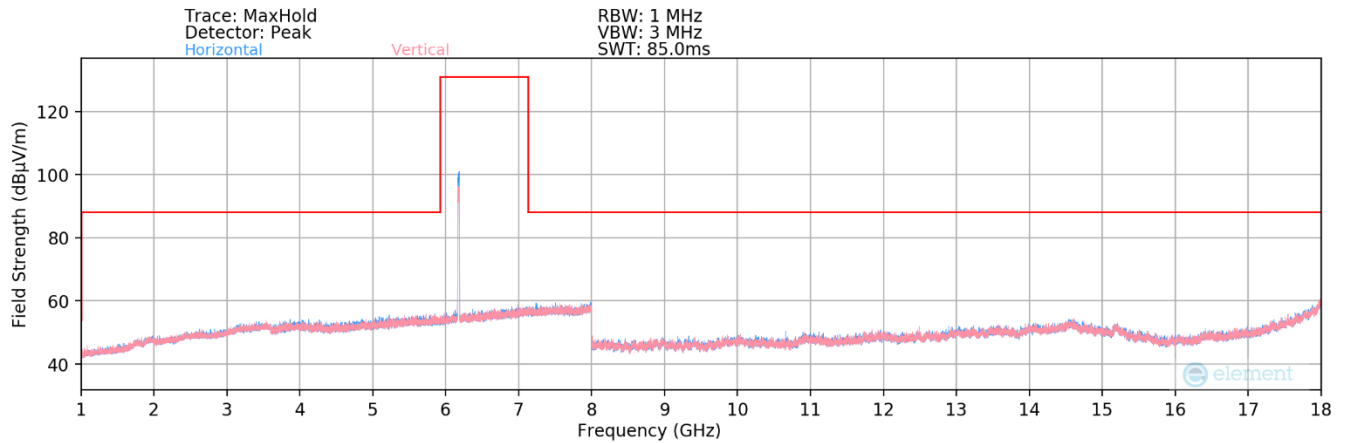
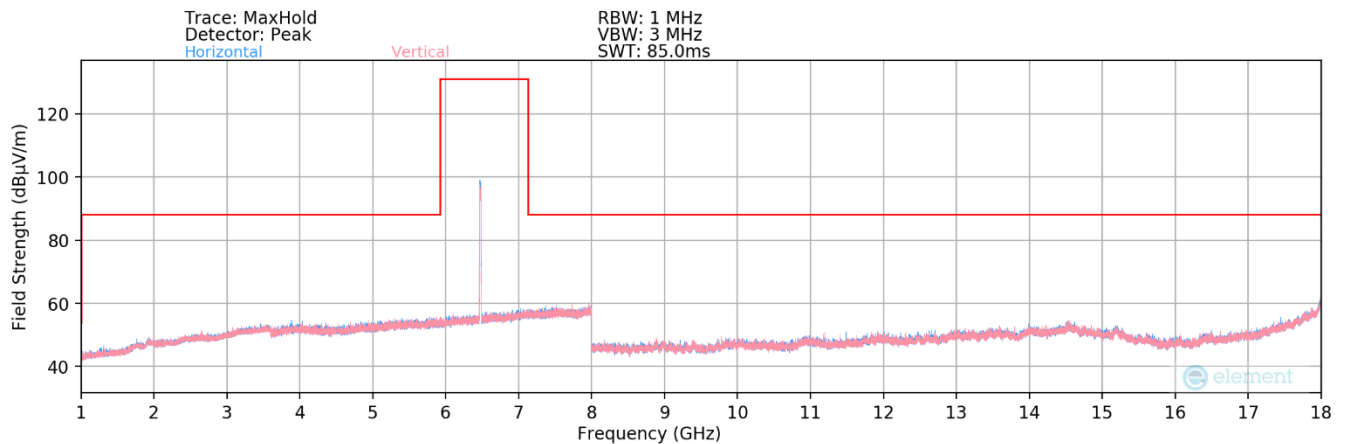


