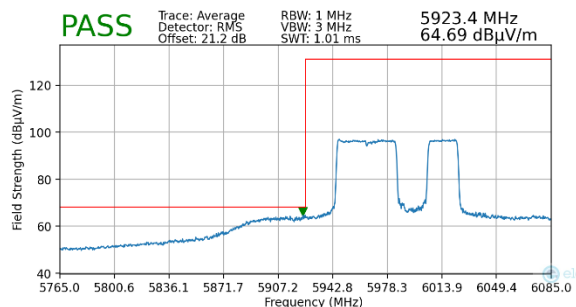
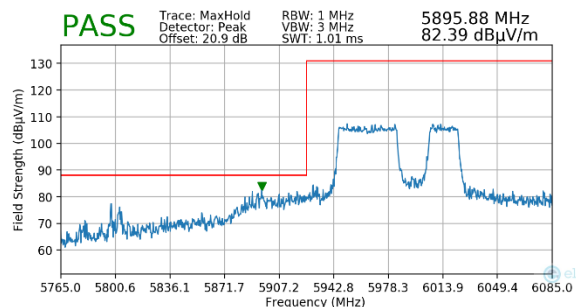


7.8.5 MIMO Radiated Band Edge Measurements (80MHz BW - Punctured)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7



**Plot 7-84. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 5)**

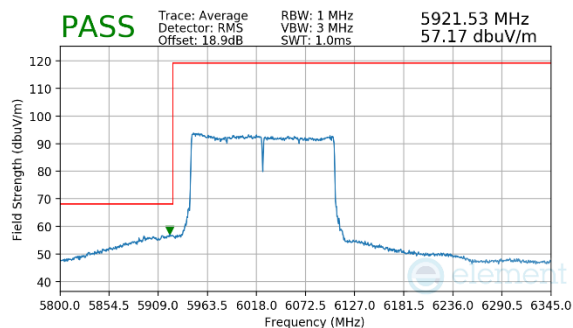


**Plot 7-85. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 5)**

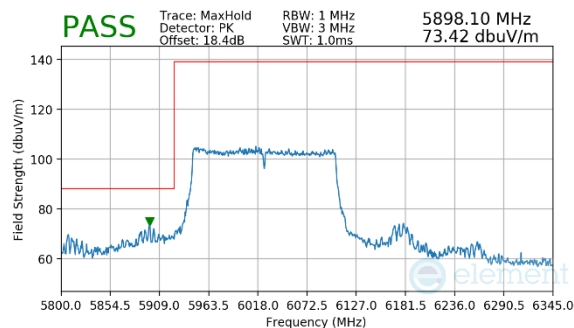
FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 92 of 103

7.8.6 MIMO Radiated Band Edge Measurements (160MHz BW)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



**Plot 7-86. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 5)**

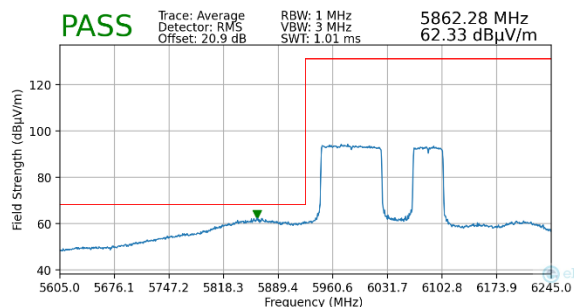


**Plot 7-87. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 5)**

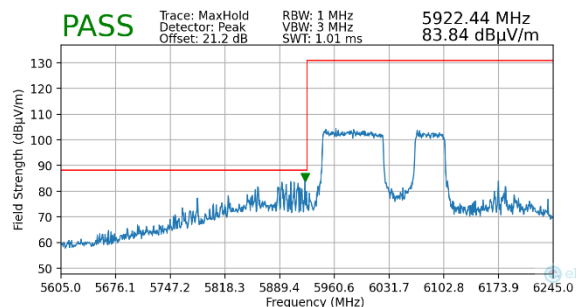
FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 93 of 103

7.8.7 MIMO Radiated Band Edge Measurements (160MHz BW - Punctured)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



Plot 7-88. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 5)

