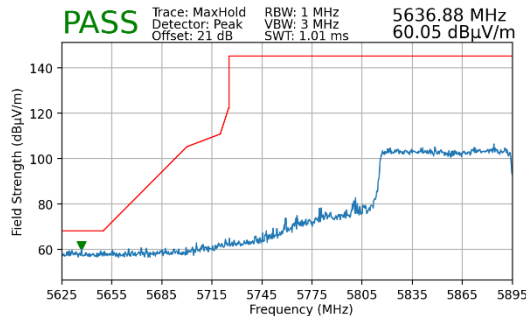
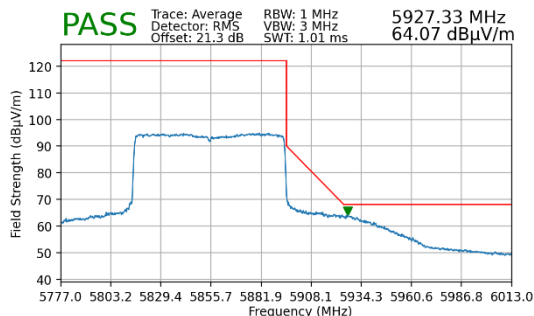


Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171

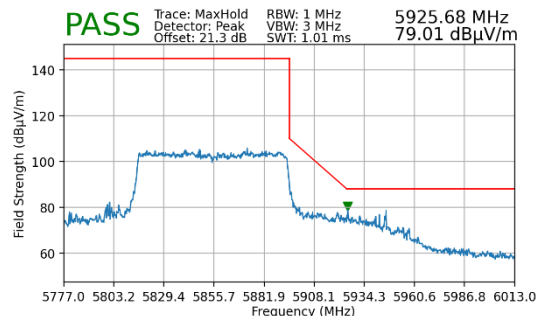


**Plot 7-192. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 4 – 996 Tones)**

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



**Plot 7-193. Radiated Upper Band Edge Plot MIMO
(Average – UNII Band 4 – 996 Tones)**

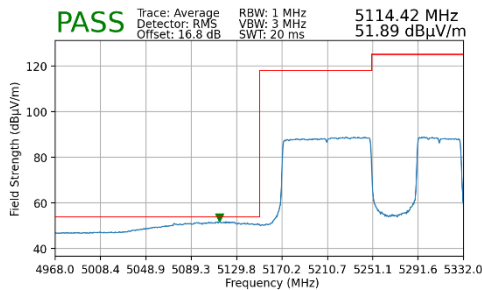


**Plot 7-194. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 4 – 996 Tones)**

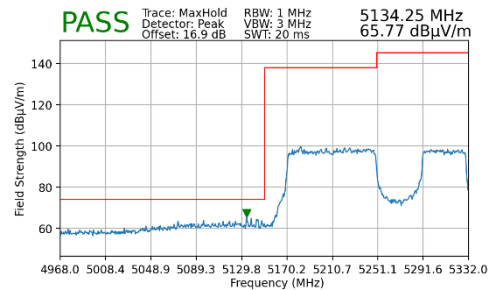
FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-08.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 139 of 148

7.6.9 MIMO Radiated Band Edge Measurements (160MHz BW – MRU – 996+484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	1094
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

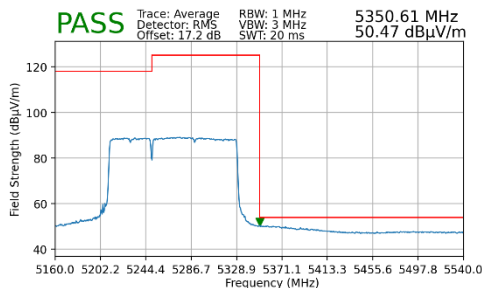


Plot 7-195. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996+484 Tones)

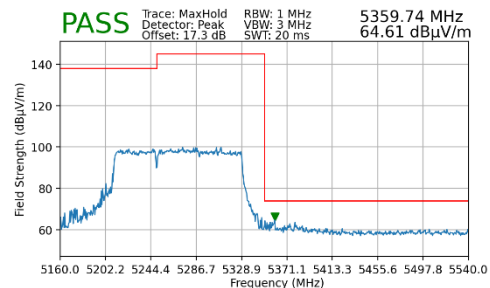


Plot 7-196. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996+484 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	94
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



