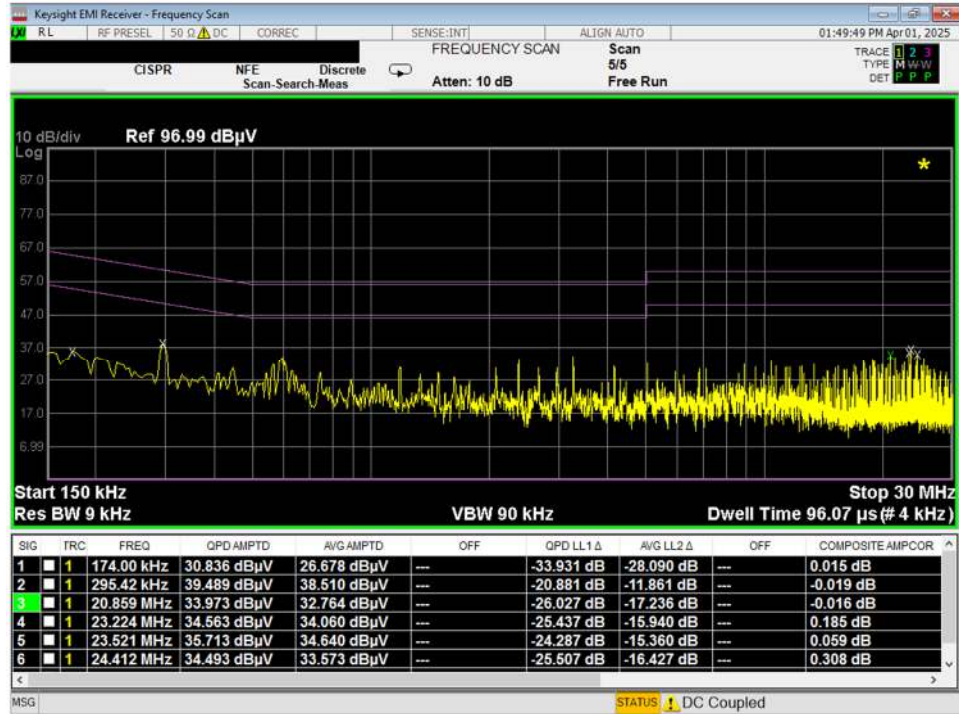
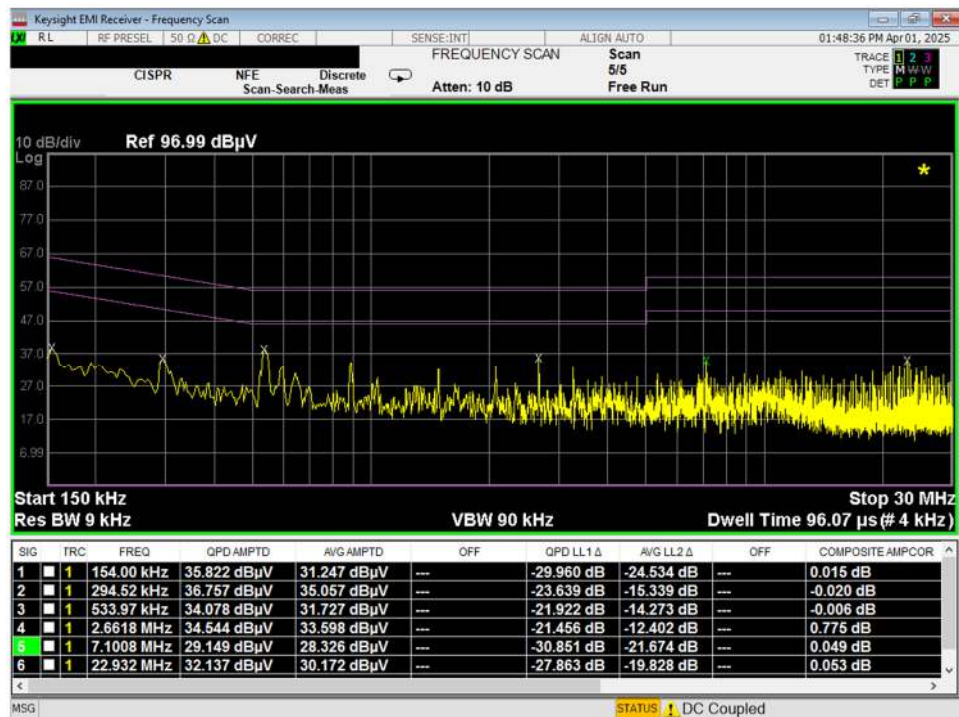




