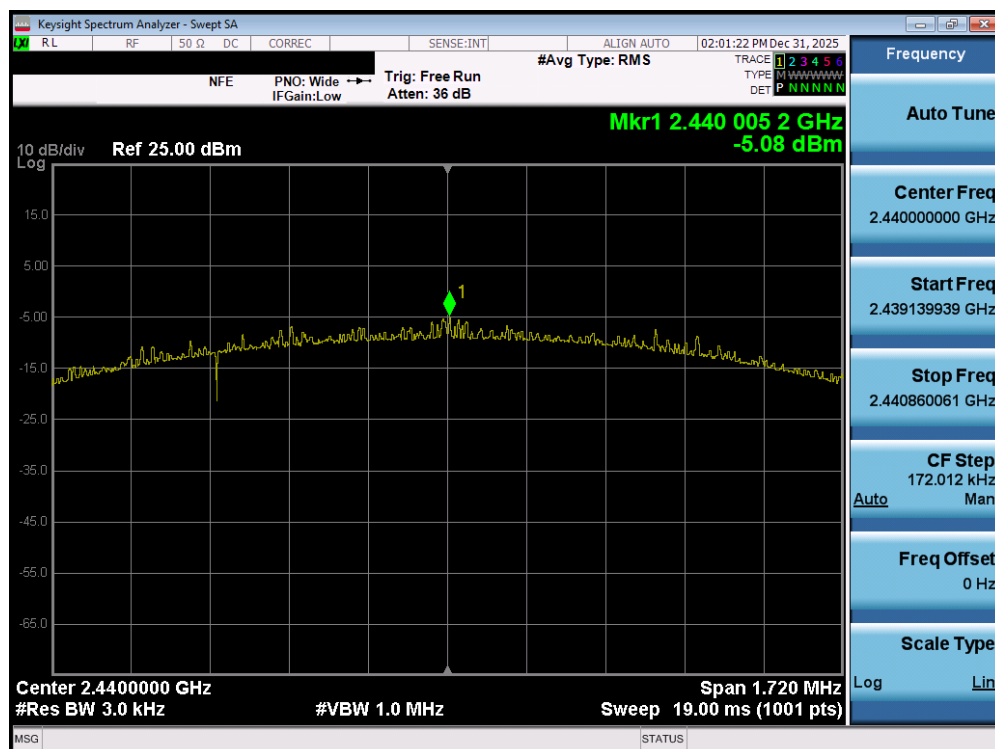


Plot 7-117. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 39) – DUAL ANT2

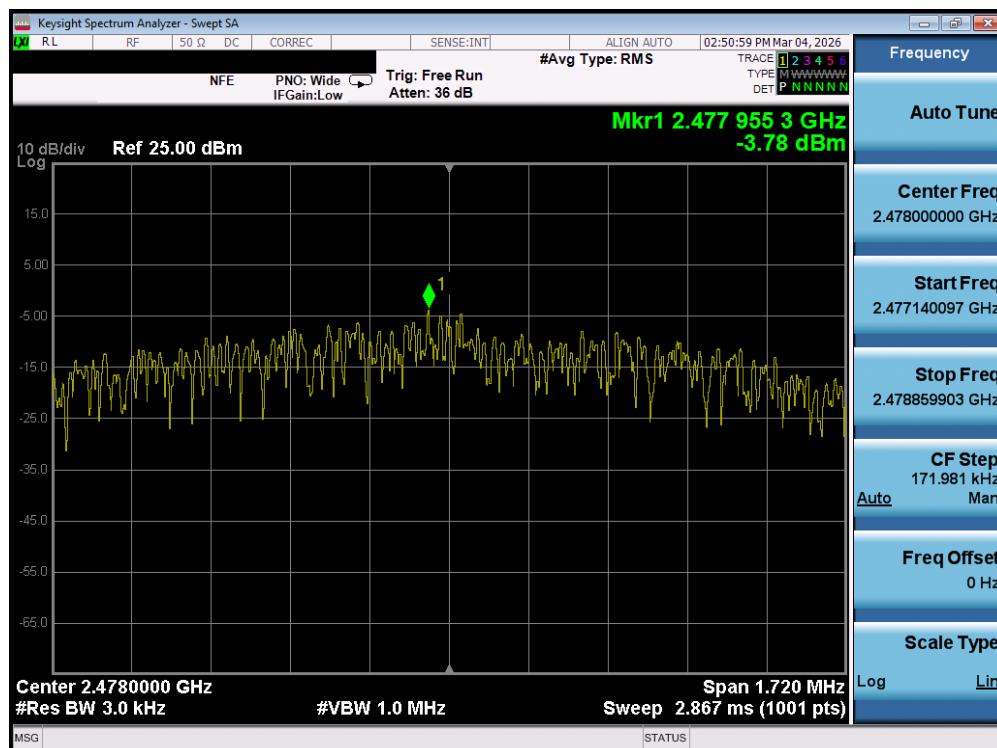


Plot 7-118. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 0) – DUAL ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 87 of 137



Plot 7-119. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 17) – DUAL ANT2



Plot 7-120. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 36) – DUAL ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 88 of 137

7.5 Conducted Emissions at the Band Edge

Test Overview and Limit

For the following out of band conducted spurious emissions plots at the band edge, the EUT was set to transmit at maximum power with the largest packet size available. These settings 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.

Test Procedure Used

ANSI C63.10-2020 – Section 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 300kHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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



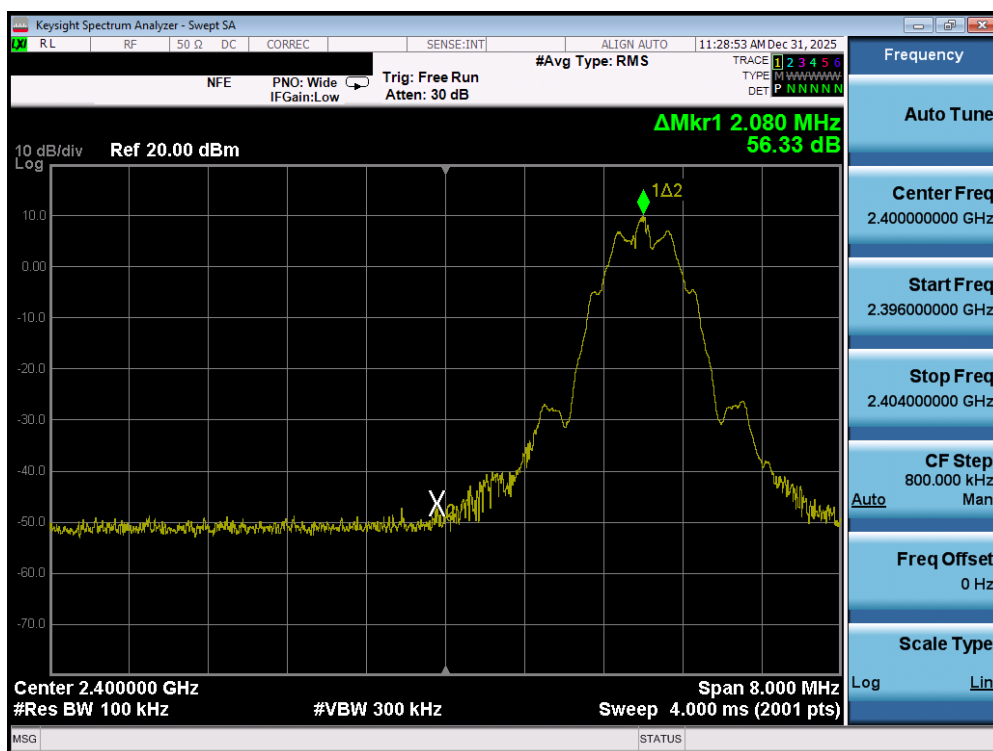
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

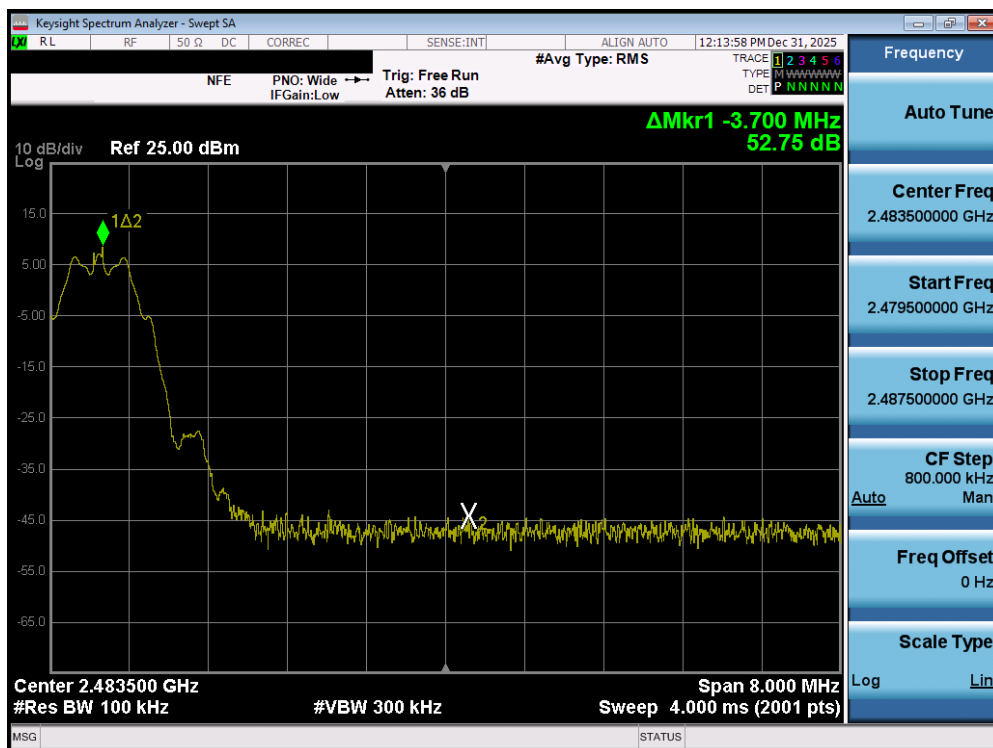
None

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 89 of 137

SISO ANT1

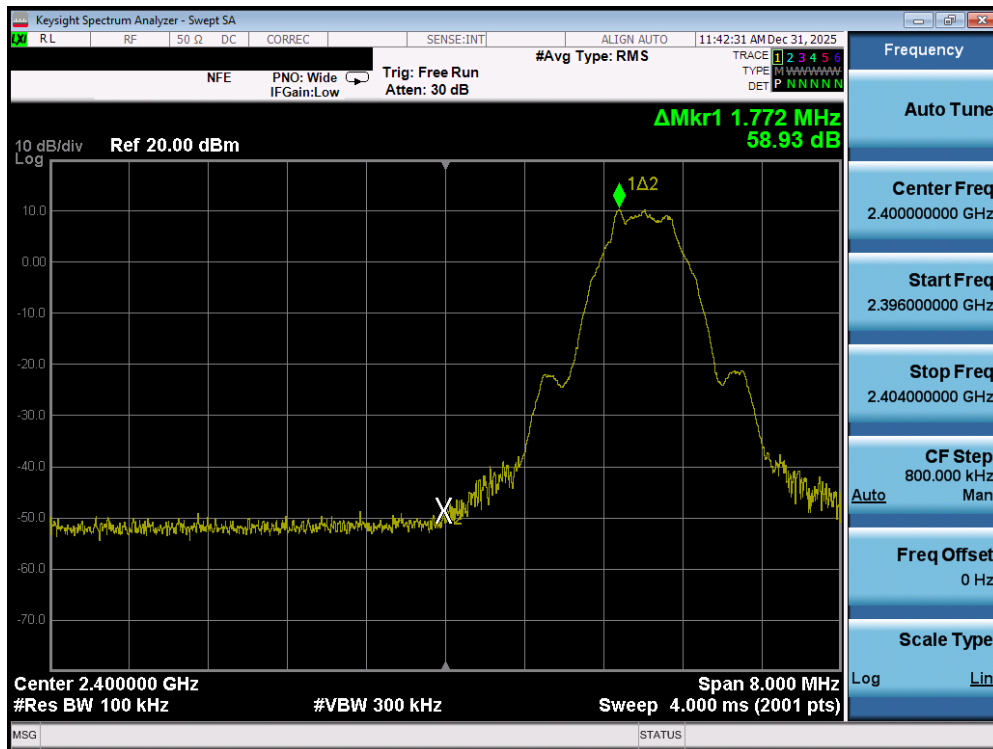


Plot 7-121. Band Edge Plot (Bluetooth (LE), 125kbps – Ch. 37) – SISO ANT1

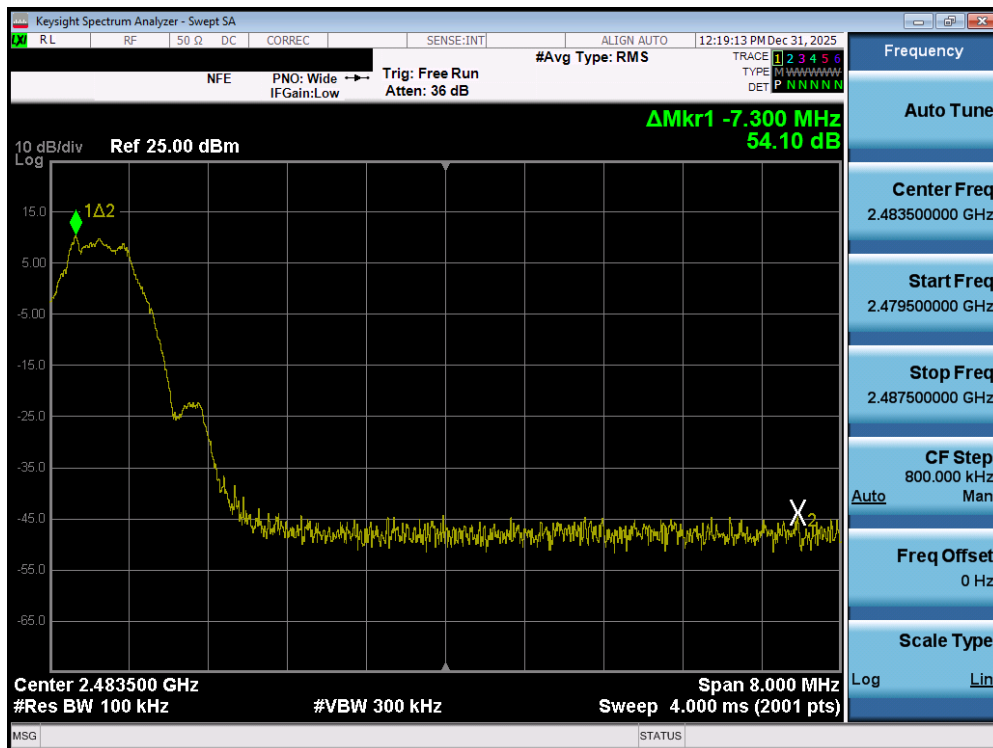


Plot 7-122. Band Edge Plot (Bluetooth (LE), 125kbps - Ch. 39) – SISO ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 90 of 137

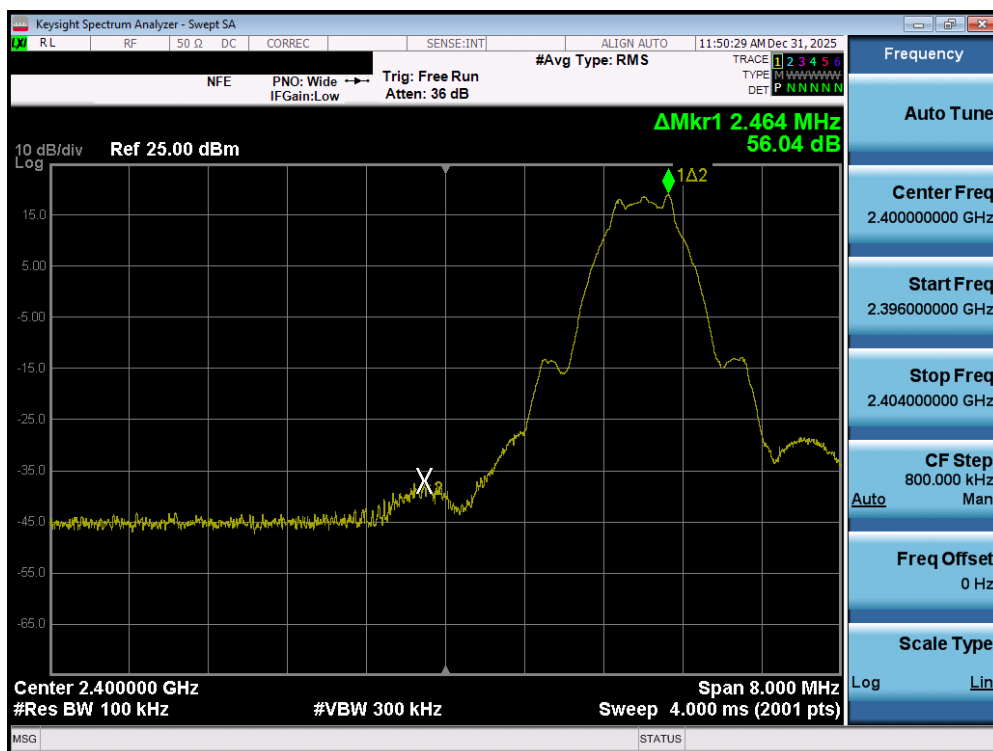


Plot 7-123. Band Edge Plot (Bluetooth (LE), 500kbps – Ch. 37) – SISO ANT1

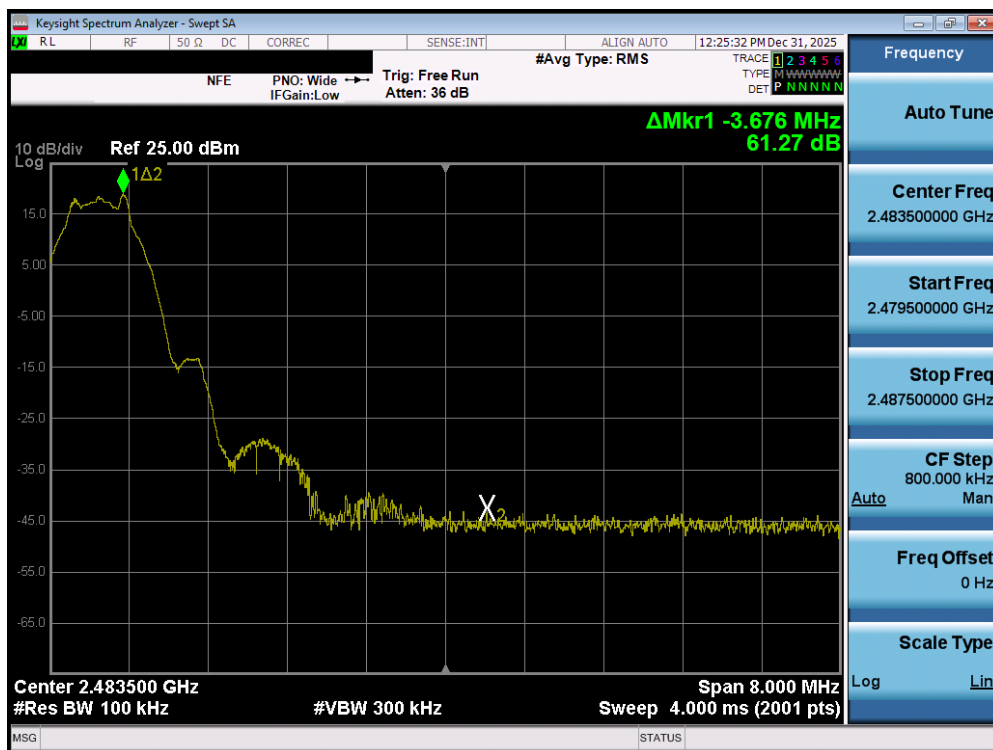


Plot 7-124. Band Edge Plot (Bluetooth (LE), 500kbps – Ch. 39) – SISO ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 91 of 137