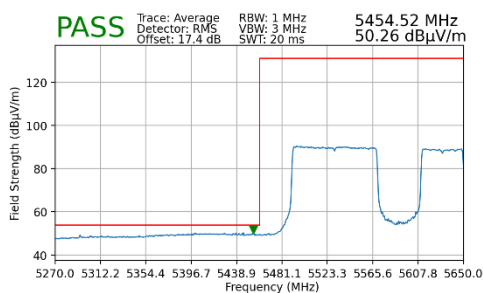
Plot 7-197. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996+484 Tones)



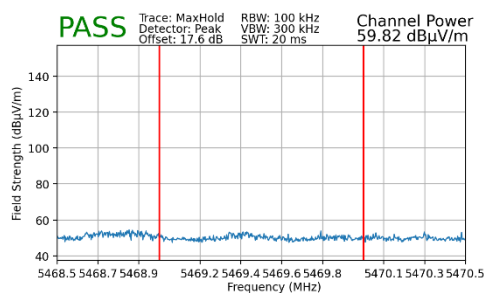
Plot 7-198. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996+484 Tones)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-08.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 140 of 148

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	1094
Distance of Measurements:	3 Meters
Operating Frequency:	5570MHz
Channel:	114



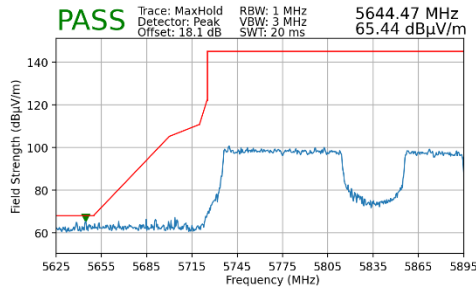
**Plot 7-199. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 2C – 996+484 Tones)**



**Plot 7-200. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 2C – 996+484 Tones)**

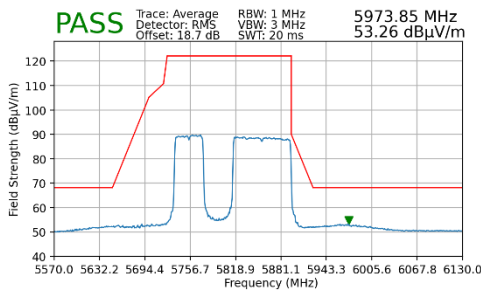
FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-08.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 141 of 148

Worst Case Mode: 802.11be
 Worst Case Transfer Rate: MCS0
 RU Index: 1094
 Distance of Measurements: 3 Meters
 Operating Frequency: 5815MHz
 Channel: 163

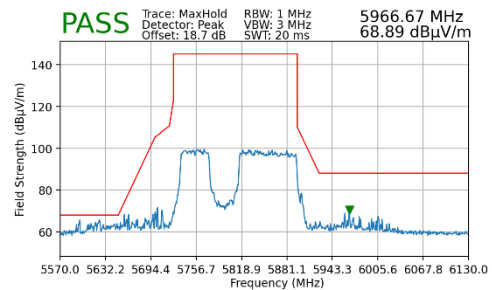


Plot 7-201. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4 – 996+484 Tones)

Worst Case Mode: 802.11be
 Worst Case Transfer Rate: MCS0
 RU Index: 95
 Distance of Measurements: 3 Meters
 Operating Frequency: 5815MHz
 Channel: 163



Plot 7-202. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 996+484 Tones)

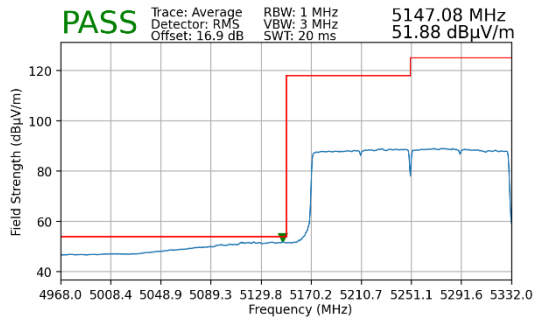


Plot 7-203. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4 – 996+484 Tones)