Plot 7-98. Line Conducted Plot with 802.11a UNII Band 5 (L1) with WCP



Plot 7-99. Line Conducted Plot with 802.11a UNII Band 5 (N) with WCP

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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 for operation as a Very Low Power Device.

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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 C63.10-2013.

Notes

1. 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

6GHz WIFI (20MHz 802.11be MIMO) - VLP					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	6175	45	5.82	5.78	8.81
UNII-7	6675	145	5.07	5.16	8.13

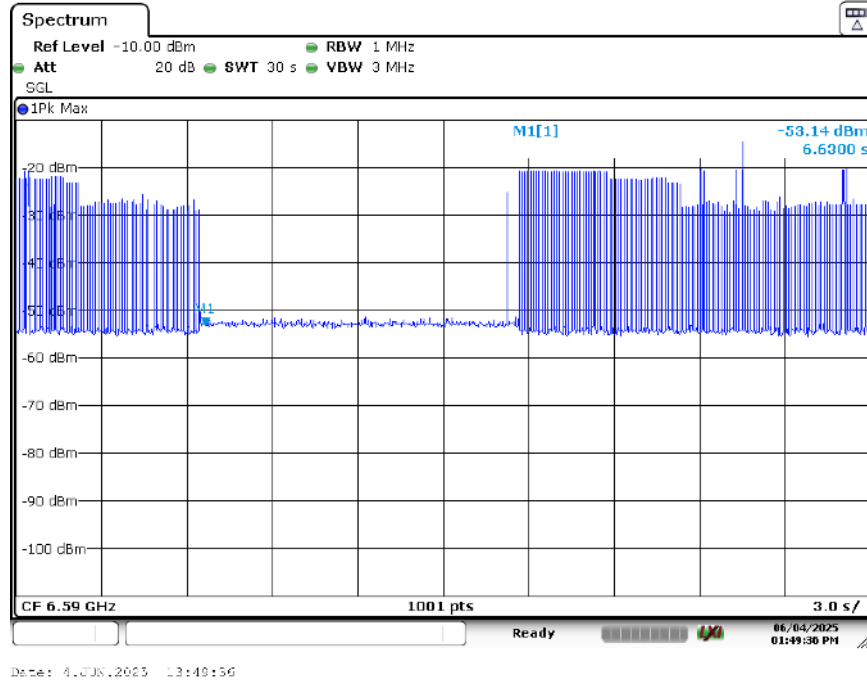
Table 9-1. Conducted Output Power Measurements (Spot-check)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Contention Based Protocol Detection Spot-check SC-56F

