

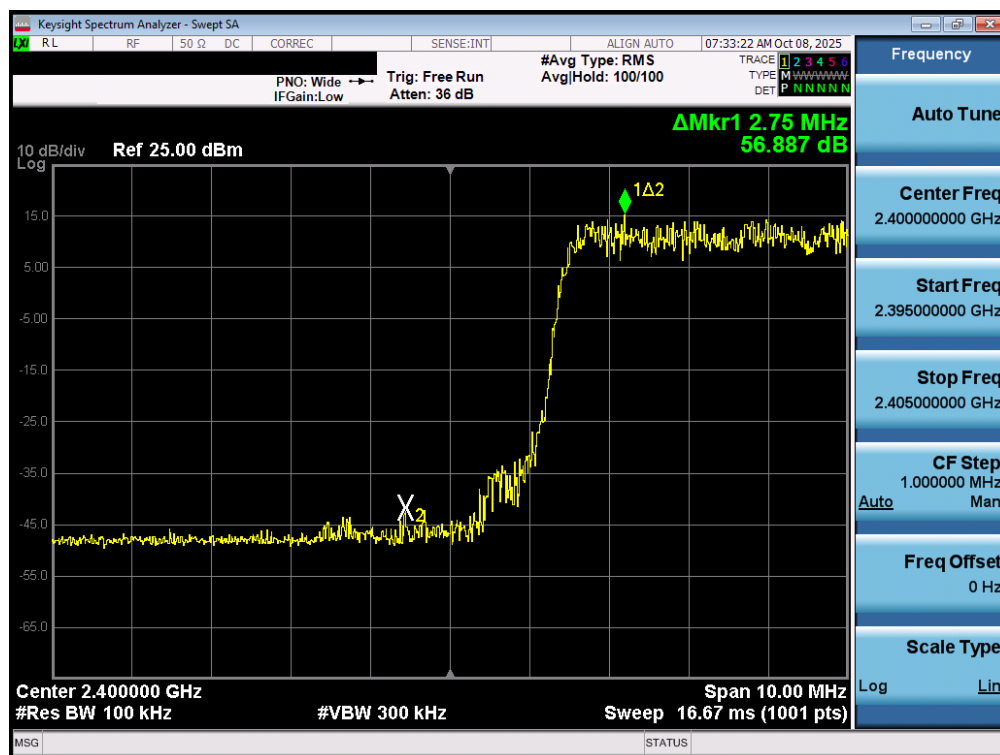


Plot 7-109. Band Edge Plot (Bluetooth with Hopping Disabled, 3 Mbps – Ch. 0) – Ant 1

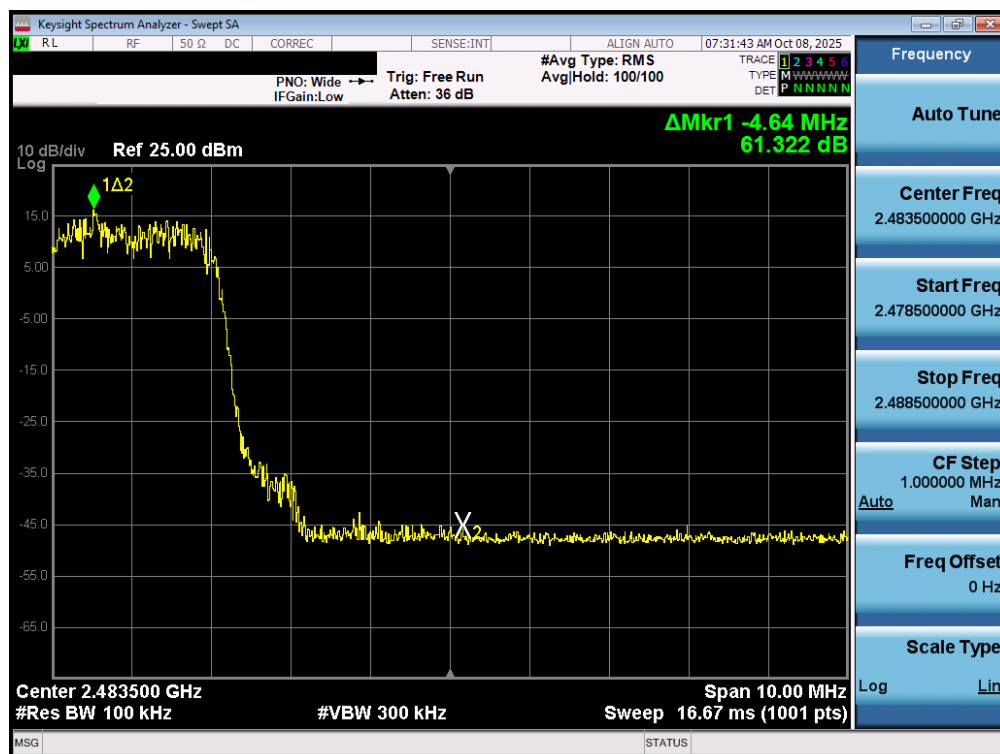


Plot 7-110. Band Edge Plot (Bluetooth with Hopping Disabled, 3 Mbps – Ch. 78) – Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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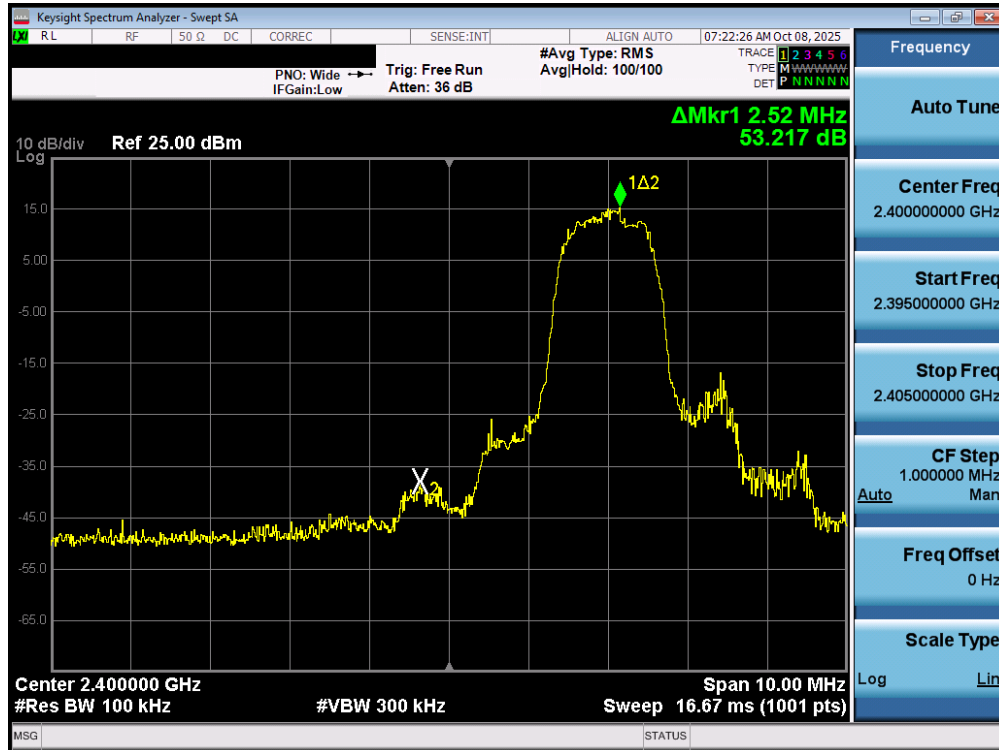


Plot 7-111. Band Edge Plot (Bluetooth with Hopping Enabled, 3 Mbps) – Ant 1

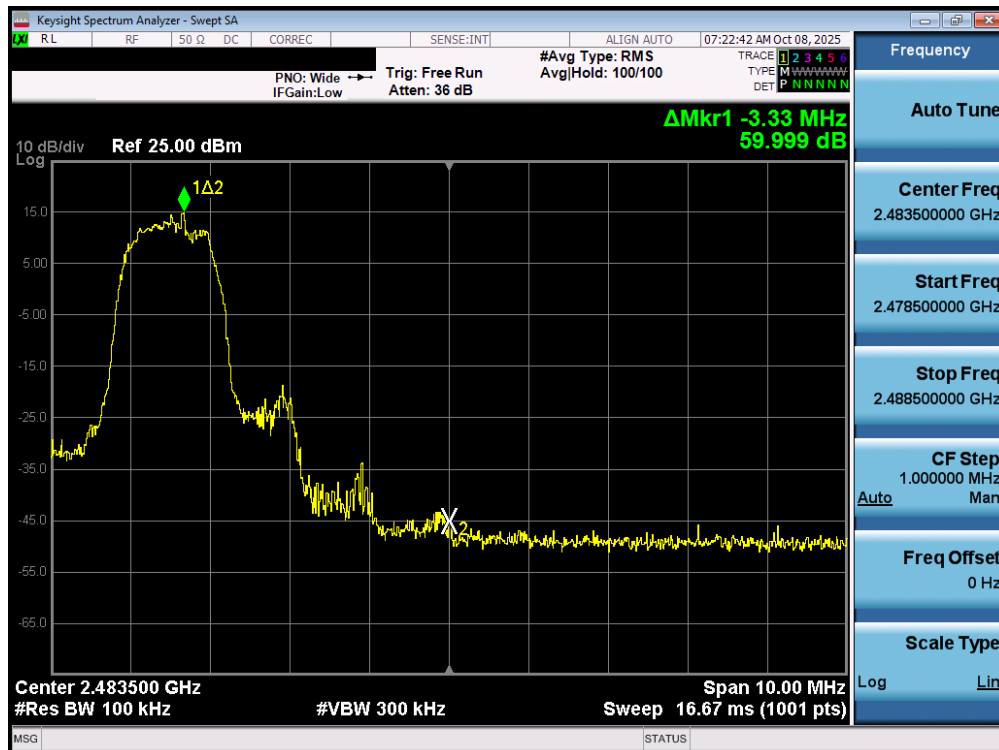


Plot 7-112. Band Edge Plot (Bluetooth with Hopping Enabled, 3 Mbps) – Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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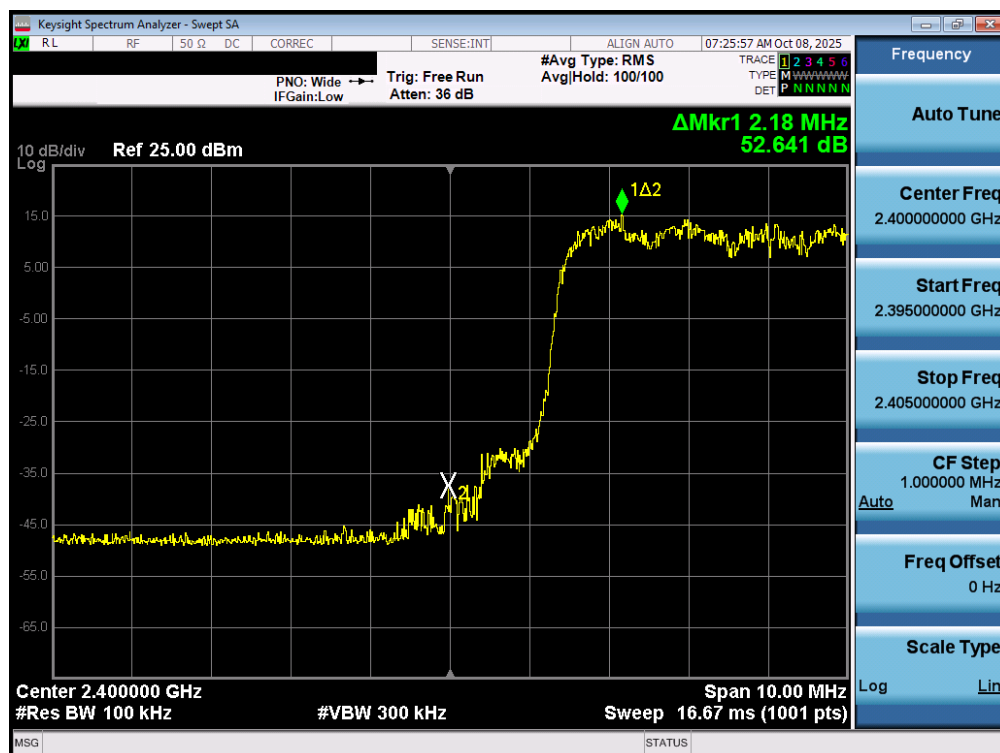


Plot 7-113. Band Edge Plot (Bluetooth with Hopping Disabled, 3 Mbps – Ch. 0) – Ant 2



Plot 7-114. Band Edge Plot (Bluetooth with Hopping Disabled, 3 Mbps – Ch. 78) – Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-115. Band Edge Plot (Bluetooth with Hopping Enabled, 3 Mbps) – Ant 2



Plot 7-116. Band Edge Plot (Bluetooth with Hopping Enabled, 3 Mbps) – Ant 2

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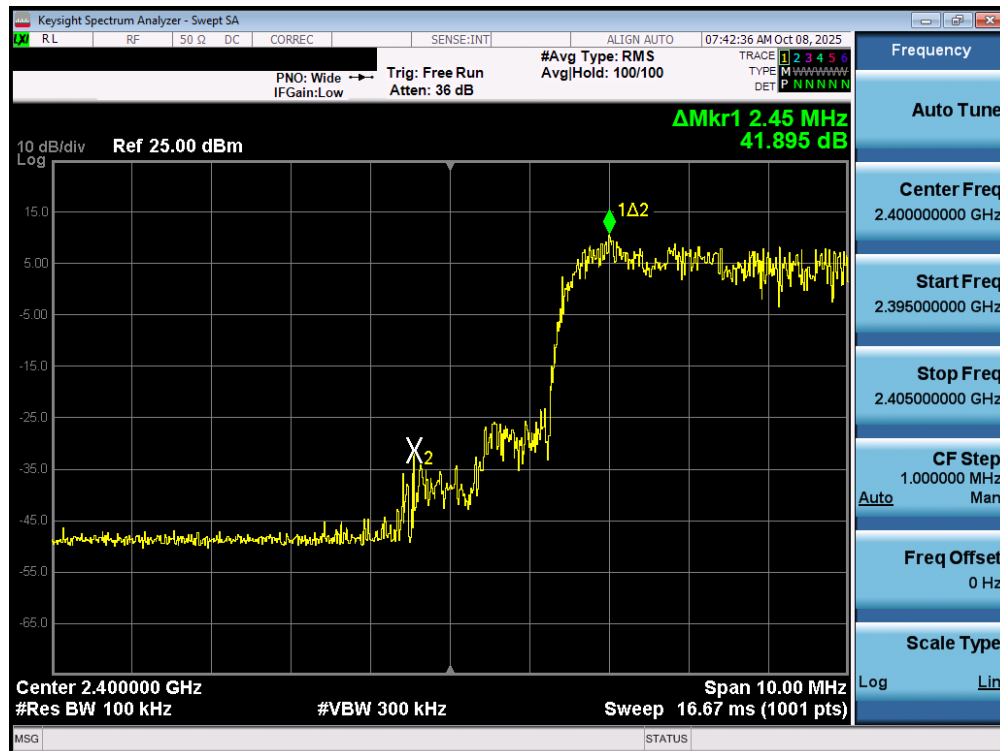


Plot 7-117. Band Edge Plot (Bluetooth with Hopping Disabled, 3 Mbps – Ch. 0) – Dual Ant 1



Plot 7-118. Band Edge Plot (Bluetooth with Hopping Disabled, 3 Mbps – Ch. 78) – Dual Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-121. Band Edge Plot (Bluetooth with Hopping Disabled, 3 Mbps – Ch. 0) – Dual Ant 2



Plot 7-122. Band Edge Plot (Bluetooth with Hopping Disabled, 3 Mbps – Ch. 78) – Dual Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-123. Band Edge Plot (Bluetooth with Hopping Enabled, 3 Mbps) – Dual Ant 2



Plot 7-124. Band Edge Plot (Bluetooth with Hopping Enabled, 3 Mbps) – Dual Ant 2

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7.5 Carrier Frequency Separation

Test Overview and Limit

Measurement is made with EUT operating in hopping mode. ***The minimum permissible channel separation for this system is 2/3 the value of the 20dB BW.***

Test Procedure Used

ANSI C63.10:2020 – Section 7.8.2

Test Settings

1. Span = Wide enough to capture peaks of two adjacent channels
2. RBW = 30% of channel spacing. Adjust as necessary to best identify center of each individual channel
3. VBW $\geq$ RBW
4. Sweep = Auto
5. Detector = Peak
6. Trace mode = max hold
7. The trace was allowed to stabilize.
8. Marker-delta function used to determine separation between peaks of the adjacent channels

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

The EUT complies with the minimum channel separation requirement when it is operating in 1x/EDR mode using 79 channels and when operating in AFH mode using 20 channels.

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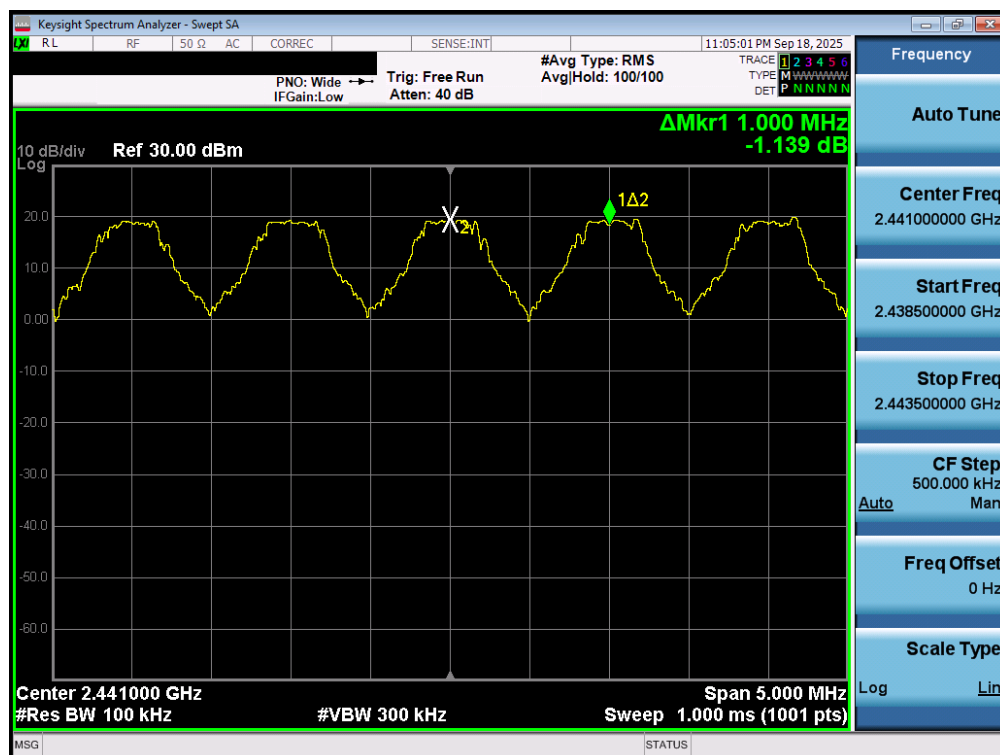
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Min. Channel Separation [MHz]
2402	1.0	0	0.622
2441	1.0	39	0.628
2480	1.0	78	0.616
2402	2.0	0	0.838
2441	2.0	39	0.836
2480	2.0	78	0.889
2402	3.0	0	0.871
2441	3.0	39	0.898
2480	3.0	78	0.880

Table 7-9. Minimum Channel Separation – Ant 1

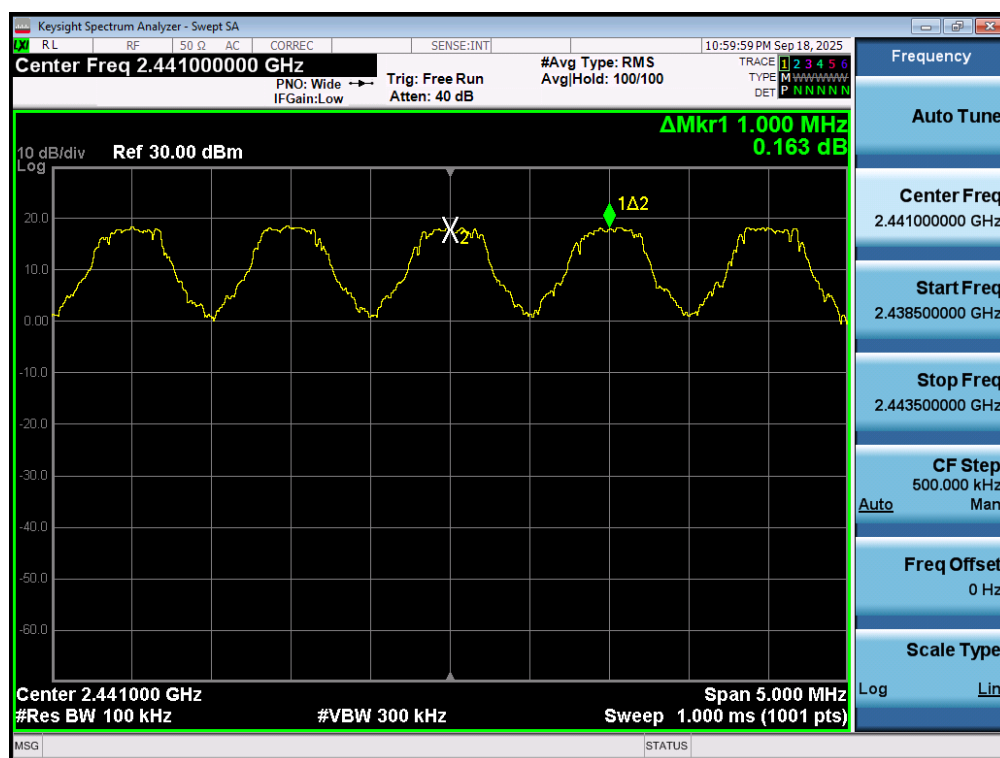
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Min. Channel Separation [MHz]
2402	1.0	0	0.626
2441	1.0	39	0.621
2480	1.0	78	0.618
2402	2.0	0	0.879
2441	2.0	39	0.895
2480	2.0	78	0.877
2402	3.0	0	0.879
2441	3.0	39	0.888
2480	3.0	78	0.893

Table 7-10. Minimum Channel Separation – Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-125. Channel Spacing Plot (Bluetooth) – Ant 1



Plot 7-126. Channel Spacing Plot (Bluetooth) – Ant 2

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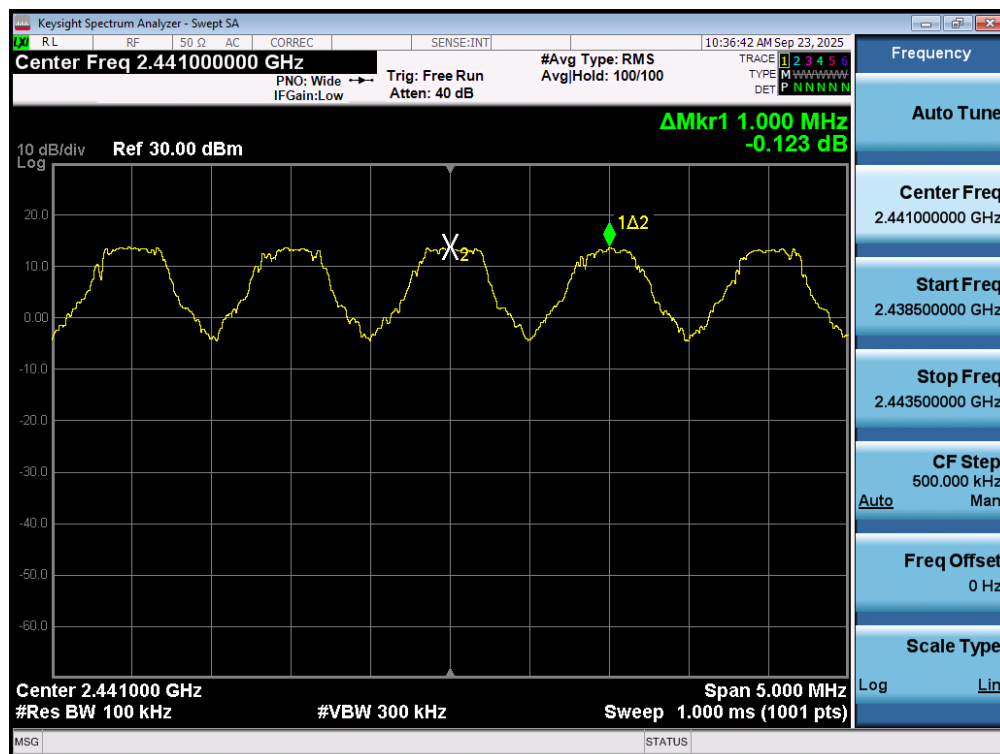
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Min. Channel Separation [MHz]
2402	1.0	0	0.628
2441	1.0	39	0.631
2480	1.0	78	0.629
2402	2.0	0	0.888
2441	2.0	39	0.883
2480	2.0	78	0.870
2402	3.0	0	0.835
2441	3.0	39	0.895
2480	3.0	78	0.896