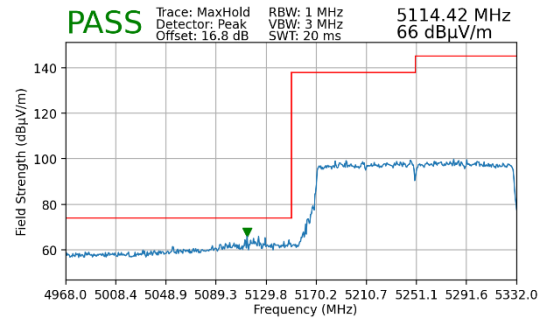
FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-08.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 142 of 148

7.6.10 MIMO Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

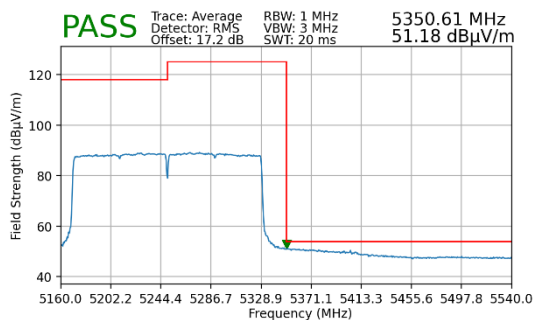


Plot 7-204. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 2x996 Tones)

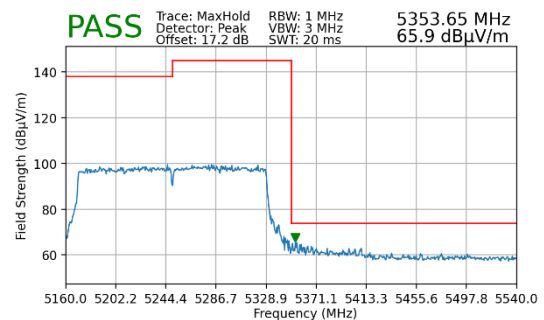


Plot 7-205. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 2x996 Tones)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



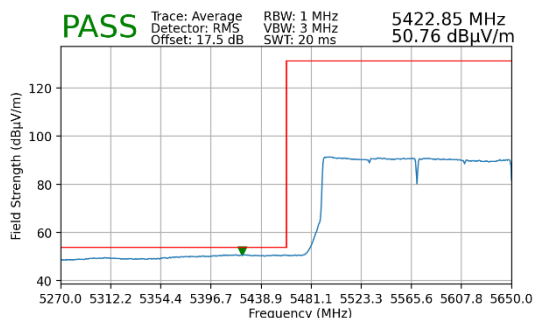
Plot 7-206. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 2x996 Tones)



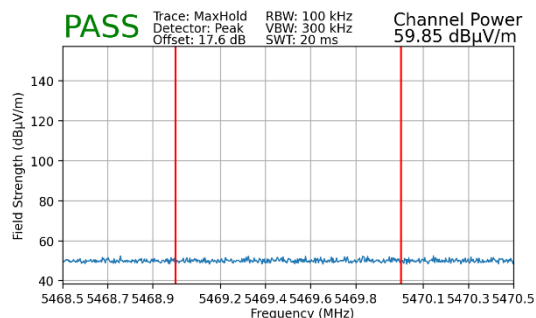
Plot 7-207. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 2x996 Tones)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-08.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 143 of 148

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	68
Distance of Measurements:	3 Meters
Operating Frequency:	5570MHz
Channel:	114



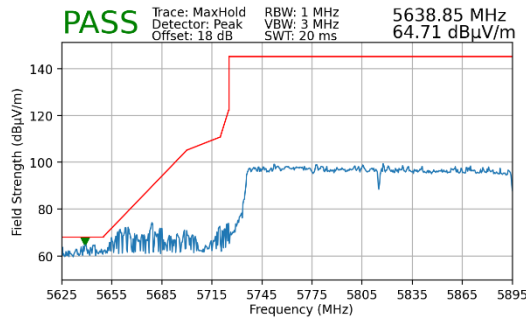
**Plot 7-208. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 2C – 2x996 Tones)**