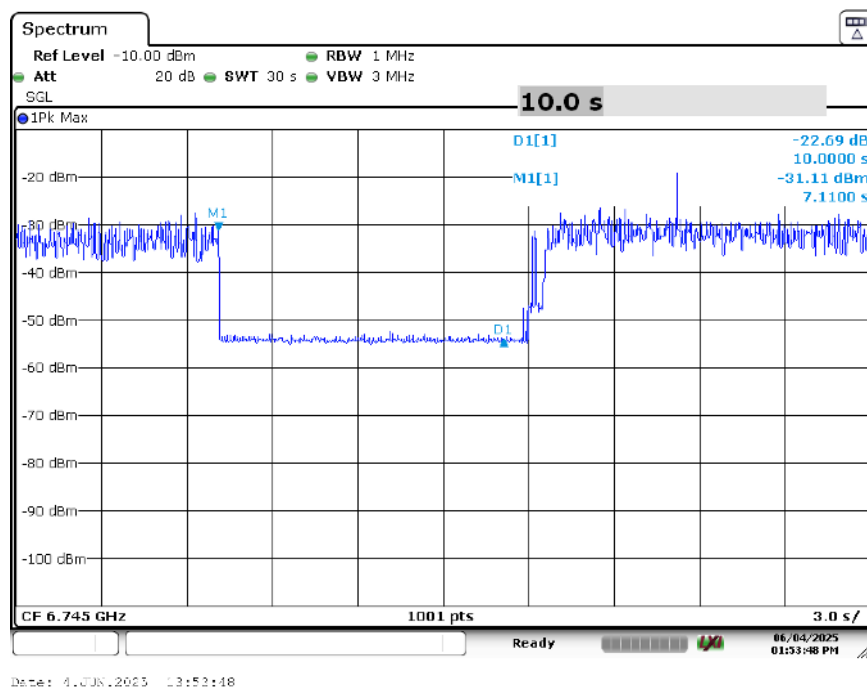
Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 7	159	6745	320	6590	-73.44	-11.08	-62.36	-62.0	-0.36
				6745	-74.56	-11.08	-63.48	-62.0	-1.48
				6900	-73.43	-11.08	-62.35	-62.0	-0.35

Table 9-2. Contention Based Protocol – Incumbent Detection – Spot-check (SC-56F)

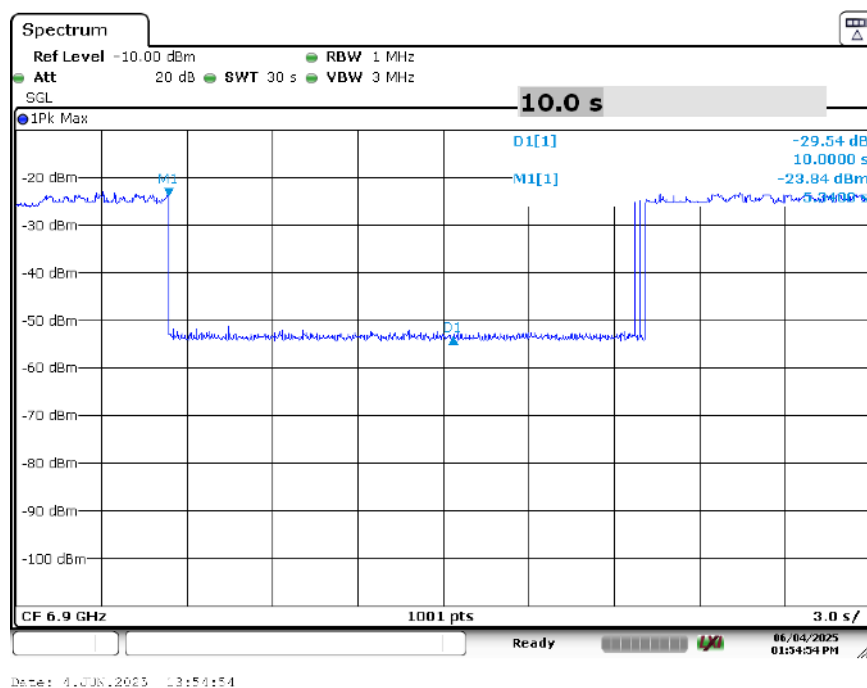


Plot 9-1. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch.159 Low)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 9-2. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch.159 Mid)

