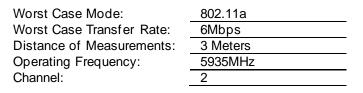
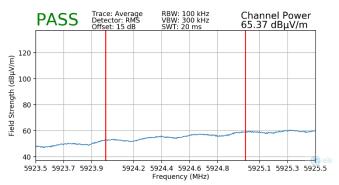


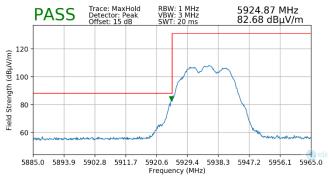
### 7.7.2 MIMO Radiated Band Edge Measurements (20MHz BW)



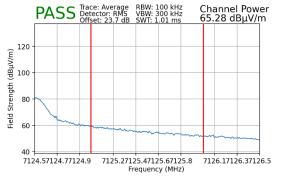


Plot 7-88. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

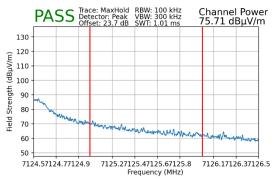
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



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



Plot 7-90. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)

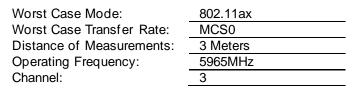


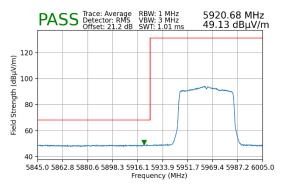
Plot 7-91. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC ID: A3LSMG766U		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 80 of 00
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 89 of 99
© 2025 ELEMENT	·		V 11.2 9/11/2024



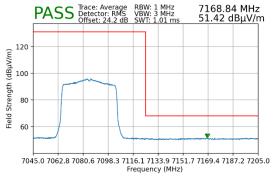
# 7.7.3 MIMO Radiated Band Edge Measurements (40MHz BW)

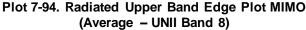


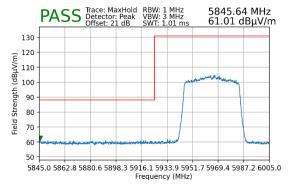


Plot 7-92. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

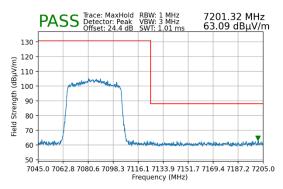
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227







Plot 7-93. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

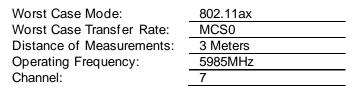


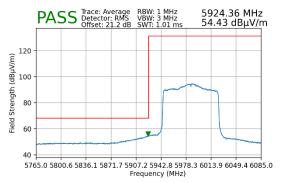
Plot 7-95. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC ID: A3LSMG766U		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dama 00 of 00
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 90 of 99
© 2025 ELEMENT	•	•	V 11.2 9/11/2024



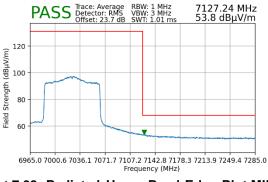
# 7.7.4 MIMO Radiated Band Edge Measurements (80MHz BW)



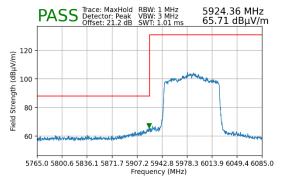


Plot 7-96. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

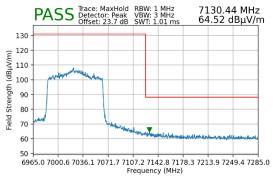
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-98. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)



Plot 7-97. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)

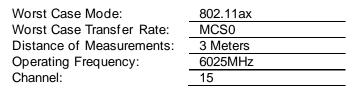


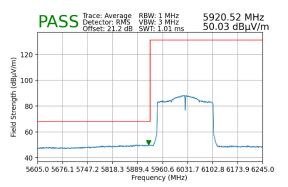
Plot 7-99. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC ID: A3LSMG766U		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 01 of 00
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 91 of 99
© 2025 ELEMENT	•		V 11.2 9/11/2024



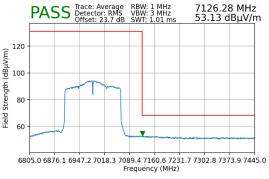
# 7.7.5 MIMO Radiated Band Edge Measurements (160MHz BW)