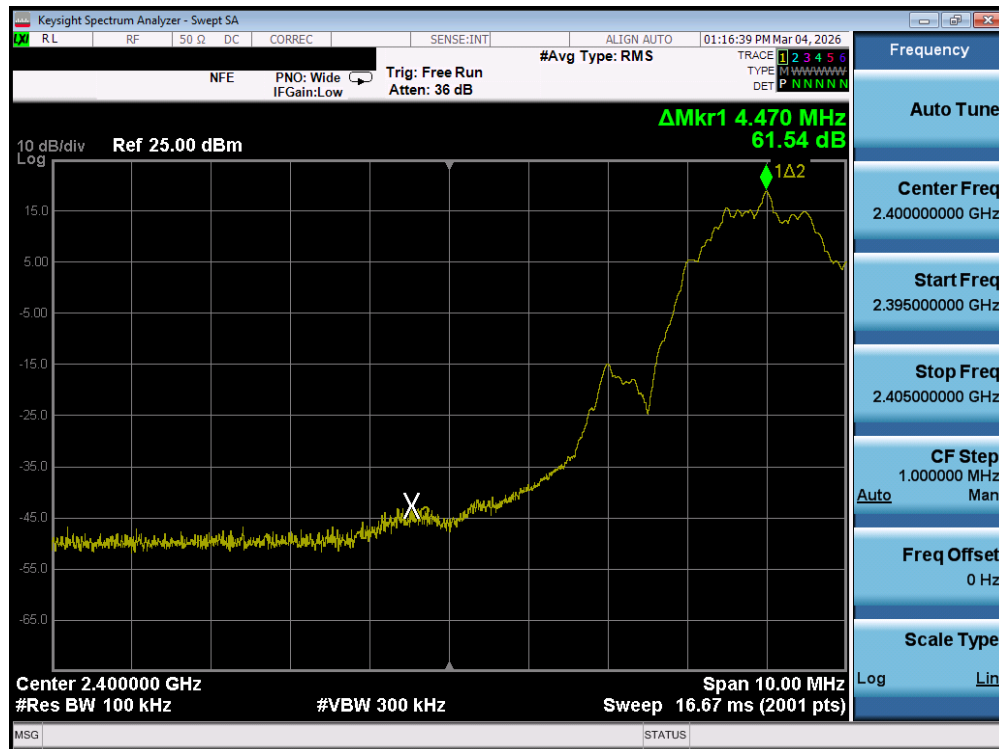


Plot 7-125. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 37) – SISO ANT1



Plot 7-126. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 39) – SISO ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 92 of 137



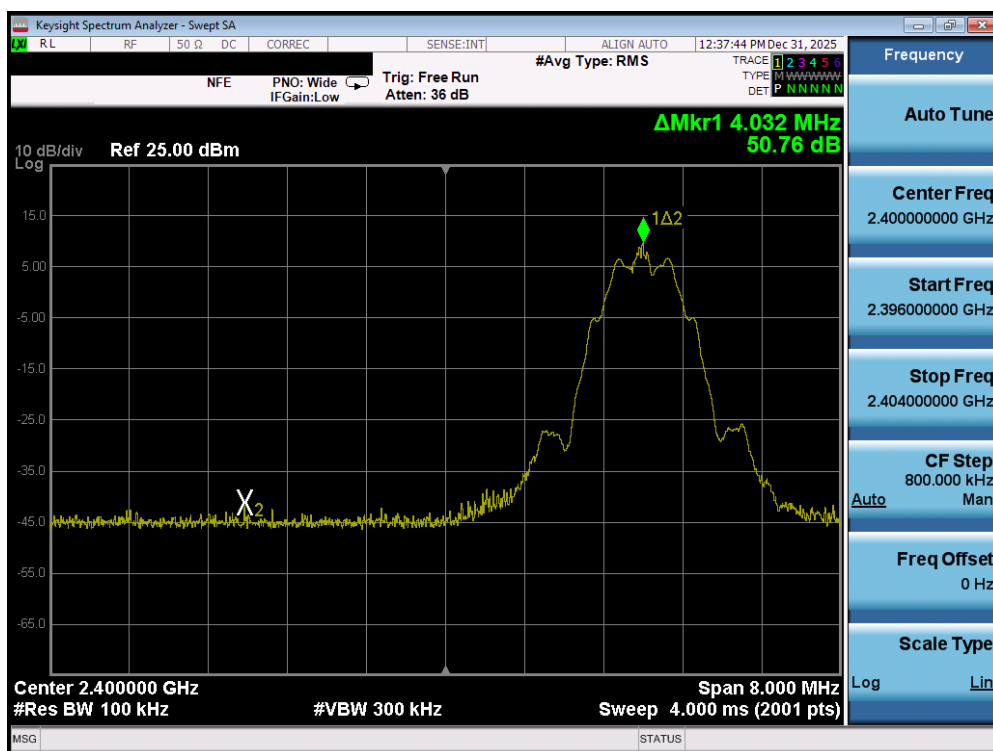
Plot 7-127. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 0) – SISO ANT1



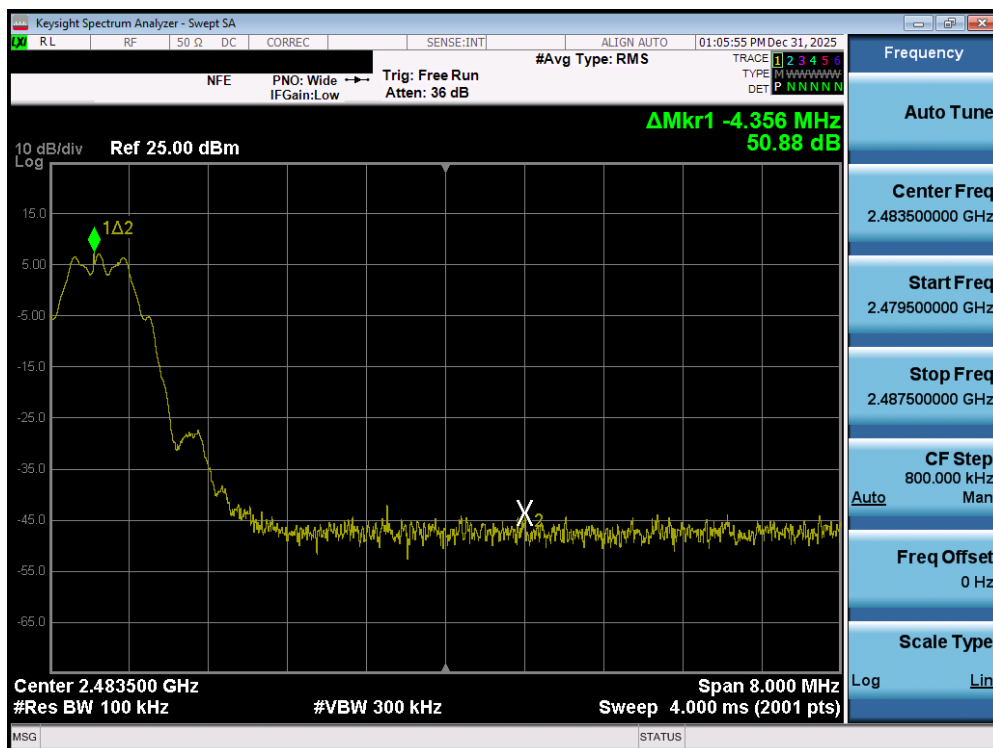
Plot 7-128. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 36) – SISO ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 93 of 137

SISO ANT2

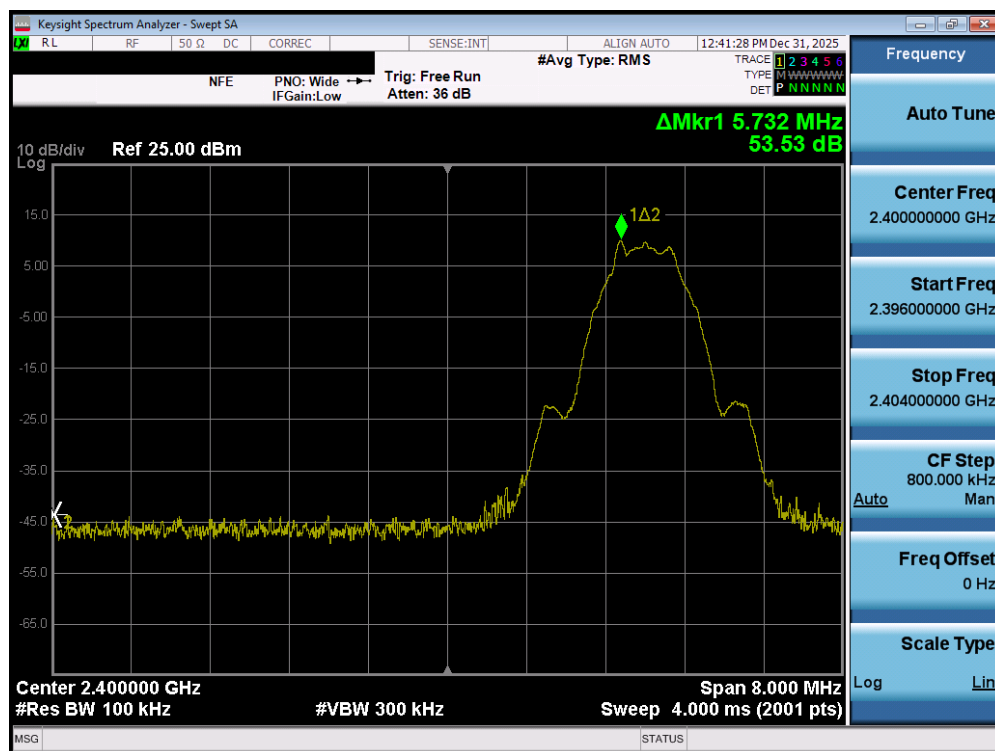


Plot 7-129. Band Edge Plot (Bluetooth (LE), 125kbps – Ch. 37) – SISO ANT2

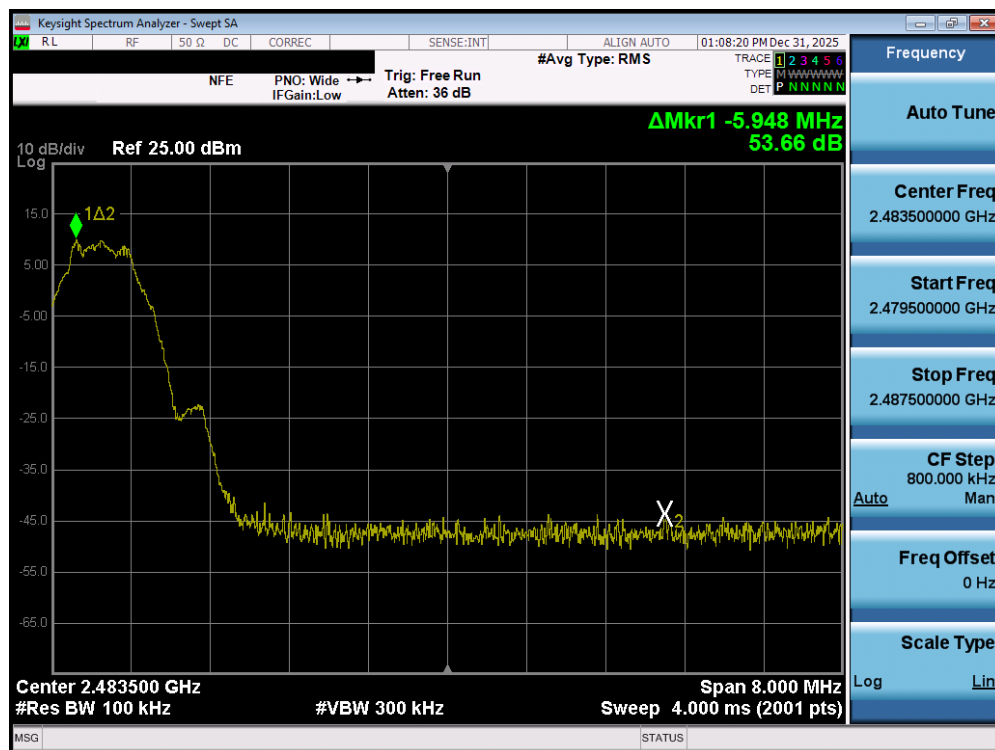


Plot 7-130. Band Edge Plot (Bluetooth (LE), 125kbps – Ch. 39) – SISO ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 94 of 137

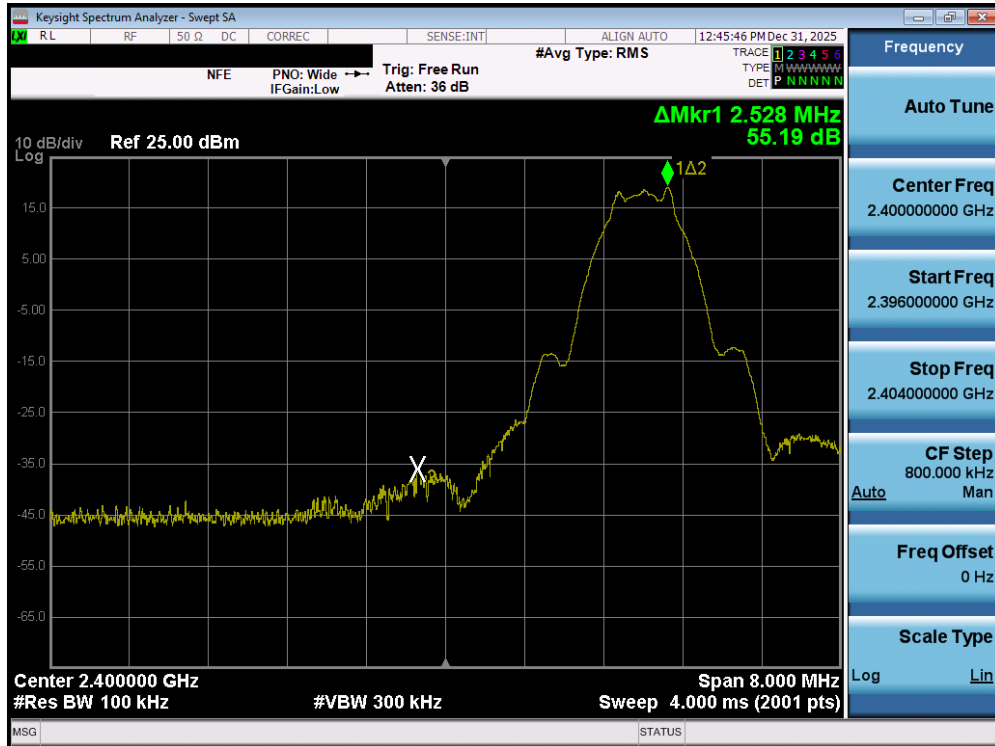


Plot 7-131. Band Edge Plot (Bluetooth (LE), 500kbps – Ch. 37) – SISO ANT2

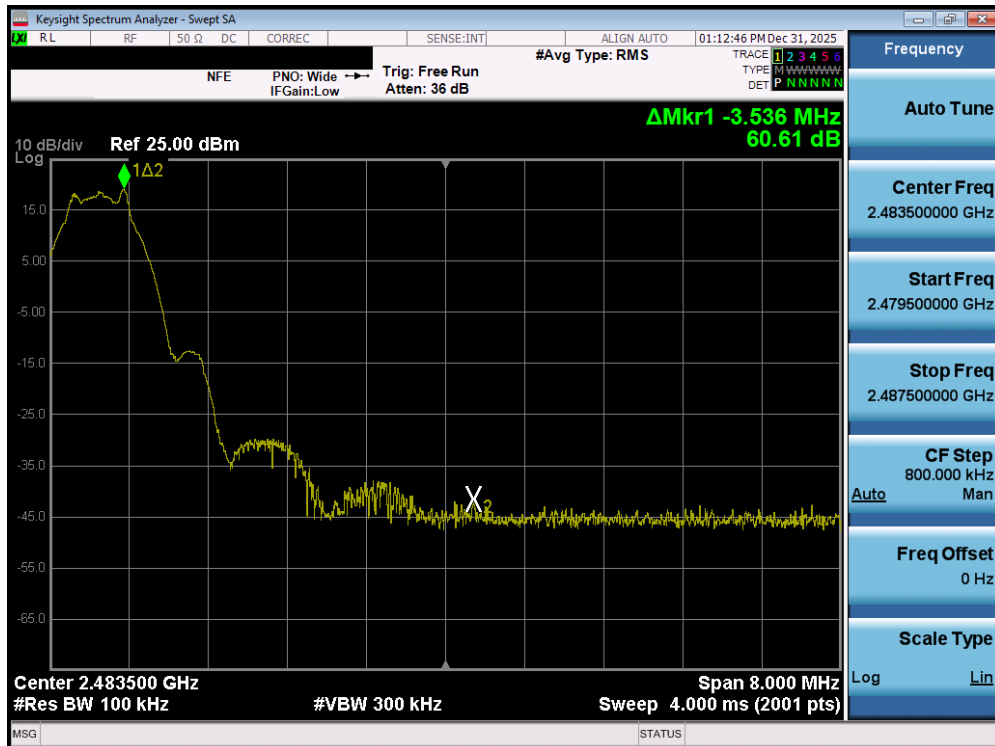


Plot 7-132. Band Edge Plot (Bluetooth (LE), 500kbps – Ch. 39) – SISO ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 95 of 137