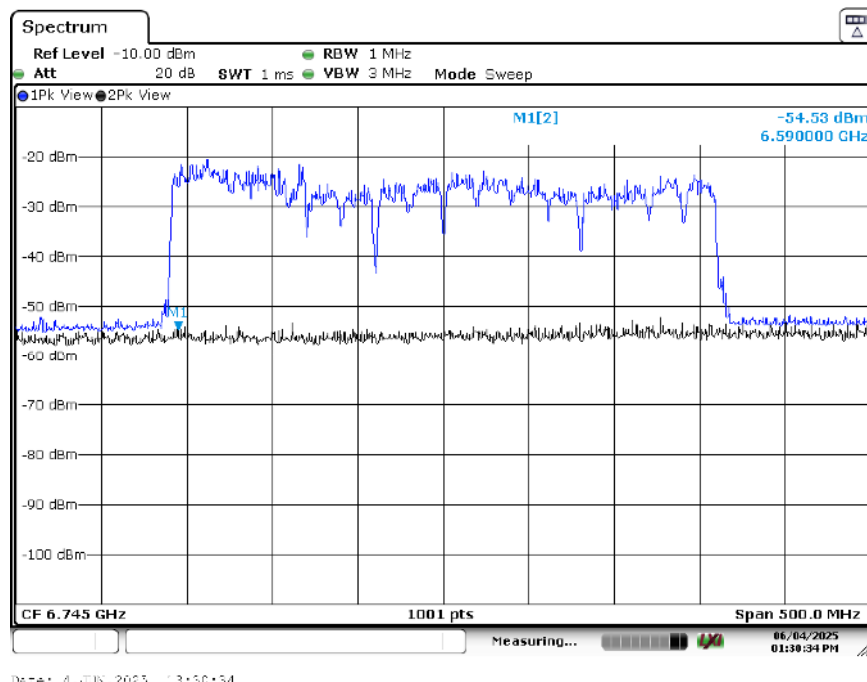


Plot 9-3. Contention Based Protocol Timing Plot (320MHz (UNII Band 5) – Ch.159 High)

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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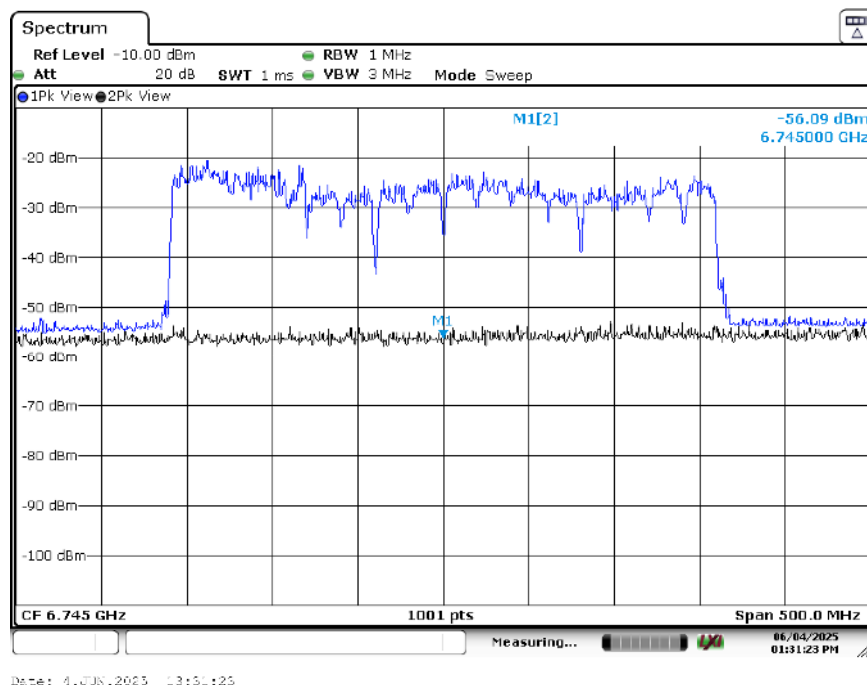
Contention Based Protocol Incumbent Avoidance Spot-Check

- When a 10 MHz AWGN signal centered at 6590 MHz (lower edge of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 6745 MHz (middle of channel) is injected, the channel completely stops transmitting.
- When a 10 MHz AWGN signal centered at 6900 MHz (upper edge of channel) is injected, the channel completely stops transmitting.