**Plot 7-209. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 2C – 2x996 Tones)**

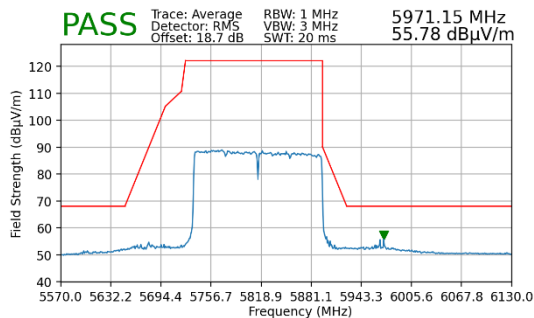
FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-08.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 144 of 148

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS0
RU Index: 68
Distance of Measurements: 3 Meters
Operating Frequency: 5815MHz
Channel: 163

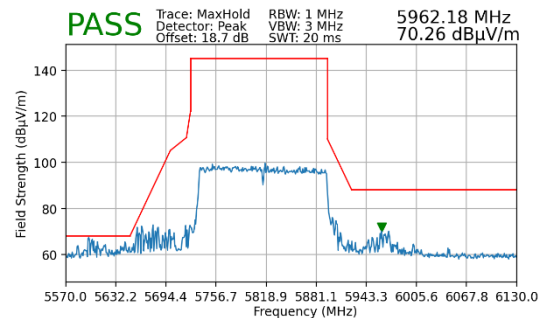


**Plot 7-210. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 4 – 2x996 Tones)**

Worst Case Mode: 802.11be
Worst Case Transfer Rate: MCS0
RU Index: 68
Distance of Measurements: 3 Meters
Operating Frequency: 5815MHz
Channel: 163



**Plot 7-211. Radiated Upper Band Edge Plot MIMO
(Average – UNII Band 4 – 2x996 Tones)**



**Plot 7-212. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 4 – 2x996 Tones)**

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-08.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 145 of 148

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF966JPN** is in compliance with FCC Part Subpart E (15.407) of the FCC rules.

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-08.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 146 of 148

9.0 APPENDIX A – DATA REFERENCING SPOT-CHECKS

Overview

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 – SC-56F

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					RU Index				
					61				
					ANT1	ANT2	MIMO		
	1	5200	40	242T	17.97	17.68	20.84	23.98	-3.14
2A	5280	56	242T	17.79	17.12	20.48	23.98	-3.50	
2C	5600	120	242T	17.49	17.60	20.56	23.98	-3.42	
3	5785	157	242T	17.48	16.73	20.13	30	-9.87	
4	5865	173	242T	17.75	17.00	20.40	-	-	

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

Radiated Spot-Checks – SC-56F

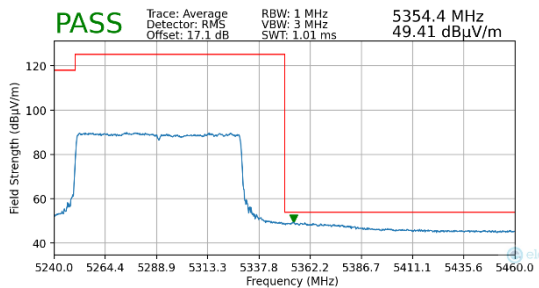
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11ax RU 242T	MIMO	4	177	5885	4	*	11770.00	Average	H	-	-	-81.52	18.55	44.03	53.98	-9.95

Table 9-2. RSE Measurements (Spot-check)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2504070040-08.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset		Page 147 of 148



Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 9-1. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-5966U	Variant Model: 5C-56F	Deviation (dB)	Max Deviation (dB)	Pass/Fail
2.1046, 15.407(a)(8)	Conducted Output Power	Mid Channel Each UNII Band - 802.11be 242T	dBm	N/A	20.52	20.84	0.32	1	PASS
15.209, 15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(4)	Radiated Spurious Emissions	802.11ax MIMO 26 Tone Ch.177- 11770 MHz - Average	dBm	53.98	46.97	44.03	-2.94	3	PASS
15.209	Radiated Band Edge Emissions	802.11be MIMO 996T Ch.58 - Average	dBm	53.98	51.83	49.41	-2.42	3	PASS

Table 9-3. Summary of Spot-checks

Conclusion

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 demonstrates that the use of referenced data from A3LSMF966U for the certification of A3LSMF966JPN is acceptable.

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2504070040-08.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 148 of 148