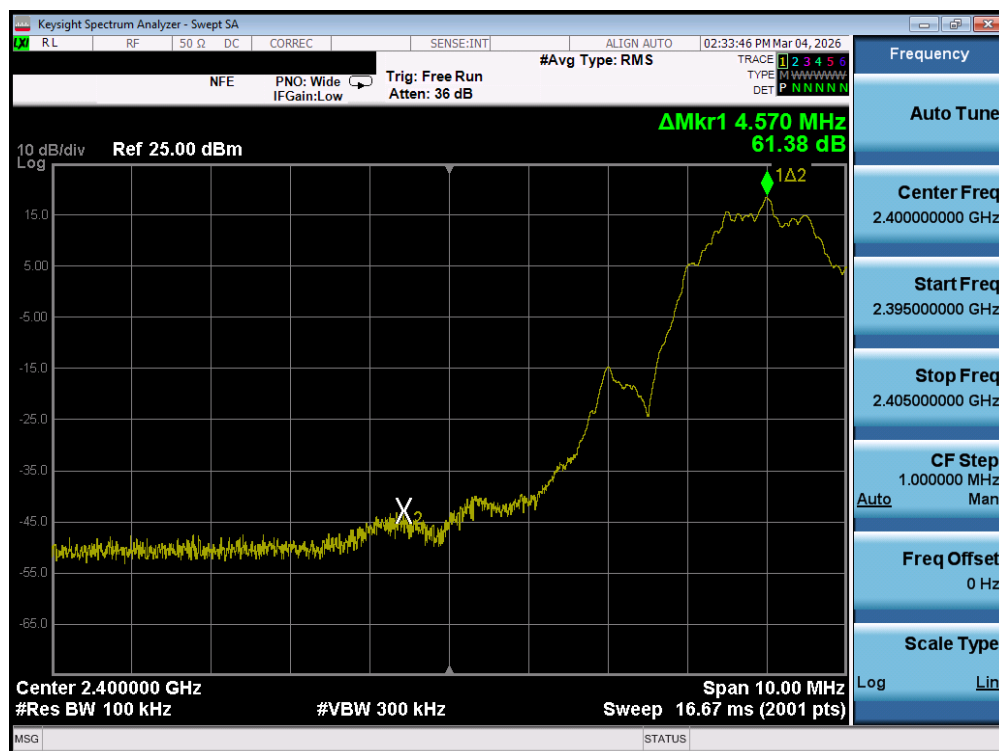


Plot 7-133. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 37) – SISO ANT2

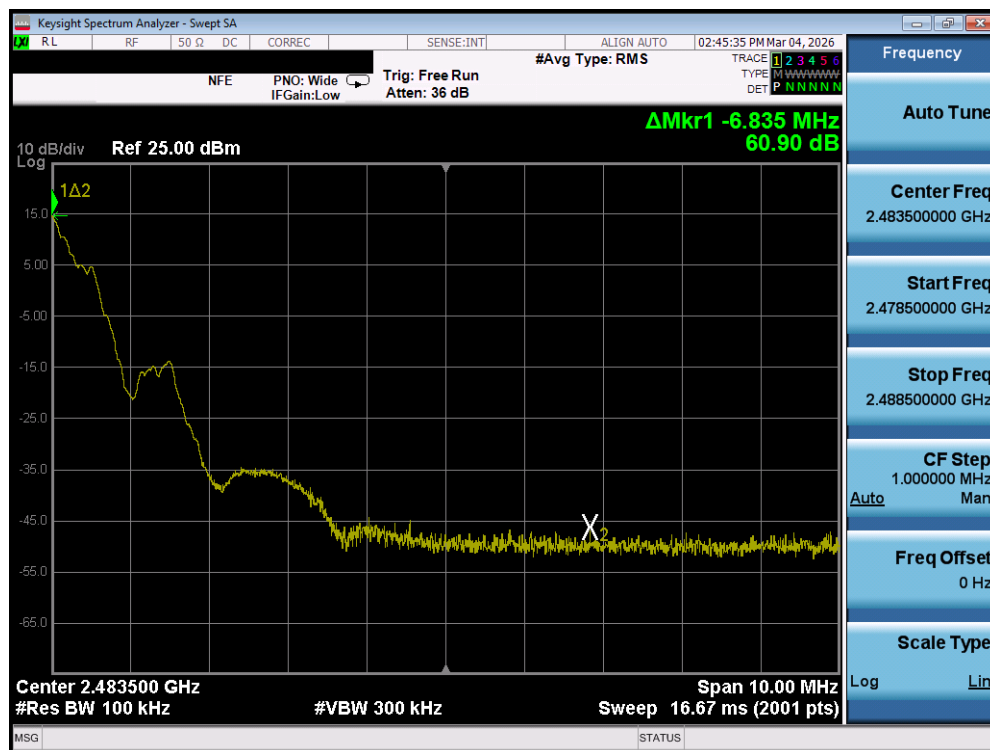


Plot 7-134. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 39) – SISO ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 96 of 137



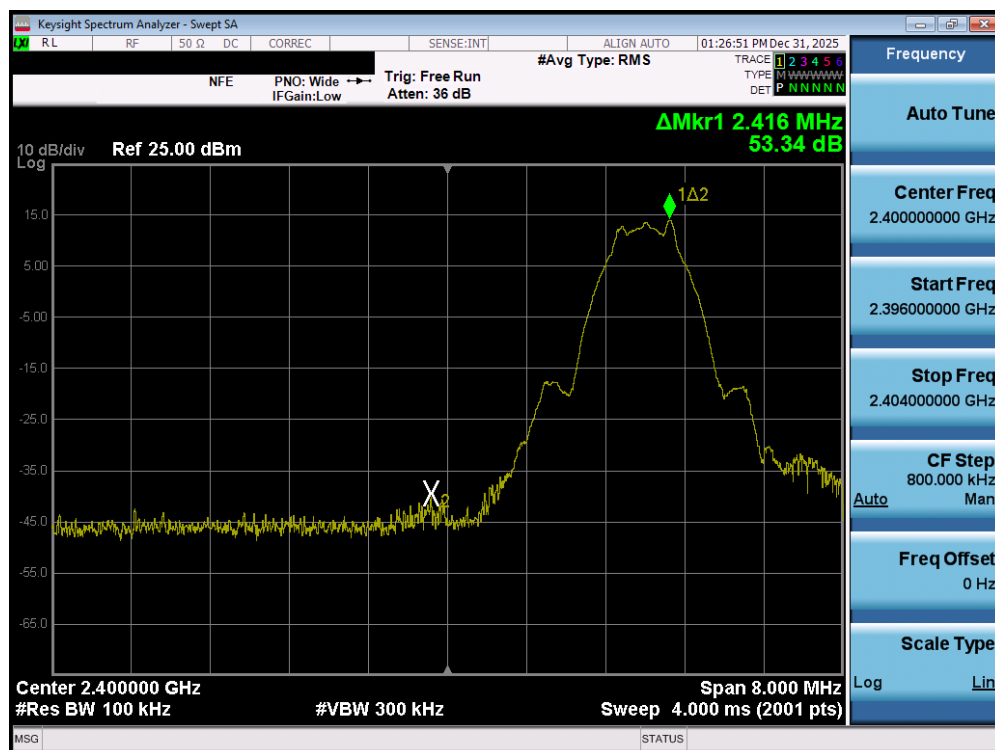
Plot 7-135. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 0) – SISO ANT2



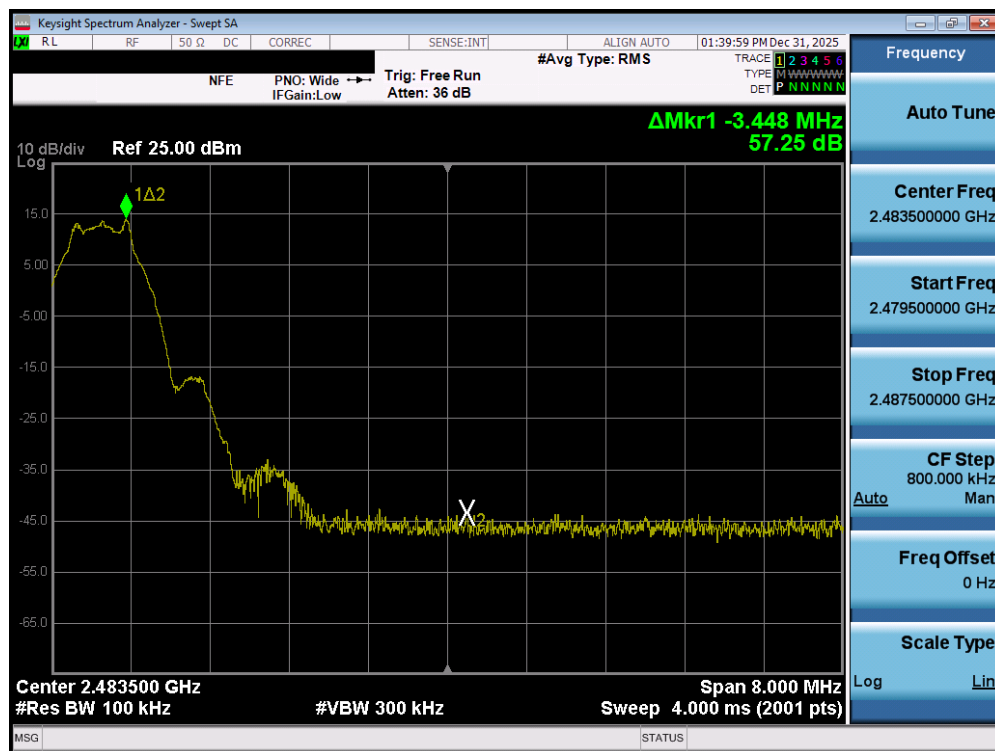
Plot 7-136. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 36) – SISO ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 97 of 137

DUAL ANT1

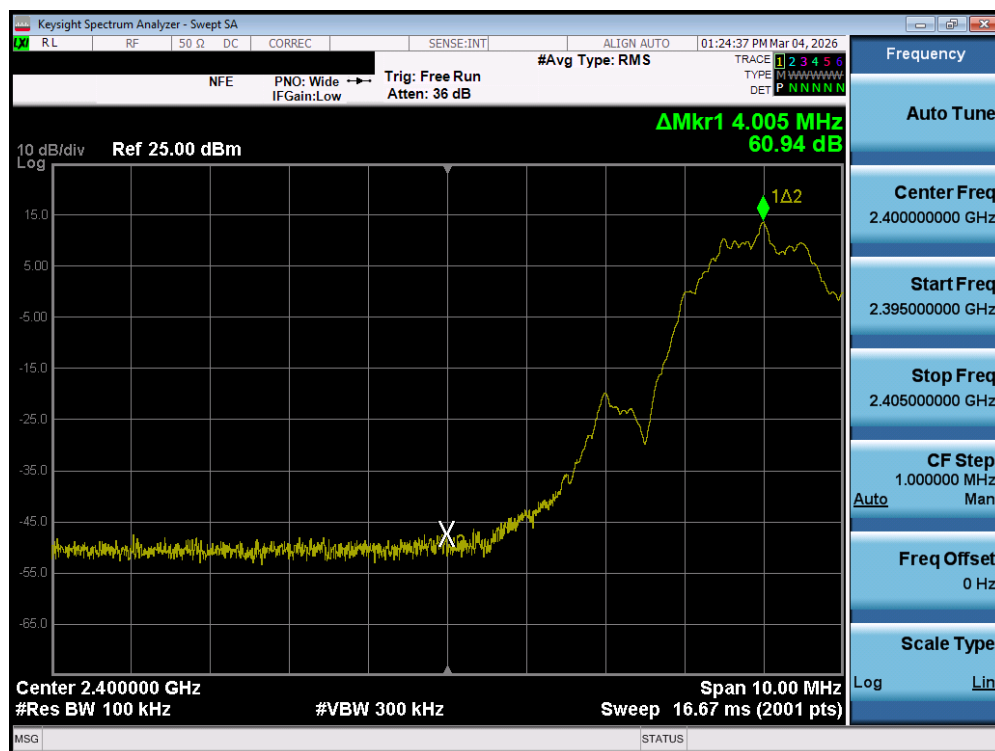


Plot 7-137. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 37) – DUAL ANT1



Plot 7-138. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 39) – DUAL ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 98 of 137



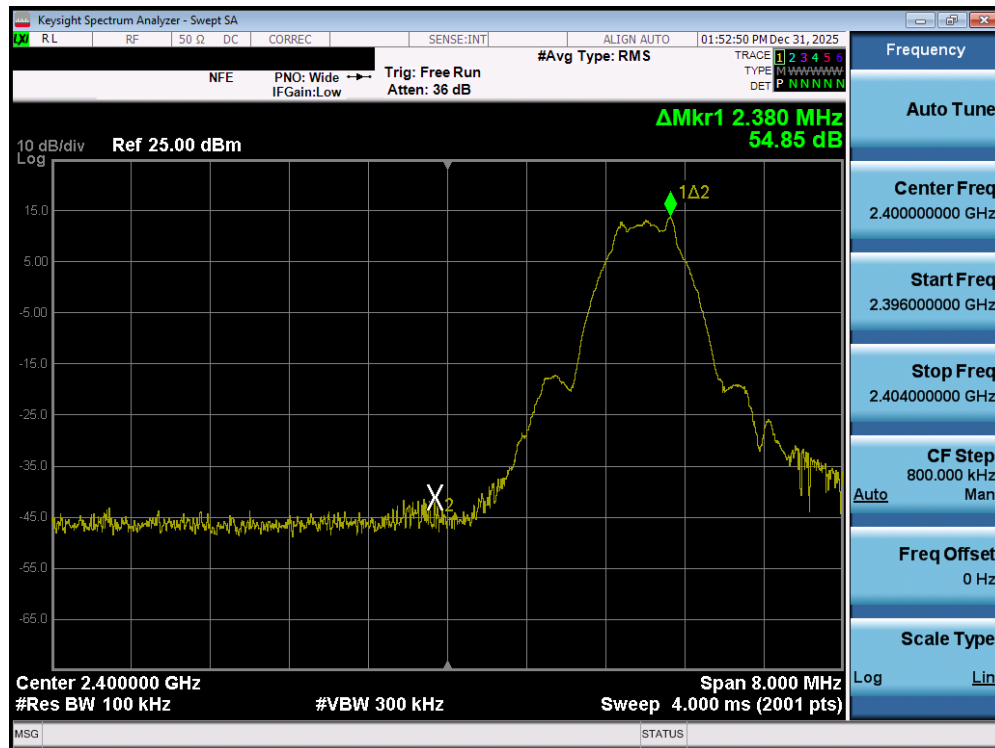
Plot 7-139. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 0) – DUAL ANT1



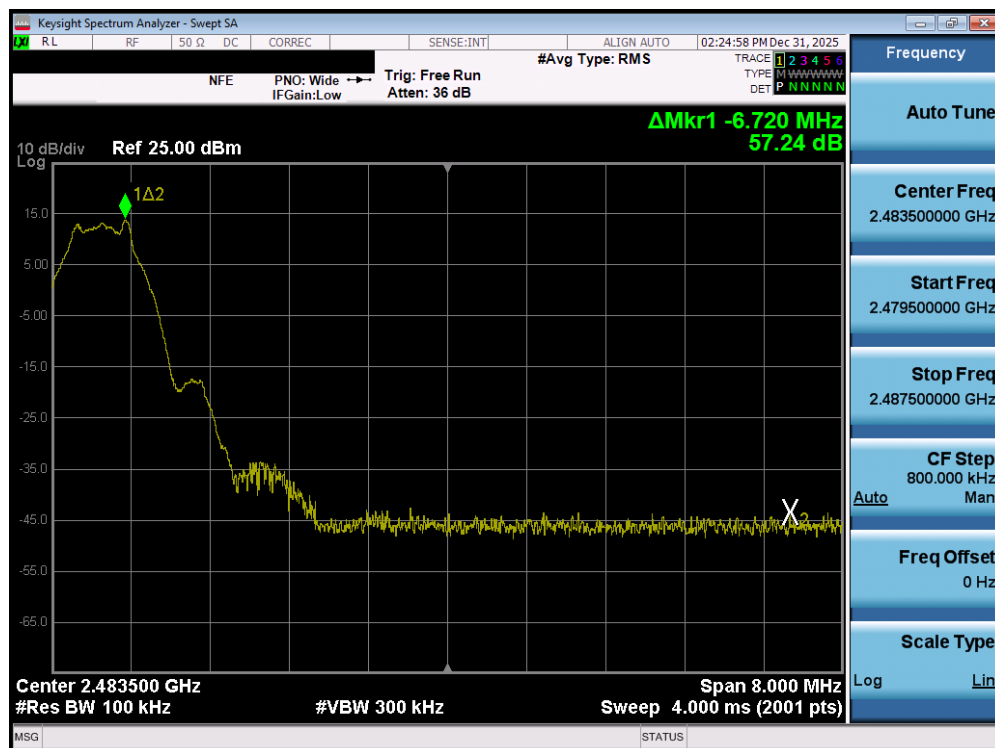
Plot 7-140. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 36) – DUAL ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 99 of 137

DUAL ANT2



Plot 7-141. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 37) – DUAL ANT2

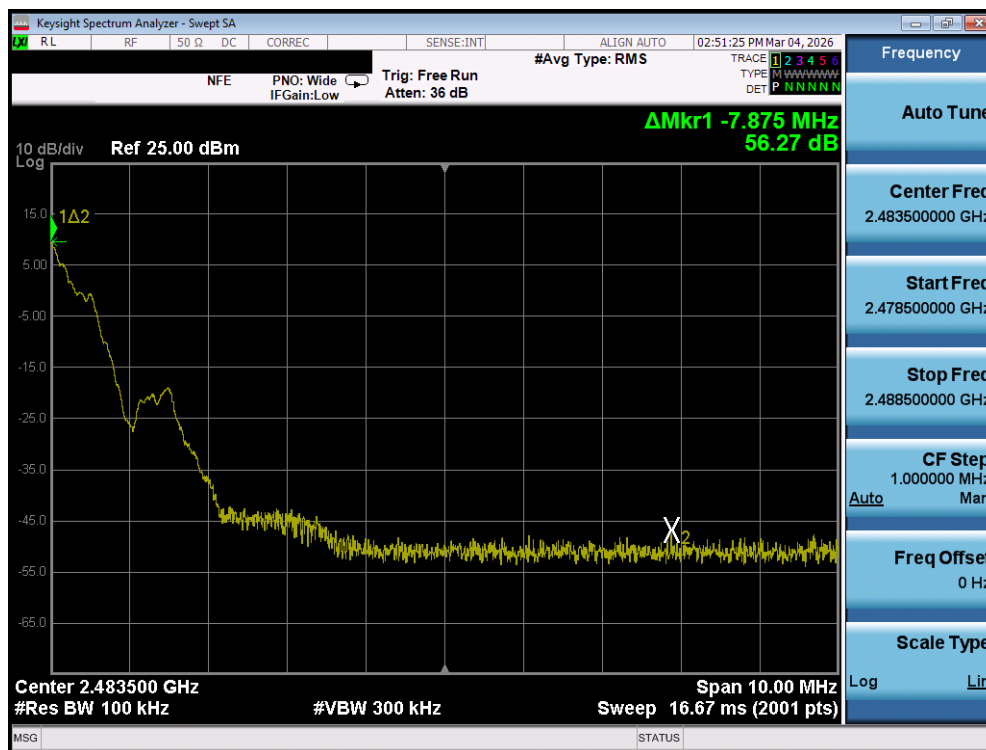


Plot 7-142. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 39) – DUAL ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 100 of 137



Plot 7-143. Band Edge Plot (Bluetooth (LE), 2Mbps - Ch. 0) - DUAL ANT2



Plot 7-144. Band Edge Plot (Bluetooth (LE), 2Mbps - Ch. 36) - DUAL ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 101 of 137

7.6 Conducted Spurious Emissions

Test Overview and Limit

For the following out of band conducted spurious emissions plots, the EUT was set to transmit at maximum power with the largest packet size available. The worst case spurious emissions were found in this configuration.

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 Section 8.5 of KDB 558074 D01 v05r02 and Section 11.11.3 of ANSI C63.10-2020.