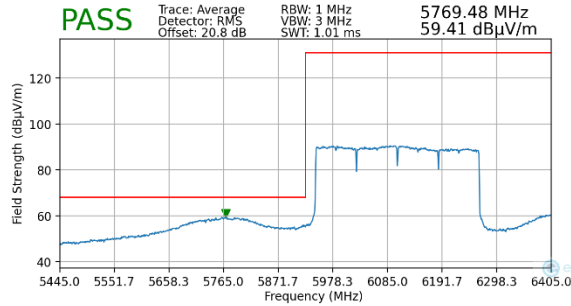


Plot 7-89. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 5)

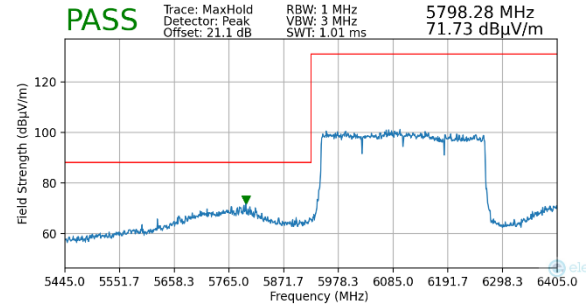
FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 94 of 103

7.8.8 MIMO Radiated Band Edge Measurements (320MHz BW)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6105MHz
Channel:	31

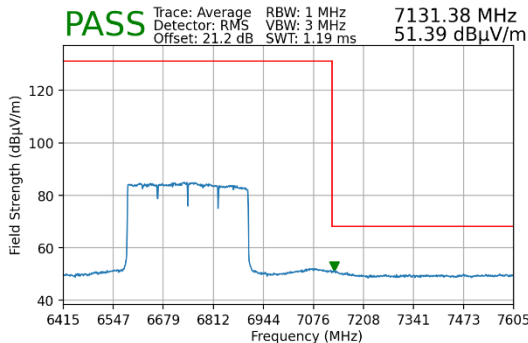


Plot 7-90. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

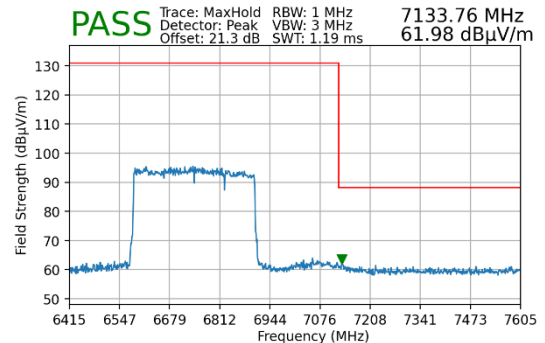


Plot 7-91. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6745MHz
Channel:	159



Plot 7-92. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 7)



Plot 7-93. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 7)

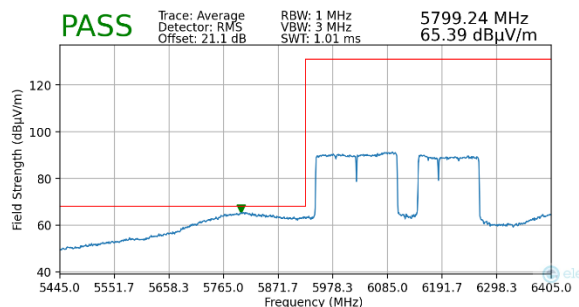
Note:

The highest channel of operation for VLP mode lies within the UNII-7 band (6525 - 6875MHz) which is far from the band edge at 7125MHz. We have investigated the band edge emissions at the upper edge of 7125MHz and are only including the worst-case upper band edge measurements as shown on this page.

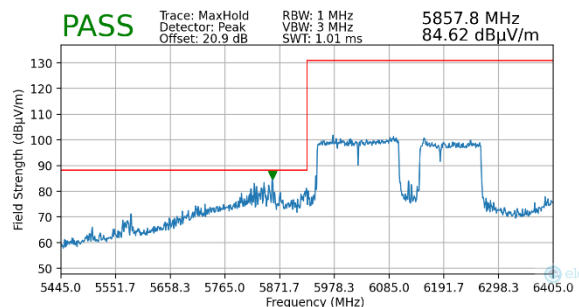
FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 95 of 103

7.8.9 MIMO Radiated Band Edge Measurements (320MHz BW – Punctured)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6105MHz
Channel:	31



Plot 7-94. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)



Plot 7-95. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 96 of 103

7.9 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.

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 7-51. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, 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.

FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 97 of 103

Test Setup

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

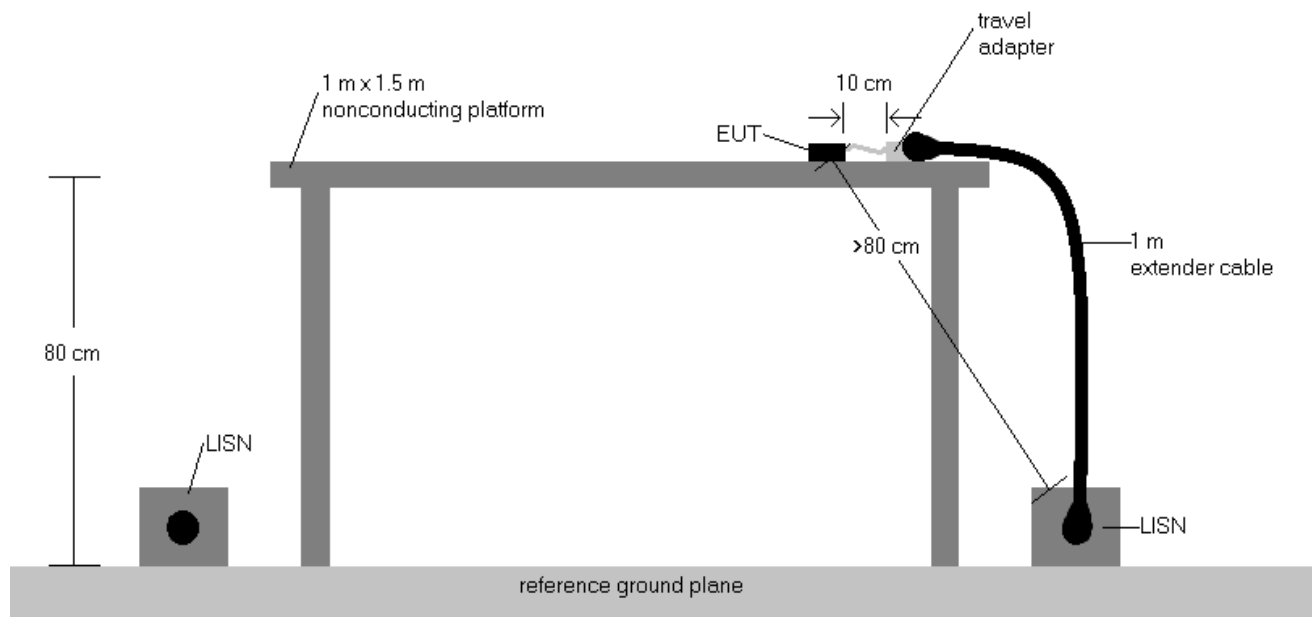
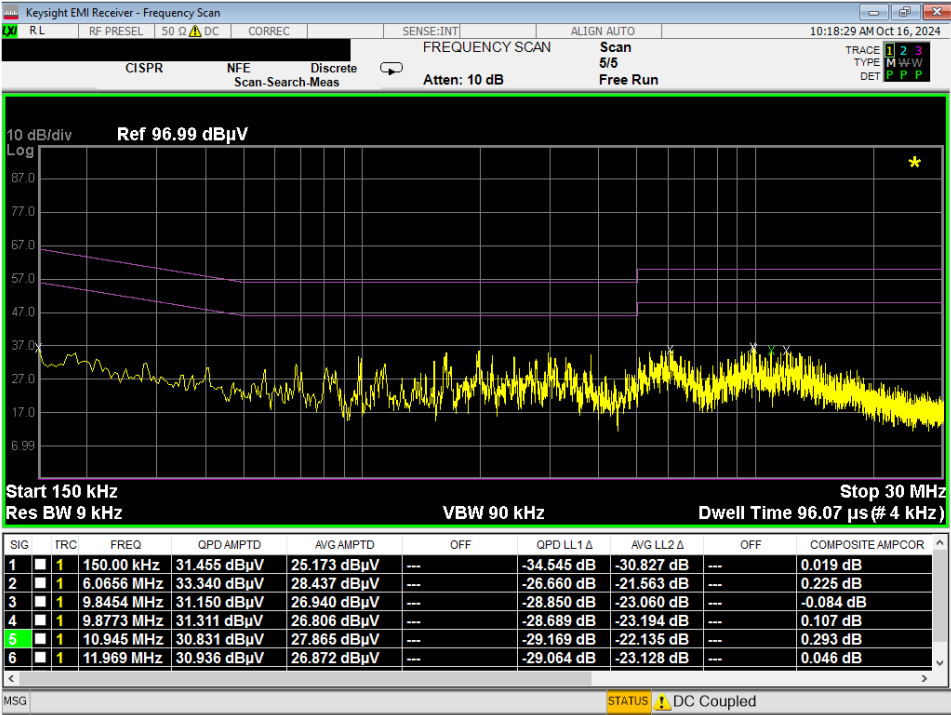