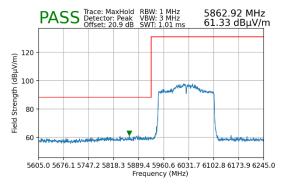


Plot 7-100. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

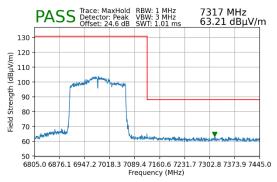
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-102. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)



Plot 7-101. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)



Plot 7-103. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)

FCC ID: A3LSMG766U		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dama 02 of 00
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 92 of 99
© 2025 ELEMENT	•		V 11.2 9/11/2024



# 7.8 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)	emission 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 7-26. 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

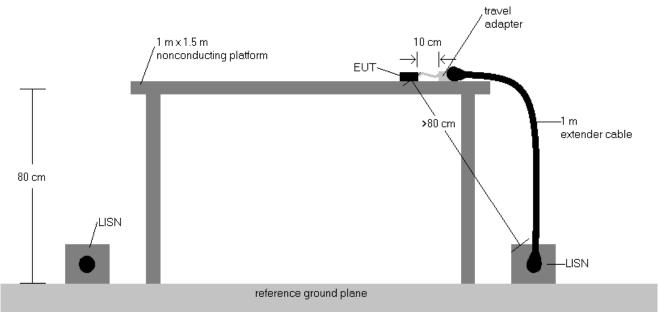
- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest.
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize.

FCC ID: A3LSMG766U		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Bara 02 of 00
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 93 of 99
© 2025 ELEMENT			V 11 2 9/11/2024



### Test Setup

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



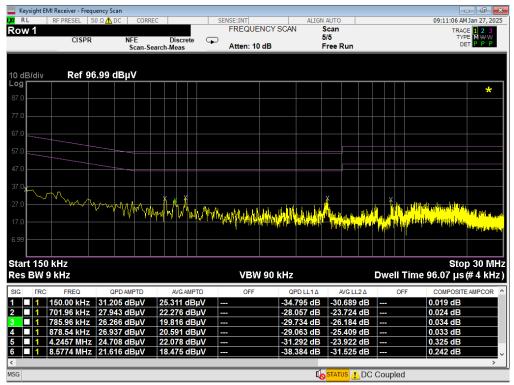


### Test Notes

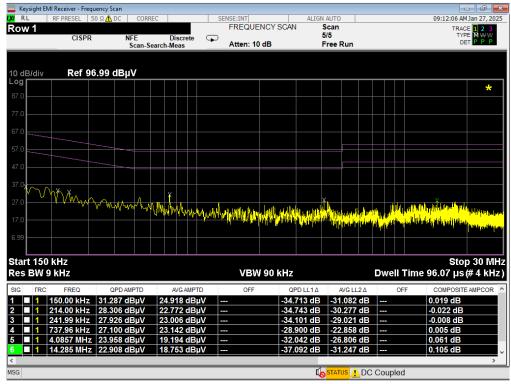
- 1. All modes of operation were investigated, and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz is specified in 15.207.
- 3. Corr. (dB) = Cable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

FCC ID: A3LSMG766U		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 04 of 00
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 94 of 99
© 2025 ELEMENT	·	· · ·	V 11.2 9/11/2024





Plot 7-104. Line Conducted Plot with 802.11a UNII Band 5 (L1)



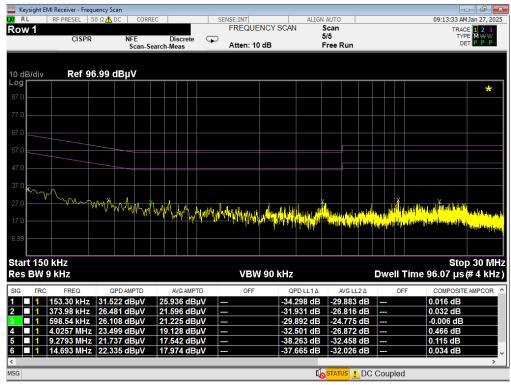
Plot 7-105. Line Conducted Plot with 802.11a UNII Band 5 (N)

FCC ID: A3LSMG766U		MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 05 of 00
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 95 of 99
© 2025 ELEMENT	·	· · · · ·	V 11.2 9/11/2024