Test Procedure Used

ANSI C63.10-2020 – Section 11.11.3
KDB 558074 D01 v05r02 – Section 8.5

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 7-5. Test Instrument & Measurement Setup

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 102 of 137

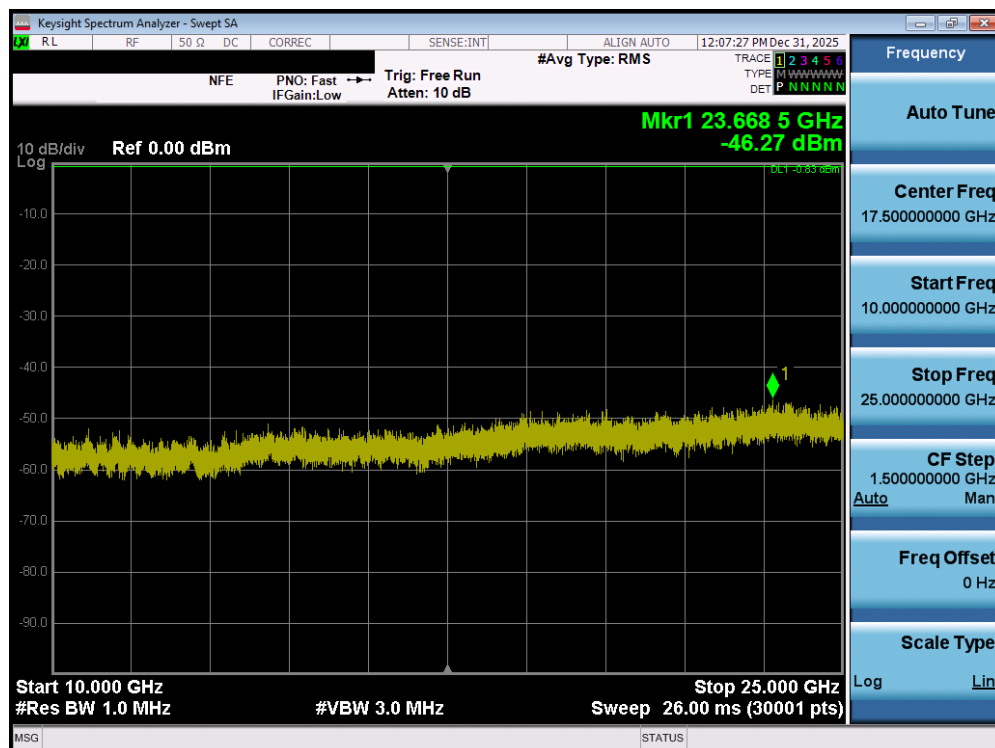
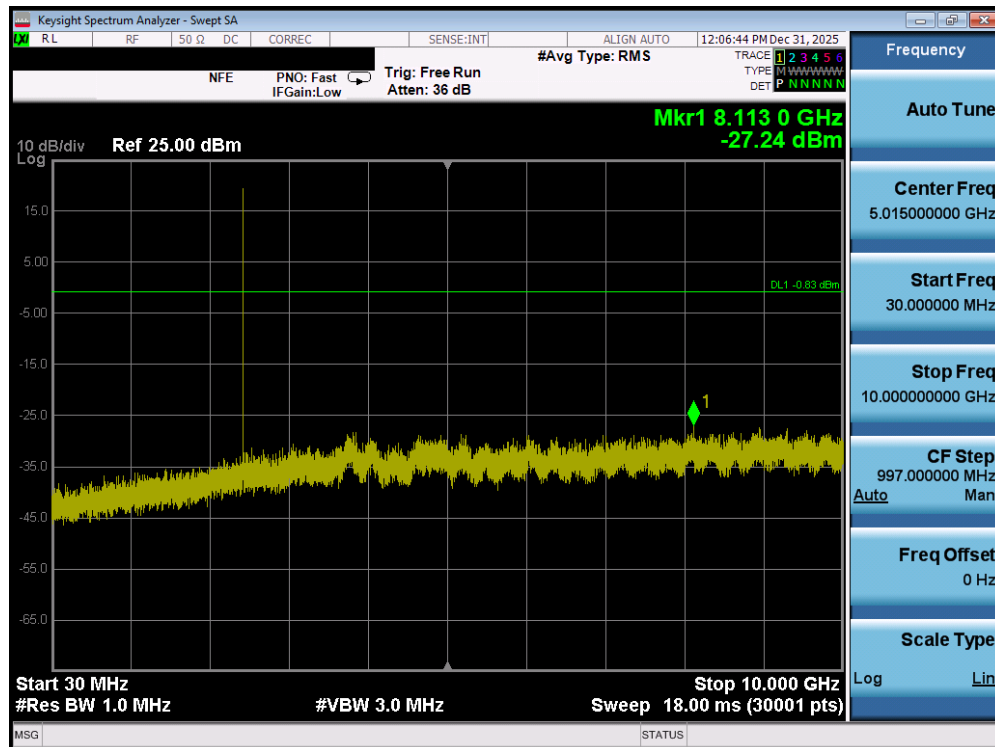
Test Notes

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.

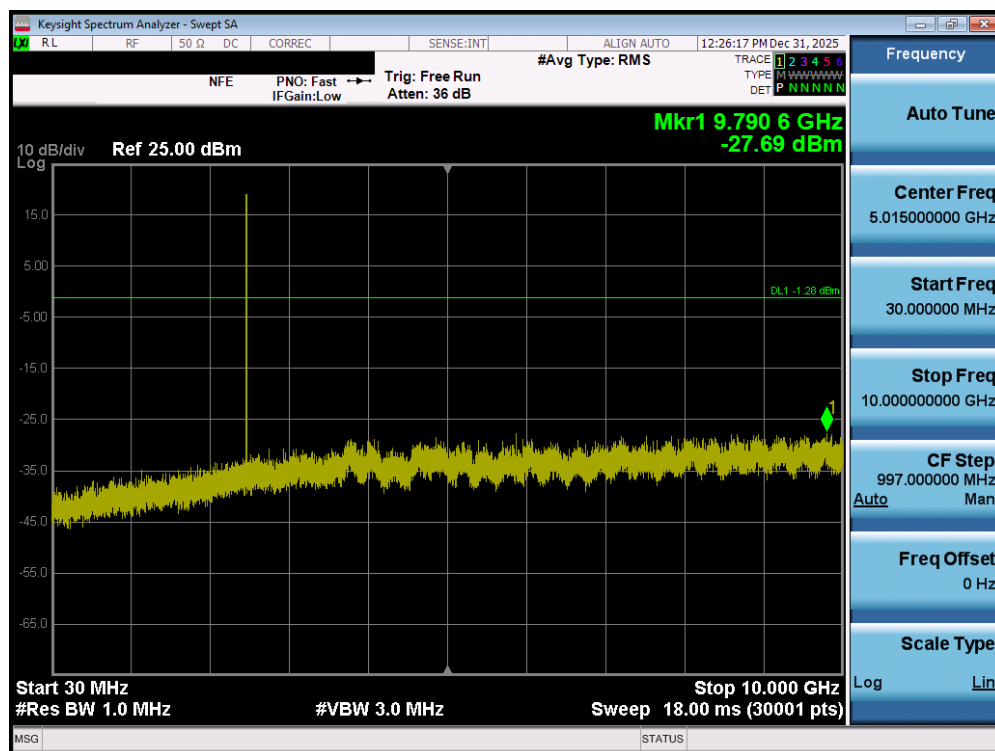
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 103 of 137



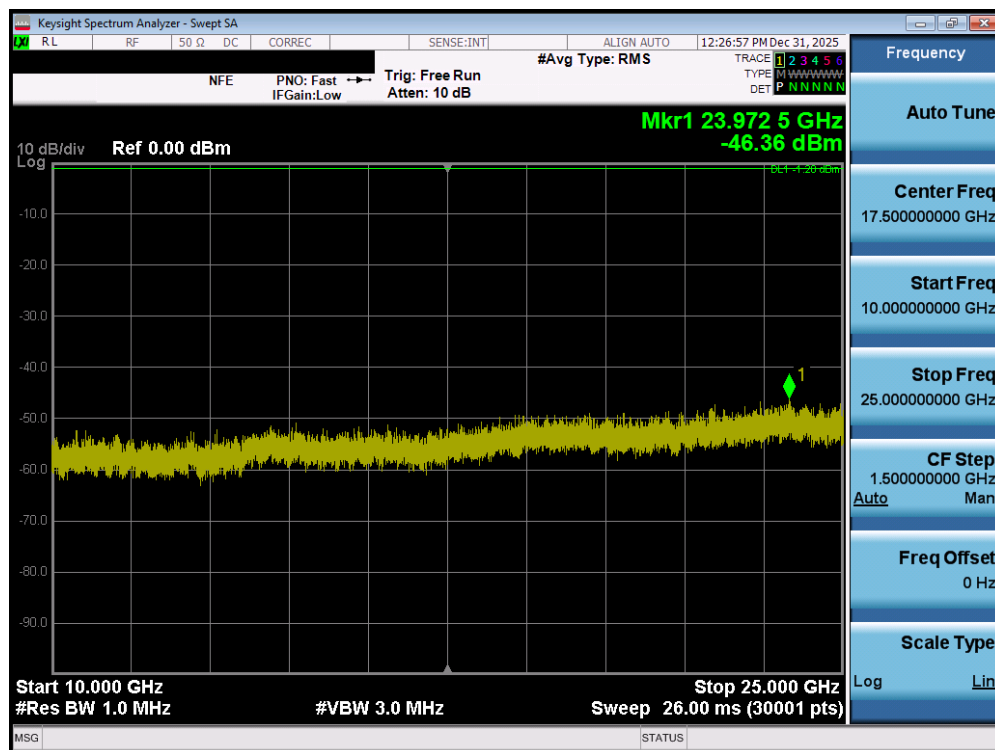
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FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 105 of 137



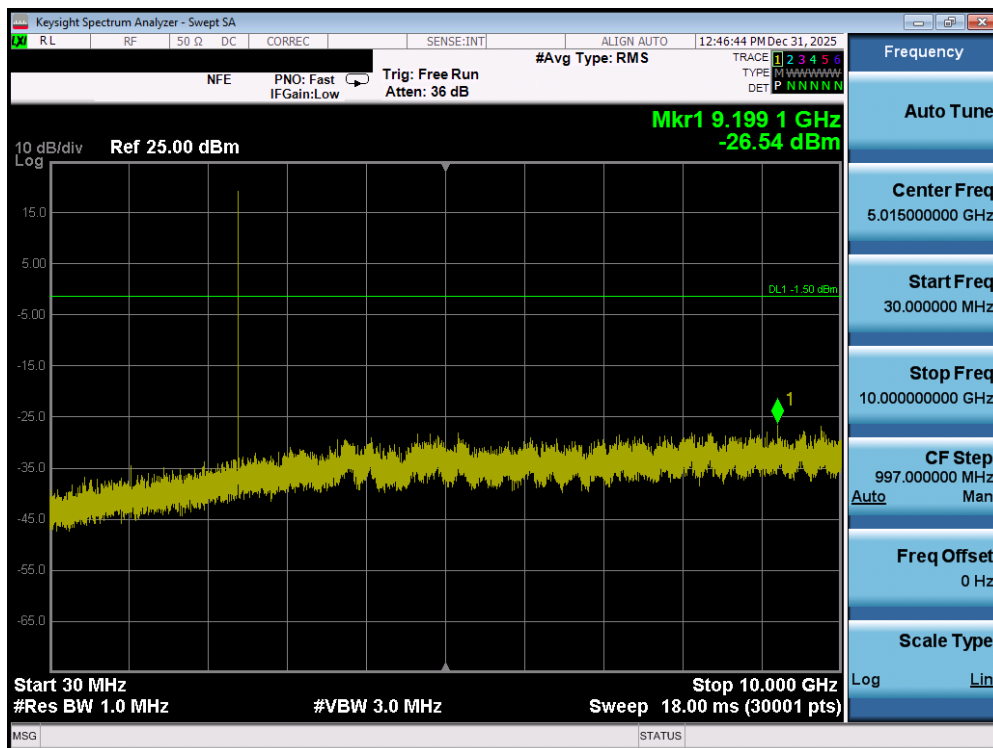
Plot 7-149. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 39) - SISO ANT1



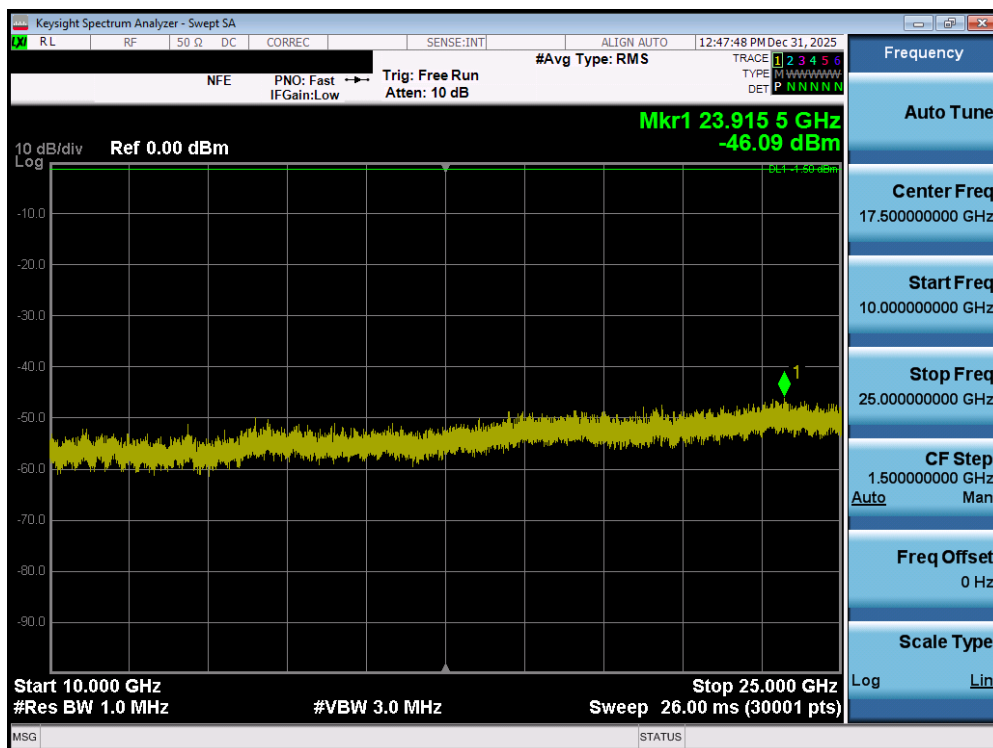
Plot 7-150. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 39) - SISO ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 106 of 137

SISO ANT2

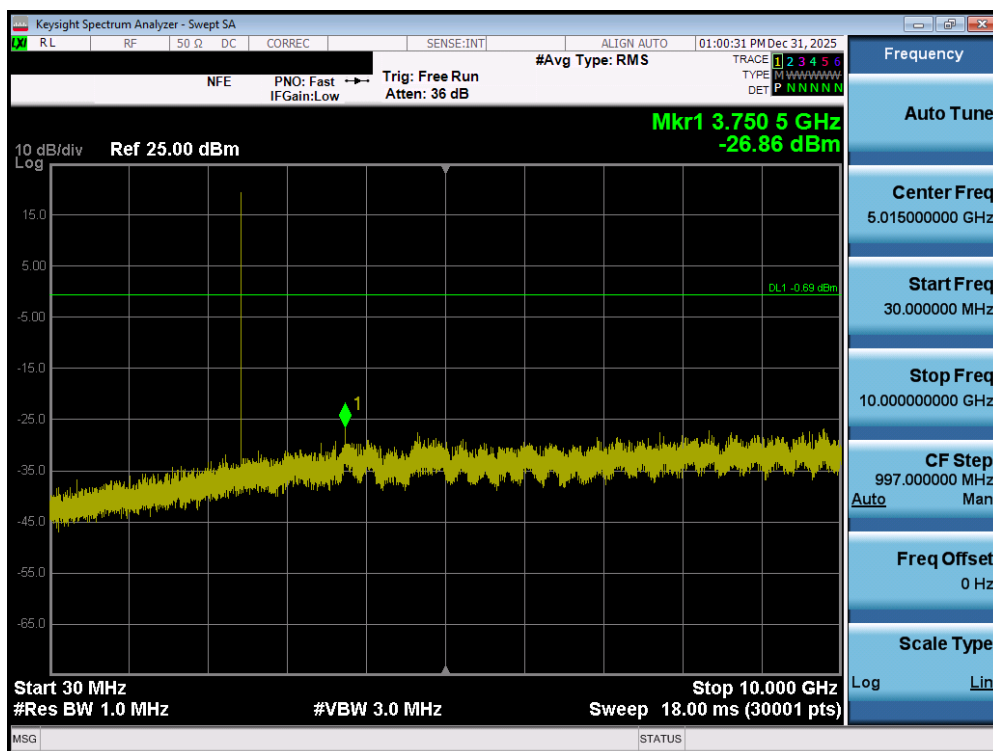


Plot 7-151. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 37) - SISO ANT2

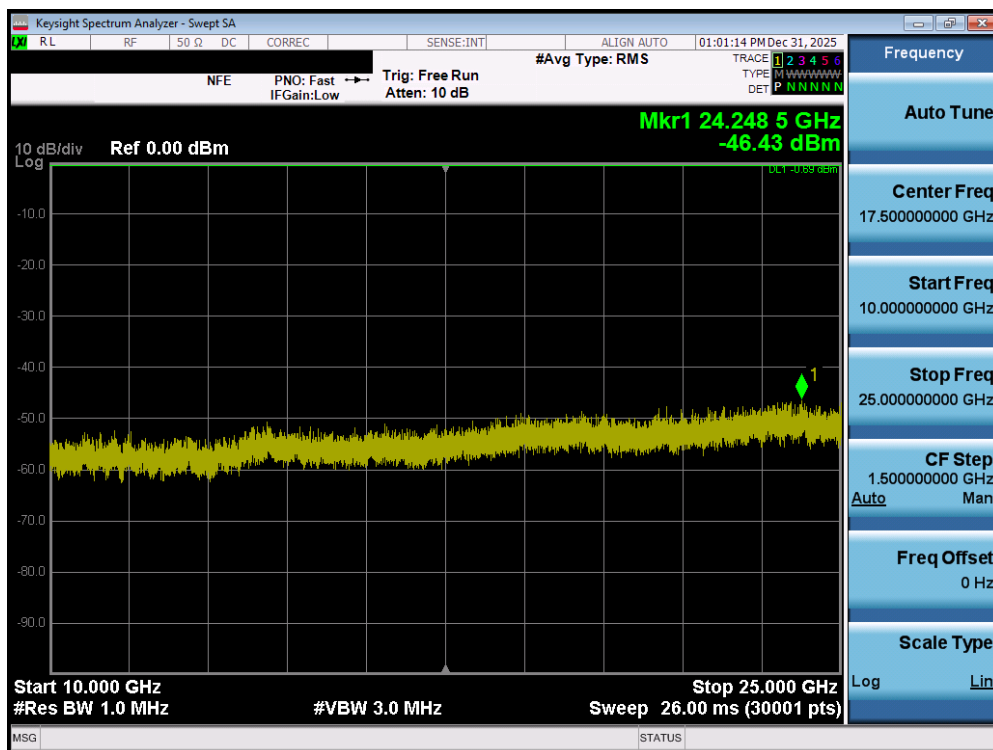


Plot 7-152. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 37) - SISO ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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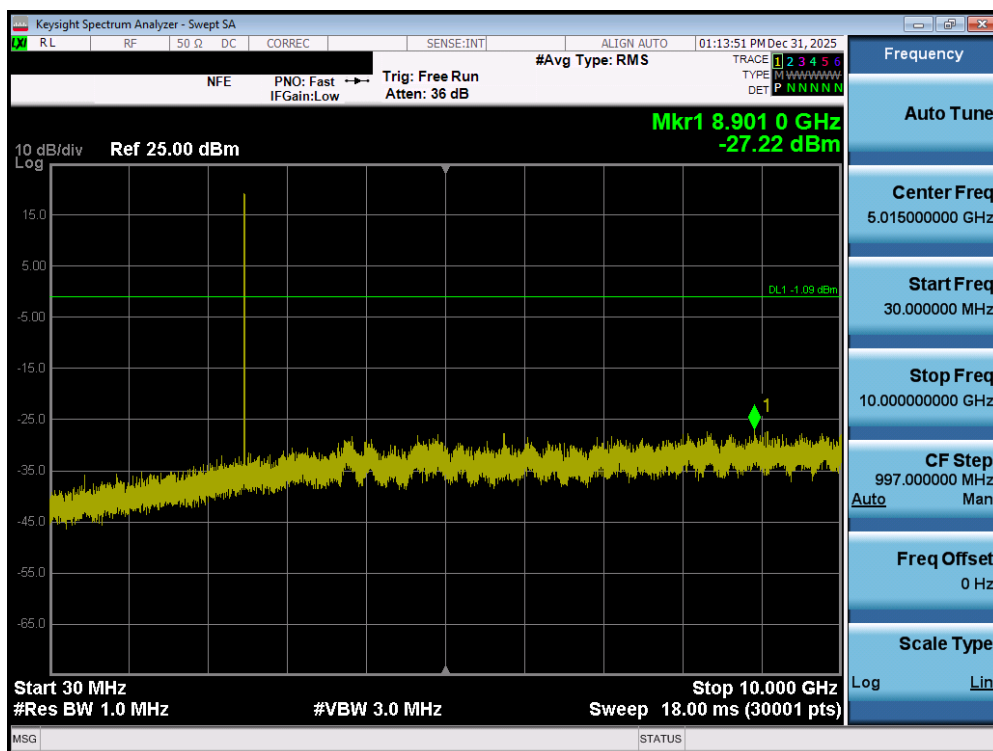