Table 7-11. Minimum Channel Separation – Dual Ant 1

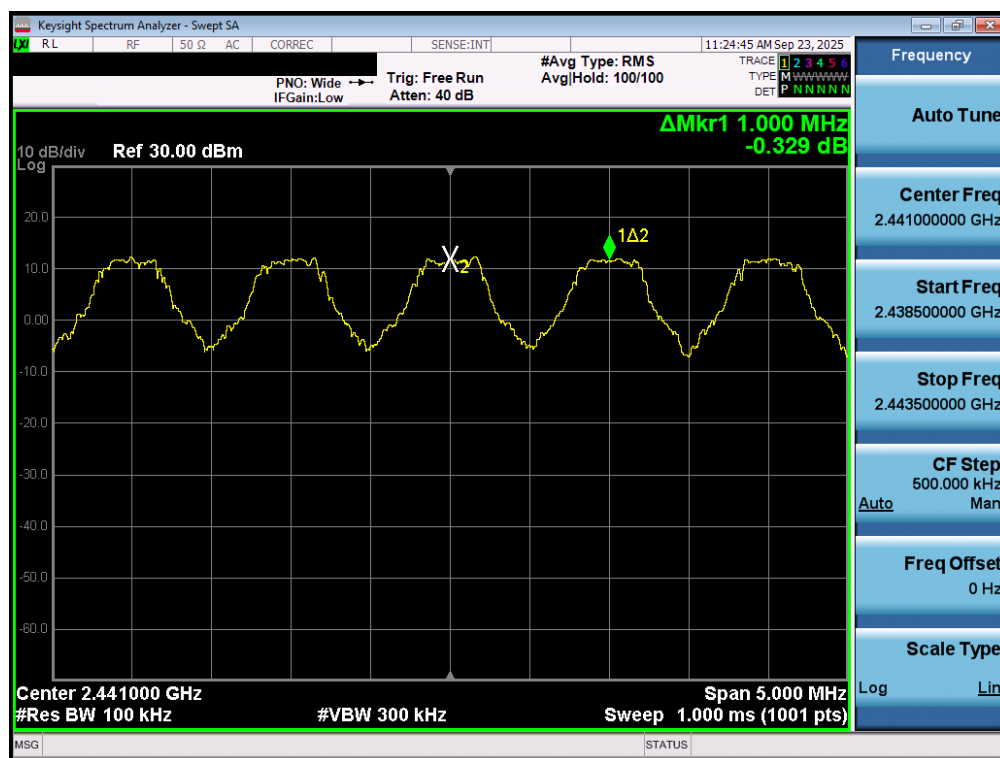
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Min. Channel Separation [MHz]
2402	1.0	0	0.617
2441	1.0	39	0.612
2480	1.0	78	0.627
2402	2.0	0	0.905
2441	2.0	39	0.845
2480	2.0	78	0.900
2402	3.0	0	0.891
2441	3.0	39	0.882
2480	3.0	78	0.864

Table 7-12. Minimum Channel Separation – Dual Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-127. Channel Spacing Plot (Bluetooth) – Dual Ant 1



Plot 7-128. Channel Spacing Plot (Bluetooth) – Dual Ant 2

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7.6 Time of Occupancy

Test Overview and Limit

Measurement is made while EUT is operating in hopping mode with the spectrum analyzer set to zero span. ***The maximum permissible time of occupancy is 400 ms within a period of 400ms multiplied by the number of hopping channels employed.***

Test Procedure Used

ANSI C63.10:2020 – Section 7.8.4

Test Settings

1. Span = zero span, centered on a hopping channel
2. RBW $\leq$ channel spacing and $\gg 1/T$, where T is expected dwell time per channel
3. Sweep = as necessary to capture entire dwell time. Second plot may be required to demonstrate two successive hops on a channel
4. Trigger is set with appropriate trigger delay to place pulse near the center of the plot
5. Detector = peak
6. Trace mode = max hold
7. Marker-delta function used to determine transmit time per hop

Test Setup

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

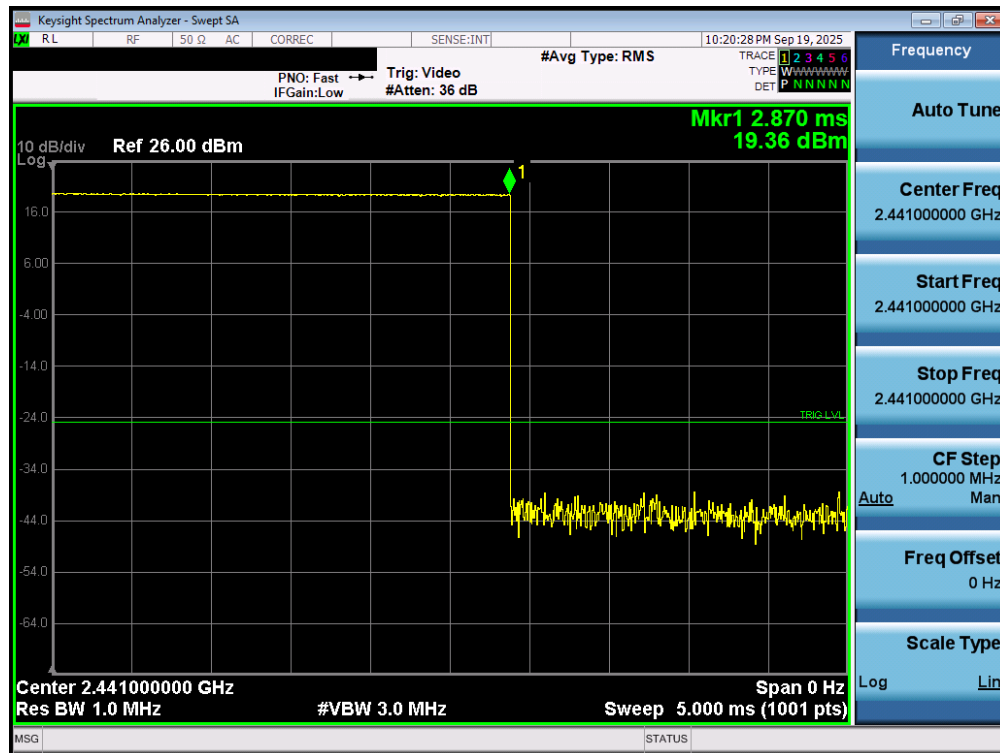


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

None

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Plot 7-129. Time of Occupancy Plot (Bluetooth) – Ant 1

Bluetooth Time of Occupancy Calculation

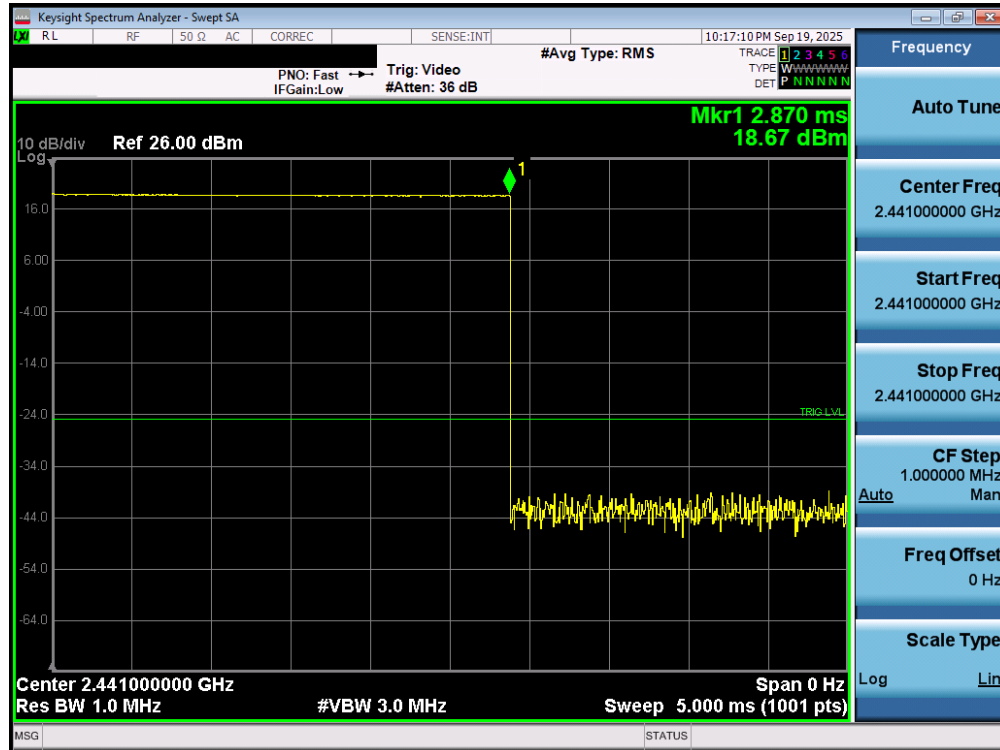
Typically, Bluetooth 1x/EDR mode has a channel hopping rate of 1600 hops/s. Since 1x/EDR modes use 5 transmit and 1 receive slot, for a total of 6 slots, the Bluetooth transmitter is actually hopping at a rate of $1600 / 6 = 266.67$ hops/s/slot

- $400\text{ms} \times 79$ hopping channels = 31.6 sec (Time of Occupancy Limit)
- Worst case BT has 266.67 hops/second (for 1x/EDR modes with DH5 operation)
- $266.67 \text{ hops/second} / 79 \text{ channels} = 3.38 \text{ hops/second}$ (# of hops/second on one channel)
- $3.38 \text{ hops/second/channel} \times 31.6 \text{ seconds} = 106.67 \text{ hops}$ (# hops over a 31.6 second period)
- $106.67 \text{ hops} \times 2.87 \text{ ms/channel} = 306.14 \text{ ms}$ (worst case dwell time for one channel in 1x/EDR modes)

With AFH, the number of channels is reduced to a minimum of 20 channels and the channel hopping rate is reduced by 50% to 800 hops/s. AFH mode also uses 6 total slots so the Bluetooth transmitter hops at a rate of $800 / 6 = 133.3$ hops/s/slot

- $400\text{ms} \times 20$ hopping channels = 8 sec (Time of Occupancy Limit)
- Worst case BT has 133.3 hops/second/slot (for AFH mode with DH5 operation)
- $133.3 \text{ hops/s} / 20 \text{ channels} = 6.67 \text{ hops/second}$ (# of hops/second on one channel)
- $6.67 \text{ hops/s} / \text{channel} \times 8 \text{ seconds} = 53.34 \text{ hops}$ (# hops over a 8 second period)
- $53.34 \text{ hops} \times 2.87 \text{ ms/channel} = 153.03 \text{ ms}$ (worst case dwell time for one channel in AFH mode)

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Plot 7-130. Time of Occupancy Plot (Bluetooth) – Ant 2

Bluetooth Time of Occupancy Calculation

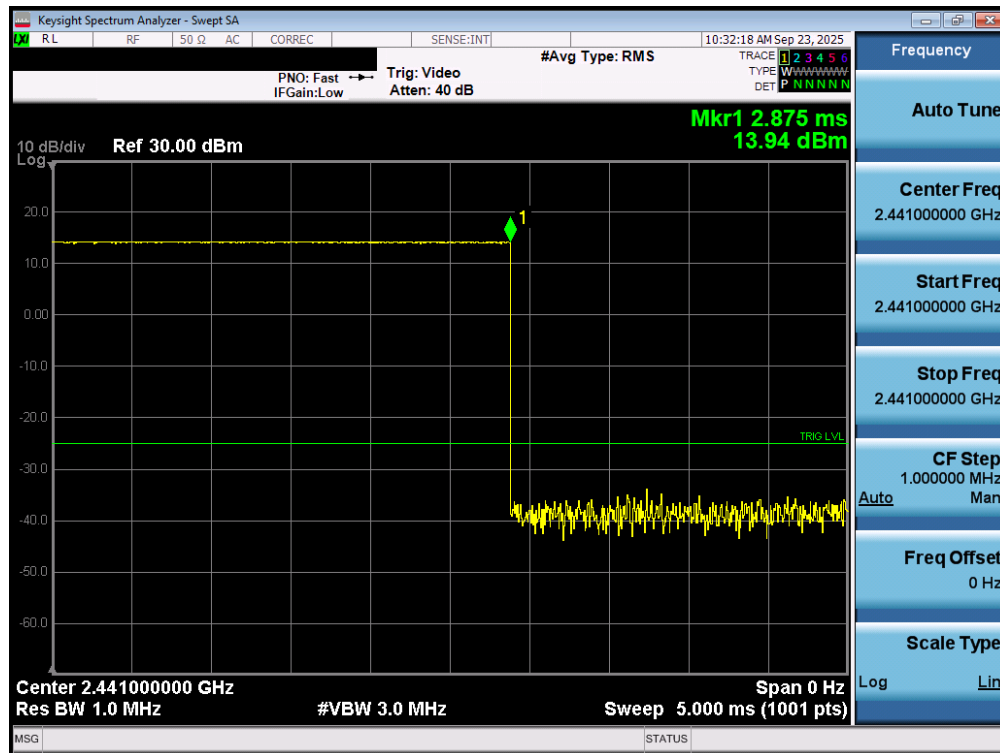
Typically, Bluetooth 1x/EDR mode has a channel hopping rate of 1600 hops/s. Since 1x/EDR modes use 5 transmit and 1 receive slot, for a total of 6 slots, the Bluetooth transmitter is actually hopping at a rate of $1600 / 6 = 266.67$ hops/s/slot

- $400\text{ms} \times 79$ hopping channels = 31.6 sec (Time of Occupancy Limit)
- Worst case BT has 266.67 hops/second (for 1x/EDR modes with DH5 operation)
- $266.67 \text{ hops/second} / 79 \text{ channels} = 3.38 \text{ hops/second}$ (# of hops/second on one channel)
- $3.38 \text{ hops/second/channel} \times 31.6 \text{ seconds} = 106.67 \text{ hops}$ (# hops over a 31.6 second period)
- $106.67 \text{ hops} \times 2.87 \text{ ms/channel} = 306.14 \text{ ms}$ (worst case dwell time for one channel in 1x/EDR modes)

With AFH, the number of channels is reduced to a minimum of 20 channels and the channel hopping rate is reduced by 50% to 800 hops/s. AFH mode also uses 6 total slots so the Bluetooth transmitter hops at a rate of $800 / 6 = 133.3$ hops/s/slot

- $400\text{ms} \times 20$ hopping channels = 8 sec (Time of Occupancy Limit)
- Worst case BT has 133.3 hops/second/slot (for AFH mode with DH5 operation)
- $133.3 \text{ hops/s} / 20 \text{ channels} = 6.67 \text{ hops/second}$ (# of hops/second on one channel)
- $6.67 \text{ hops/s} / \text{channel} \times 8 \text{ seconds} = 53.34 \text{ hops}$ (# hops over a 8 second period)
- $53.34 \text{ hops} \times 2.87 \text{ ms/channel} = 153.03 \text{ ms}$ (worst case dwell time for one channel in AFH mode)

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Plot 7-131. Time of Occupancy Plot (Bluetooth) – Dual Ant 1

Bluetooth Time of Occupancy Calculation

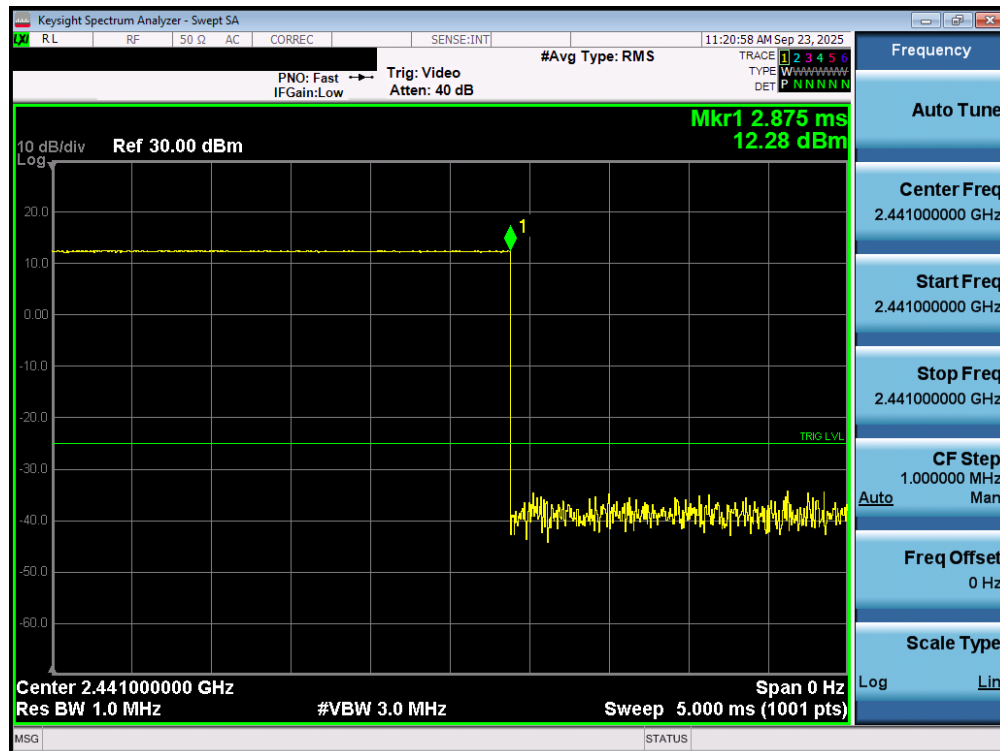
Typically, Bluetooth 1x/EDR mode has a channel hopping rate of 1600 hops/s. Since 1x/EDR modes use 5 transmit and 1 receive slot, for a total of 6 slots, the Bluetooth transmitter is actually hopping at a rate of $1600 / 6 = 266.67$ hops/s/slot

- $400\text{ms} \times 79$ hopping channels = 31.6 sec (Time of Occupancy Limit)
- Worst case BT has 266.67 hops/second (for 1x/EDR modes with DH5 operation)
- $266.67 \text{ hops/second} / 79 \text{ channels} = 3.38 \text{ hops/second}$ (# of hops/second on one channel)
- $3.38 \text{ hops/second/channel} \times 31.6 \text{ seconds} = 106.67 \text{ hops}$ (# hops over a 31.6 second period)
- $106.67 \text{ hops} \times 2.875 \text{ ms/channel} = 306.67 \text{ ms}$ (worst case dwell time for one channel in 1x/EDR modes)

With AFH, the number of channels is reduced to a minimum of 20 channels and the channel hopping rate is reduced by 50% to 800 hops/s. AFH mode also uses 6 total slots so the Bluetooth transmitter hops at a rate of $800 / 6 = 133.3$ hops/s/slot

- $400\text{ms} \times 20$ hopping channels = 8 sec (Time of Occupancy Limit)
- Worst case BT has 133.3 hops/second/slot (for AFH mode with DH5 operation)
- $133.3 \text{ hops/s} / 20 \text{ channels} = 6.67 \text{ hops/second}$ (# of hops/second on one channel)
- $6.67 \text{ hops/s} / \text{channel} \times 8 \text{ seconds} = 53.34 \text{ hops}$ (# hops over a 8 second period)
- $53.34 \text{ hops} \times 2.875 \text{ ms/channel} = 153.30 \text{ ms}$ (worst case dwell time for one channel in AFH mode)

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Plot 7-132. Time of Occupancy Plot (Bluetooth) – Dual Ant 2

Bluetooth Time of Occupancy Calculation

Typically, Bluetooth 1x/EDR mode has a channel hopping rate of 1600 hops/s. Since 1x/EDR modes use 5 transmit and 1 receive slot, for a total of 6 slots, the Bluetooth transmitter is actually hopping at a rate of $1600 / 6 = 266.67$ hops/s/slot

- $400\text{ms} \times 79$ hopping channels = 31.6 sec (Time of Occupancy Limit)
- Worst case BT has 266.67 hops/second (for 1x/EDR modes with DH5 operation)
- $266.67 \text{ hops/second} / 79 \text{ channels} = 3.38 \text{ hops/second}$ (# of hops/second on one channel)
- $3.38 \text{ hops/second/channel} \times 31.6 \text{ seconds} = 106.67 \text{ hops}$ (# hops over a 31.6 second period)
- $106.67 \text{ hops} \times 2.875 \text{ ms/channel} = 306.67 \text{ ms}$ (worst case dwell time for one channel in 1x/EDR modes)

With AFH, the number of channels is reduced to a minimum of 20 channels and the channel hopping rate is reduced by 50% to 800 hops/s. AFH mode also uses 6 total slots so the Bluetooth transmitter hops at a rate of $800 / 6 = 133.3$ hops/s/slot

- $400\text{ms} \times 20$ hopping channels = 8 sec (Time of Occupancy Limit)
- Worst case BT has 133.3 hops/second/slot (for AFH mode with DH5 operation)
- $133.3 \text{ hops/s} / 20 \text{ channels} = 6.67 \text{ hops/second}$ (# of hops/second on one channel)
- $6.67 \text{ hops/s} / \text{channel} \times 8 \text{ seconds} = 53.34 \text{ hops}$ (# hops over a 8 second period)
- $53.34 \text{ hops} \times 2.875 \text{ ms/channel} = 153.30 \text{ ms}$ (worst case dwell time for one channel in AFH mode)

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7.7 Number of Hopping Channels

Test Overview and Limit

Measurement is made while EUT is operating in hopping mode. ***This frequency hopping system must employ a minimum of 15 hopping channels.***

Test Procedure Used

ANSI C63.10:2020 – Section 7.8.3

Test Settings

1. Span = frequency of band of operation (divided into two plots)
2. RBW < 30% of channel spacing or 20dB bandwidth, whichever is smaller
3. VBW ≥ RBW
4. Sweep = auto
5. Detector = peak
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Setup

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

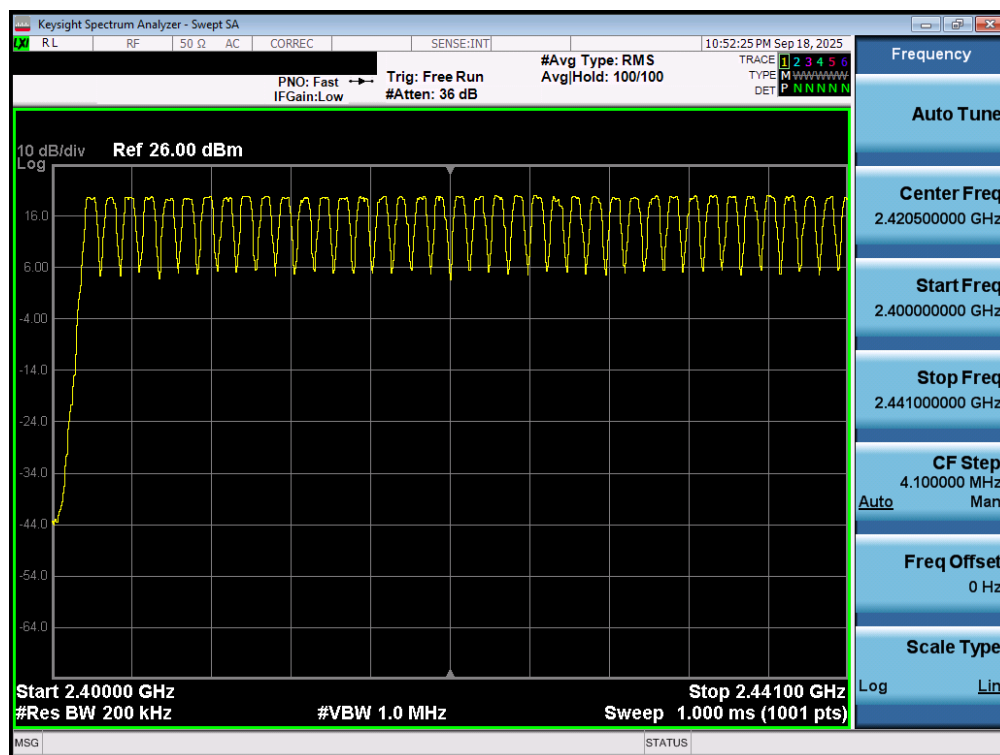


Figure 7-6. Test Instrument & Measurement Setup

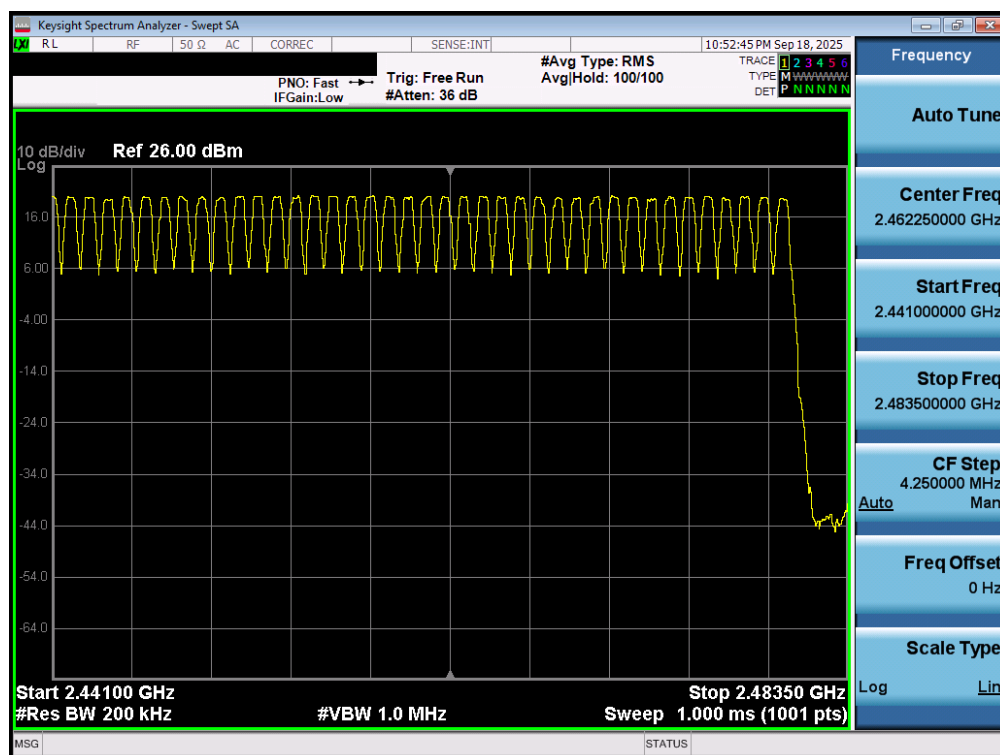
Test Notes

The frequency spectrum was broken up into two sub-ranges to clearly show all the hopping frequencies. In AFH mode, this device operates using 20 channels so the requirement for minimum number of hopping channels is satisfied.