Figure 7-10. Test Instrument & Measurement Setup

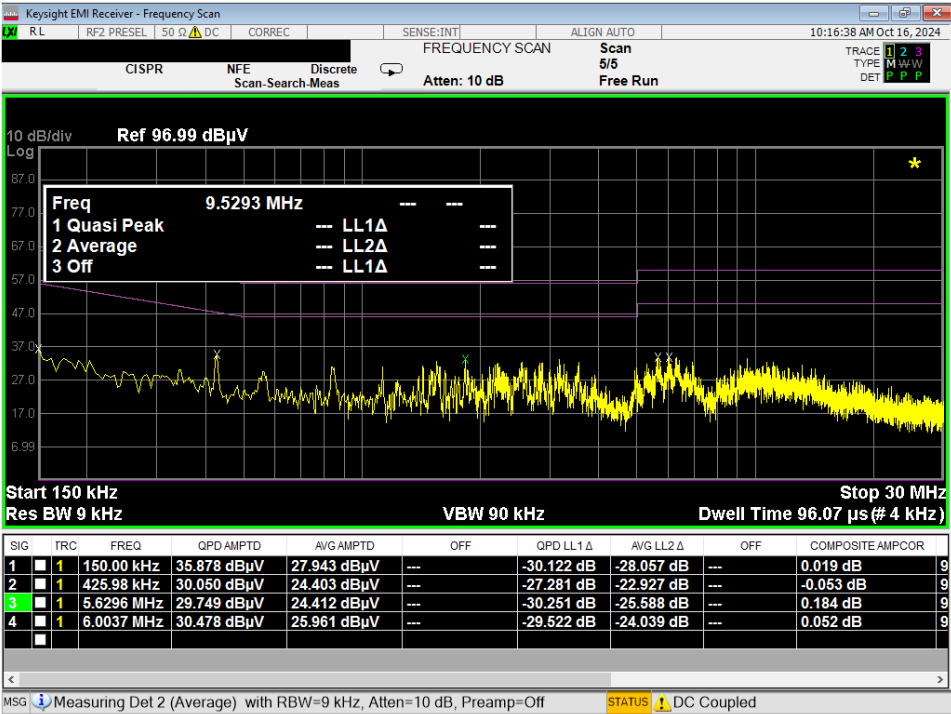
Test Notes

1. All modes of operation were investigated, and the worst-case emissions are reported 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 is specified in 15.207.
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.

FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 98 of 103

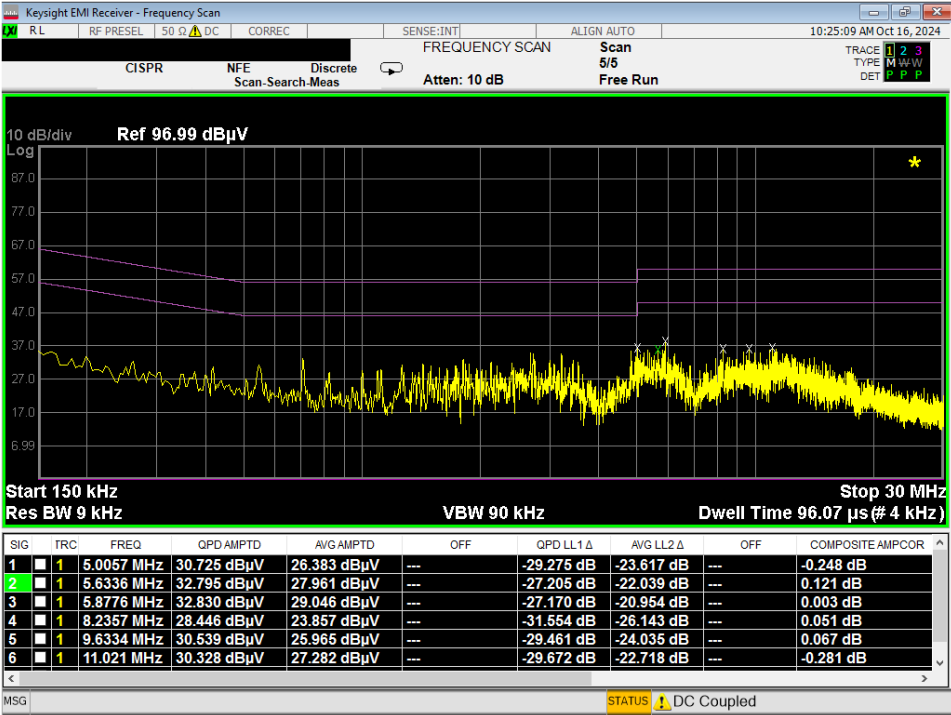


Plot 7-96. Line Conducted Plot with 802.11a UNII Band 5 (L1)

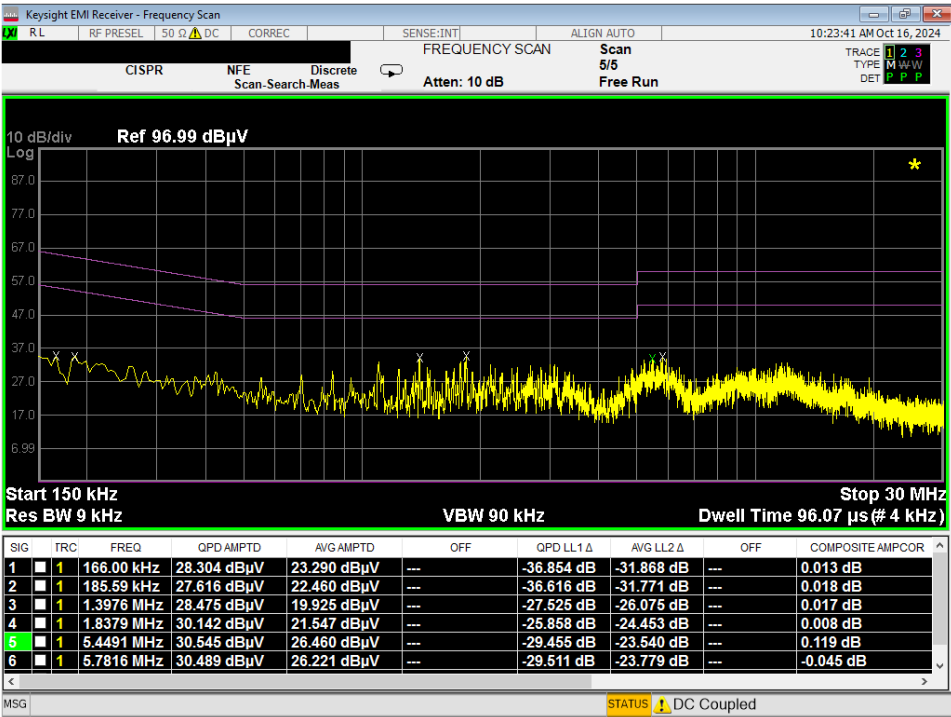


Plot 7-97. Line Conducted Plot with 802.11a UNII Band 5 (N)

FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 99 of 103

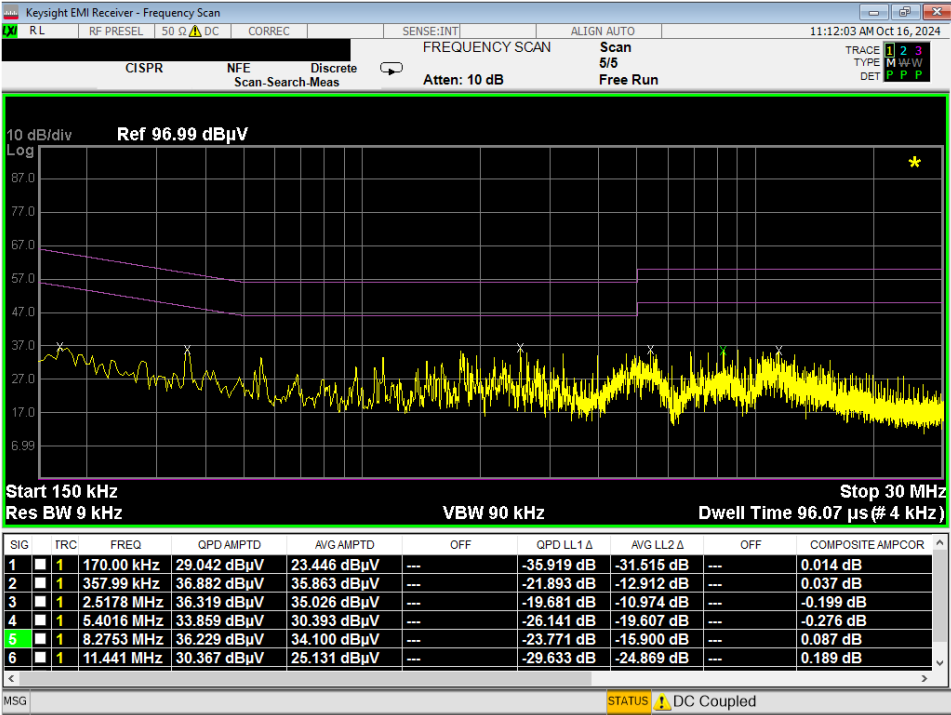


Plot 7-98. Line Conducted Plot with 802.11a UNII Band 7 (L1)

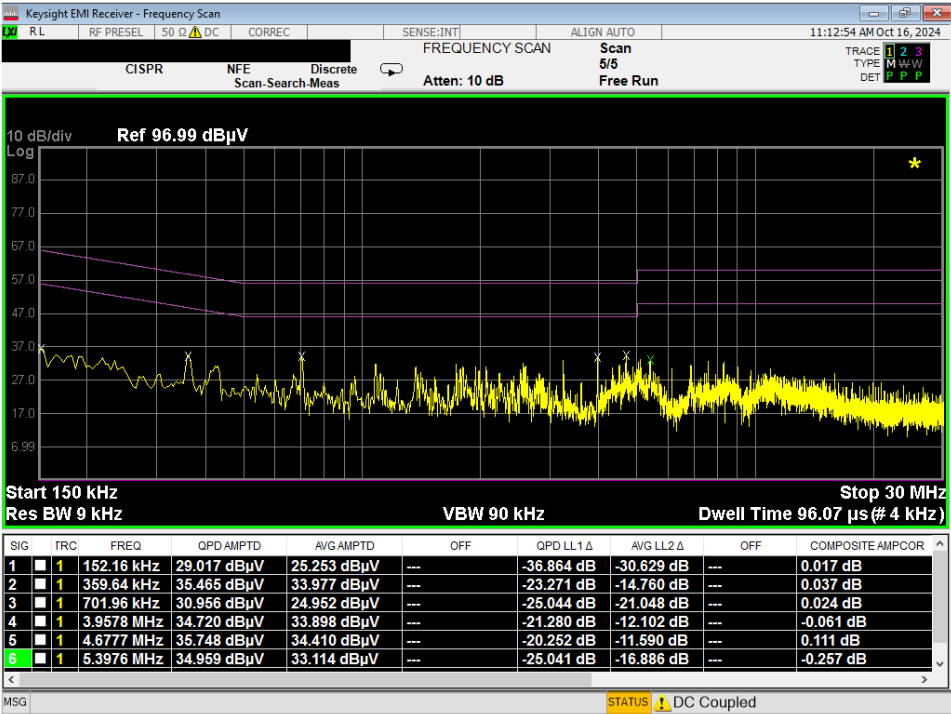


Plot 7-99. Line Conducted Plot with 802.11a UNII Band 7 (N)

FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 100 of 103

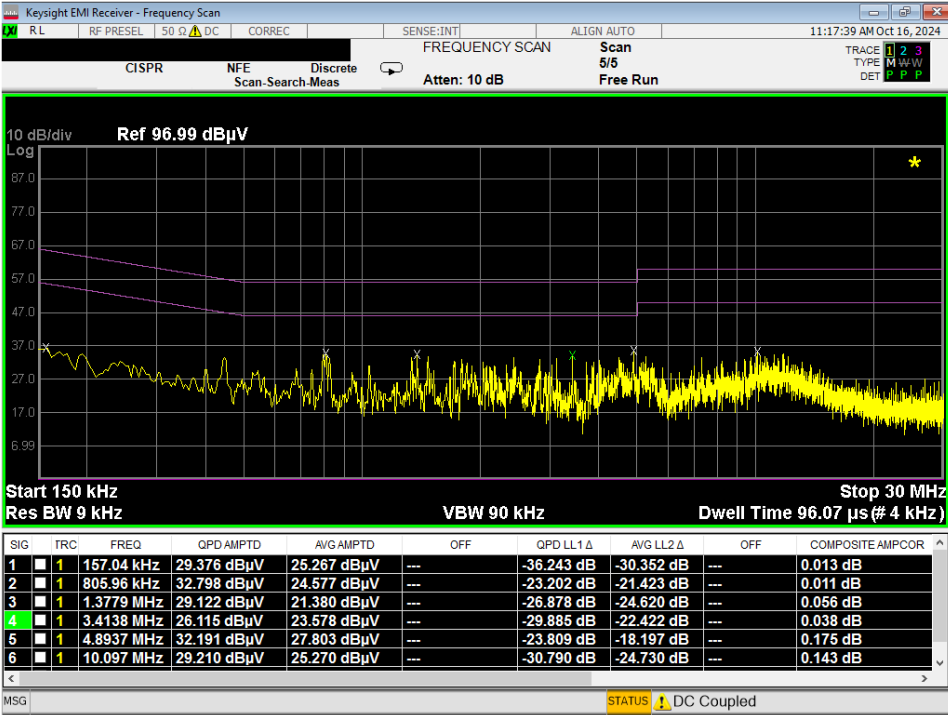


Plot 7-100. Line Conducted Plot with 802.11a UNII Band 5 (L1) with WCP

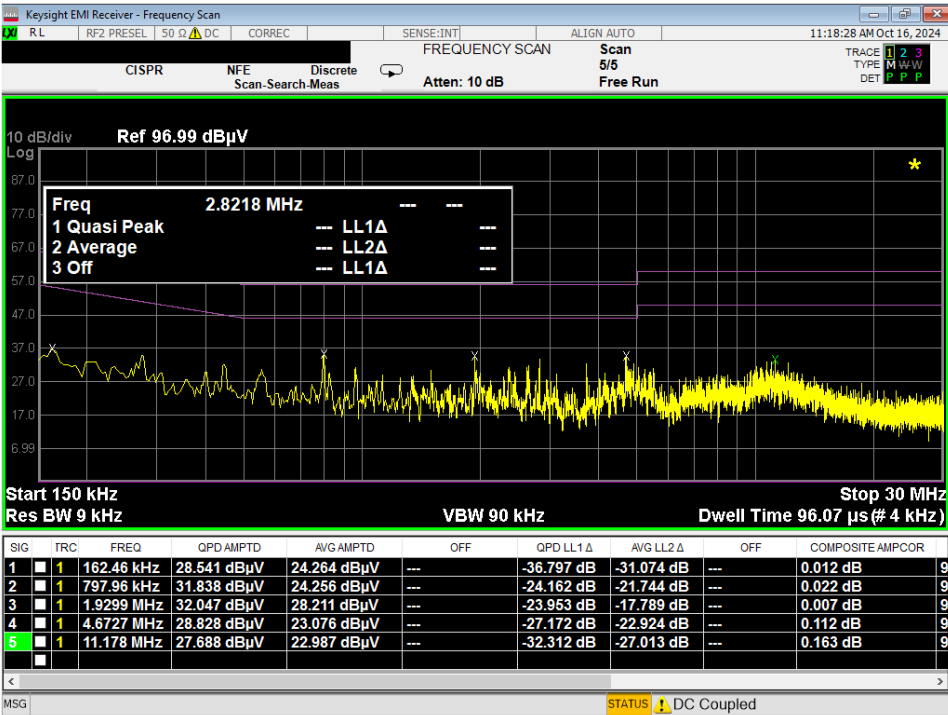


Plot 7-101. Line Conducted Plot with 802.11a UNII Band 5 (N) with WCP

FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 101 of 103



Plot 7-102. Line Conducted Plot with 802.11a UNII Band 7 (L1) with WCP



Plot 7-103. Line Conducted Plot with 802.11a UNII Band 7 (N) with WCP

FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 102 of 103

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS938U** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a Very Low Power Device.

FCC ID: A3LSMS938U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-32-R1.A3L	Test Dates: 09/03/2024 - 11/05/2024	EUT Type: Portable Handset	Page 103 of 103