Plot 7-153. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 17) – SISO ANT2

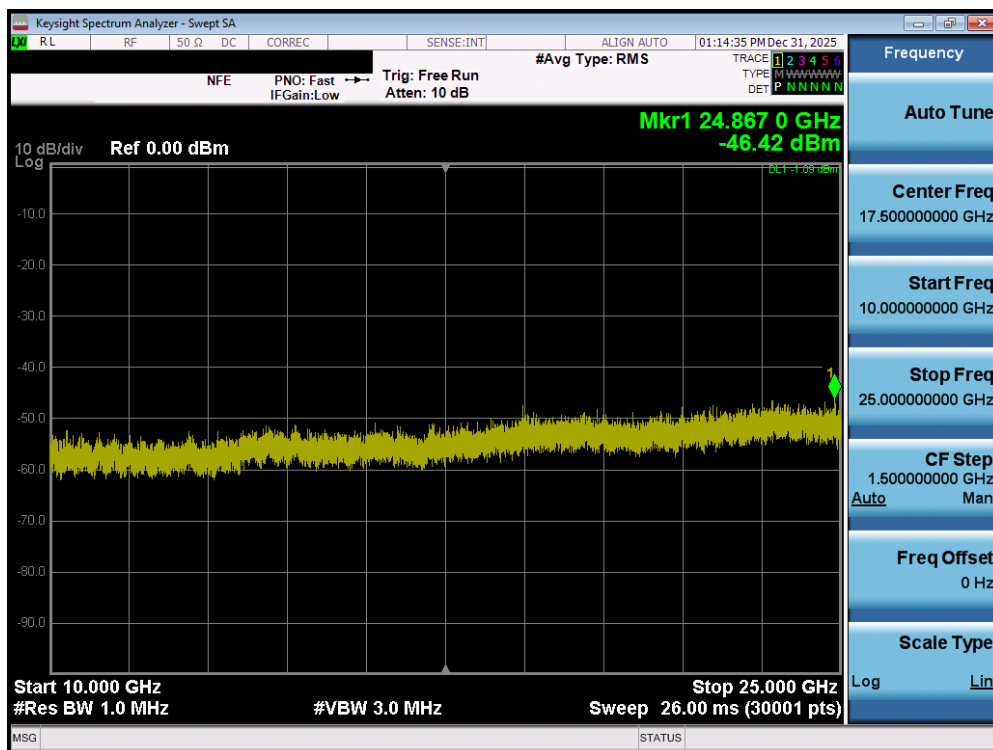


Plot 7-154. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 17) – SISO ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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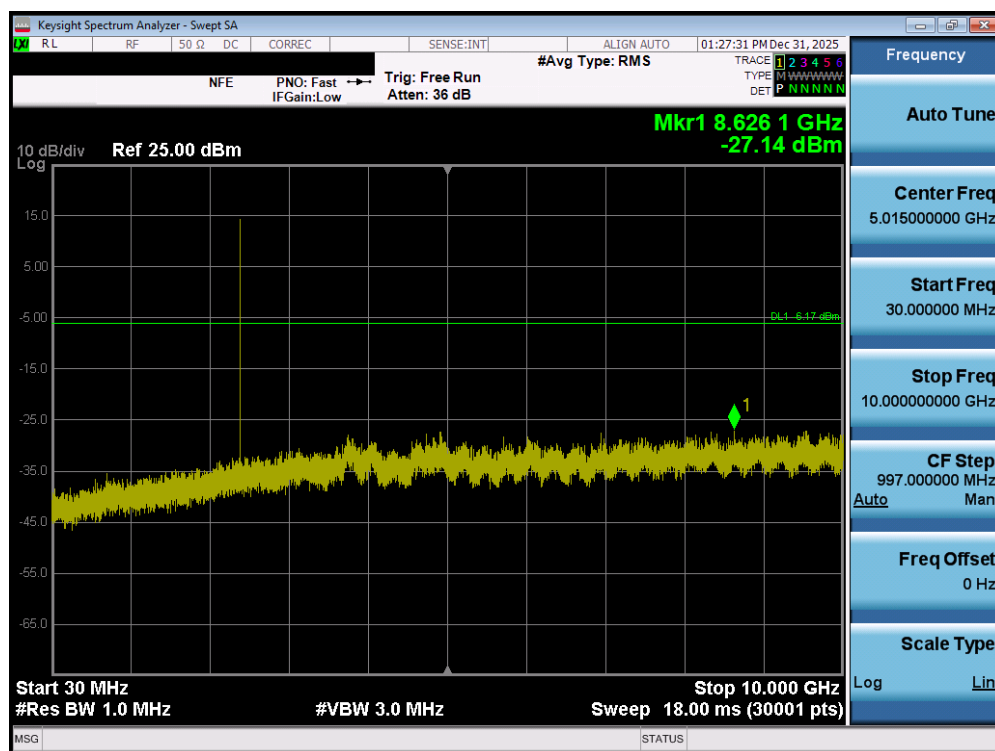
Plot 7-155. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 39) – SISO ANT2



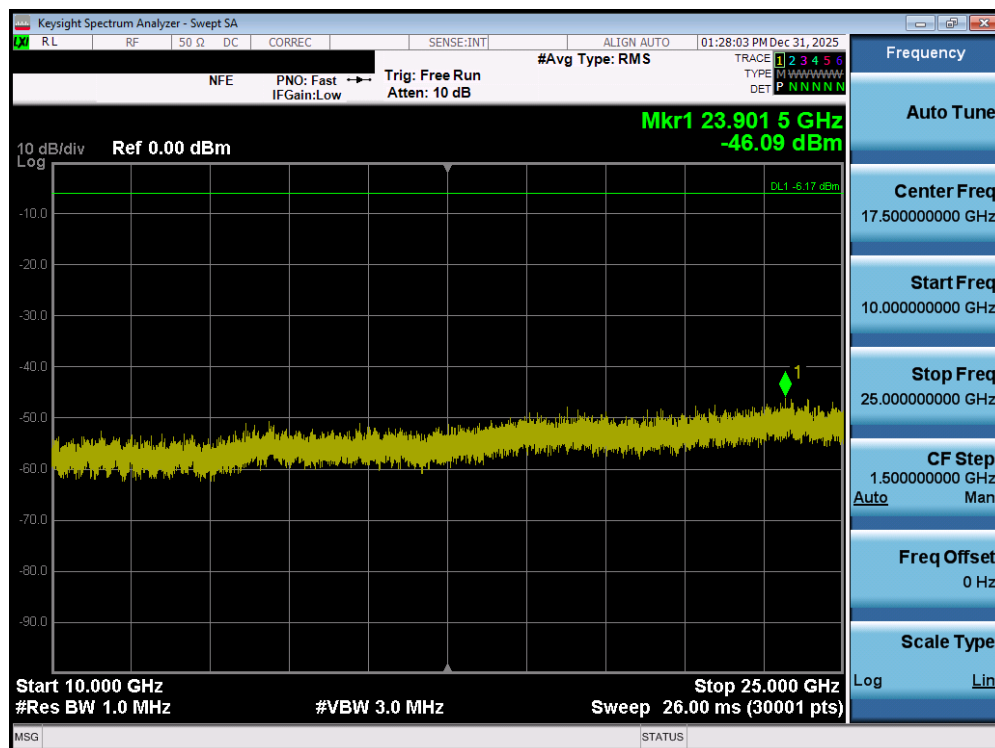
Plot 7-156. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 39) – SISO ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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DUAL ANT1

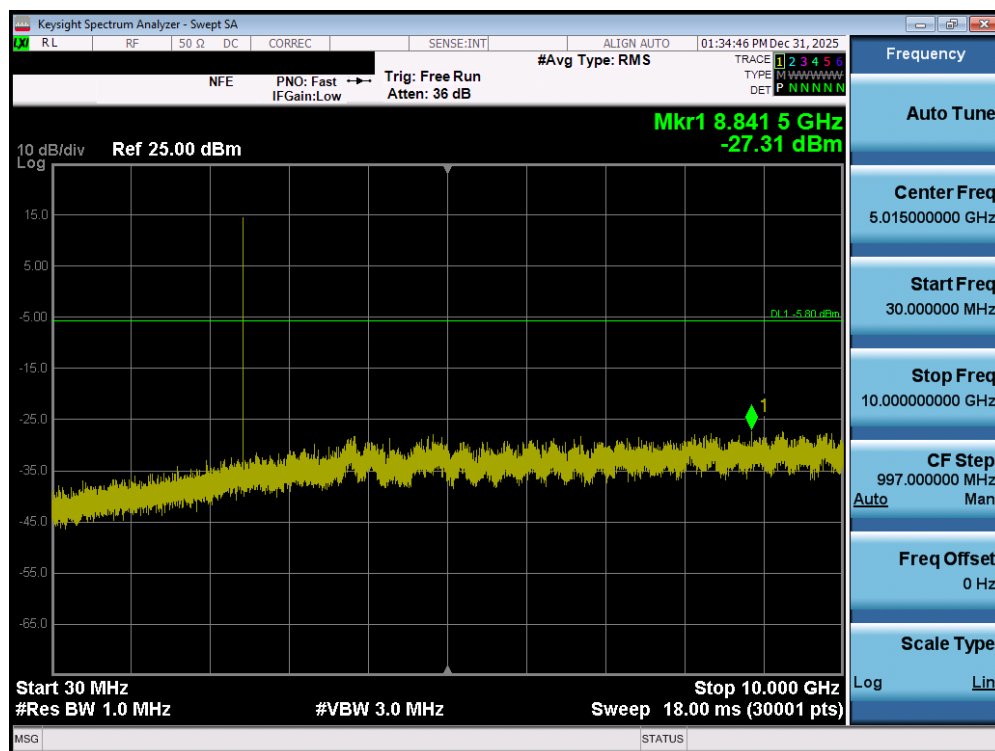


Plot 7-157. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 37) - DUAL ANT1

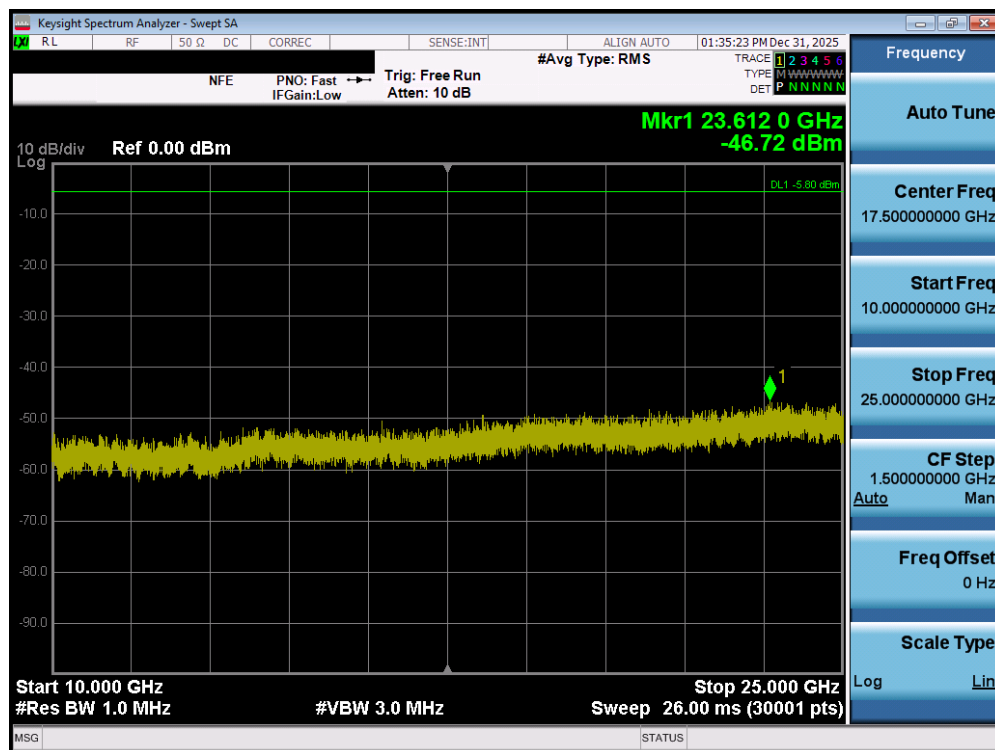


Plot 7-158. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 37) - DUAL ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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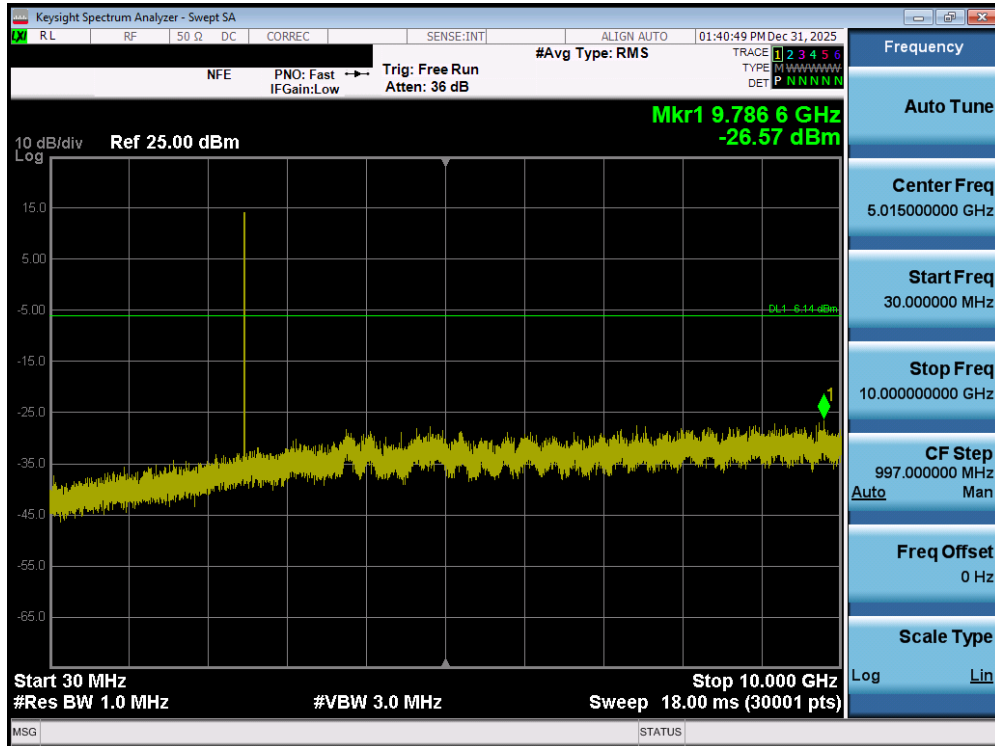


Plot 7-159. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 17) - DUAL ANT1

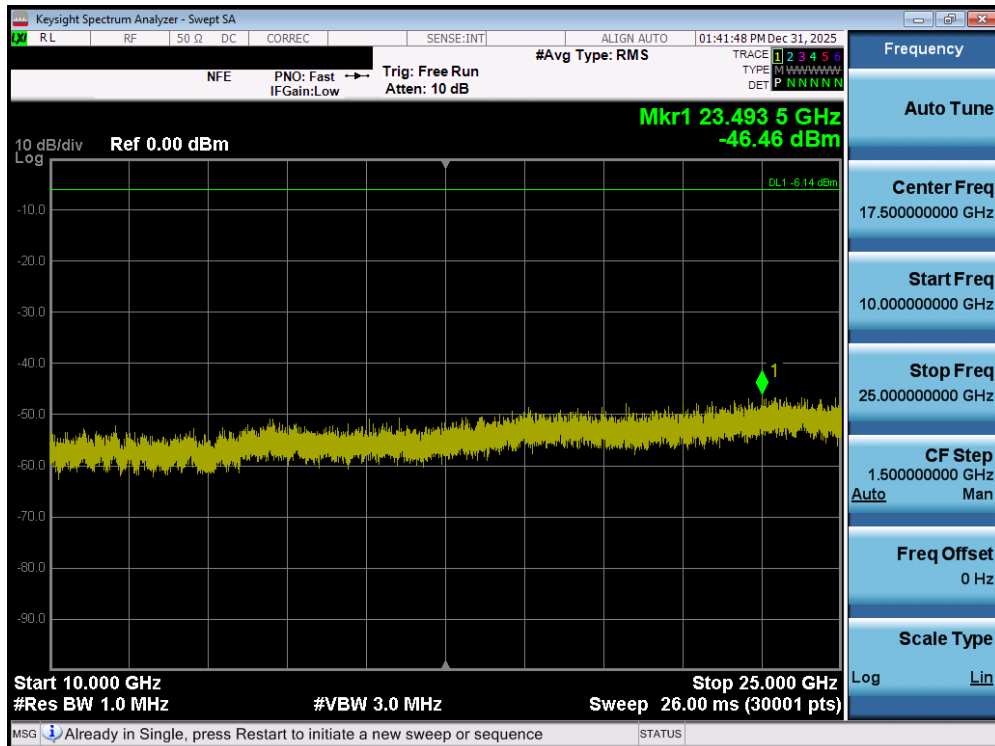


Plot 7-160. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 17) - DUAL ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 111 of 137



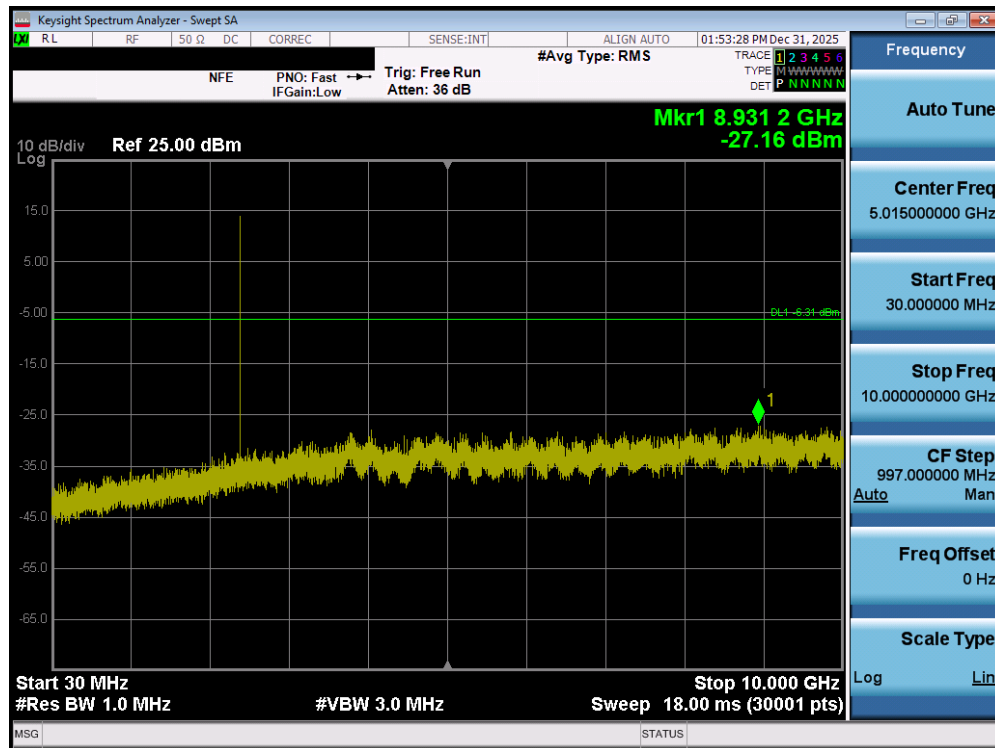
Plot 7-161. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 39) – DUAL ANT1