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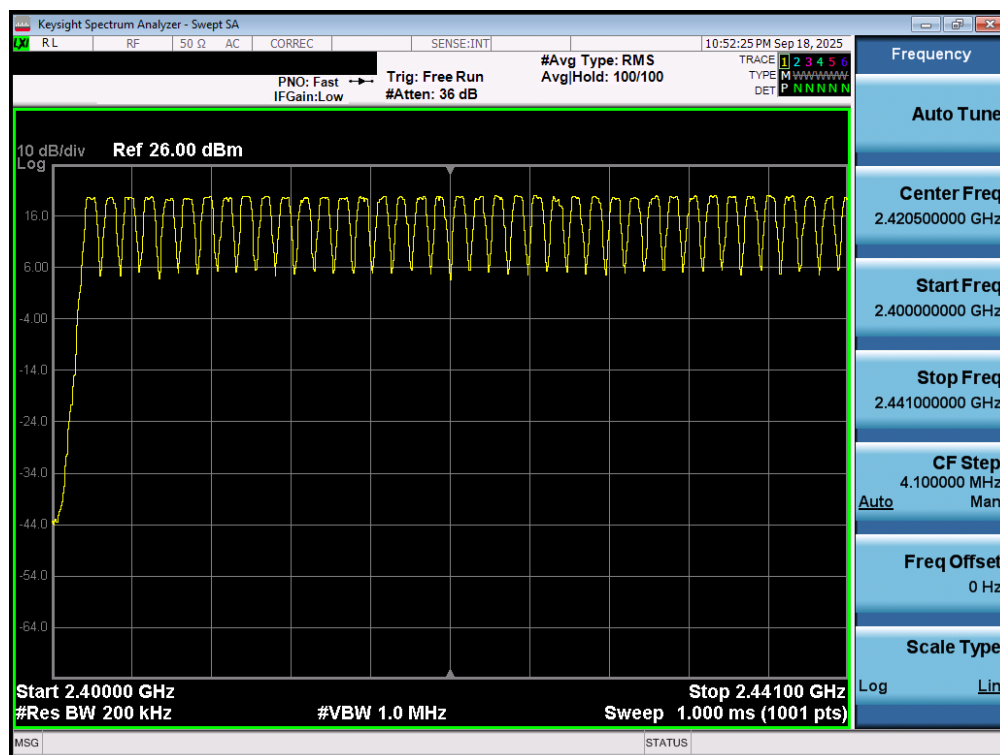


Plot 7-133. Low End Spectrum Channel Hopping Plot (Bluetooth) – Ant 1

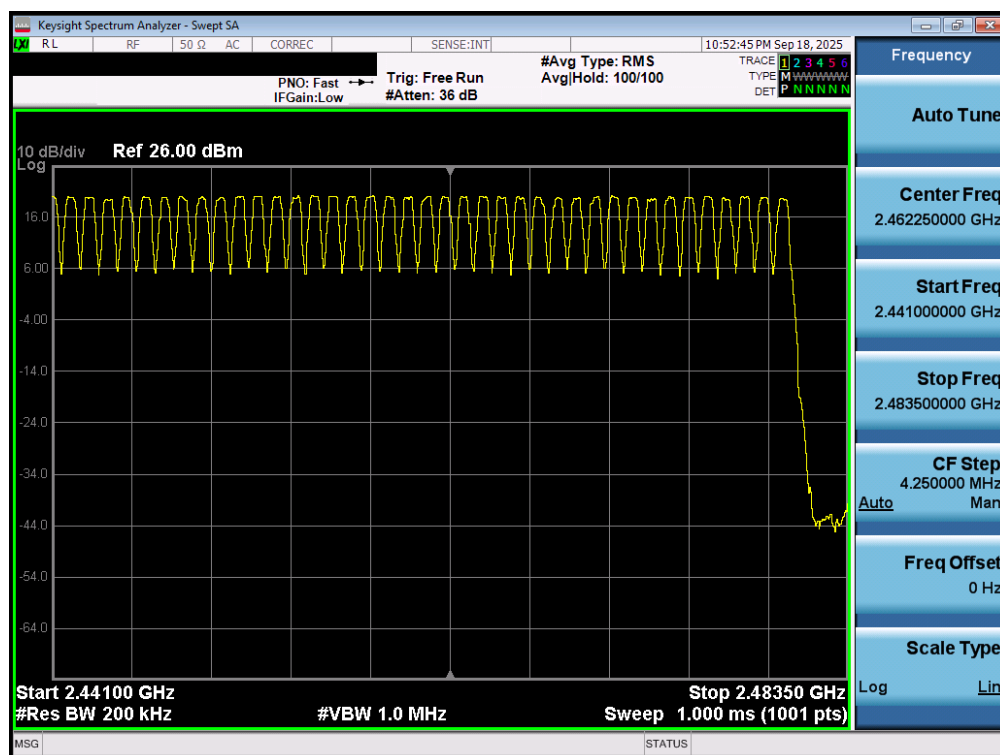


Plot 7-134. High End Spectrum Channel Hopping Plot (Bluetooth) – Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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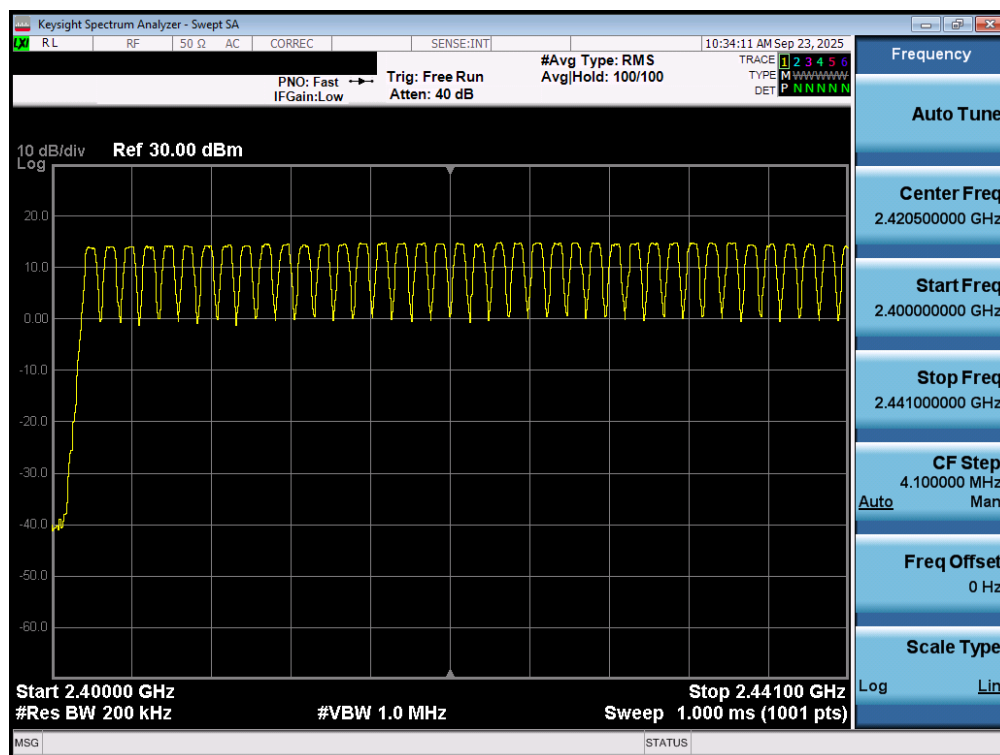


Plot 7-135. Low End Spectrum Channel Hopping Plot (Bluetooth) – Ant 2

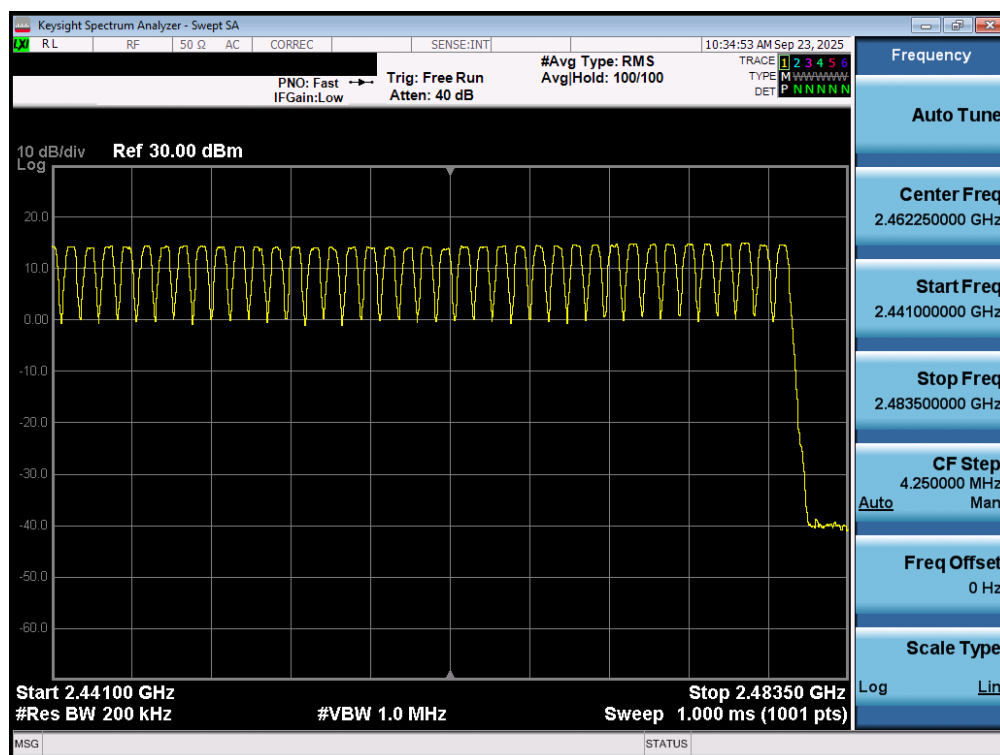


Plot 7-136. High End Spectrum Channel Hopping Plot (Bluetooth) – Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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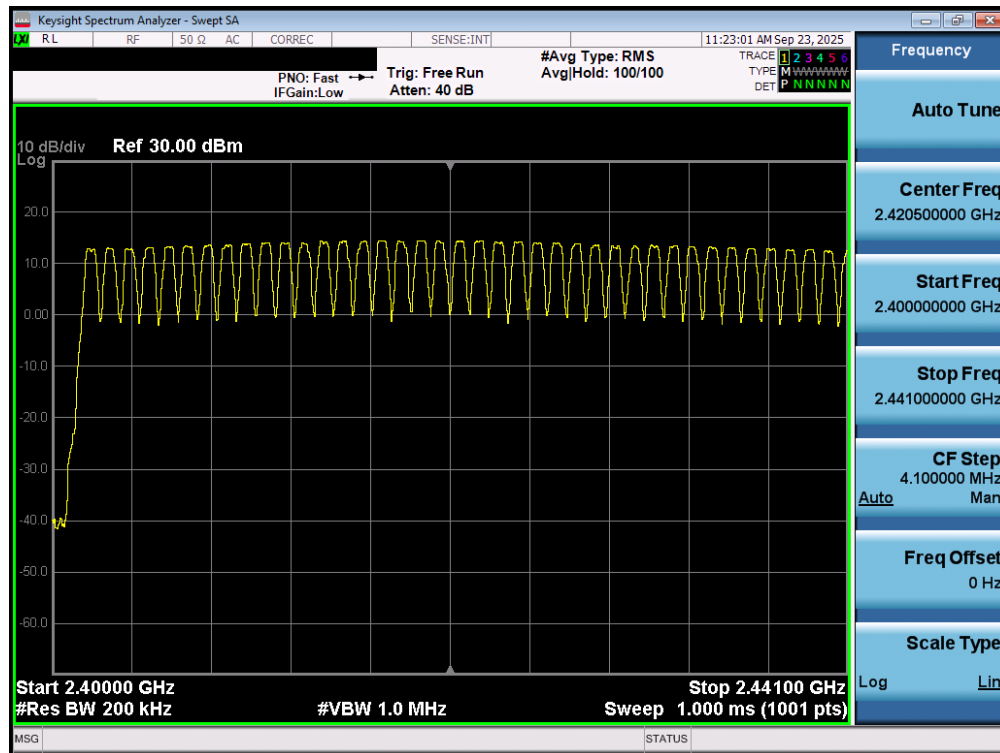


Plot 7-137. Low End Spectrum Channel Hopping Plot (Bluetooth) – Dual Ant 1

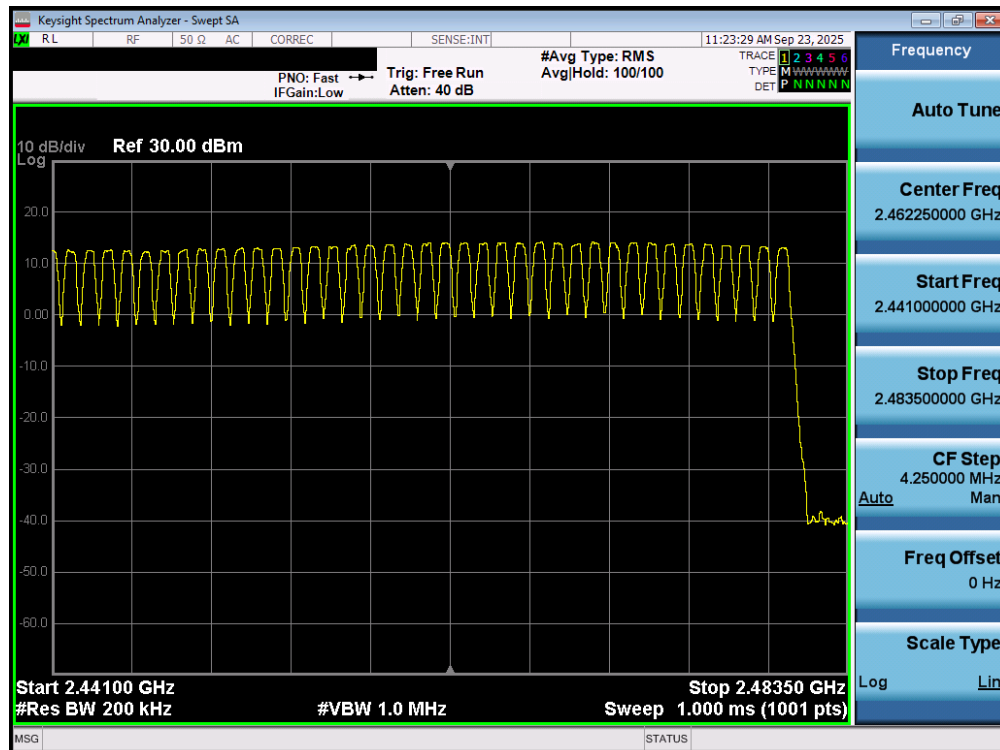


Plot 7-138. High End Spectrum Channel Hopping Plot (Bluetooth) – Dual Ant 1

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Plot 7-139. Low End Spectrum Channel Hopping Plot (Bluetooth) – Dual Ant 2



Plot 7-140. High End Spectrum Channel Hopping Plot (Bluetooth) – Dual Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.8 Conducted Spurious Emissions

Test Overview and Limit

Conducted out-of-band spurious emissions were investigated from 30MHz up to 25GHz to include the 10th harmonic of the fundamental transmit frequency. **The maximum permissible out-of-band emission level is 20 dBc.**

Test Procedure Used

ANSI C63.10:2020 – Section 7.8.7

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* (See note below)
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.

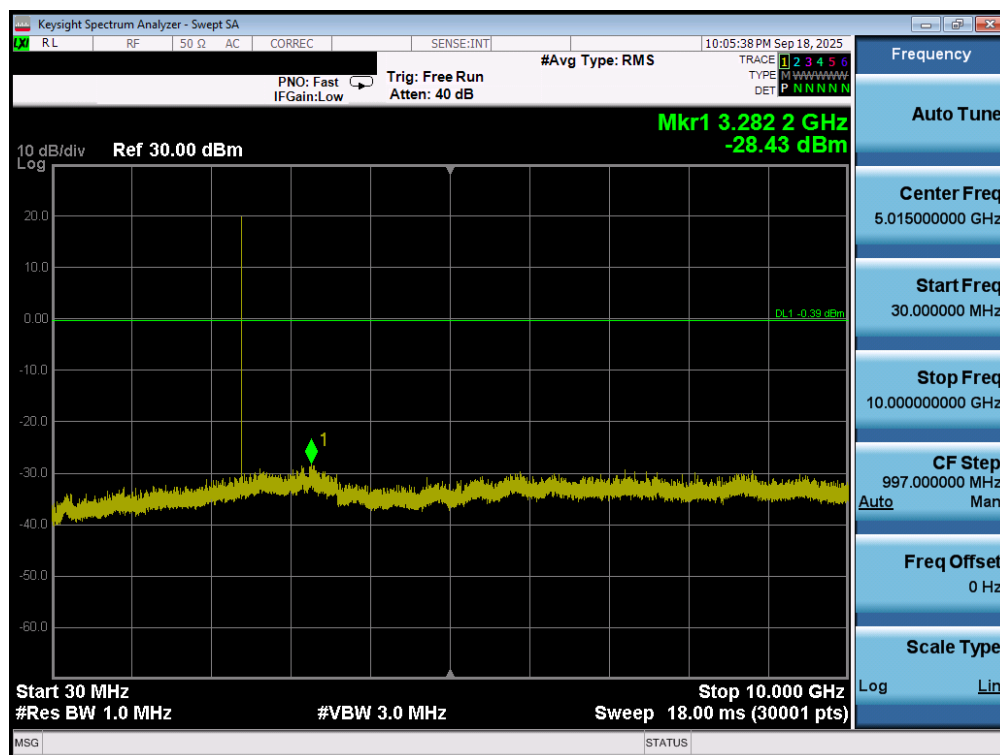


Figure 7-7. Test Instrument & Measurement Setup

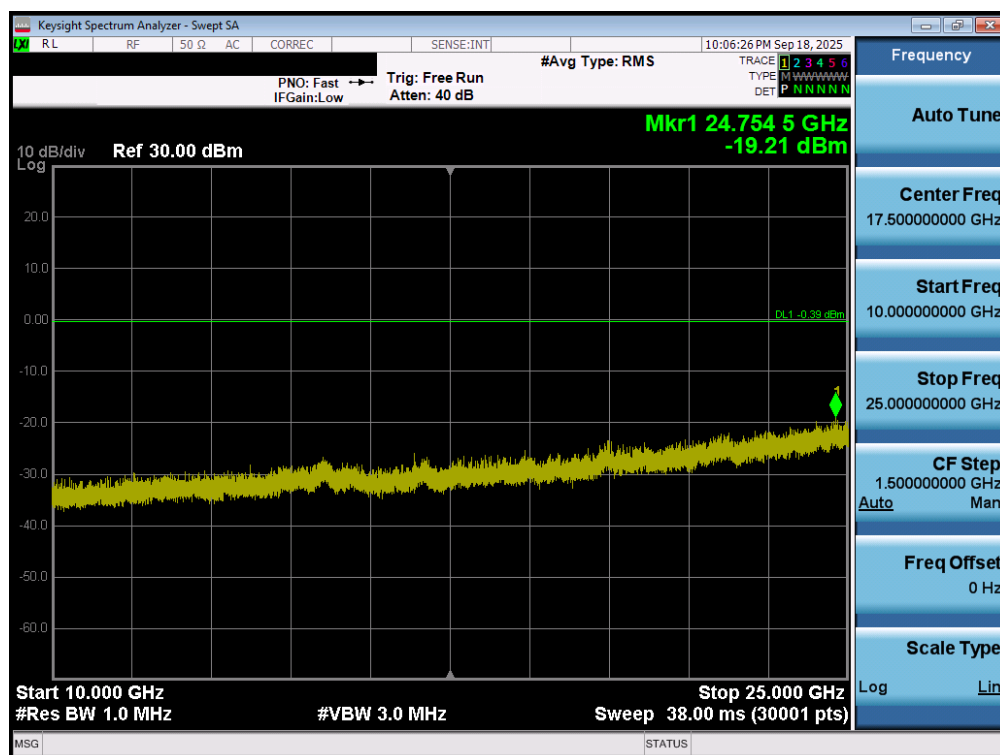
Test Notes

Out-of-band conducted spurious emissions were investigated for all data rates and the worst-case emissions were found with the EUT transmitting at N/AMbps. The display line shown in the following plots is the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, the traces in the following plots are measured with a 1MHz RBW to reduce test time, so the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 99 of 144

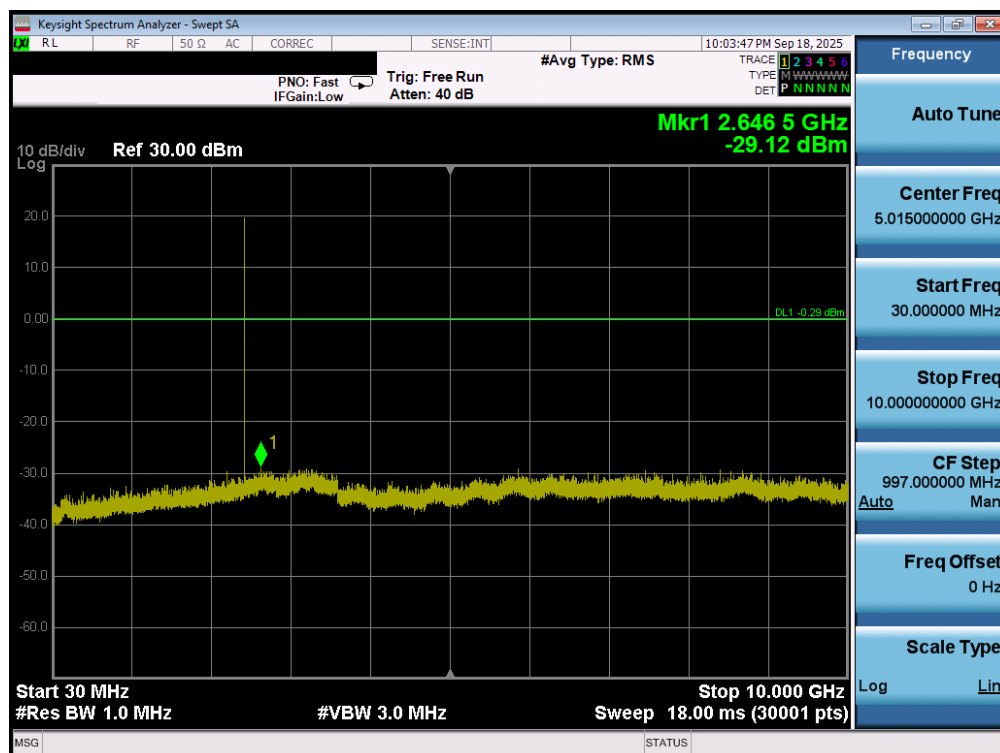


Plot 7-141. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 0) – Ant 1

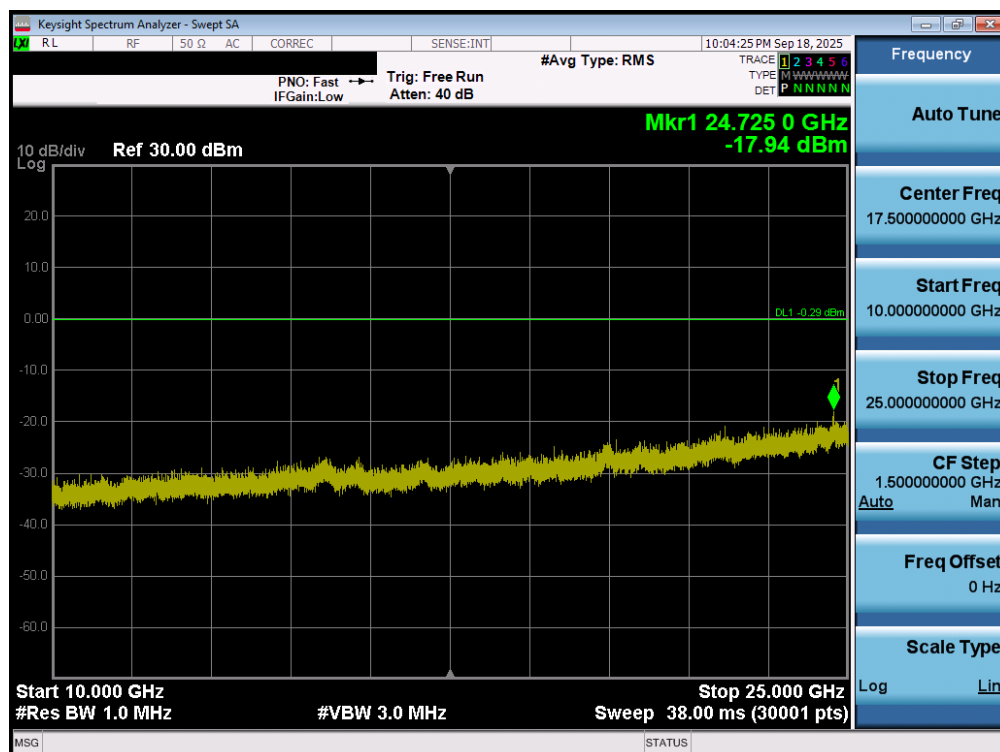


Plot 7-142. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 0) – Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 100 of 144