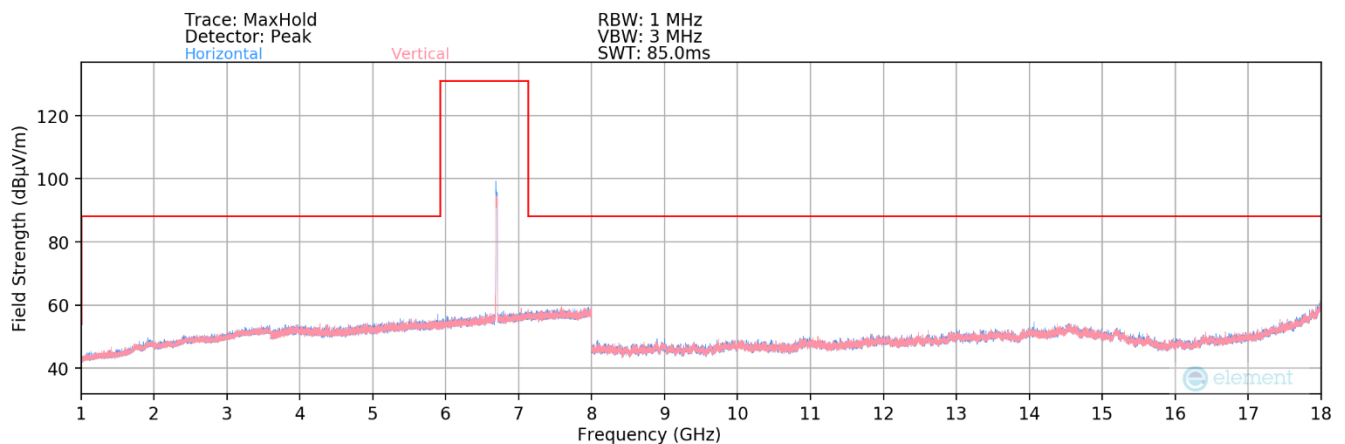
7.6.2 MIMO Radiated Spurious Emission Measurements (242 Tones)



Plot 7-91. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 5 Ch. 45)

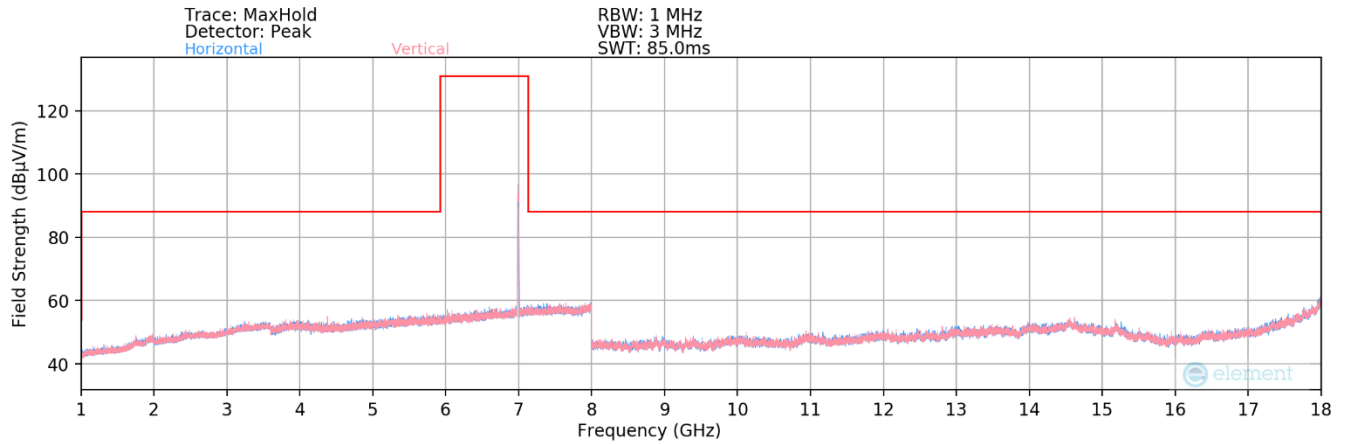


Plot 7-92. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 6 Ch. 105)