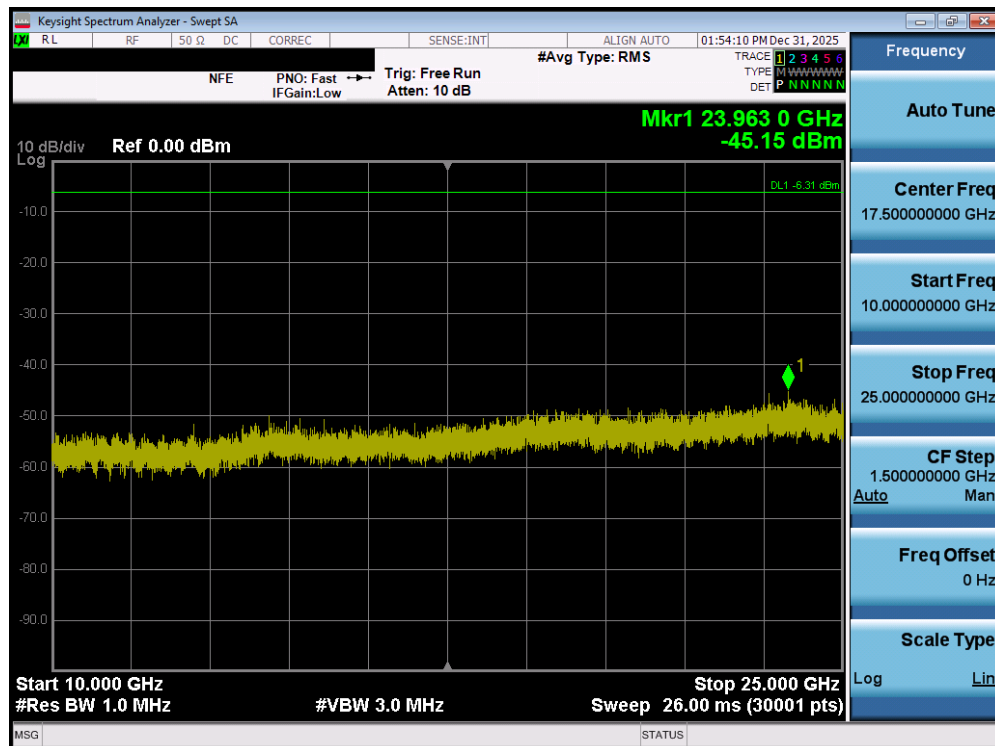
Plot 7-162. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 39) – DUAL ANT1

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 112 of 137

DUAL ANT2

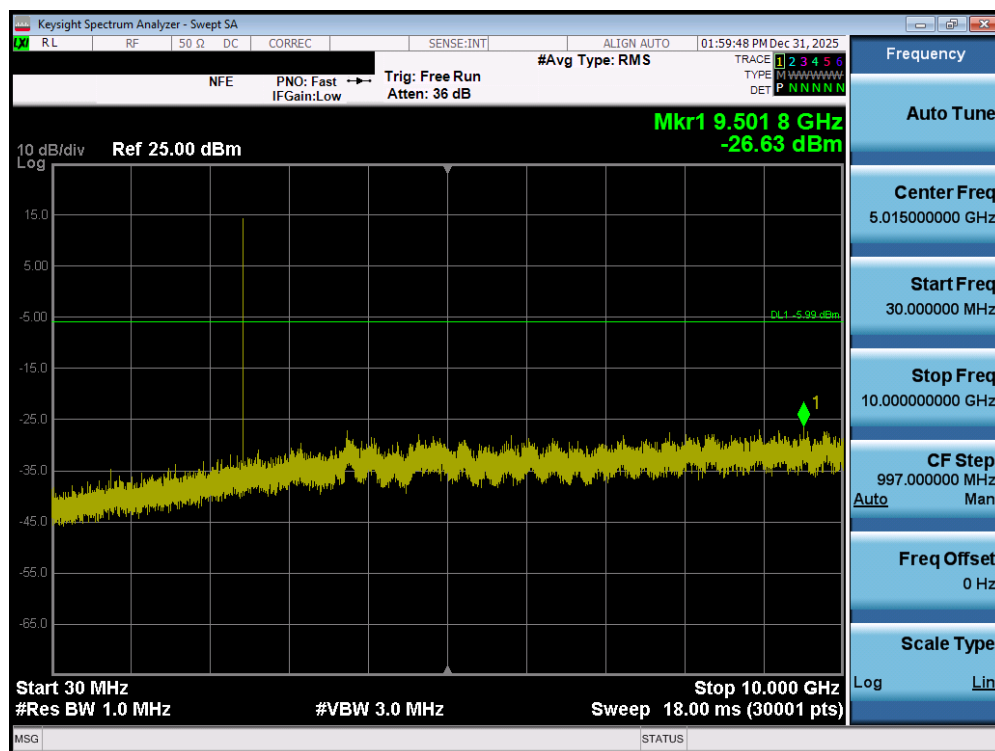


Plot 7-163. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 37) - DUAL ANT2

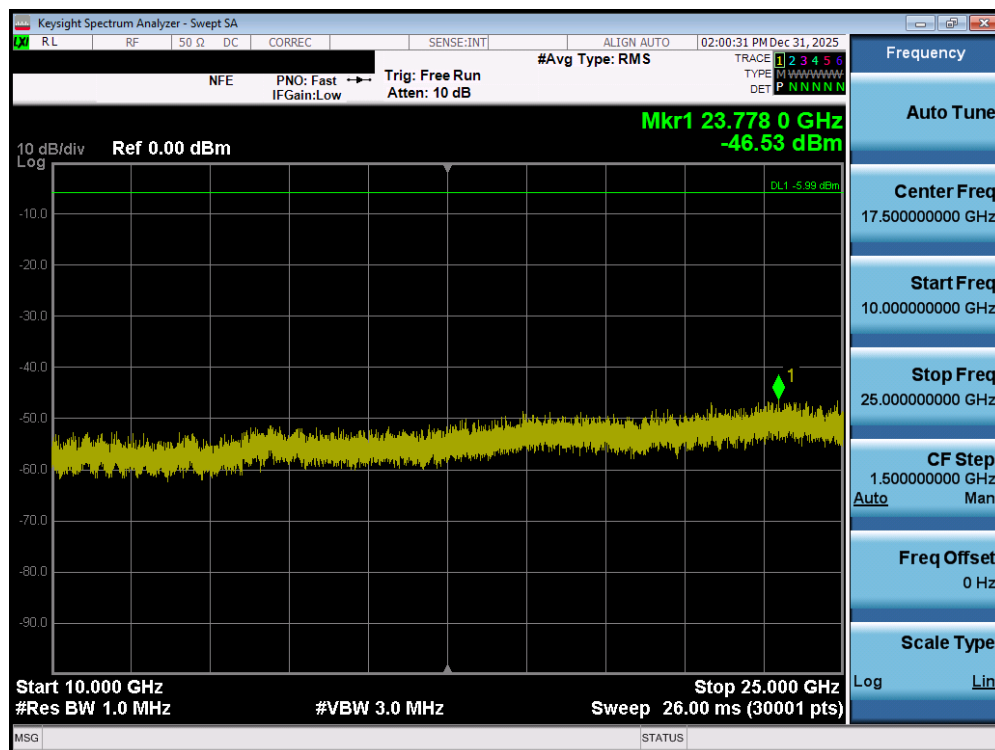


Plot 7-164. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 37) - DUAL ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
Test Report S/N: 1M2511200095-03-R2.C3K	Test Dates: 12/16/2025 - 03/05/2026	EUT Type: Portable Computing Device	Page 113 of 137

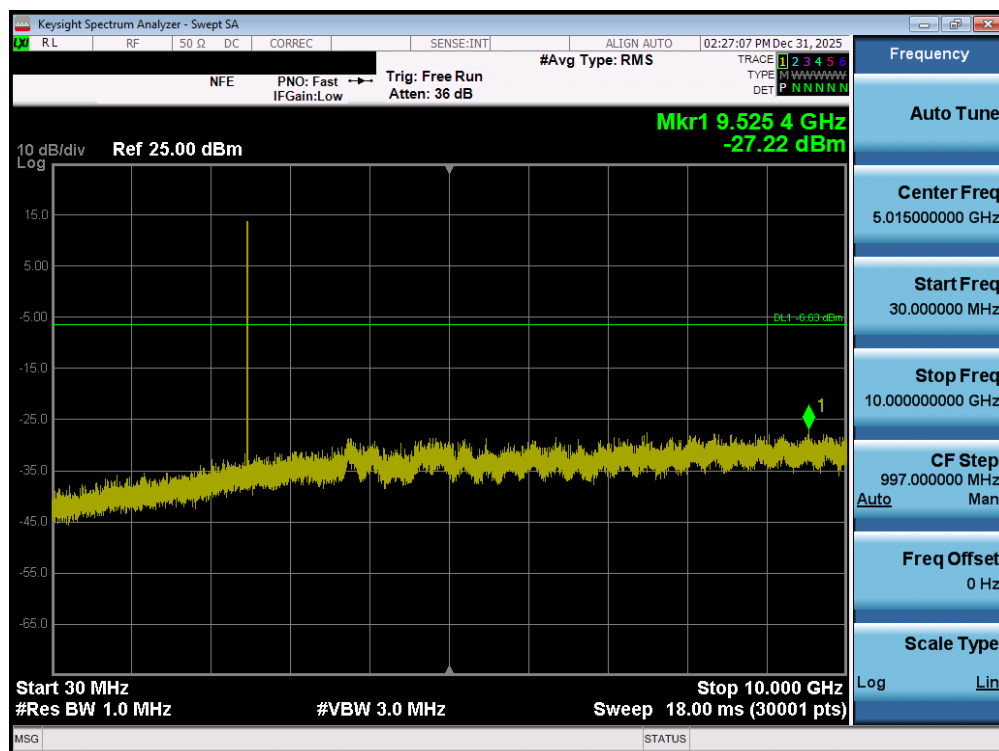


Plot 7-165. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 17) - DUAL ANT2

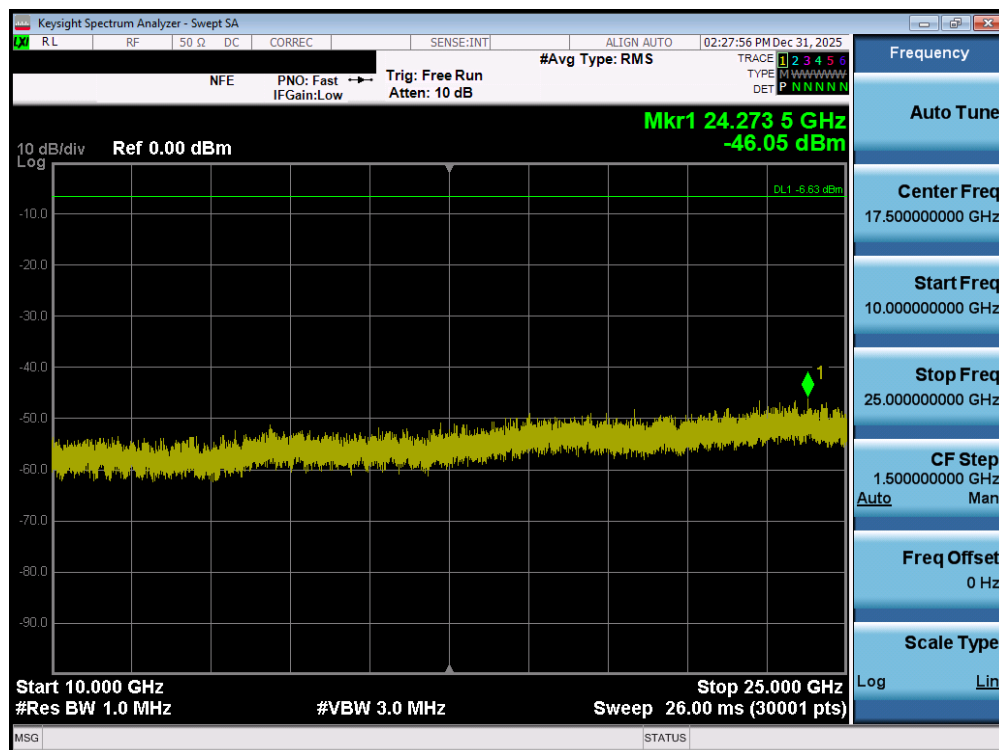


Plot 7-166. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps - Ch. 17) - DUAL ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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Plot 7-167. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 39) – DUAL ANT2



Plot 7-168. 6dB Bandwidth Plot (Bluetooth (LE), 1Mbps – Ch. 39) – DUAL ANT2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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7.7 Radiated Spurious Emission Measurements

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 maximum power and at the appropriate frequencies. 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 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-13 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-13. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – Section 6.6.4.3

KDB 558074 D01 v05r02 – Section 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 = 3kHz > 1/T
4. Averaging type was set to RMS to ensure that video filtering was applied in the power domain
5. Detector = peak
6. Sweep time = auto
7. Trace mode = max hold
8. Trace was allowed to run for at least 50 times (1/duty cycle) traces

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Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW is set depending on measurement frequency, as specified in Table 7-14 below
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Frequency	RBW
9 – 150kHz	200 – 300Hz
0.15 – 30MHz	9 – 10kHz
30 – 1000MHz	100 – 120kHz
> 1000MHz	1MHz

Table 7-14. RBW as a Function of Frequency

Test Setup

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

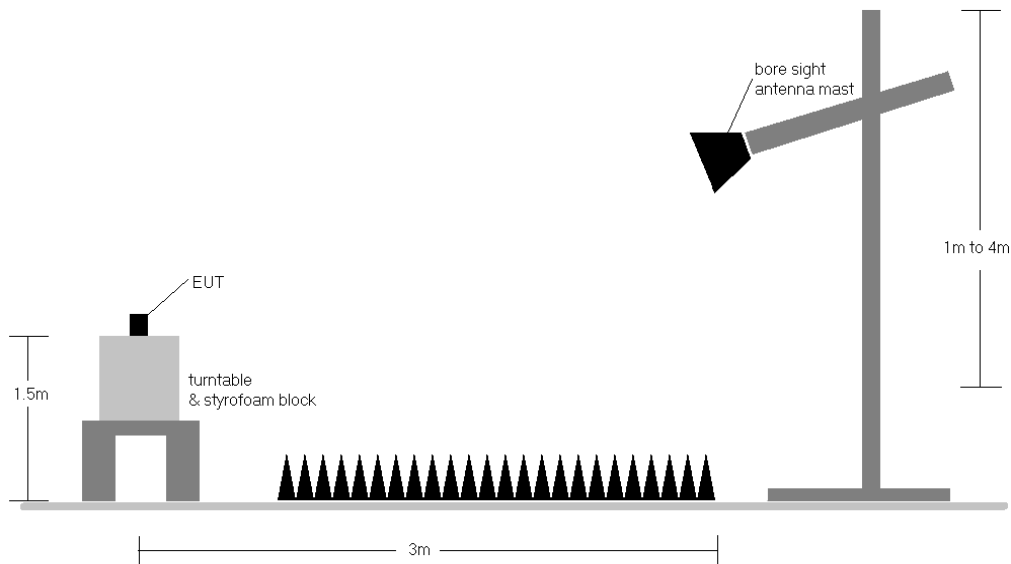


Figure 7-6. Radiated Test Setup >1GHz

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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 §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-13.
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. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Average measurements were recorded using a VBW of 3kHz, per Section 4.1.4.2.3 of ANSI C63.10-2020, since 1/T is equal to just under 3kHz. This method was used because the EUT could not be configured to operate with a duty cycle > 98%. Both average and peak measurements were made using a peak detector
7. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
8. No significant radiated band edge emissions were found in the 2310 – 2390MHz restricted band.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

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

Radiated Band Edge Measurement Offset

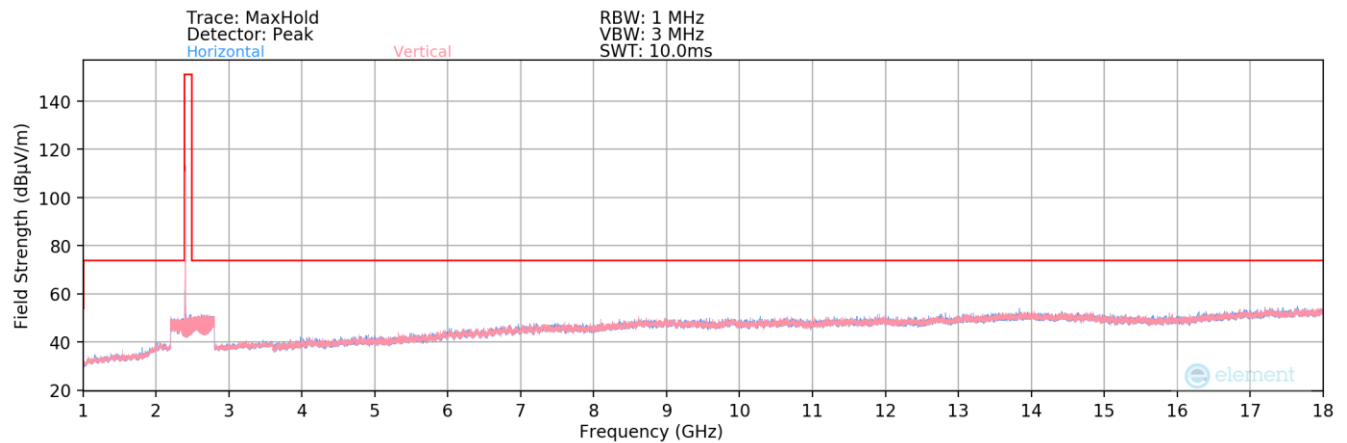
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.8 was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

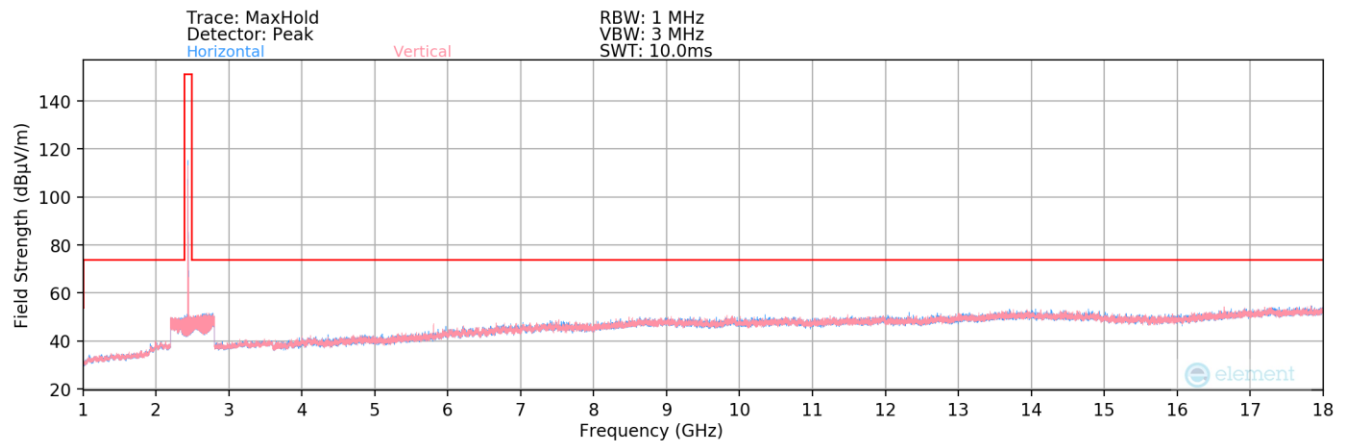
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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Radiated Spurious Emission Measurements – Ant 1