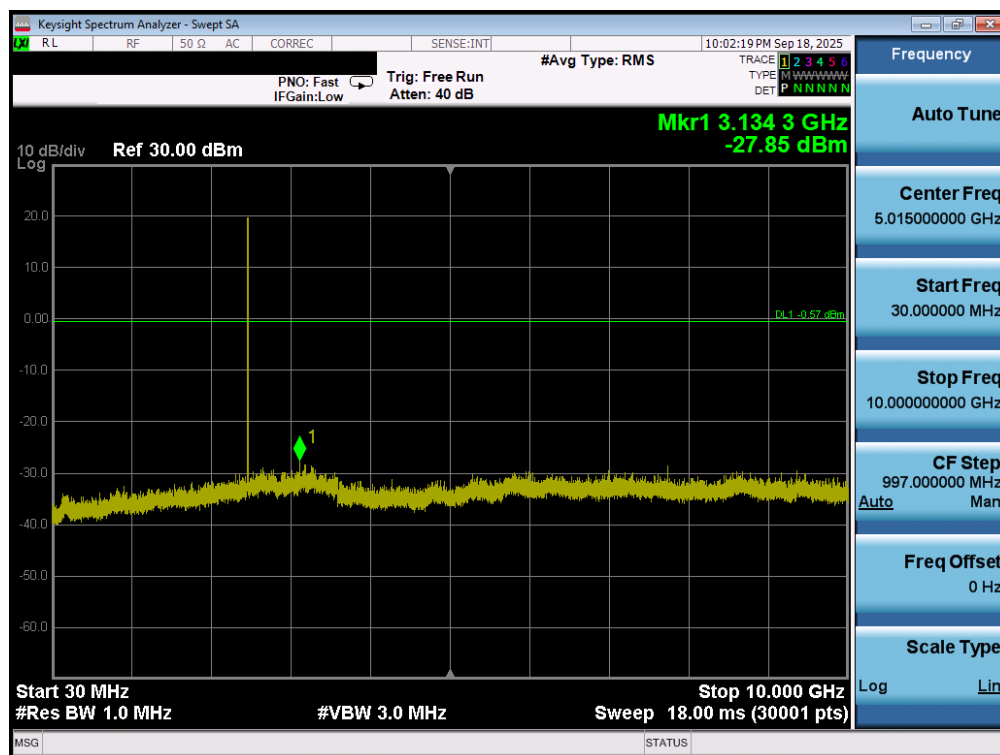


Plot 7-143. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 39) – Ant 1

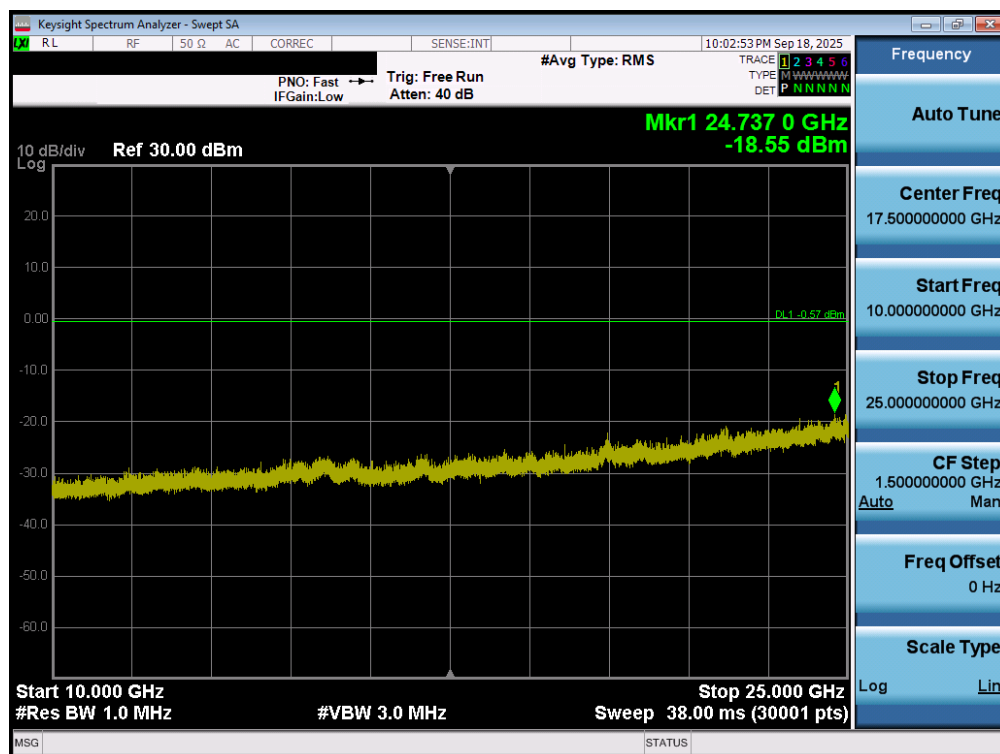


Plot 7-144. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 39) – Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 101 of 144

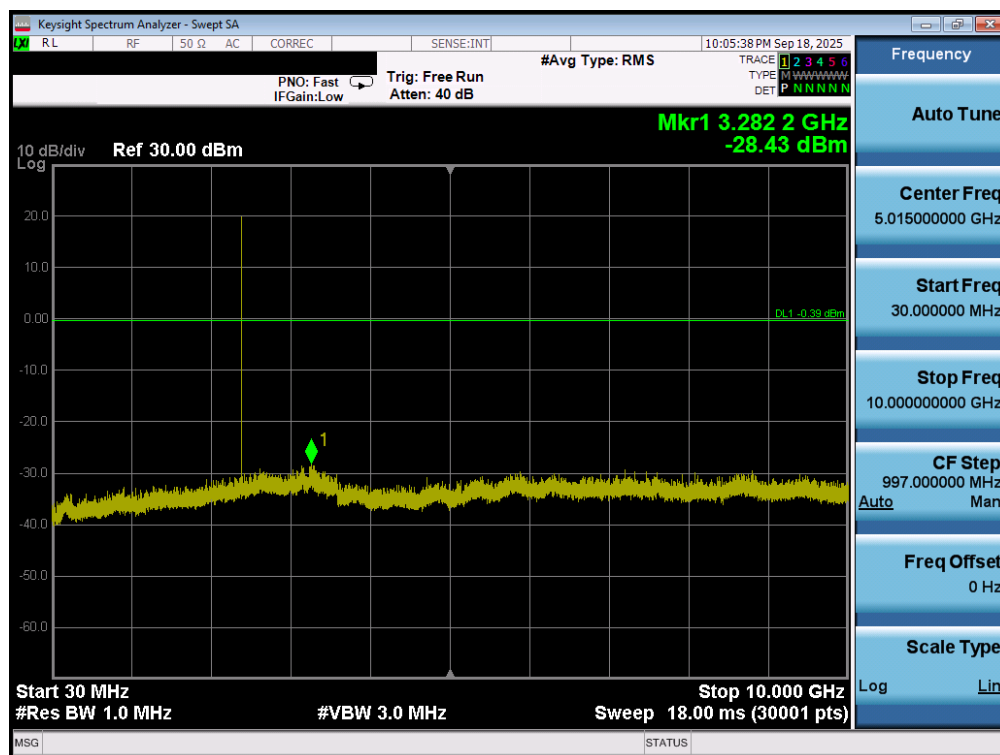


Plot 7-145. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 78) – Ant 1

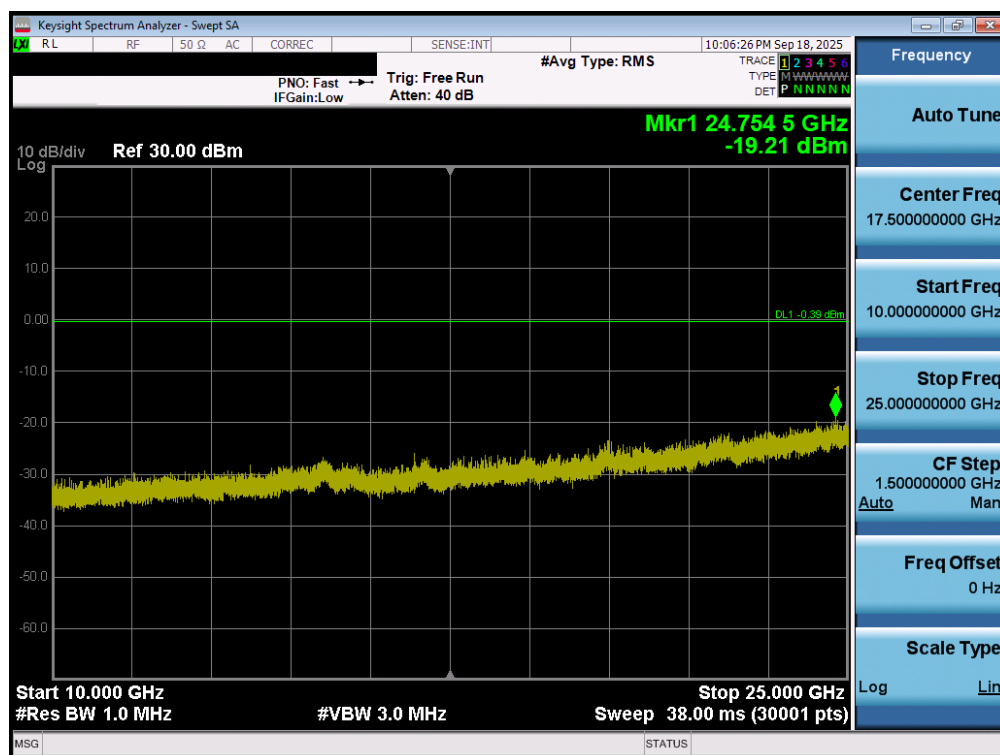


Plot 7-146. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 78) – Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 102 of 144

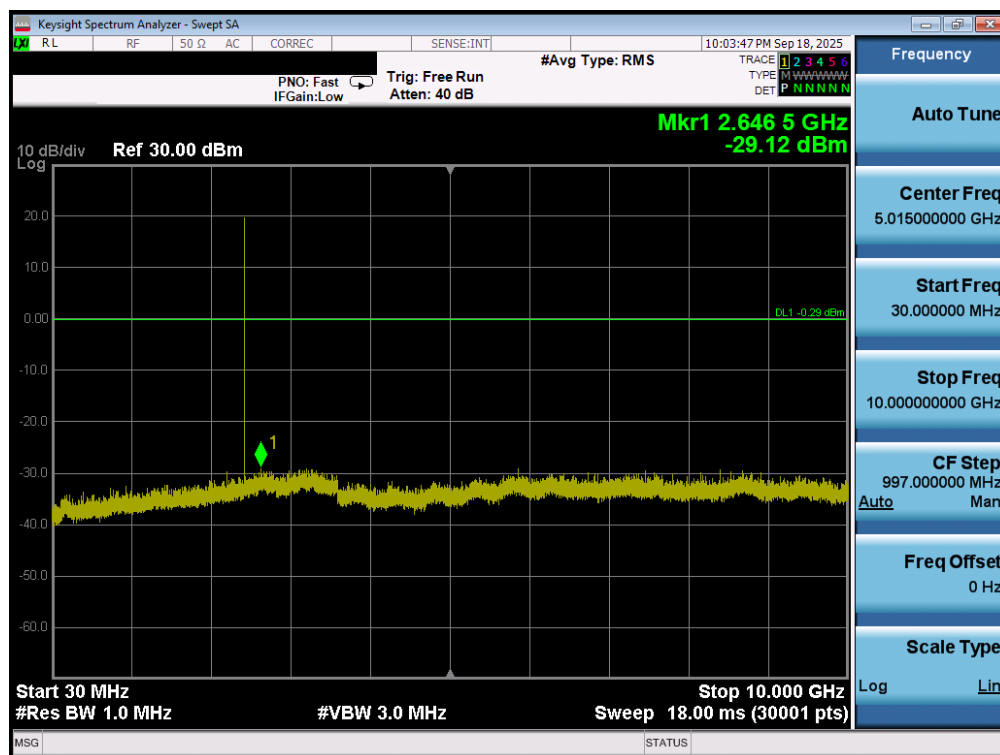


Plot 7-147. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 0) – Ant 2

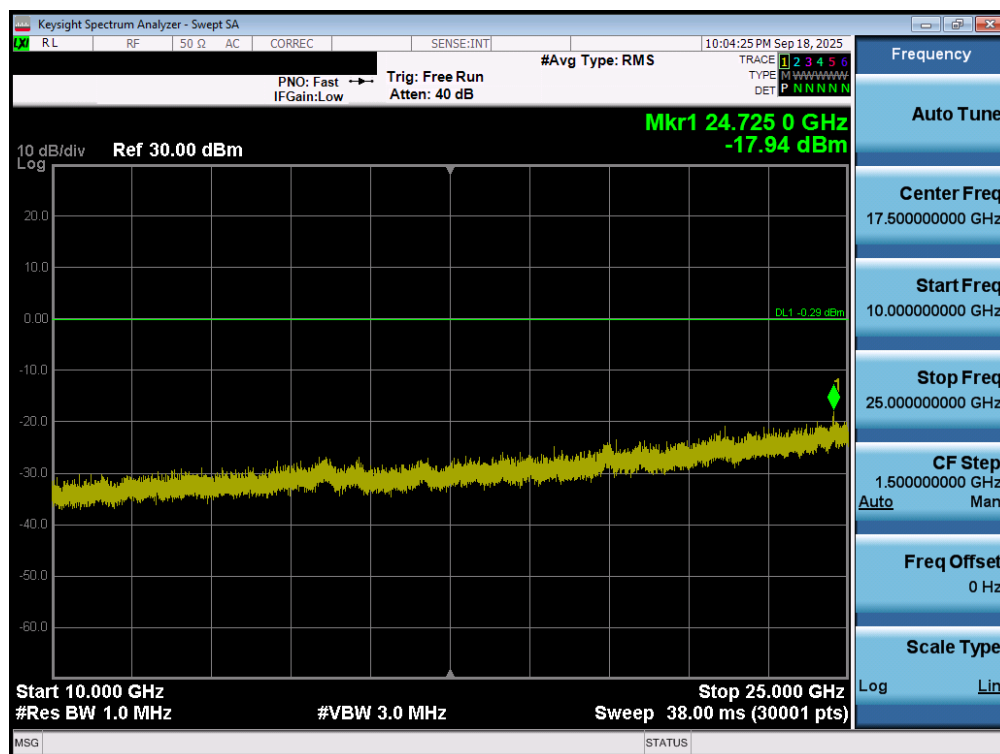


Plot 7-148. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 0) – Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 103 of 144

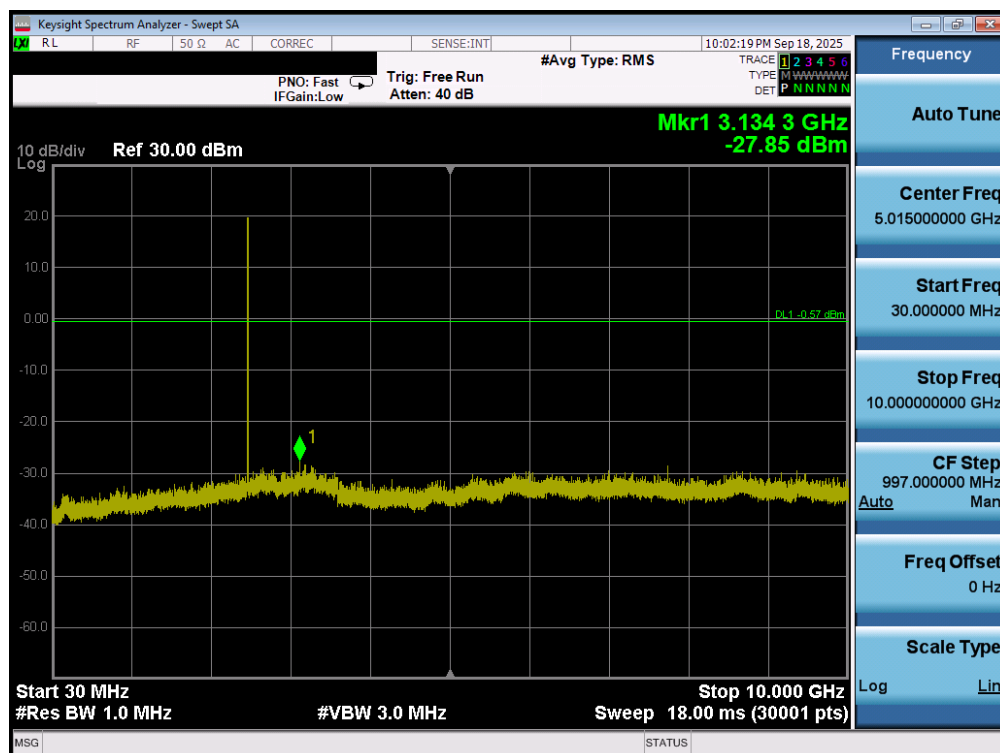


Plot 7-149. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 39) – Ant 2

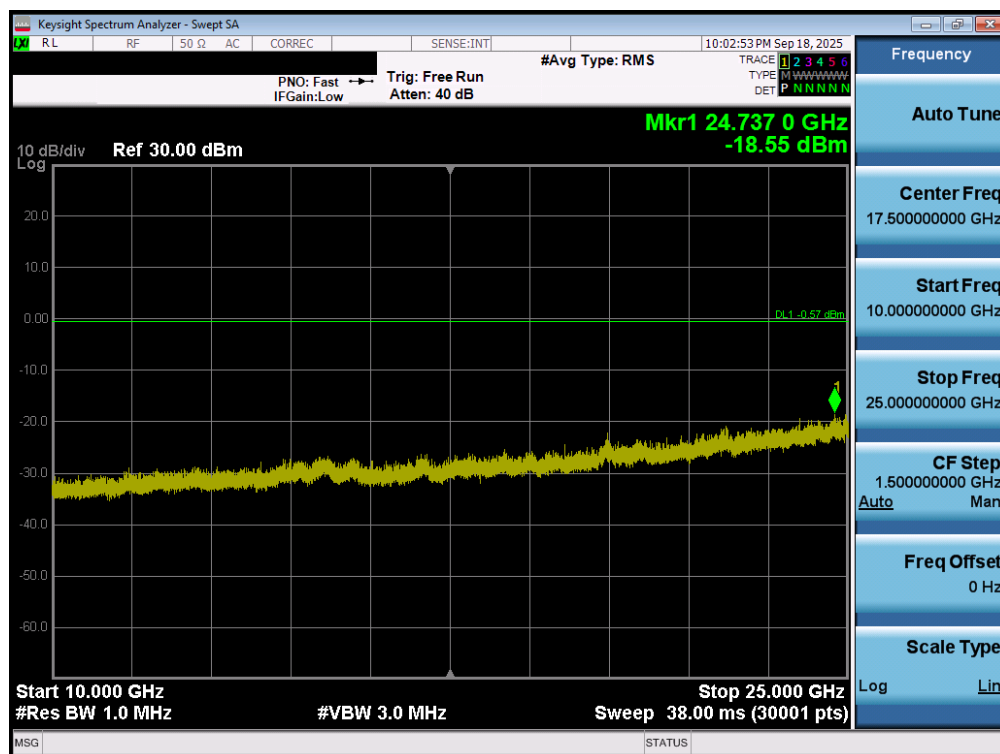


Plot 7-150. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 39) – Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 104 of 144

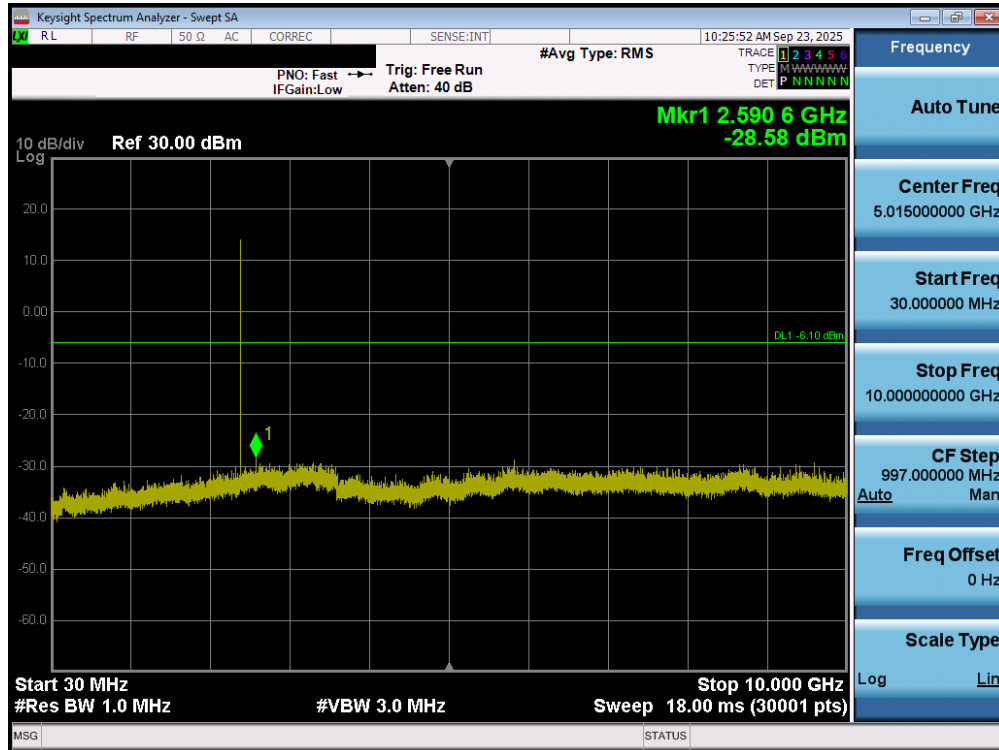


Plot 7-151. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 78) – Ant 2

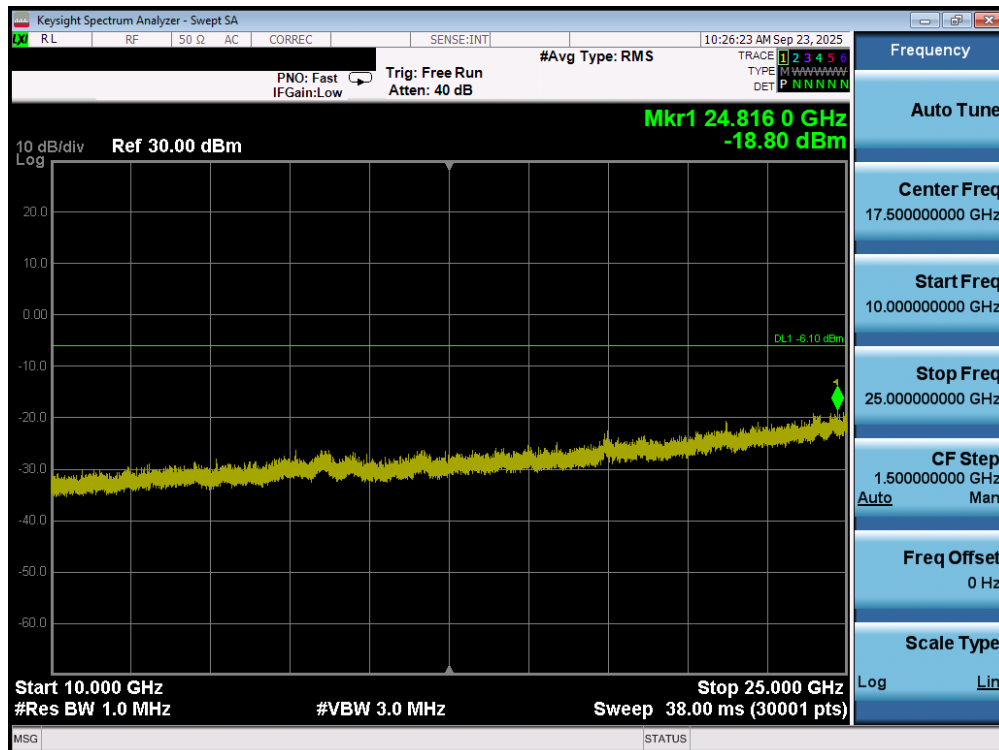


Plot 7-152. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 78) – Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 105 of 144