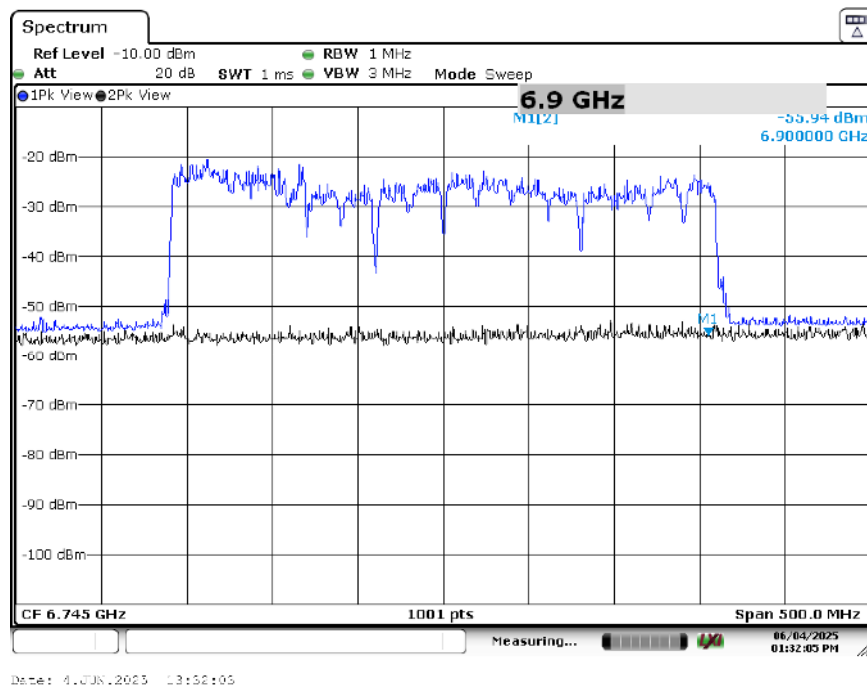


Plot 9-4. CBP 320MHz Channel - Injection Lower Edge – [6590 MHz]

FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 9-5. CBP 320MHz Channel - Injection Center – 6745 MHz]



Plot 9-6. CBP 320MHz Channel - Injection Upper Edge – [6900 MHz]

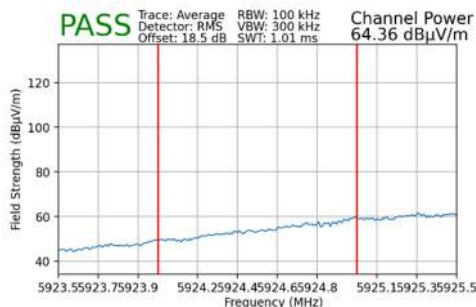
FCC ID: A3LSMF966JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Radiated Spot-Checks – SC-56F

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11a	MIMO	5	2	5935	*	11870.00	Average	H	-	-	-83.58	22.80	0.00	46.22	53.98	-7.76

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

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2



Plot 9-7. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-5966U	Variant Model: SC-56F	Deviation (dB)	Max Deviation (dB)	Pass/Fail
2.1046, 15.407(a)(8)	Conducted Output Power	Mid Channel Each UNII Band - 802.11be 20MHz - VLP	dBm	-	8.60	8.81	0.21	1	PASS
15.407(d)(6)	Contention Based Protocol	Ch.95 - 320MHz	dBm	-62	-63.32	-62.38	0.94	2	PASS
15.209	Radiated Spurious Emissions	802.11a MIMO Ch.2 - Average - 11870 MHz	dBμV/m	53.98	45.21	46.22	1.01	3	PASS
15.209	Radiated Band Edge Emissions	802.11a MIMO Ch.2 - Average	dBμV/m	68.2	66.09	64.36	-1.73	3	PASS

Table 9-4. 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: 1M2504070040-11.A3L	Test Dates: 02/24/2025 – 05/05/2025	EUT Type: Portable Handset	Page 113 of 113