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	CISPR		Discrete 🖵 arch-Meas	Atten: 10 dB		ree Run		DET P P P
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6.99								
Star	150 kHz							Stop 30 MHz
	BW 9 kHz			<b>VBW 90</b>	kHz		Owell Time	96.07 µs(#4 kHz)
SIG	TRC FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
	1 154.00 kHz	31.341 dBµV	26.055 dBµV		-34.440 dB	-29.726 dB		0.015 dB
2	1 317.99 kHz	28.079 dBµV	24.223 dBµV		-31.680 dB	-25.536 dB		0.006 dB
3	1 677.62 kHz	27.296 dBµV 27.666 dBµV	22.535 dBµV 21.510 dBµV		-28.704 dB -28.334 dB	-23.465 dB -24.490 dB		0.044 dB 0.029 dB
4 5		22.760 dBµV	17.979 dBµV		-28.334 dB -33.240 dB	-24.490 dB -28.021 dB		0.029 dB
6		24.148 dBµV	20.248 dBµV		-35.852 dB	-29.752 dB		0.229 dB
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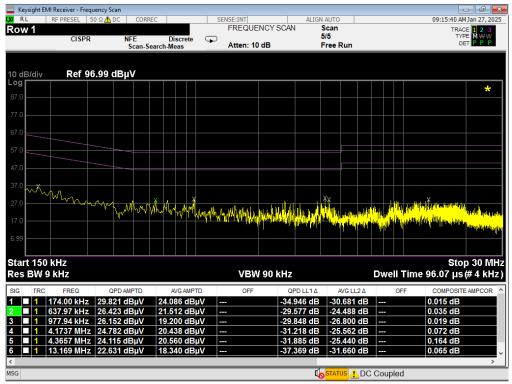
Plot 7-106. Line Conducted Plot with 802.11a UNII Band 6 (L1)



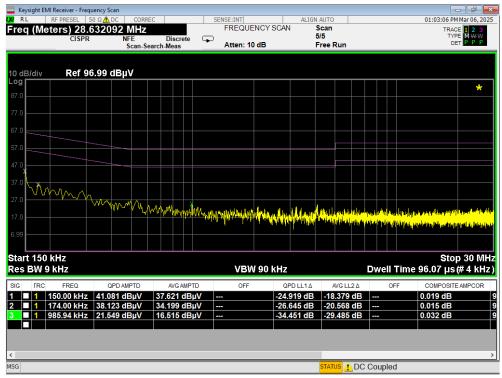
Plot 7-107. Line Conducted Plot with 802.11a UNII Band 6 (N)

FCC ID: A3LSMG766U		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Baga 06 of 00	
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 96 of 99	
© 2025 ELEMENT	·		V 11.2 9/11/2024	





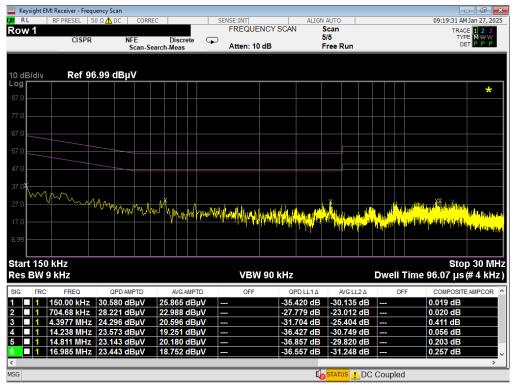
Plot 7-108. Line Conducted Plot with 802.11a UNII Band 7 (L1)



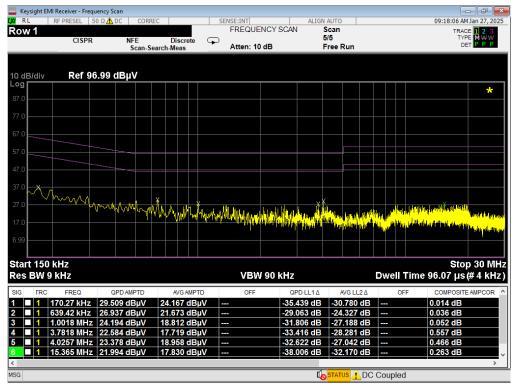
Plot 7-109. Line Conducted Plot with 802.11a UNII Band 7 (N)

FCC ID: A3LSMG766U		MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 07 of 00	
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 97 of 99	
© 2025 ELEMENT	•		V 11.2 9/11/2024	





Plot 7-110. Line Conducted Plot with 802.11a UNII Band 8 (L1)



Plot 7-111. Line Conducted Plot with 802.11a UNII Band 8 (N)

FCC ID: A3LSMG766U		MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 08 of 00
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 98 of 99
© 2025 ELEMENT	·		V 11.2 9/11/2024



# 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMG766U** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a client device.

FCC ID: A3LSMG766U	MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 00 of 00	
1M2501020001-20-R1.A3L	1/6/2025 - 3/5/2025	Portable Handset	Page 99 of 99	
© 2025 ELEMENT	V 11.2 9/11/2024			