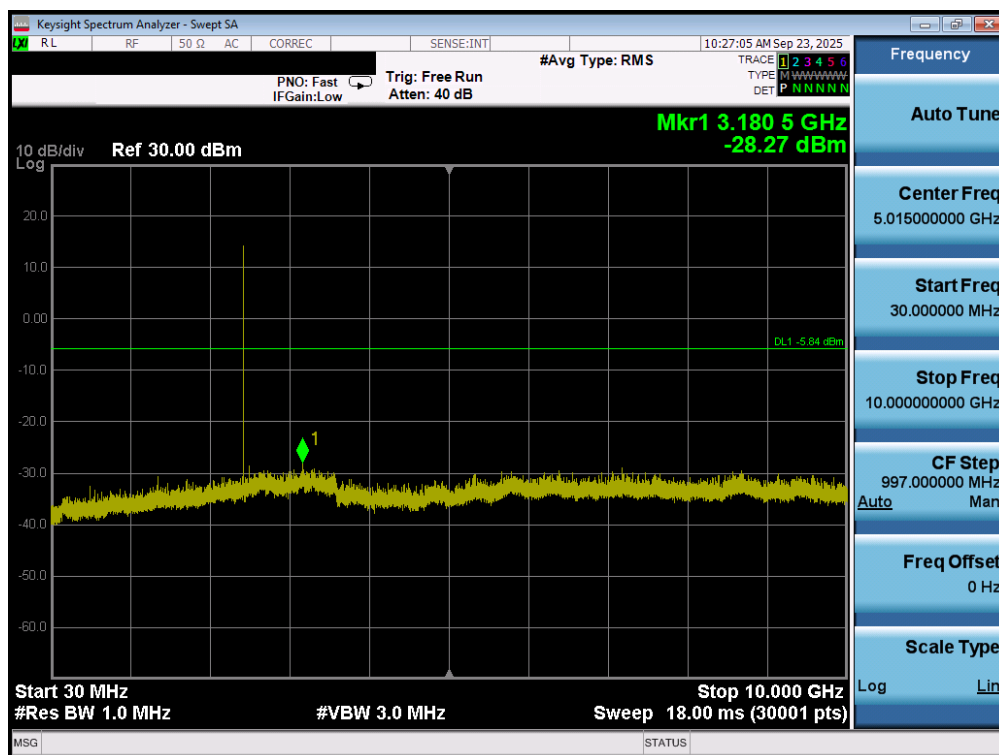


Plot 7-153. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 0) – Dual Ant 1

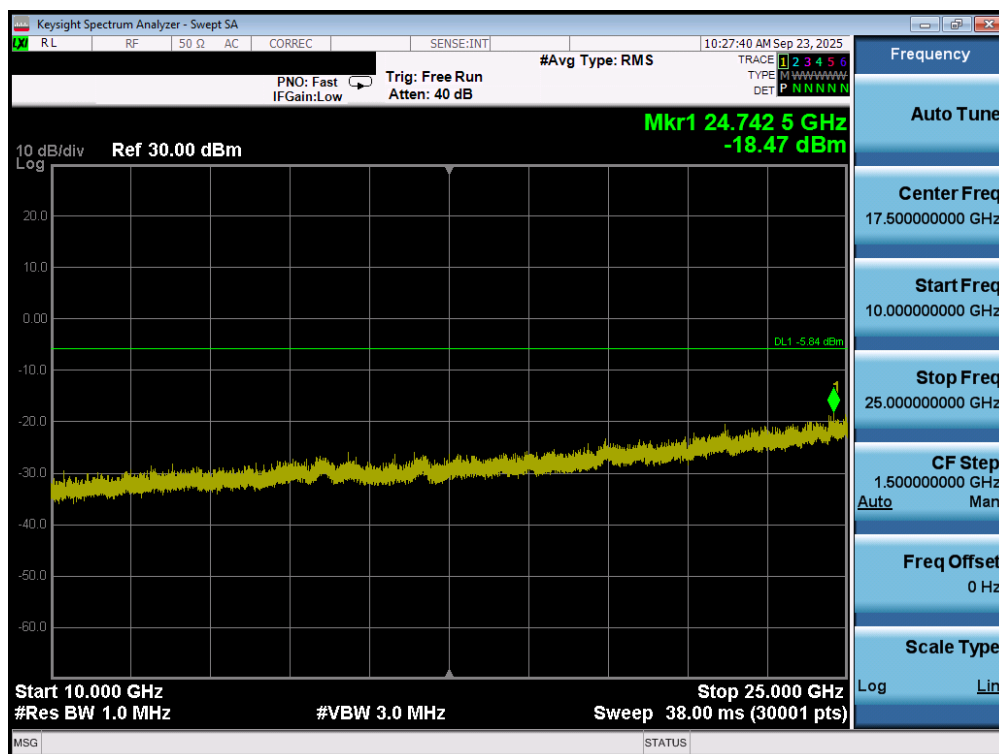


Plot 7-154. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 0) – Dual Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 106 of 144

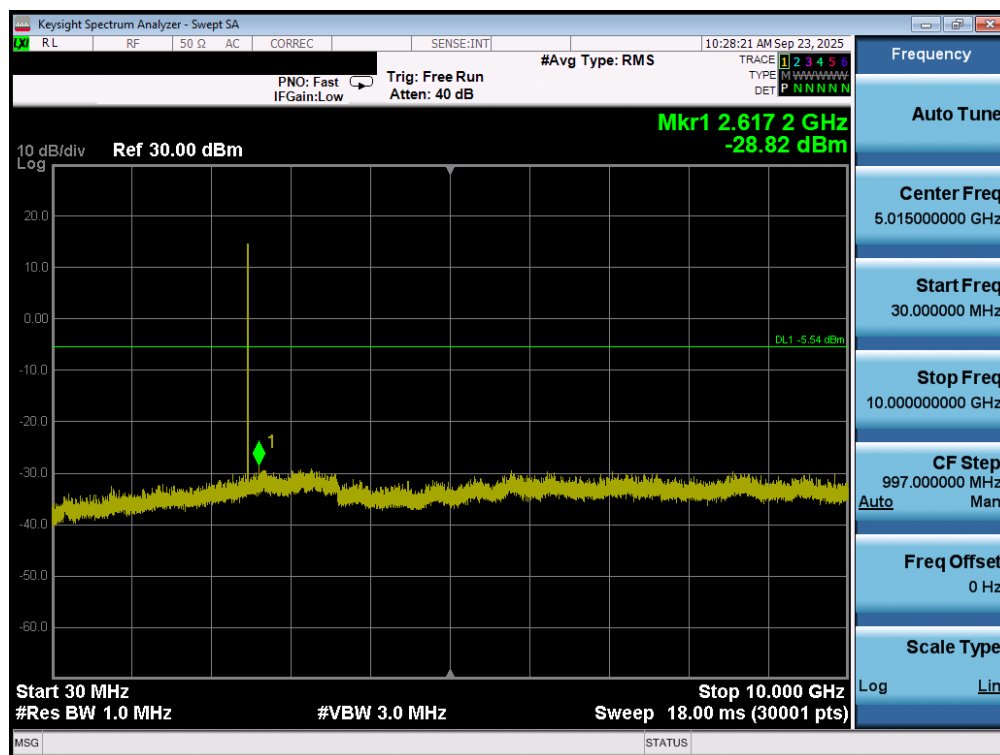


Plot 7-155. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 39) – Dual Ant 1

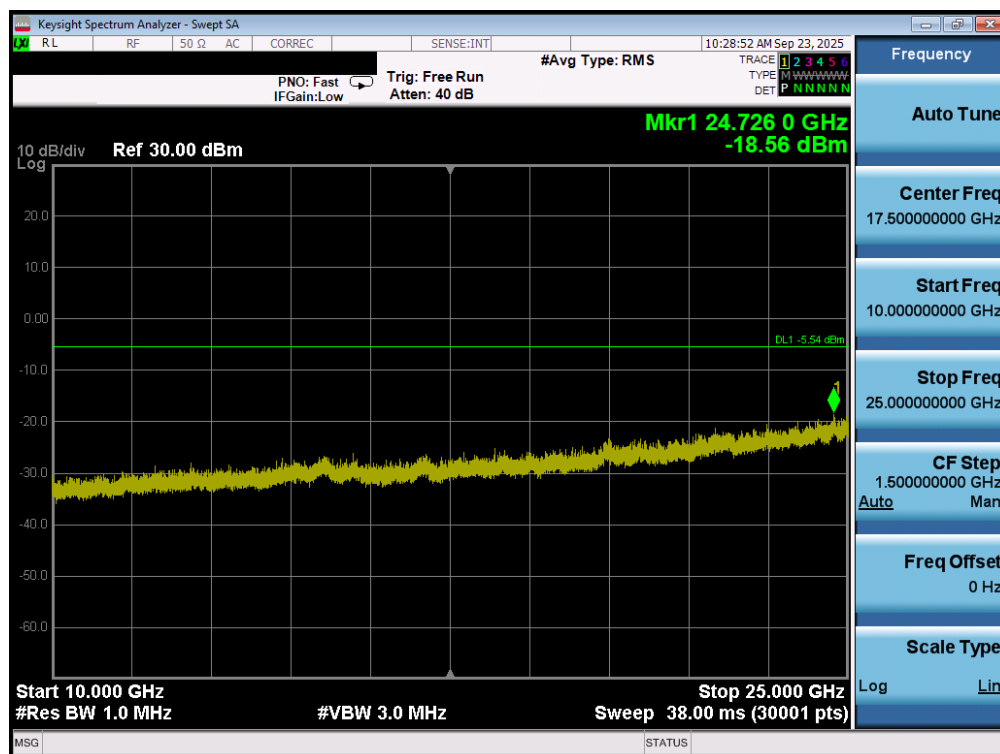


Plot 7-156. Conducted Spurious Plot (Bluetooth, 3Mbps – Ch. 39) – Dual Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 107 of 144

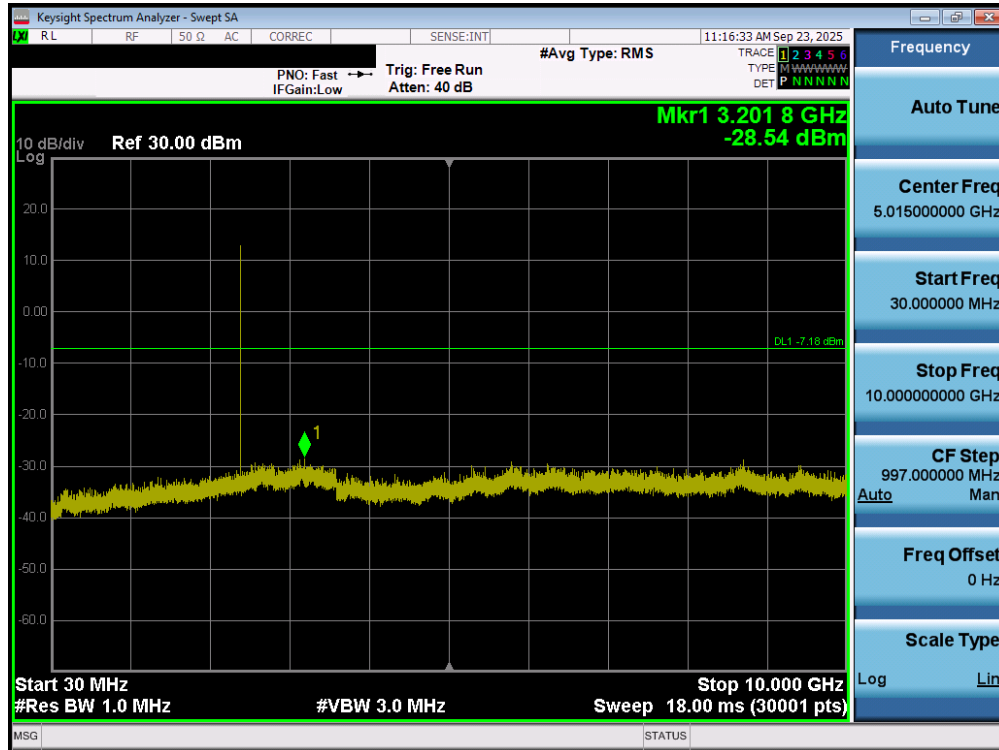


Plot 7-157. Conducted Spurious Plot (Bluetooth, 3Mbps - Ch. 78) - Dual Ant 1

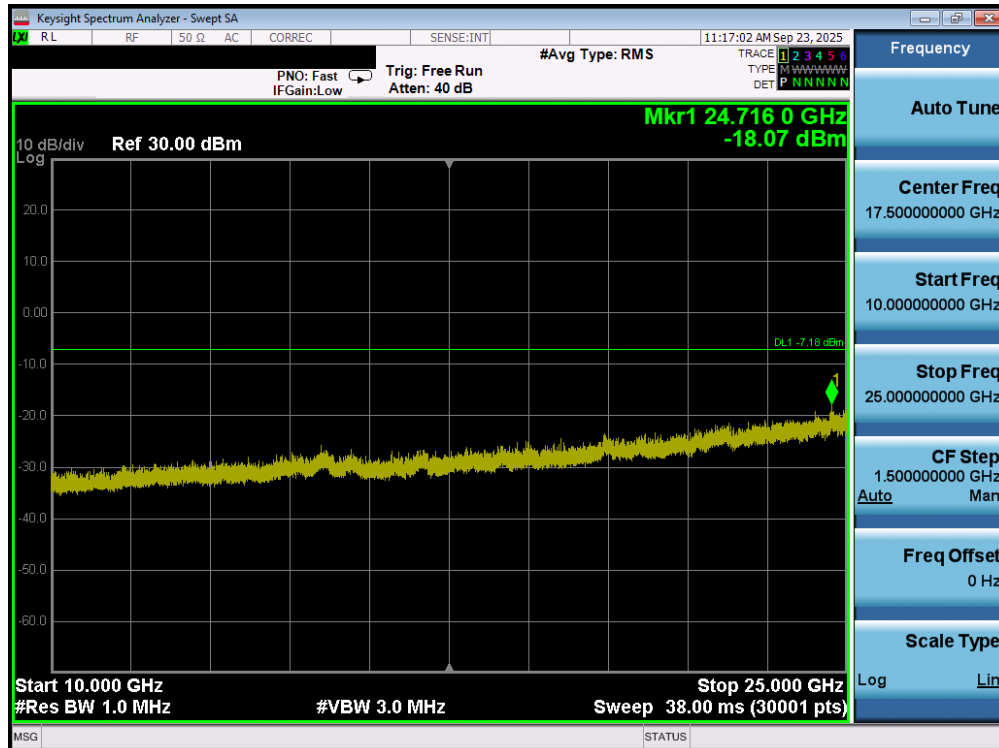


Plot 7-158. Conducted Spurious Plot (Bluetooth, 3Mbps - Ch. 78) - Dual Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 108 of 144

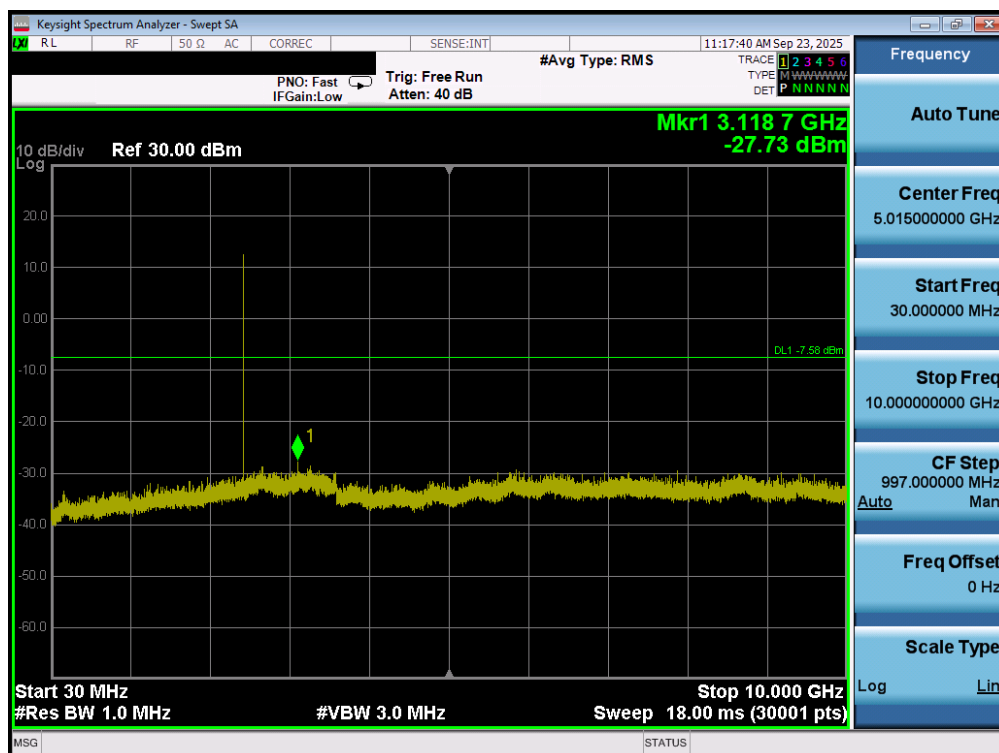


Plot 7-159. Conducted Spurious Plot (Bluetooth, 1Mbps – Ch. 0) – Dual Ant 2

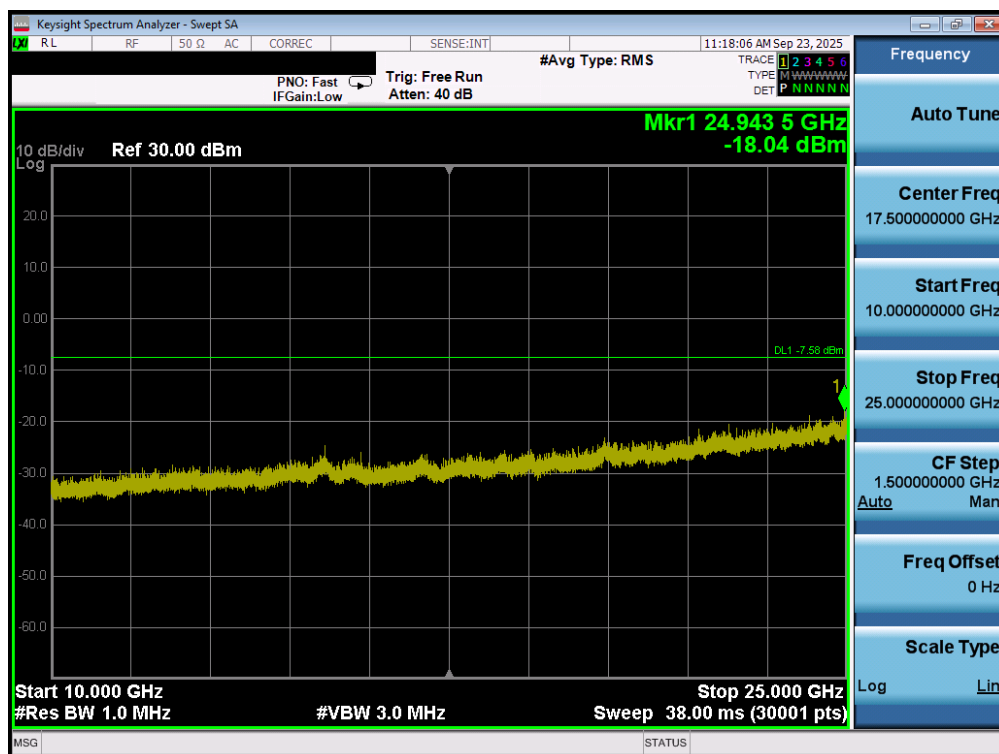


Plot 7-160. Conducted Spurious Plot (Bluetooth, 1Mbps – Ch. 0) – Dual Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 109 of 144

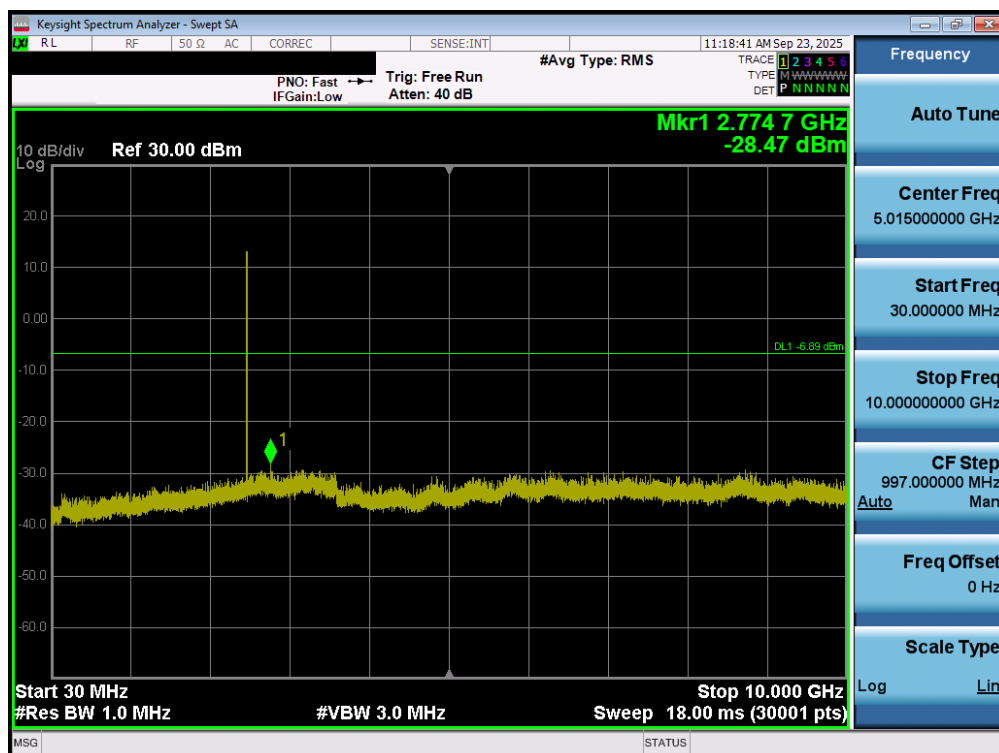


Plot 7-161. Conducted Spurious Plot (Bluetooth, 1Mbps – Ch. 39) – Dual Ant 2

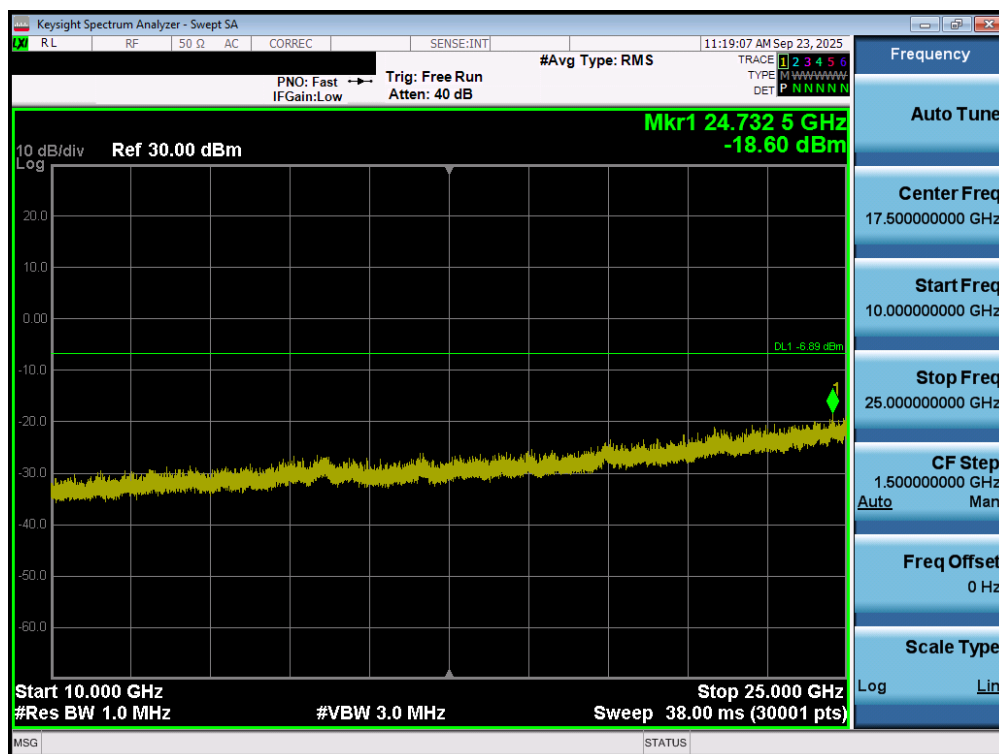


Plot 7-162. Conducted Spurious Plot (Bluetooth, 1Mbps – Ch. 39) – Dual Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 110 of 144



Plot 7-163. Conducted Spurious Plot (Bluetooth, 1Mbps – Ch. 78) – Dual Ant 2



Plot 7-164. Conducted Spurious Plot (Bluetooth, 1Mbps – Ch. 78) – Dual Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 111 of 144

7.9 Radiated Spurious Emission Measurements – Above 1GHz

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at 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 below per Section 15.209 and RSS-Gen (8.9).