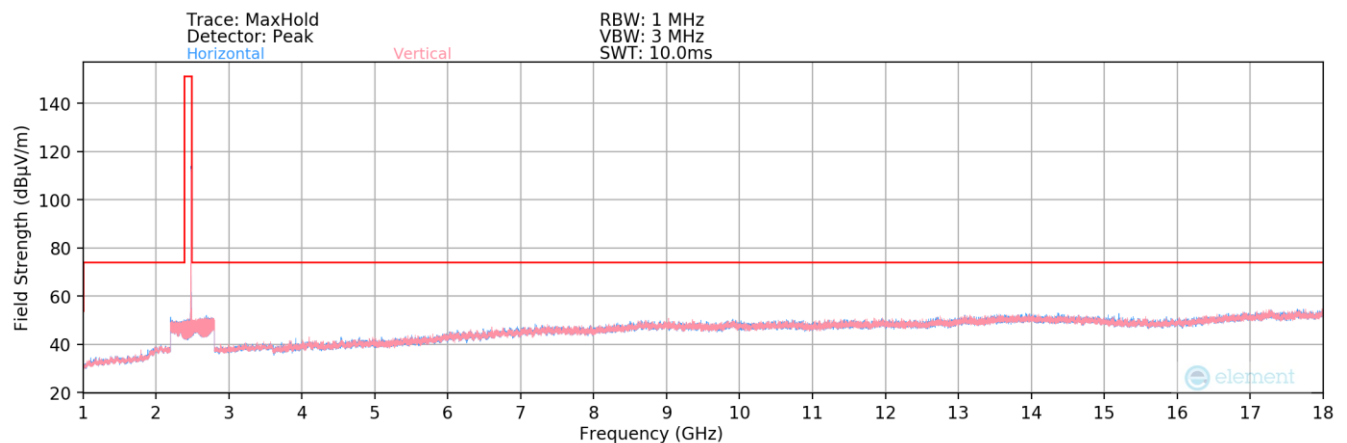
§15.205 §15.209 §15.247(d)



Plot 7-169. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 37) – Ant 1



Plot 7-170. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 17) – Ant 1



Plot 7-171. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 39) – Ant 1

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Radiated Spurious Emission Measurements

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

SISO ANT1

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2402MHz
Channel: 37

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]
4804.00	Avg	H	-	-	-74.80	2.72	34.92	53.98	-19.06
4804.00	Peak	H	-	-	-70.87	2.72	38.85	73.98	-35.13
12010.00	Avg	H	-	-	-75.37	13.32	44.95	53.98	-9.03
12010.00	Peak	H	-	-	-72.37	13.32	47.95	73.98	-26.03

Table 7-15. Radiated Measurements @ 3 meters – 1M

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2440MHz
Channel: 17

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]
4880.00	Avg	H	244	245	-74.81	3.10	35.29	53.98	-18.69
4880.00	Peak	H	244	245	-70.17	3.10	39.93	73.98	-34.05
7320.00	Avg	H	-	-	-75.11	9.49	41.38	53.98	-12.60
7320.00	Peak	H	-	-	-71.88	9.49	44.61	73.98	-29.37
12200.00	Avg	H	-	-	-75.44	13.17	44.73	53.98	-9.25
12200.00	Peak	H	-	-	-72.50	13.17	47.67	73.98	-26.31

Table 7-16. Radiated Measurements @ 3 meters – 1M

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2480MHz
Channel: 39

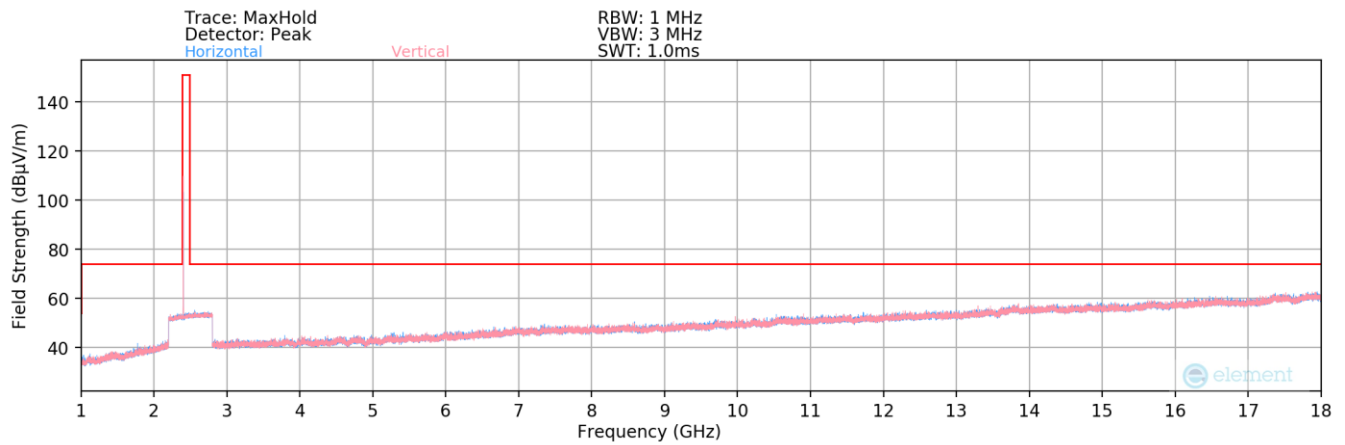
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	H	265	146	-77.27	3.05	32.78	53.98	-21.20
4960.00	Peak	H	265	146	-71.38	3.05	38.67	73.98	-35.31
7440.00	Avg	H	-	-	-74.75	9.19	41.44	53.98	-12.54
7440.00	Peak	H	-	-	-72.16	9.19	44.03	73.98	-29.95
12400.00	Avg	H	-	-	-74.91	13.27	45.36	53.98	-8.62
12400.00	Peak	H	-	-	-72.48	13.27	47.79	73.98	-26.19

Table 7-17. Radiated Measurements @ 3 meters – 1M

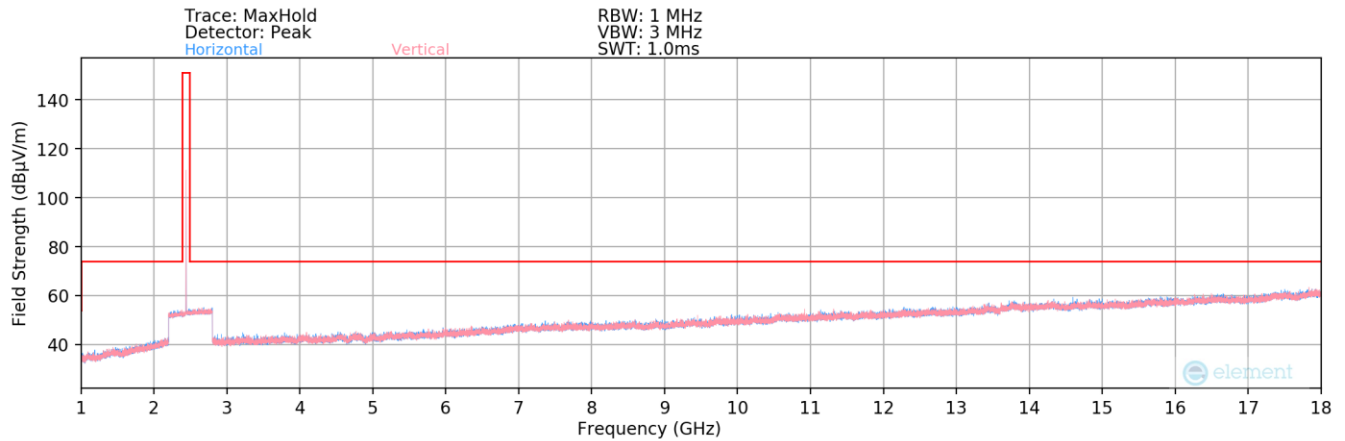
FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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Radiated Spurious Emission Measurements – Ant 2

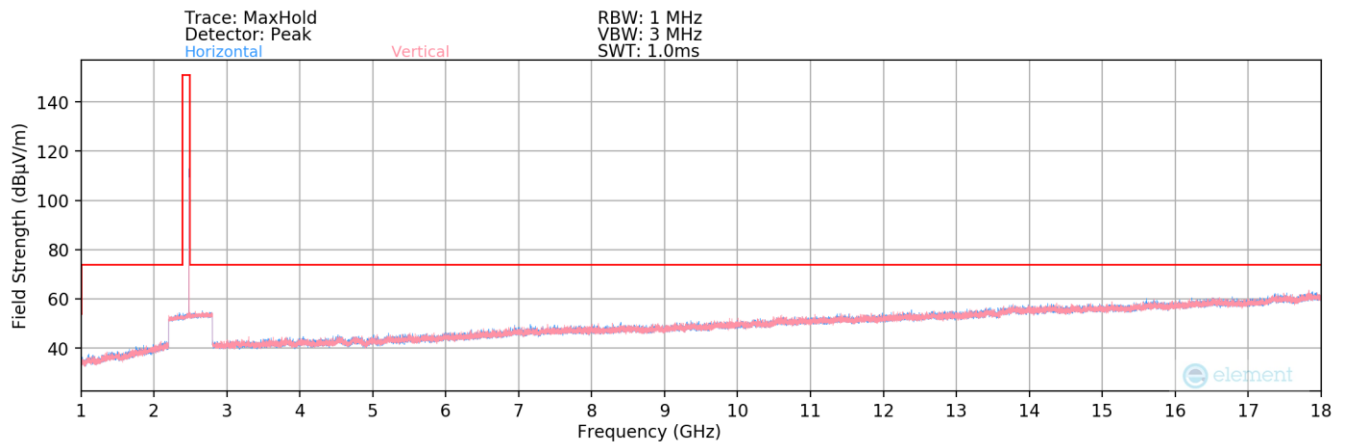
§15.205 §15.209 §15.247(d)



Plot 7-172. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 37) – Ant 2



Plot 7-173. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 17) – Ant 2



Plot 7-174. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 39) – Ant 2

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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SISO ANT2

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2402MHz
Channel: 37

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]
4804.00	Avg	H	-	-	-74.41	2.72	35.31	53.98	-18.67
4804.00	Peak	H	-	-	-71.49	2.72	38.23	73.98	-35.75
12010.00	Avg	H	-	-	-74.90	13.32	45.42	53.98	-8.56
12010.00	Peak	H	-	-	-72.10	13.32	48.22	73.98	-25.76

Table 7-18. Radiated Measurements @ 3 meters – 1M

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2440MHz
Channel: 17

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]
4880.00	Avg	H	-	-	-74.48	3.10	35.62	53.98	-18.36
4880.00	Peak	H	-	-	-71.93	3.10	38.17	73.98	-35.81
7320.00	Avg	H	148	254	-74.37	9.49	42.12	53.98	-11.86
7320.00	Peak	H	148	254	-69.60	9.49	46.89	73.98	-27.09
12200.00	Avg	H	-	-	-74.98	13.17	45.19	53.98	-8.79
12200.00	Peak	H	-	-	-72.04	13.17	48.13	73.98	-25.85

Table 7-19. Radiated Measurements @ 3 meters – 1M

FCC ID: C3K2085 IC: 3048A-2085	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Technical Manager
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Bluetooth Mode: LE
 Distance of Measurements: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 39

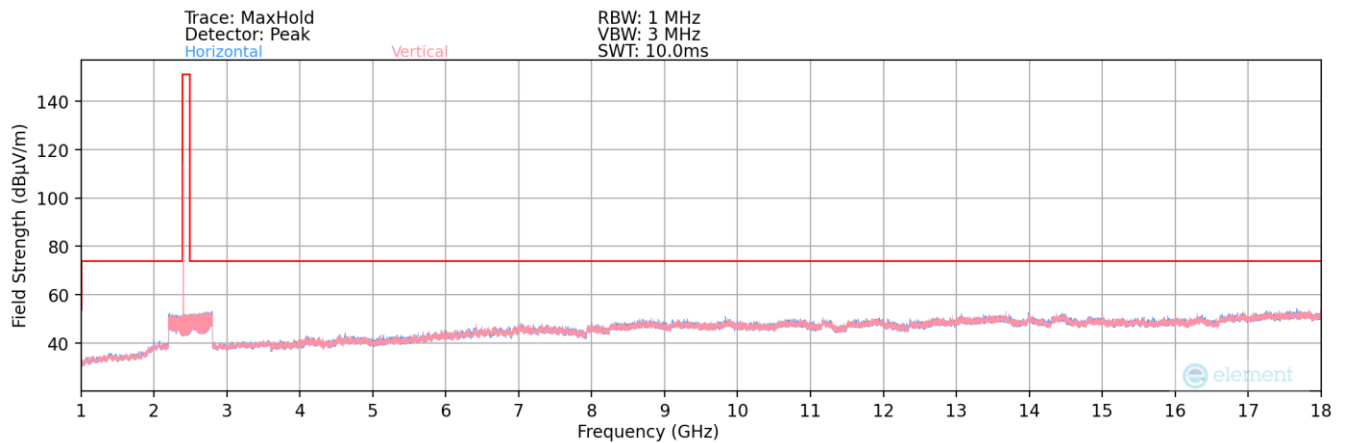
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	H	-	-	-74.33	3.05	35.72	53.98	-18.26
4960.00	Peak	H	-	-	-71.66	3.05	38.39	73.98	-35.59
7440.00	Avg	H	367	185	-74.40	9.19	41.79	53.98	-12.19
7440.00	Peak	H	367	185	-70.44	9.19	45.75	73.98	-28.23
12400.00	Avg	H	-	-	-74.88	13.27	45.39	53.98	-8.59
12400.00	Peak	H	-	-	-72.53	13.27	47.74	73.98	-26.24

Table 7-20. Radiated Measurements @ 3 meters – 1M

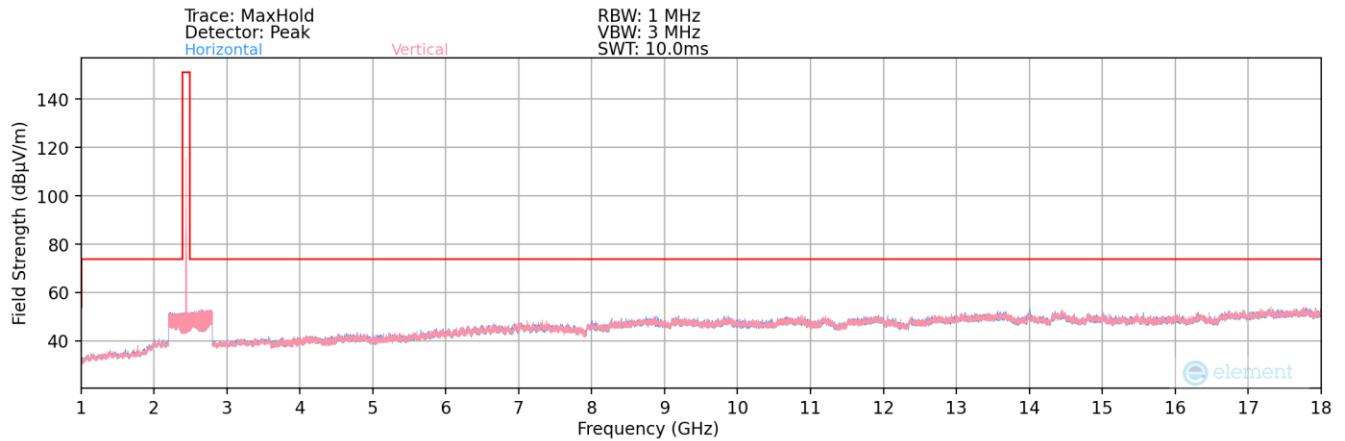
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Radiated Spurious Emission Measurements – DUAL

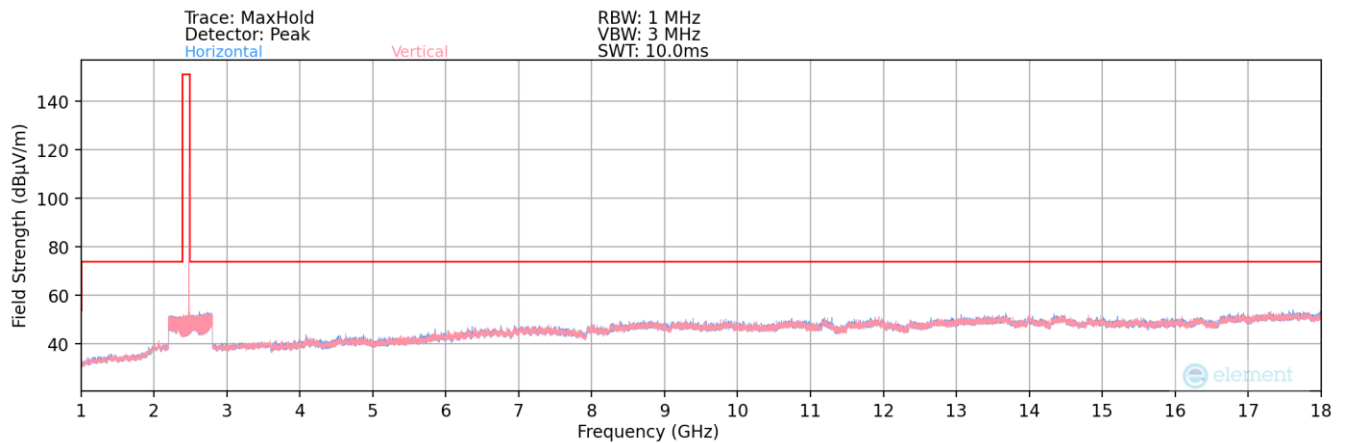
§15.205 §15.209 §15.247(d)



Plot 7-175. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 37) – DUAL



Plot 7-176. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 17) – DUAL



Plot 7-177. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 39) – DUAL

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DUAL

Bluetooth Mode: LE
 Distance of Measurements: 3 Meters
 Operating Frequency: 2402MHz
 Channel: 37

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]
4804.00	Avg	H	388	240	-73.85	2.72	35.87	53.98	-18.11
4804.00	Peak	H	388	240	-69.82	2.72	39.90	73.98	-34.08
12010.00	Avg	H	-	-	-74.92	13.32	45.40	53.98	-8.58
12010.00	Peak	H	-	-	-71.96	13.32	48.36	73.98	-25.62

Table 7-21. Radiated Measurements @ 3 meters – 1M

Bluetooth Mode: LE
 Distance of Measurements: 3 Meters
 Operating Frequency: 2440MHz
 Channel: 17

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]
4880.00	Avg	H	292	157	-74.28	3.10	35.82	53.98	-18.16
4880.00	Peak	H	292	157	-70.94	3.10	39.16	73.98	-34.82
7320.00	Avg	H	308	228	-74.59	9.49	41.90	53.98	-12.08
7320.00	Peak	H	308	228	-71.42	9.49	45.07	73.98	-28.91
12200.00	Avg	H	-	-	-74.99	13.17	45.18	53.98	-8.80
12200.00	Peak	H	-	-	-72.52	13.17	47.65	73.98	-26.33

Table 7-22. Radiated Measurements @ 3 meters – 1M

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Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2480MHz
Channel: 39

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]
4960.00	Avg	H	384	242	-74.01	3.05	36.04	53.98	-17.94
4960.00	Peak	H	384	242	-70.38	3.05	39.67	73.98	-34.31
7440.00	Avg	H	141	250	-74.57	9.19	41.62	53.98	-12.36
7440.00	Peak	H	141	250	-71.09	9.19	45.10	73.98	-28.88
12400.00	Avg	H	-	-	-74.88	13.27	45.39	53.98	-8.59
12400.00	Peak	H	-	-	-72.43	13.27	47.84	73.98	-26.14

Table 7-23. Radiated Measurements @ 3 meters – 1M

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7.8 Radiated Spurious Emissions Measurements – Below 1GHz

Test Overview and Limit

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-24 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-24. 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