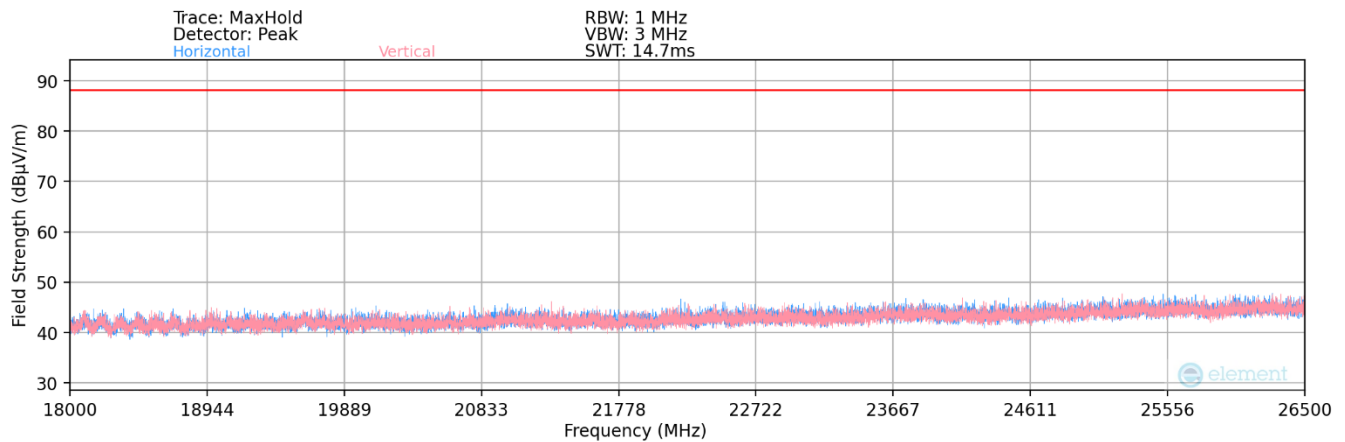


Plot 7-93. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 7 Ch. 149)

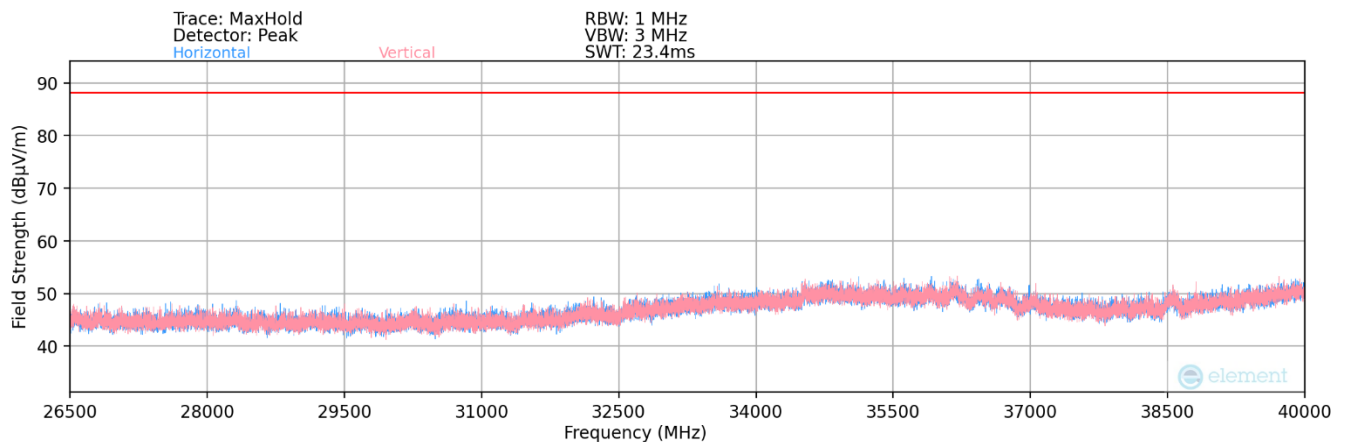
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-19.A3L	Test Dates: 9/2/2025-10/31/2025	EUT Type: Portable Handset	Page 92 of 108



Plot 7-94. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – U Band 8 Ch. 209)



Plot 7-95. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax) – Ch. 149



Plot 7-96. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax) – Ch. 149

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-19.A3L	Test Dates: 9/2/2025-10/31/2025	EUT Type: Portable Handset	Page 93 of 108