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

Table 7-13. Radiated Limits

Test Procedure Used

ANSI C63.10:2020 – Section 6.6.4.3

Test Settings

Average Field Strength Measurements per Section 4.1.5.2.3 of ANSI C63.10:2020

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 1kHz $\geq 1/\tau$ Hz, where τ = pulse width in seconds
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 stabilize

Peak Field Strength Measurements per Section 4.1.5.2.2 of ANSI C63.10:2020

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
FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)	
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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.

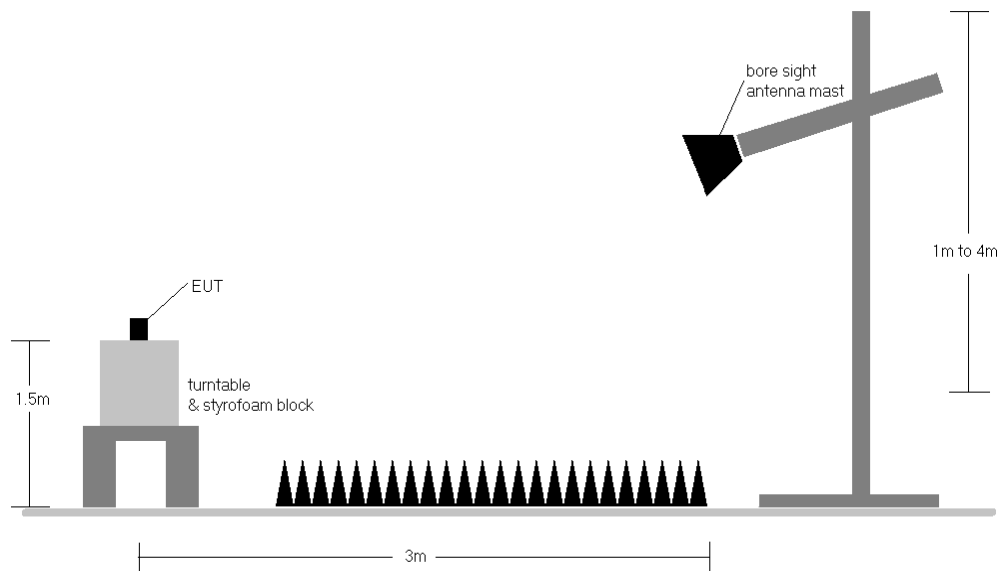


Figure 7-8. Radiated Test Setup >1GHz

Test Notes

- All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in §15.209.
- No significant radiated emissions were found in the 2310 - 2390MHz restricted band.
- The antenna is manipulated through typical positions, polarity, and length during the tests. The EUT is manipulated through three orthogonal planes.
- This unit was tested with its standard battery.
- The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- The duty cycle correction factor was not applied to noise floor measurements.
- The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- The "-" shown in the following RSE tables is used to denote a noise floor measurement.

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 113 of 144

Sample Calculation

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

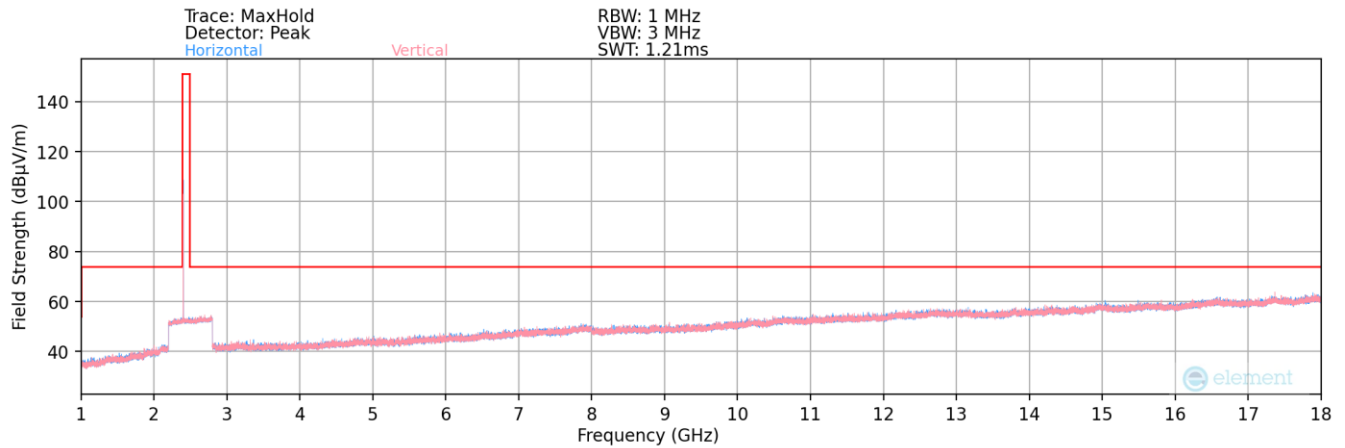
Duty Cycle Correction Factor Calculation

- Channel hop rate = 800 hops/second (AFHMode)
- Adjusted channel hop rate for DH5 mode = 133.33 hops/second
- Time per channel hop = $1 / 133.33 \text{ hops/second} = 7.50 \text{ ms}$
- Time to cycle through all channels = $7.50 \times 20 \text{ channels} = 150 \text{ ms}$
- Number of times transmitter hits on one channel = $100 \text{ ms} / 150 \text{ ms} = 1 \text{ time(s)}$
- Worst case dwell time = 7.5 ms
- Duty cycle correction factor = $20\log_{10}(7.5\text{ms}/100\text{ms}) = -22.5 \text{ dB}$

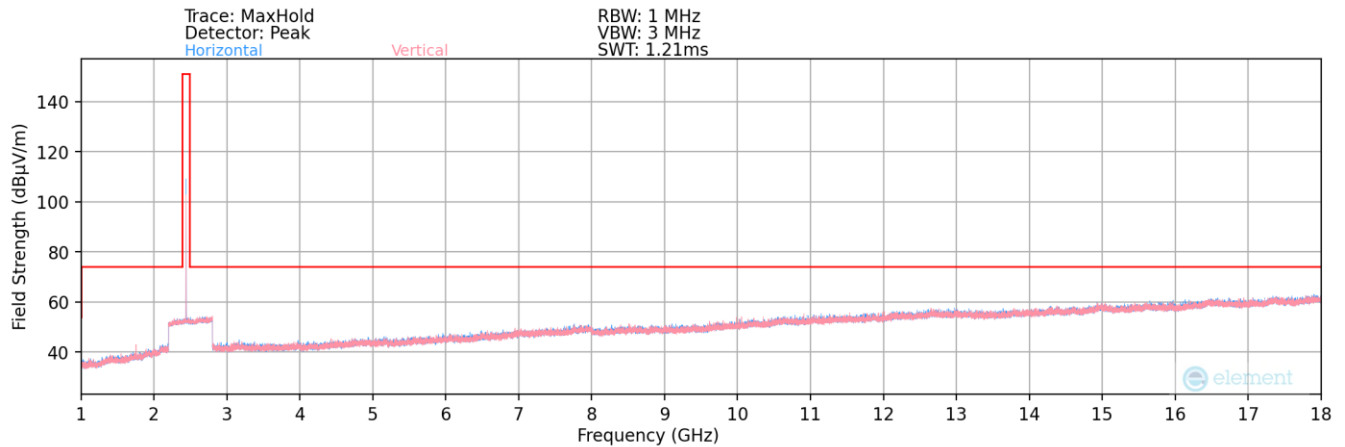
FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 114 of 144

Radiated Spurious Emission Measurements

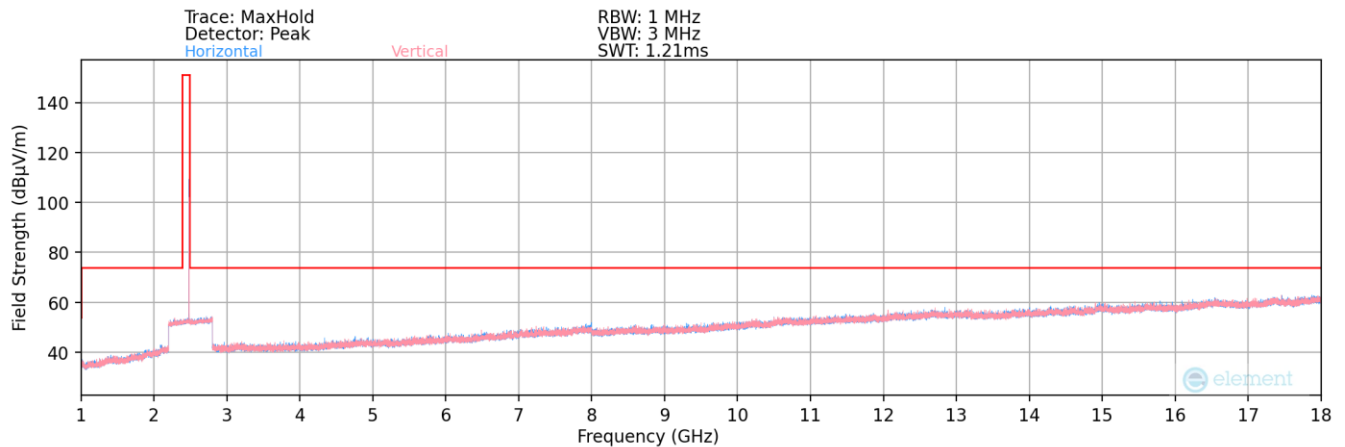
\$15.205 \$15.209 \$15.247 (d); RSS-Gen [8.9]



Plot 7-165. Radiated Spurious Plot above 1GHz (BT – Ch. 0) – Ant 1



Plot 7-166. Radiated Spurious Plot above 1GHz (BT – Ch. 39) – Ant 1

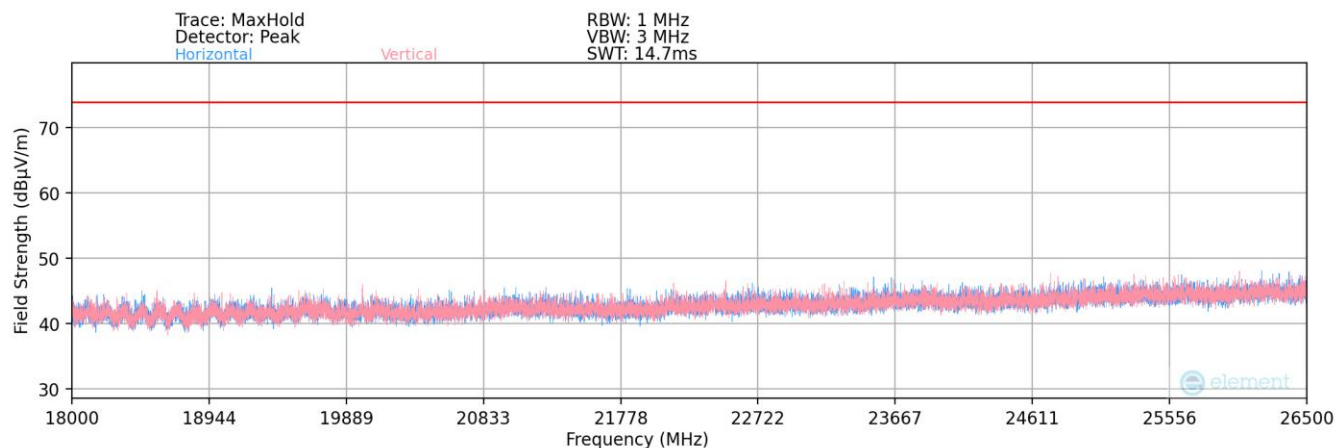


Plot 7-167. Radiated Spurious Plot above 1GHz (BT – Ch. 78) – Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Radiated Spurious Emissions Measurements (Above 18GHz)
§15.209; RSS-Gen [8.9]



Plot 7-168. Radiated Spurious Plot above 18GHz – Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 116 of 144

Radiated Spurious Emission Measurements

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4804.00	Avg	V	128	213	-78.35	6.79	-22.50	12.94	53.98	-41.04
4804.00	Peak	V	128	213	-68.25	6.79	0.00	45.54	73.98	-28.44
12010.00	Avg	V	-	-	-81.73	18.61	0.00	43.88	53.98	-10.10
12010.00	Peak	V	-	-	-70.92	18.61	0.00	54.69	73.98	-19.29

Table 7-15. Radiated Measurements – Ant 1

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2441MHz
Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4882.00	Avg	V	-	-	-79.82	7.15	0.00	34.33	53.98	-19.65
4882.00	Peak	V	-	-	-68.97	7.15	0.00	45.18	73.98	-28.80
7323.00	Avg	V	-	-	-80.66	12.52	0.00	38.86	53.98	-15.11
7323.00	Peak	V	-	-	-69.12	12.52	0.00	50.40	73.98	-23.57
12205.00	Avg	V	-	-	-81.79	19.32	0.00	44.53	53.98	-9.45
12205.00	Peak	V	-	-	-81.76	19.32	0.00	44.56	73.98	-29.42

Table 7-16. Radiated Measurements– Ant 1

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: Bluetooth
 Worst Case Data Rate: 1 Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 78

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	V	-	-	-79.45	6.94	0.00	34.49	53.98	-19.49
4960.00	Peak	V	-	-	-68.25	6.94	0.00	45.69	73.98	-28.29
7440.00	Avg	V	-	-	-80.69	12.50	0.00	38.81	53.98	-15.17
7440.00	Peak	V	-	-	-70.04	12.50	0.00	49.46	73.98	-24.52
12400.00	Avg	V	-	-	-81.76	19.06	0.00	44.30	53.98	-9.68
12400.00	Peak	V	-	-	-71.06	19.06	0.00	55.00	73.98	-18.98

Table 7-17. Radiated Measurements – Ant 1

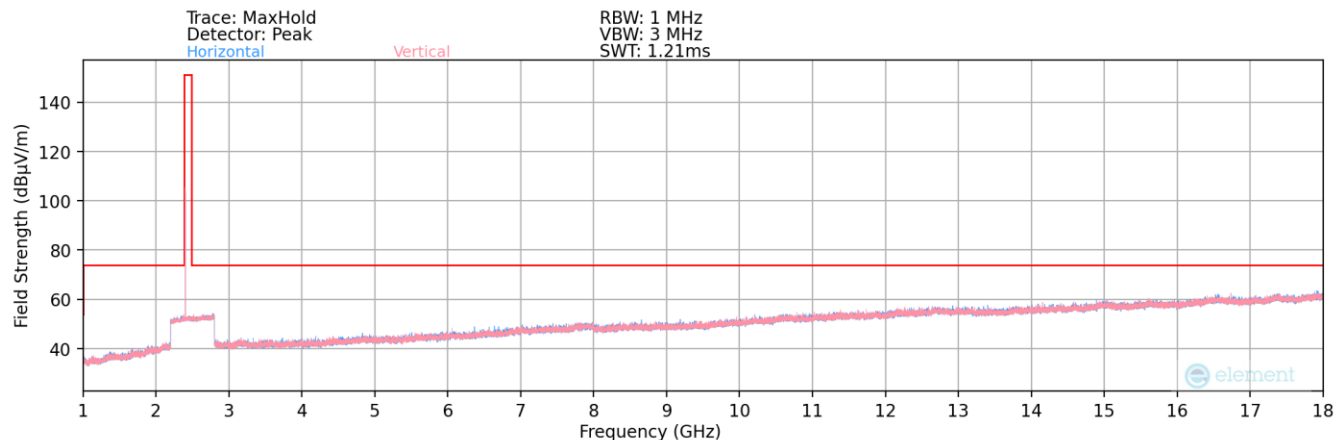
Worst Case Mode: Bluetooth
 Worst Case Data Rate: 1 Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 78

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4804.00	Avg	V	-	-	-79.36	6.79	0.00	34.43	53.98	-19.55
4804.00	Peak	V	-	-	-68.84	6.79	0.00	44.95	73.98	-29.03
7206.00	Avg	V	-	-	-80.44	11.90	0.00	38.46	53.98	-15.52
7206.00	Peak	V	-	-	-69.94	11.90	0.00	48.96	73.98	-25.02
12010.00	Avg	V	-	-	-81.74	18.61	0.00	43.87	53.98	-10.11
12010.00	Peak	V	-	-	-70.99	18.61	0.00	54.62	73.98	-19.36

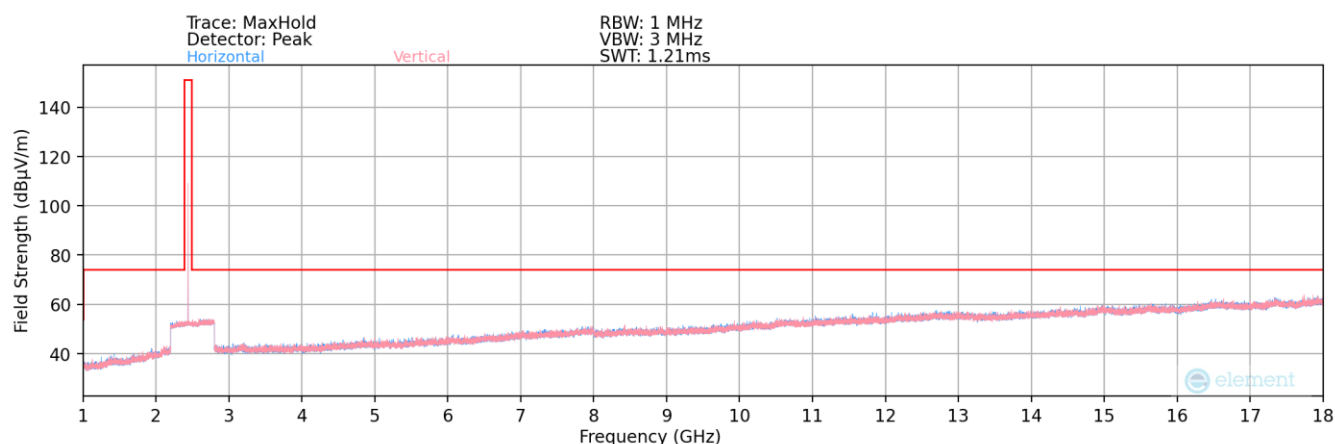
Table 7-18. Radiated Measurements – Ant 1 - WCP

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset		Page 118 of 144

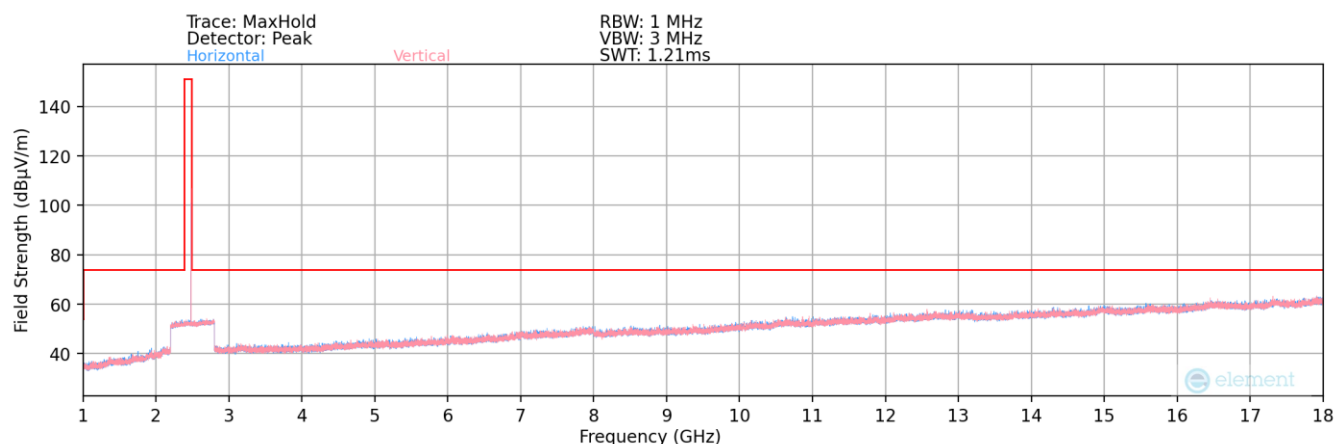
Radiated Spurious Emission Measurements



Plot 7-169. Radiated Spurious Plot above 1GHz (BT – Ch. 0) – Ant 2



Plot 7-170. Radiated Spurious Plot above 1GHz (BT – Ch. 39) – Ant 2

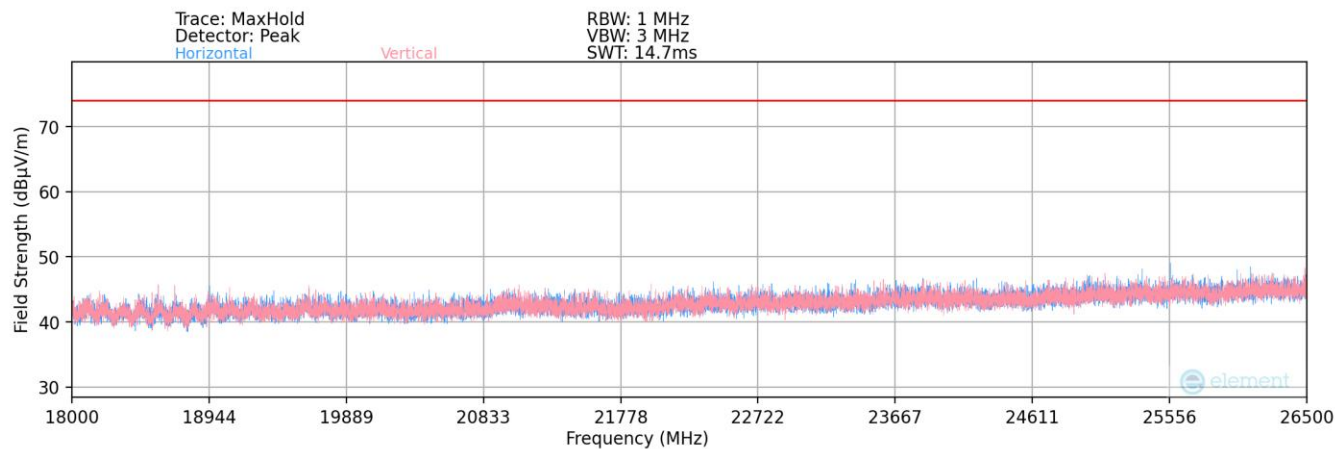


Plot 7-171. Radiated Spurious Plot above 1GHz (BT – Ch. 78) – Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 119 of 144



Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-172. Radiated Spurious Plot above 18GHz – Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 120 of 144

Radiated Spurious Emission Measurements

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

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	-	-	-79.38	6.79	34.41	53.98	-19.57
4804.00	Peak	H	-	-	-67.75	6.79	46.04	73.98	-27.94
12010.00	Avg	H	-	-	-81.93	18.61	43.68	53.98	-10.30
12010.00	Peak	H	-	-	-70.92	18.61	54.69	73.98	-19.29

Table 7-19. Radiated Measurements – Ant 2

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2441MHz
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]
4882.00	Avg	H	-	-	-79.78	7.15	34.37	53.98	-19.61
4882.00	Peak	H	-	-	-69.29	7.15	44.86	73.98	-29.12
7323.00	Avg	H	-	-	-80.44	12.52	39.08	53.98	-14.89
7323.00	Peak	H	-	-	-69.72	12.52	49.80	73.98	-24.17
12205.00	Avg	H	-	-	-81.53	19.32	44.79	53.98	-9.19
12205.00	Peak	H	-	-	-71.05	19.32	55.27	73.98	-18.71

Table 7-20. Radiated Measurements – Ant 2

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 121 of 144

Worst Case Mode: Bluetooth
 Worst Case Data Rate: 1 Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 78