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Test Setup

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

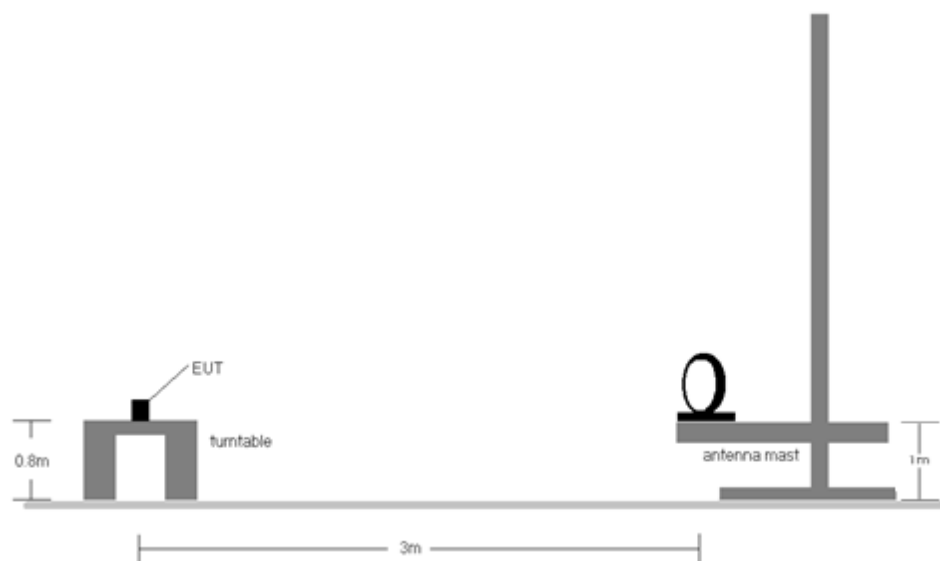


Figure 7-7. Radiated Test Setup < 30Mhz

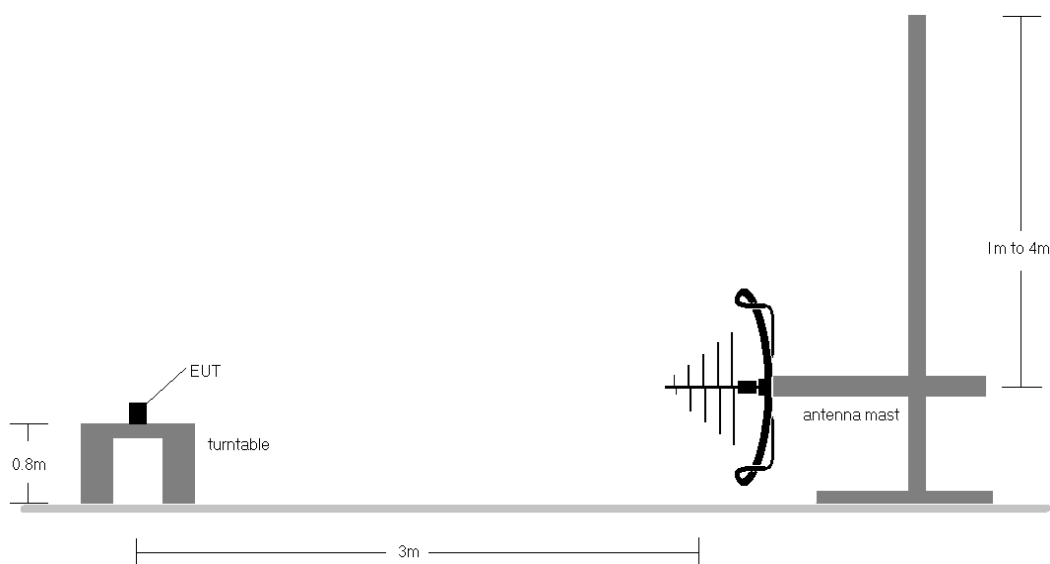


Figure 7-8. Radiated Test Setup < 1GHz

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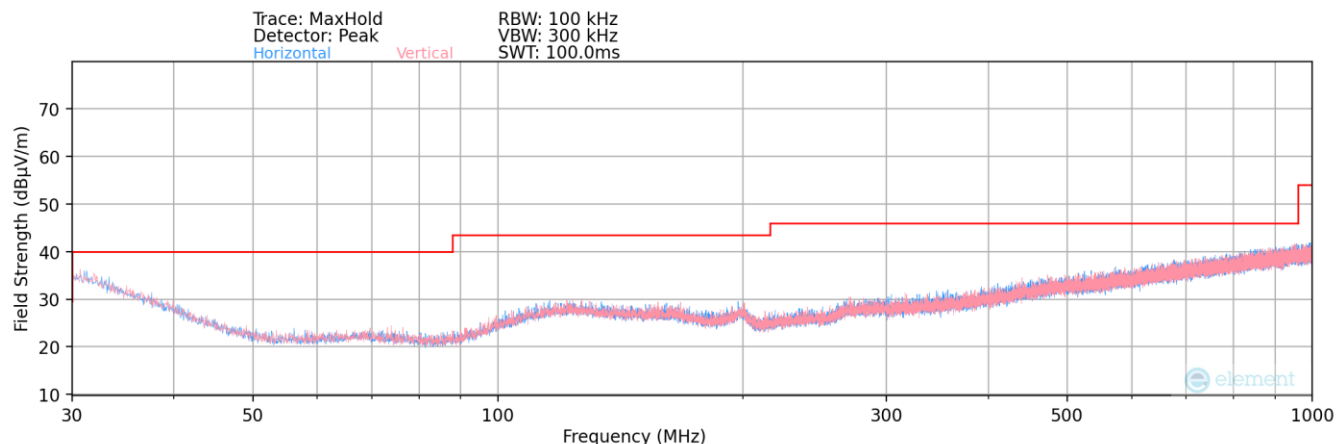
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-24.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
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. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

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Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-178. Radiated Spurious Plot below 1GHz

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]
74.80	Quasi-Peak	V	-	-	-92.66	14.43	28.77	40.00	-11.23
141.40	Quasi-Peak	V	-	-	-94.32	19.56	32.24	43.52	-11.28
352.70	Quasi-Peak	H	-	-	-93.59	22.00	35.41	46.02	-10.61

Table 7-25. Radiated Spurious Emissions Below 1GHz

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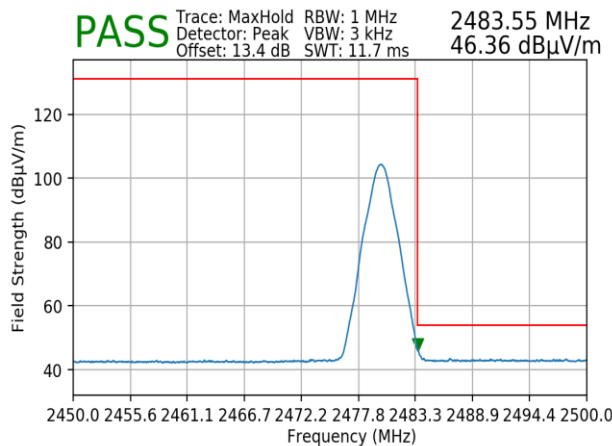
7.9 Radiated Restricted Band Edge Measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

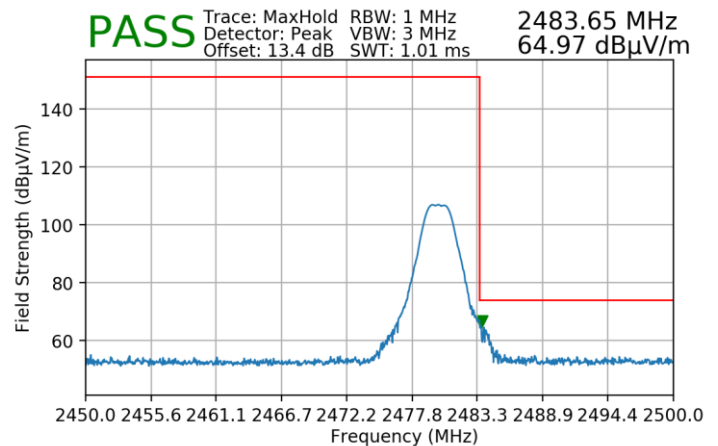
The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

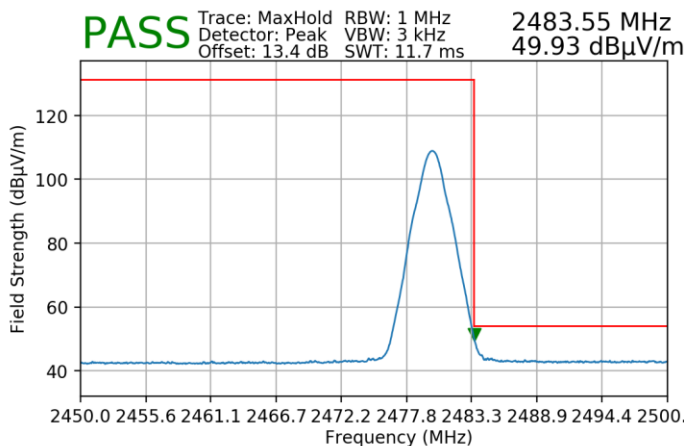
Bluetooth Mode:	LE
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	39



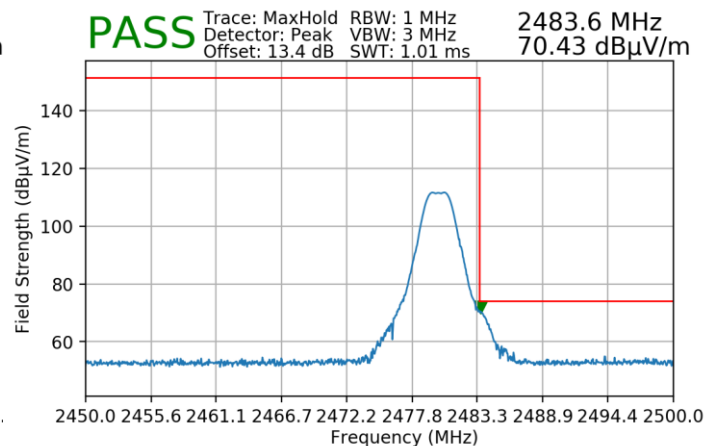
Plot 7-179. Radiated Restricted Upper Band Edge Measurement (Average) – SISO ANT1 – 2M



Plot 7-180. Radiated Restricted Upper Band Edge Measurement (Peak) – SISO ANT1 – 2M

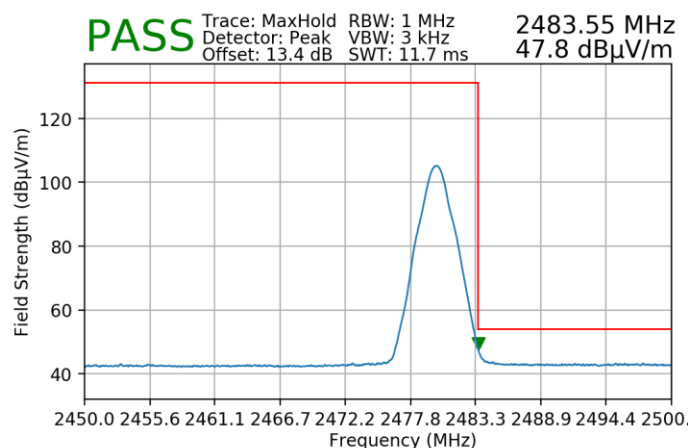


Plot 7-181. Radiated Restricted Upper Band Edge Measurement (Average) – SISO ANT2 – 2M

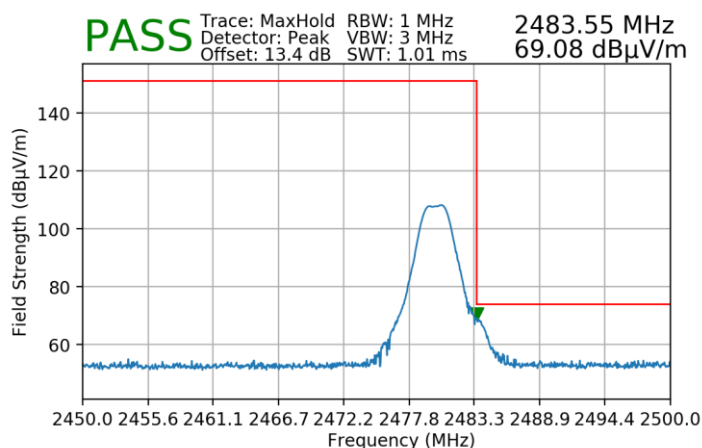


Plot 7-182. Radiated Restricted Upper Band Edge Measurement (Peak) – SISO ANT2 – 2M

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Plot 7-183. Radiated Restricted Upper Band Edge Measurement (Average) – DUAL – 2M



Plot 7-184. Radiated Restricted Upper Band Edge Measurement (Peak) – DUAL – 2M

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7.10 Line-Conducted Test Data

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 conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (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 7-26. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, Section 6.2

Test Settings

Quasi-Peak Field Strength 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 Field Strength Measurements

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

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Test Setup

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

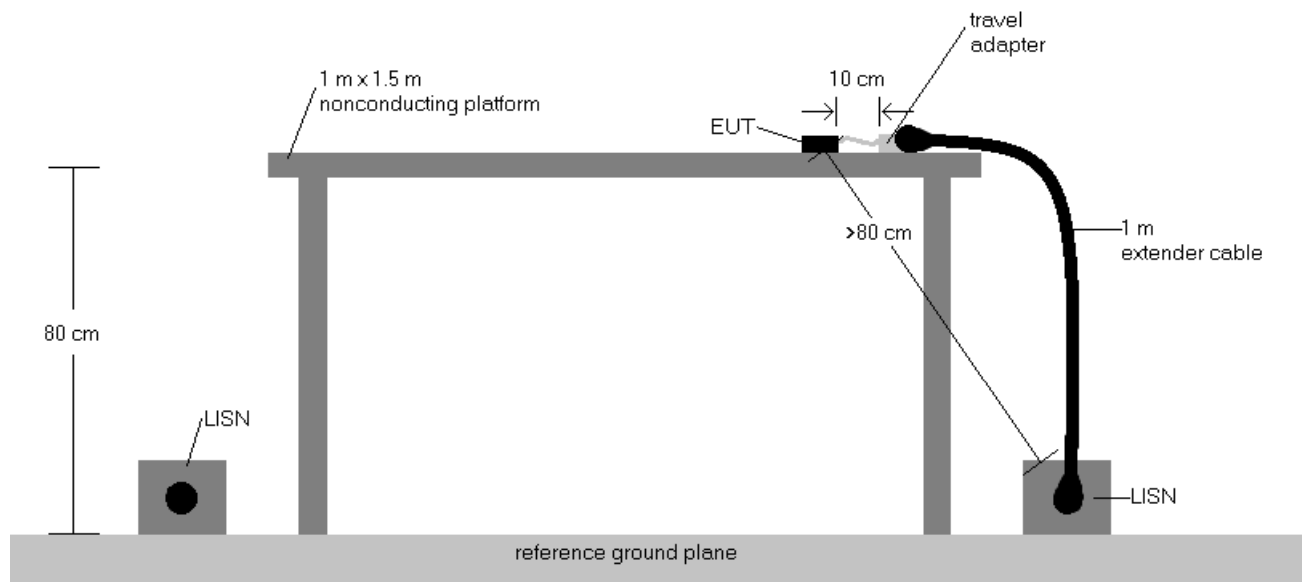
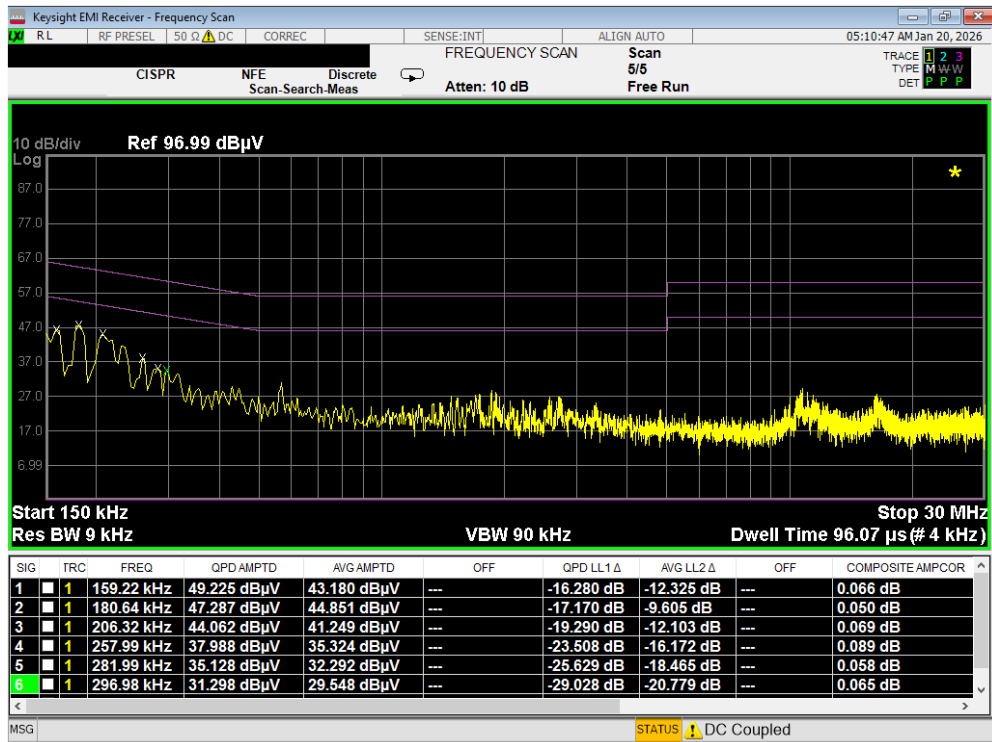


Figure 7-9. Test Instrument & Measurement Setup

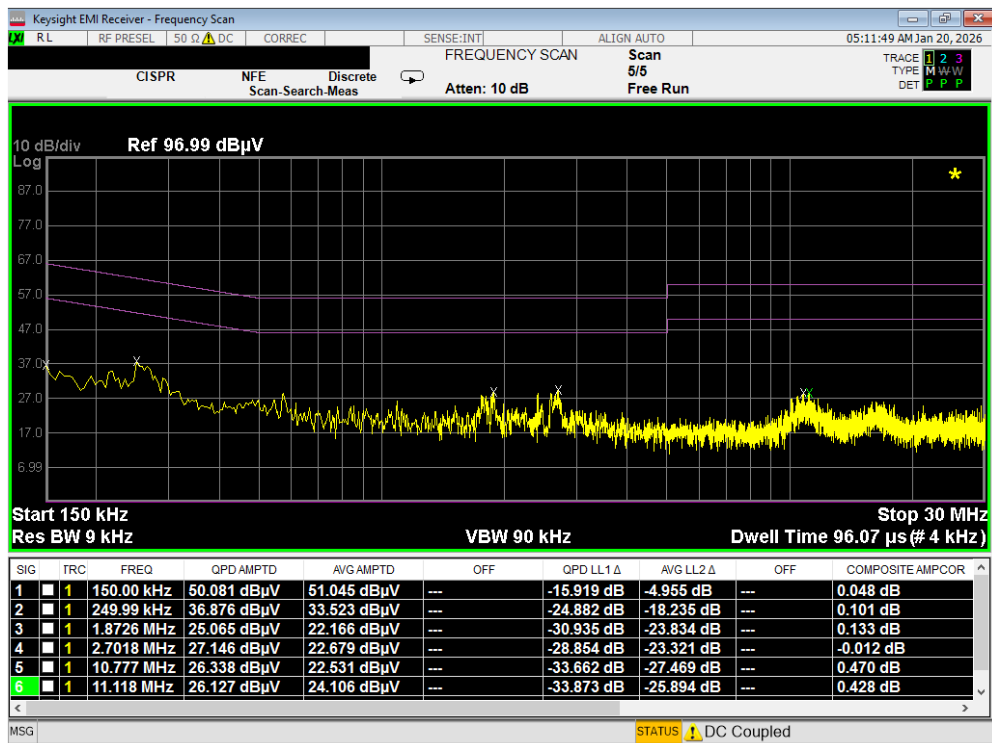
Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen (8.8).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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Plot 7-185. Line Conducted Plot with Bluetooth LE (L1)



Plot 7-186. Line Conducted Plot with Bluetooth LE (N)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Microsoft Corporation Portable Computing Device FCC ID: C3K2085 / IC: 3048A-2085** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and with RSS-247 of the Innovation, Science, and Economic Development Canada Rules. After additional testing it is concluded that the component change detailed in the FCC Change Document does not meaningfully affect compliance.

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