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	-	-	-79.79	6.94	34.15	53.98	-19.83
4960.00	Peak	H	-	-	-68.96	6.94	44.98	73.98	-29.00
7440.00	Avg	H	-	-	-80.48	12.50	39.02	53.98	-14.96
7440.00	Peak	H	-	-	-69.39	12.50	50.11	73.98	-23.87
12400.00	Avg	H	-	-	-81.47	19.06	44.59	53.98	-9.39
12400.00	Peak	H	-	-	-70.37	19.06	55.69	73.98	-18.29

Table 7-21. Radiated Measurements – Ant 2

Worst Case Mode: Bluetooth
 Worst Case Data Rate: 1 Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2441MHz
 Channel: 39

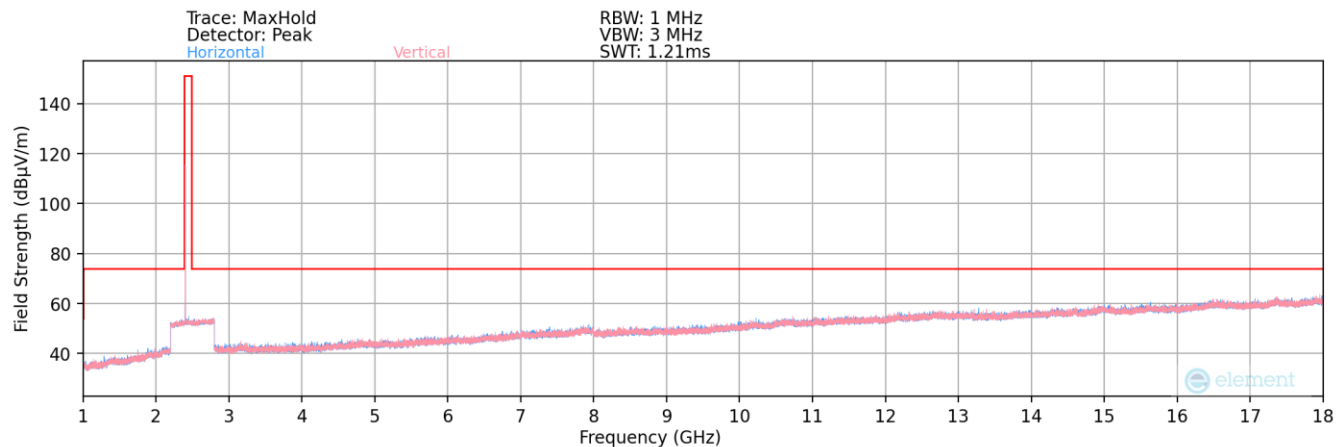
FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 122 of 144

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]
4882.00	Avg	H	-	-	-79.61	7.15	34.54	53.98	-19.44
4882.00	Peak	H	-	-	-68.48	7.15	45.67	73.98	-28.31
7323.00	Avg	H	-	-	-80.59	12.52	38.93	53.98	-15.04
7323.00	Peak	H	-	-	-69.43	12.52	50.09	73.98	-23.88
12205.00	Avg	H	-	-	-81.76	19.32	44.56	53.98	-9.42
12205.00	Peak	H	-	-	-71.50	19.32	54.82	73.98	-19.16

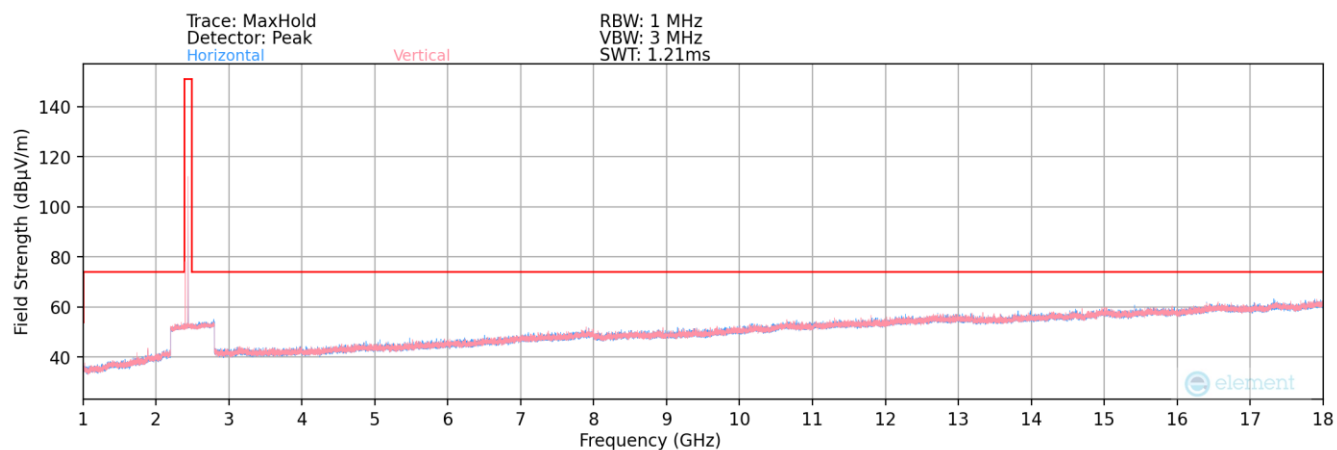
Table 7-22. Radiated Measurements – Ant 2 - WCP

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 123 of 144

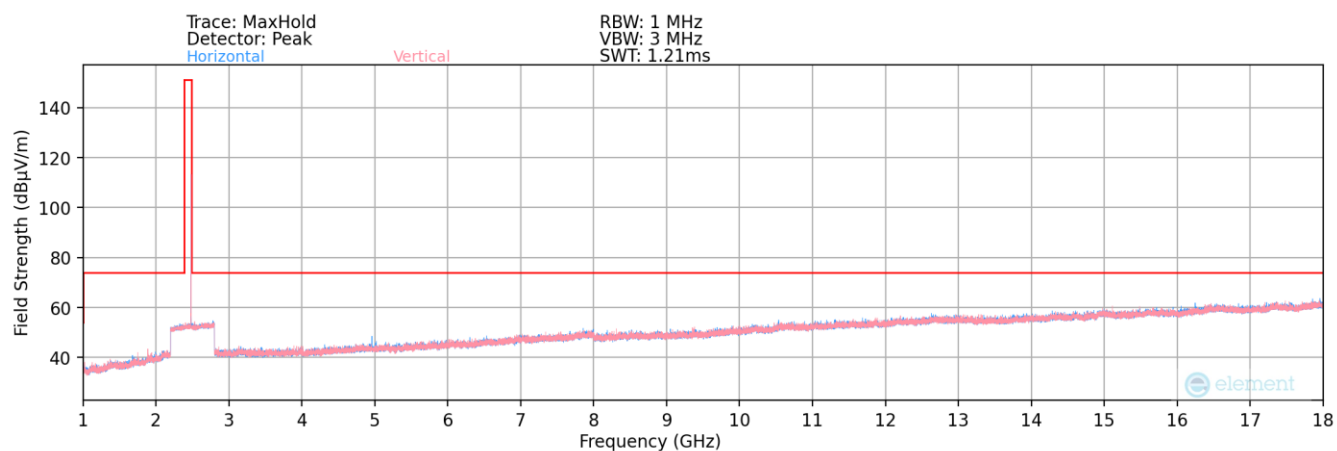
Radiated Spurious Emission Measurements



Plot 7-173. Radiated Spurious Plot above 1GHz (BT – Ch. 0) – Dual



Plot 7-174. Radiated Spurious Plot above 1GHz (BT – Ch. 39) – Dual

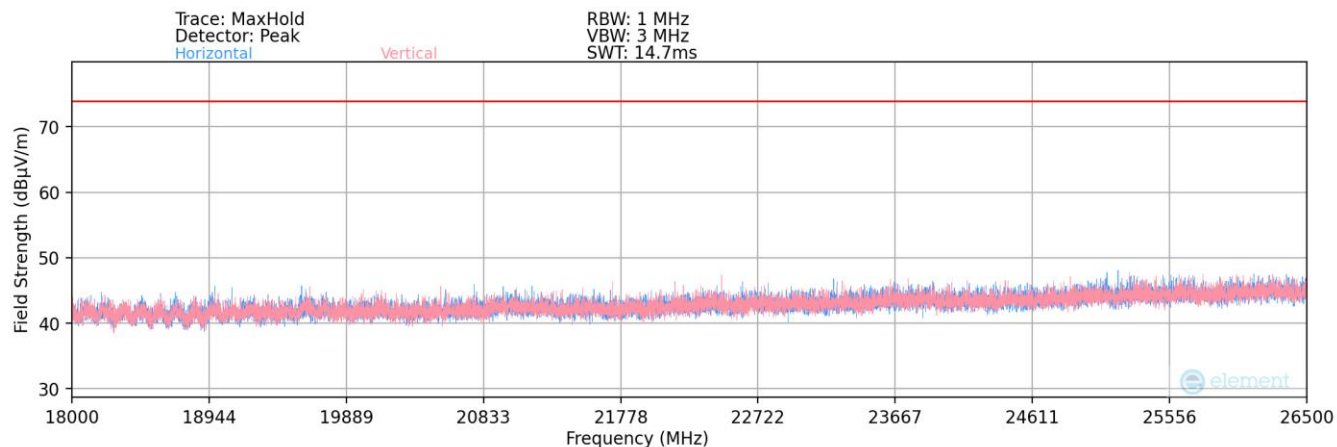


Plot 7-175. Radiated Spurious Plot above 1GHz (BT – Ch. 78) – Dual

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 124 of 144

Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-176. Radiated Spurious Plot above 18GHz – Dual

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 125 of 144

Radiated Spurious Emission Measurements

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4804.00	Avg	V	-	-	-79.25	6.79	0.00	34.54	53.98	-19.44
4804.00	Peak	V	-	-	-67.95	6.79	0.00	45.84	73.98	-28.14
12010.00	Avg	V	-	-	-81.90	18.61	0.00	43.71	53.98	-10.27
12010.00	Peak	V	-	-	-71.27	18.61	0.00	54.34	73.98	-19.64

Table 7-23. Radiated Measurements – Dual

Worst Case Mode: Bluetooth
Worst Case Data Rate: 1 Mbps
Measurement Distance: 3 Meters
Operating Frequency: 2441MHz
Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4882.00	Avg	V	277	337	-76.47	7.15	-22.50	15.18	53.98	-38.80
4882.00	Peak	V	277	337	-66.96	7.15	0.00	47.19	73.98	-26.79
7323.00	Avg	V	-	-	-80.56	12.52	0.00	38.96	53.98	-15.01
7323.00	Peak	V	-	-	-69.32	12.52	0.00	50.20	73.98	-23.77
12205.00	Avg	V	-	-	-81.75	19.32	0.00	44.57	53.98	-9.41
12205.00	Peak	V	-	-	-70.66	19.32	0.00	55.66	73.98	-18.32

Table 7-24. Radiated Measurements – Dual

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508250079-14.A3L	Test Dates: 9/2/2025 - 10/14/2025	EUT Type: Portable Handset	Page 126 of 144

Worst Case Mode: Bluetooth
 Worst Case Data Rate: 1 Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2480MHz
 Channel: 78

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4960.00	Avg	V	289	343	-77.93	6.94	-22.50	13.51	53.98	-40.47
4960.00	Peak	V	289	343	-67.51	6.94	0.00	46.43	73.98	-27.55
7440.00	Avg	V	-	-	-80.90	12.50	0.00	38.60	53.98	-15.38
7440.00	Peak	V	-	-	-69.75	12.50	0.00	49.75	73.98	-24.23
12400.00	Avg	V	-	-	-81.40	19.06	0.00	44.66	53.98	-9.32
12400.00	Peak	V	-	-	-70.90	19.06	0.00	55.16	73.98	-18.82

Table 7-25. Radiated Measurements – Dual

Worst Case Mode: Bluetooth
 Worst Case Data Rate: 1 Mbps
 Measurement Distance: 3 Meters
 Operating Frequency: 2441MHz
 Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Duty Cycle Correction [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4882.00	Avg	V	345	48	-78.07	7.15	-22.50	13.58	53.98	-40.40
4882.00	Peak	V	345	48	-67.30	7.15	0.00	46.85	73.98	-27.13
7323.00	Avg	V	-	-	-80.69	12.52	0.00	38.83	53.98	-15.14
7323.00	Peak	V	-	-	-69.47	12.52	0.00	50.05	73.98	-23.92
12205.00	Avg	V	-	-	-81.62	19.32	0.00	44.70	53.98	-9.28
12205.00	Peak	V	-	-	-70.96	19.32	0.00	55.36	73.98	-18.62

Table 7-26. Radiated Measurements with WCP – Dual

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.10 Radiated Restricted Band Edge Measurements

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

Test Overview and Limit

All out of band radiated emissions at the band edge are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power, at the appropriate frequencies, and with hopping disabled. 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 below per Section 15.209 and RSS-Gen (8.9).

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

Table 7-27. Radiated Limits

Test Procedure Used

ANSI C63.10:2020 – Section 6.10.5.2

Test Settings

- Span is set large enough to capture the peak level of the emission operating on the channel closest to the band edge
- Reference level offset is set with the appropriate corrections for the frequencies shown in the plots
- Reference level is set to provide the appropriate amount of “head room” above the signal as specified in ANSI C63.10:2020 Section 4.1.6.2
- Attenuation is set to a low enough level to maintain enough dynamic range between the noise floor and the radiated limit
- Sweep time = Auto coupled
- RBW = 1MHz
- VBW = 3 x RBW for peak measurements and 1kHz for RMS measurements
- Detector = RMS and peak
- Trace = Max Hold
- Trace was allowed to stabilize

FCC ID: A3LSMS948B	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.

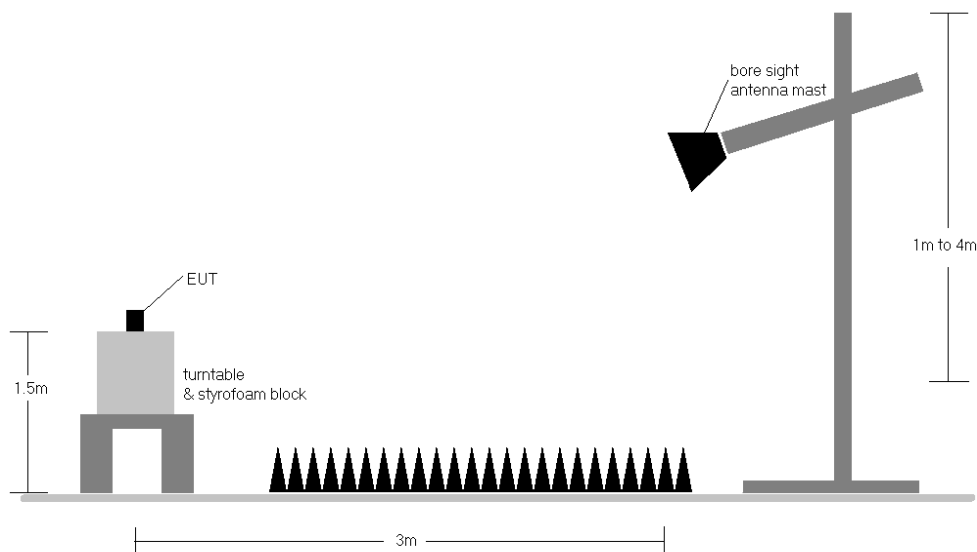


Figure 7-9. Radiated Test Setup >1GHz

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limits shown in §15.209.
2. No significant radiated emissions were found in the 2310 - 2390MHz restricted band.
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 and the worst-case emissions are reported.
6. Two different amplitude offsets were used depending on whether peak or average measurements were measured. The average measurements use a duty cycle correction factor (DCCF).

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

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

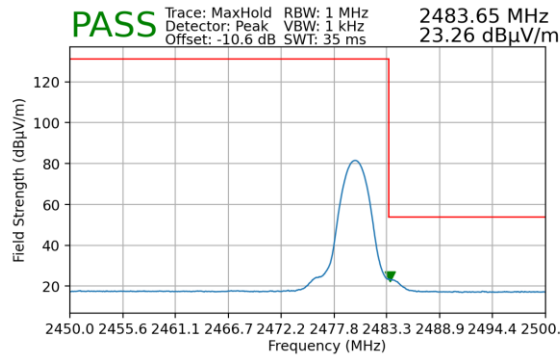
7. The "-" shown in the following RSE tables is used to denote a noise floor measurement.

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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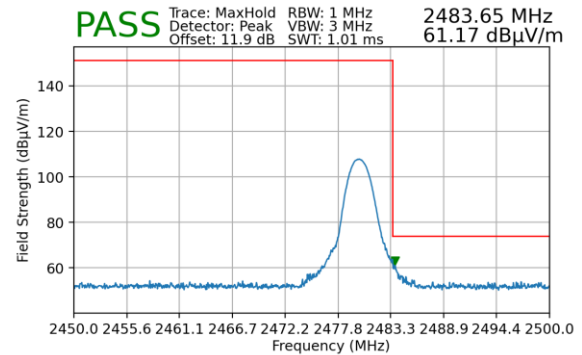
Radiated Restricted Band Edge Measurements – Ant 1

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

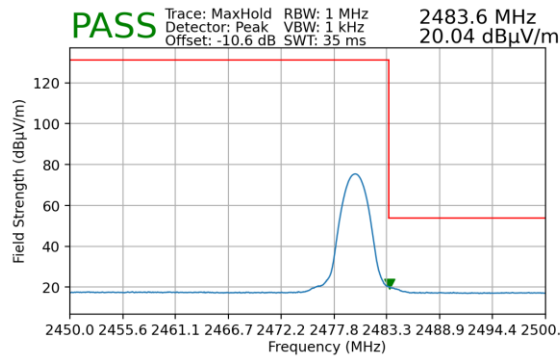
Worst Case Mode:	Bluetooth
Worst Case Data Rate:	3 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



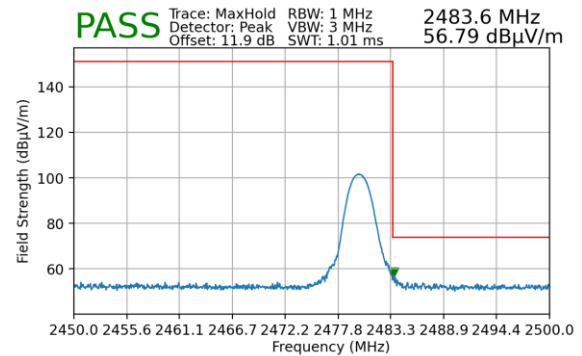
Plot 7-177. Radiated Restricted Upper Band Edge Measurement (Average)



Plot 7-178. Radiated Restricted Upper Band Edge Measurement (Peak)



Plot 7-179. Radiated Restricted Upper Band Edge Measurement (Average) – with WCP



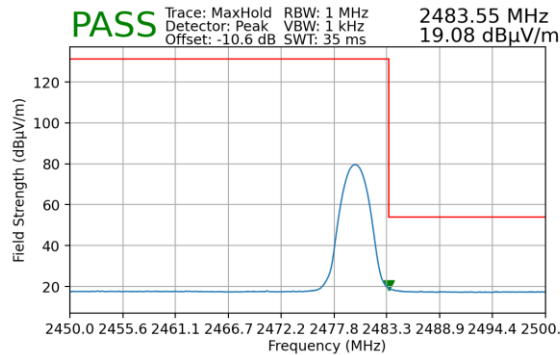
Plot 7-180. Radiated Restricted Upper Band Edge Measurement (Peak) – with WCP

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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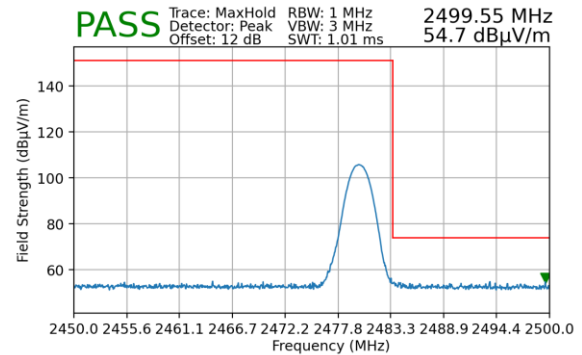
Radiated Restricted Band Edge Measurements – Ant 2

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

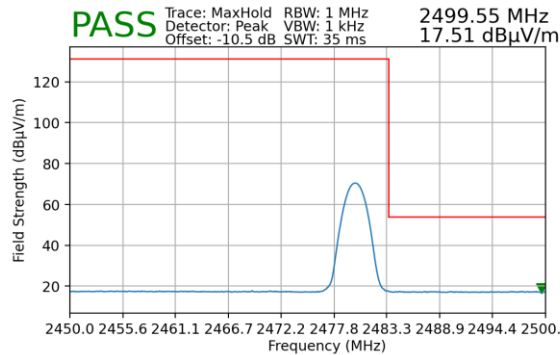
Worst Case Mode:	Bluetooth
Worst Case Data Rate:	3 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



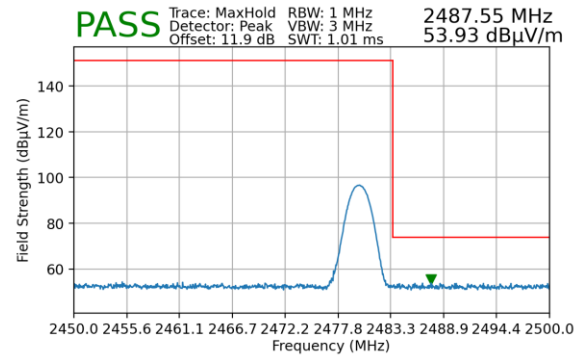
Plot 7-181. Radiated Restricted Upper Band Edge Measurement (Average)



Plot 7-182. Radiated Restricted Upper Band Edge Measurement (Peak)



Plot 7-183. Radiated Restricted Upper Band Edge Measurement (Average) – with WCP



Plot 7-184. Radiated Restricted Upper Band Edge Measurement (Peak) – with WCP

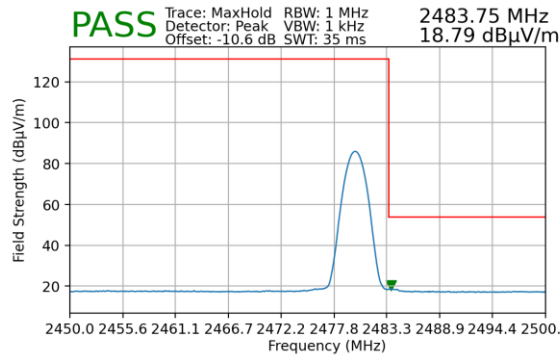
FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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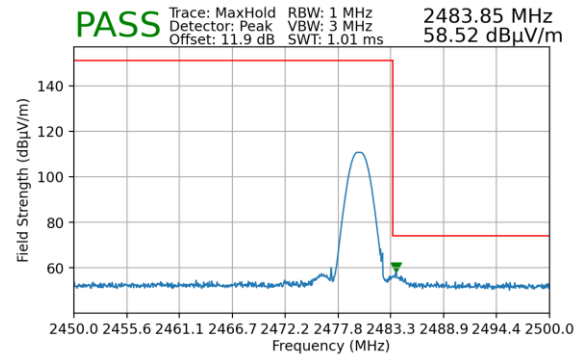
Radiated Restricted Band Edge Measurements – Dual

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

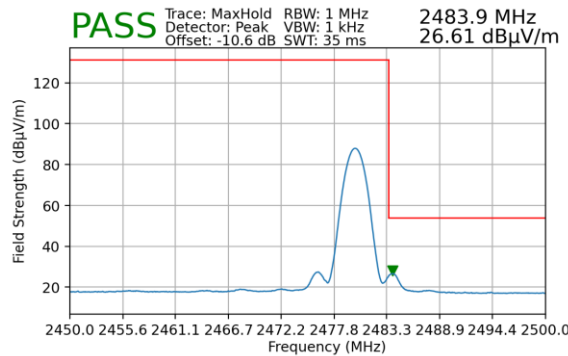
Worst Case Mode:	Bluetooth
Worst Case Data Rate:	3 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



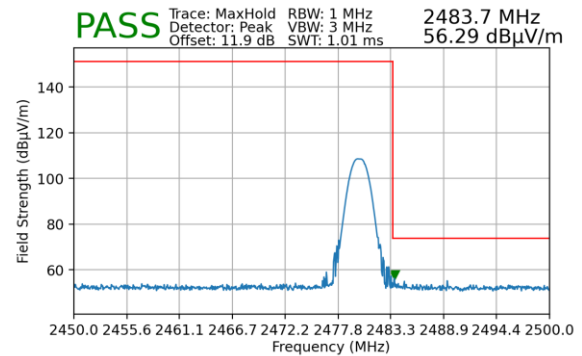
Plot 7-185. Radiated Restricted Upper Band Edge Measurement (Average)



Plot 7-186. Radiated Restricted Upper Band Edge Measurement (Peak)



Plot 7-187. Radiated Restricted Upper Band Edge Measurement (Average) – with WCP



Plot 7-188. Radiated Restricted Upper Band Edge Measurement (Peak) – with WCP

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7.11 Radiated Spurious Emissions Measurements – 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 must not exceed the limits shown below 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 7-28. 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

FCC ID: A3LSMS948B	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 diagrams below.

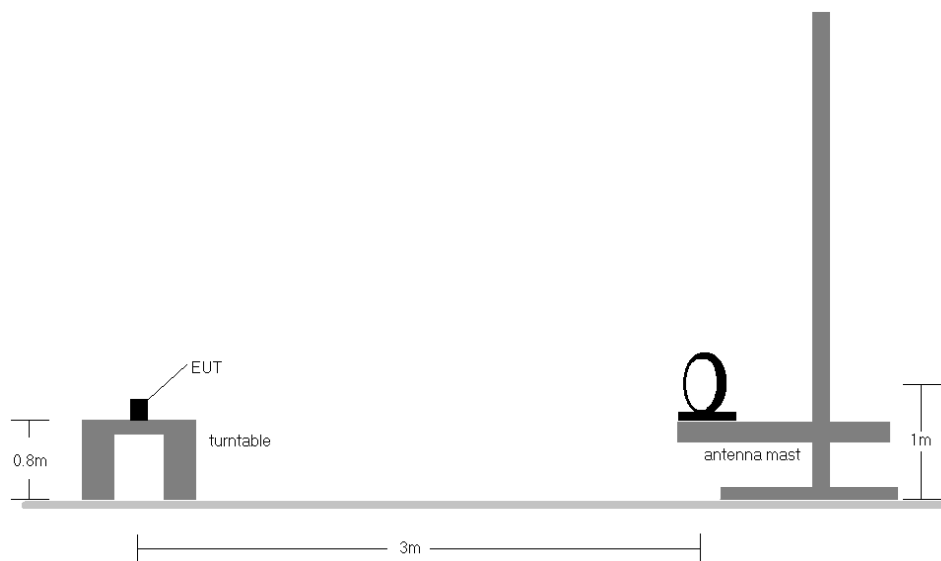


Figure 7-10. Radiated Test Setup < 30Mhz

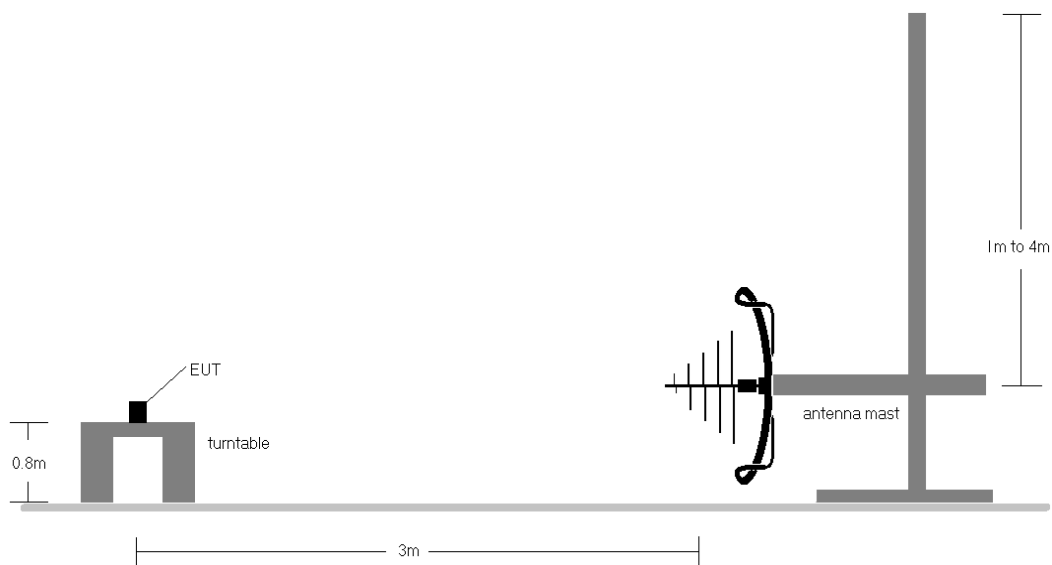


Figure 7-11. Radiated Test Setup < 1GHz

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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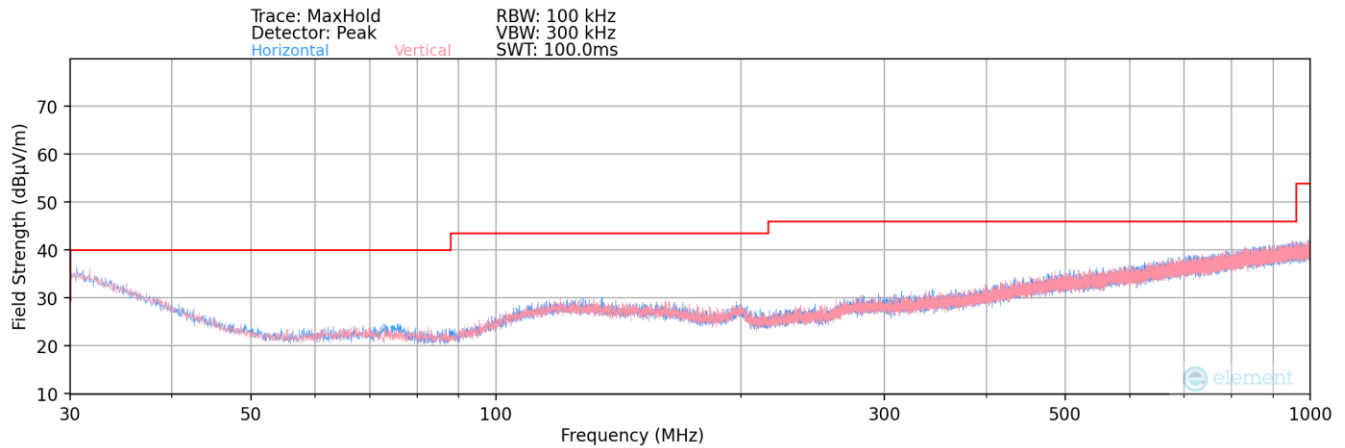
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limits shown in §15.209.
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)

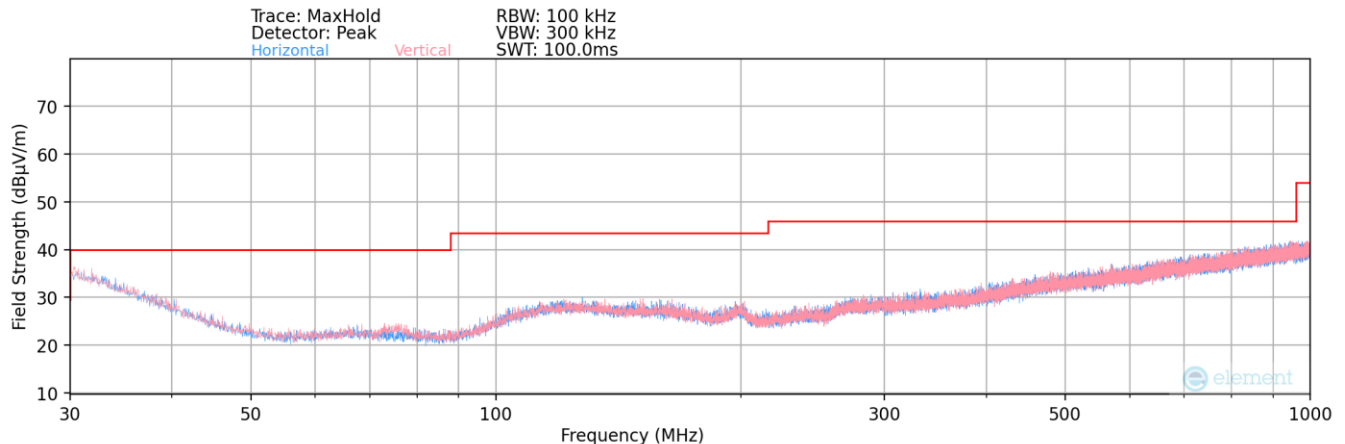
\$15.209; RSS-Gen [8.9]



Plot 7-189. Radiated Spurious Plot below 1GHz – Ant 1

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]
348.00	Quasi-Peak	V	-	-	-108.96	22.08	20.12	46.02	-25.90

Table 7-29. Radiated Spurious Emissions Below 1GHz – Ant 1

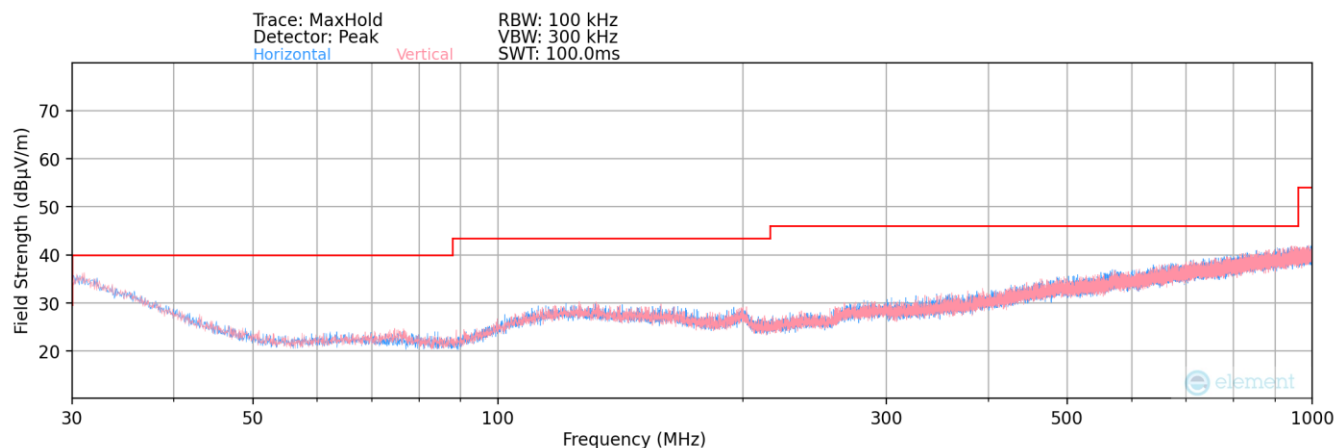


Plot 7-190. Radiated Spurious Plot below 1GHz – Ant 2

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]
332.00	Quasi-Peak	H	-	-	-108.89	21.82	19.93	46.02	-26.10

Table 7-30. Radiated Spurious Emissions Below 1GHz – Ant 2

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Plot 7-191. Radiated Spurious Plot below 1GHz – Dual

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]
566.00	Quasi-Peak	V	-	-	-108.38	26.93	25.55	46.02	-20.47

Table 7-31. Radiated Spurious Emissions Below 1GHz – Dual

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7.12 Line Conducted Measurement Data

§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 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 (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-32. 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.

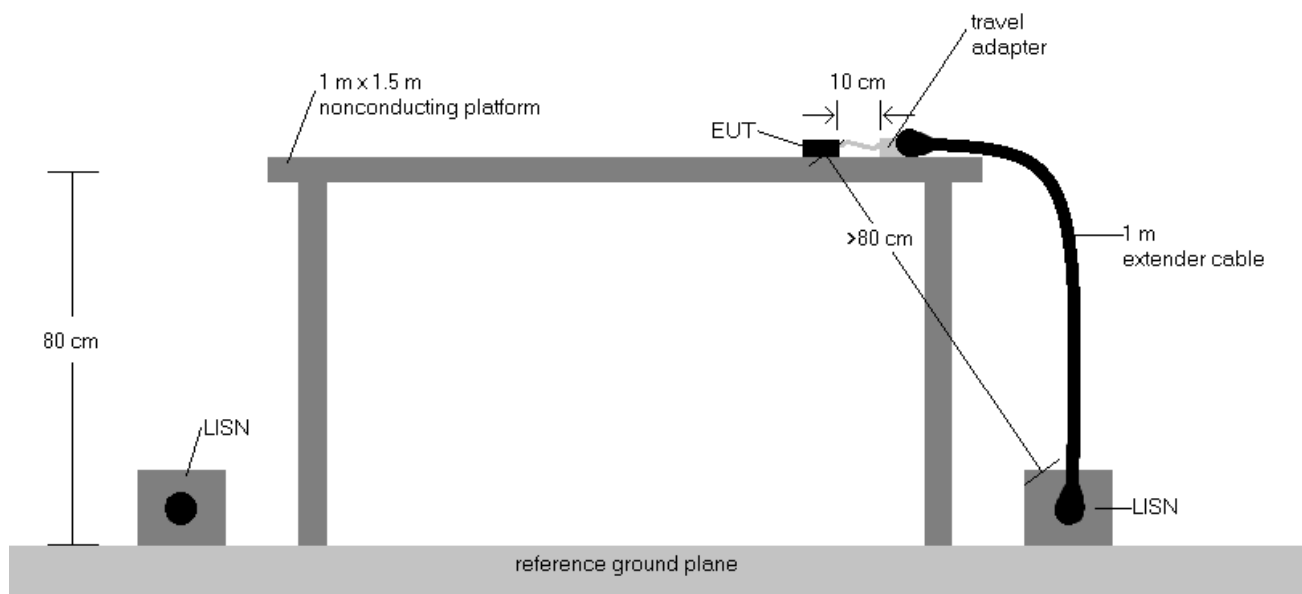
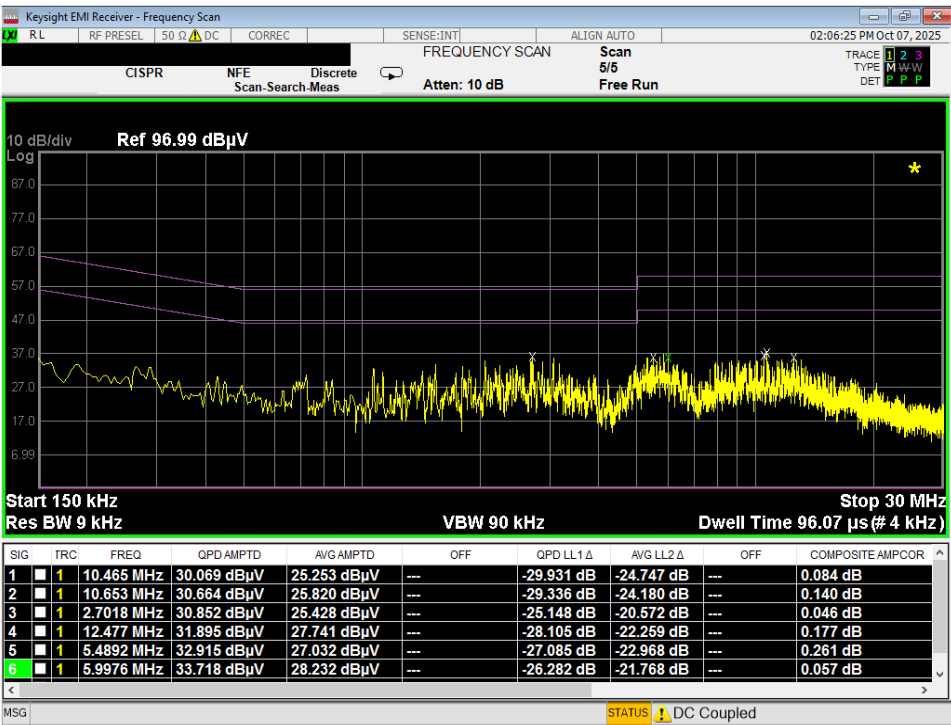


Figure 7-12. Test Instrument & Measurement Setup

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 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 7-192. Line-Conducted Test Plot (L1)

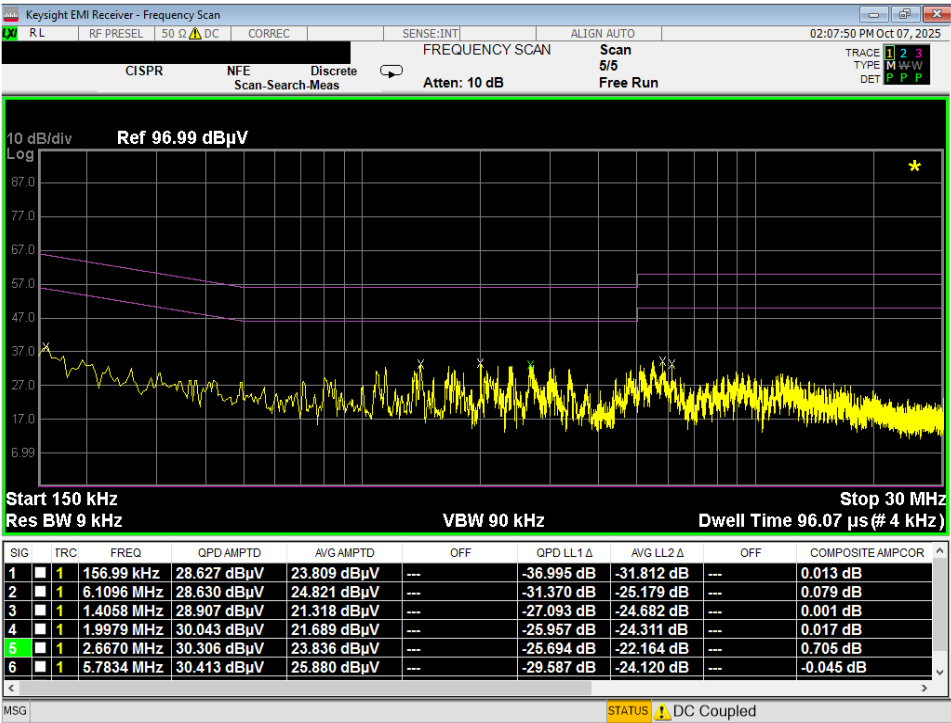
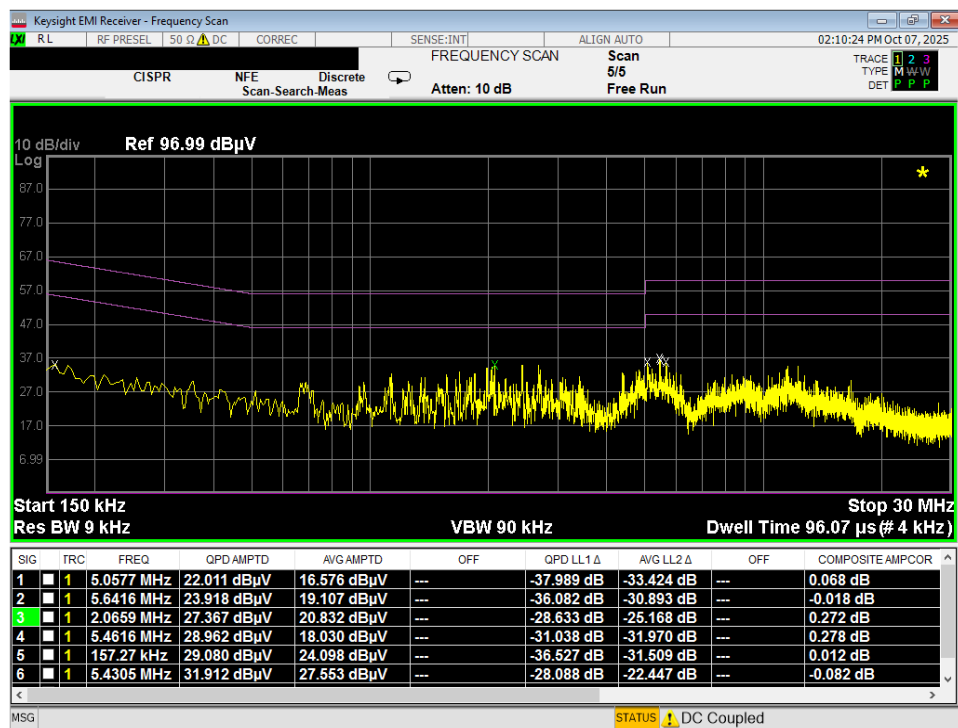


Table 7-33. Line-Conducted Test Data (N)

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Plot 7-193. Line-Conducted Test Plot (L1) - WCP

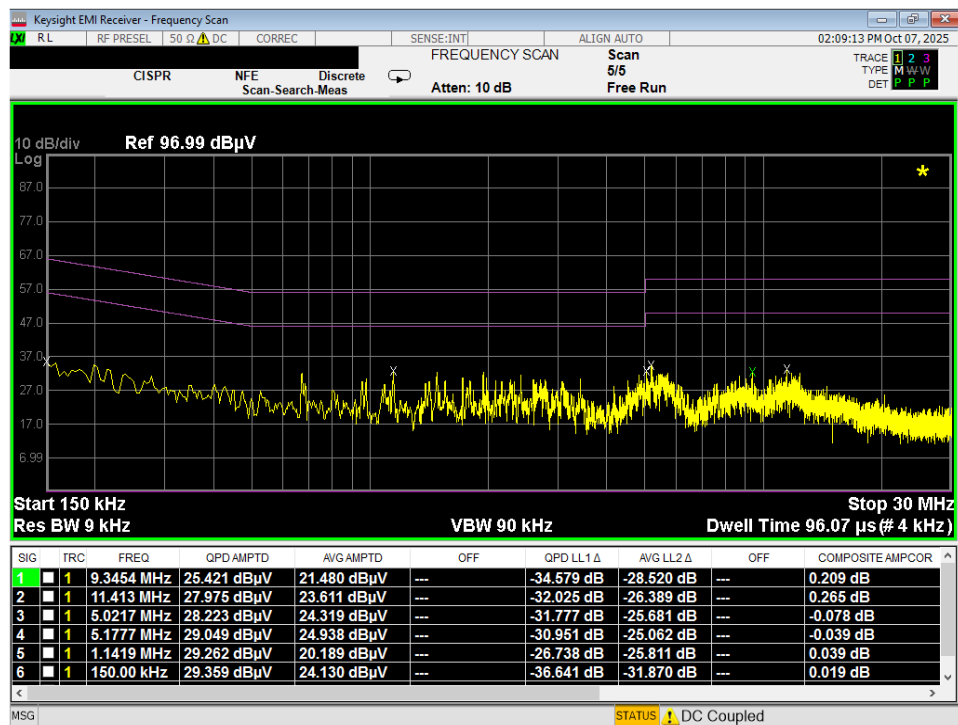


Table 7-34. Line-Conducted Test Data (N) - WCP

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS948B** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules. The data referenced from **FCC ID: A3LSMS948U** (Model SM-S948U) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMS948B**.

FCC ID: A3LSMS948B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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9.0 APPENDIX A – DATA REFERENCING SPOT-CHECKS

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.10-2020.

Notes

- Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

Conducted Spot-Checks – SM-S948B/DS

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2441	1.0	39	19.86	96.828

Table 9-1. Conducted Output Power Measurements (Spot-check) – SISO ANT1

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2441	1.0	39	18.64	73.114

Table 9-2. Conducted Output Power Measurements (Spot-check) – SISO ANT2

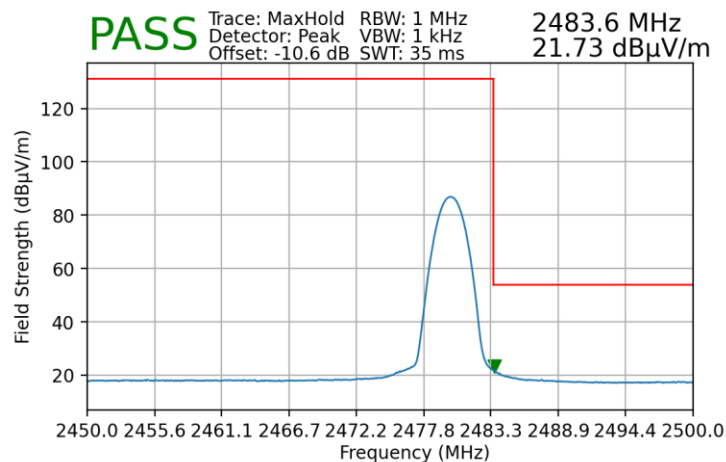
Radiated Spot-Checks – SM- S948B/DS

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]
4882.00	Avg	V	-	-	-78.91	6.65	34.74	53.98	-19.24

Table 9-3. RSE Measurements (Spot-check)

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Worst Case Mode:	Bluetooth
Worst Case Data Rate:	3 Mbps
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	78



Plot 9-1. Radiated Restricted Upper Band Edge Measurement (Average) – Spot-check

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-S948U	Variant Model: SM-S948B/DS	Deviation (dB)	Max Deviation (dB)	Pass/Fail
15.247(b)(1)	Conducted Output Power	SISO ANT1 - 1M - CH39 - AVG	dBm	N/A	19.55	19.86	0.31	1	PASS
		SISO ANT2 - 1M - CH39 - AVG	dBm	N/A	18.8	18.64	-0.16	1	PASS
15.209	Radiated Spurious Emissions	DUAL - Ch.39 - Average - 4882MHz	dBuV/m	53.98	34.33	34.74	0.41	3	PASS
15.209	Radiated Band Edge Emissions	DUAL Ch.78 - Average	dBuV/m	53.98	20.10	21.73	1.63	3	PASS

- END OF TEST REPORT -

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