7.6.2.1 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 5

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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11ax	MIMO	5	2	5935	61	*	11870.00	Average	V	-	-	-78.20	9.41	0.00	38.21	53.98	-15.77
						*	11870.00	Peak	V	-	-	-66.50	9.41	0.00	49.91	73.98	-24.07
						*	17805.00	Average	V	-	-	-77.78	16.76	0.00	45.98	53.98	-8.00
						*	17805.00	Peak	V	-	-	-65.56	16.76	0.00	58.20	73.98	-15.78
						*	23740.00	Average	V	-	-	-63.39	4.02	-9.54	38.09	53.98	-15.89
						*	23740.00	Peak	V	-	-	-51.42	4.02	-9.54	50.06	73.98	-23.92
			45	6175	61	*	29675.00	Peak	V	-	-	-50.20	5.01	-9.54	52.27	68.20	-15.93
						*	12350.00	Average	V	-	-	-78.68	9.78	0.00	38.10	53.98	-15.88
						*	12350.00	Peak	V	-	-	-66.19	9.78	0.00	50.59	73.98	-23.39
						*	18525.00	Average	V	-	-	-62.81	1.00	-9.54	35.65	53.98	-18.33
						*	18525.00	Peak	V	-	-	-50.42	1.00	-9.54	48.04	73.98	-25.94
						*	24700.00	Peak	V	-	-	-51.04	4.23	-9.54	50.65	68.20	-17.55
			93	6415	61	*	30875.00	Peak	V	-	-	-51.38	5.66	-9.54	51.74	68.20	-16.46
						*	12830.00	Peak	V	-	-	-66.59	10.40	0.00	50.81	68.20	-17.39
						*	19245.00	Average	V	-	-	-63.01	1.74	-9.54	36.19	53.98	-17.79
						*	19245.00	Peak	V	-	-	-50.81	1.74	-9.54	48.39	73.98	-25.59
						*	25660.00	Peak	V	-	-	-51.82	4.69	-9.54	50.33	68.20	-17.87
						*	32075.00	Peak	V	-	-	-51.73	6.47	-9.54	52.20	68.20	-16.00

Table 7-31. Radiated Measurements MIMO (242 Tones)

7.6.2.2 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 6

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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11ax	MIMO	6	97	6435	61	*	12870.00	Peak	V	-	-	-67.23	10.56	0.00	50.33	68.20	-17.87
						*	19305.00	Average	V	-	-	-63.00	1.65	-9.54	36.11	53.98	-17.87
						*	19305.00	Peak	V	-	-	-49.92	1.65	-9.54	49.19	73.98	-24.79
						*	25740.00	Peak	V	-	-	-51.63	4.71	-9.54	50.54	68.20	-17.66
						*	32175.00	Peak	V	-	-	-52.49	6.76	-9.54	51.73	68.20	-16.47
			105	6475	61	*	12950.00	Peak	V	-	-	-66.07	10.59	0.00	51.52	68.20	-16.68
						*	19425.00	Average	V	-	-	-62.64	1.76	-9.54	36.58	53.98	-17.40
						*	19425.00	Peak	V	-	-	-50.68	1.76	-9.54	48.54	73.98	-25.44
						*	25900.00	Peak	V	-	-	-51.61	4.78	-9.54	50.63	68.20	-17.57
						*	32375.00	Peak	V	-	-	-52.78	6.56	-9.54	51.24	68.20	-16.96
			113	6515	61	*	13030.00	Peak	V	-	-	-65.78	10.85	0.00	52.07	68.20	-16.13
						*	19545.00	Average	V	-	-	-61.34	1.89	-9.54	38.01	53.98	-15.97
						*	19545.00	Peak	V	-	-	-50.56	1.89	-9.54	48.79	73.98	-25.19
						*	26060.00	Peak	V	-	-	-51.51	4.92	-9.54	50.87	68.20	-17.33
						*	32575.00	Peak	V	-	-	-52.15	6.76	-9.54	52.07	68.20	-16.13

Table 7-32. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2508270082-19.A3L	Test Dates: 9/2/2025-10/31/2025	EUT Type: Portable Handset		Page 94 of 108

7.6.2.3 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 7

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]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11ax	MIMO	7	117	6535	61		13070.00	Peak	V	-	-	-66.62	10.74	0.00	51.12	68.20	-17.08
						*	19605.00	Average	V	-	-	-63.08	2.20	-9.54	36.58	53.98	-17.40
						*	19605.00	Peak	V	-	-	-50.86	2.20	-9.54	48.80	73.98	-25.18
							26140.00	Peak	V	-	-	-51.35	4.98	-9.54	51.09	68.20	-17.11
							32675.00	Peak	V	-	-	-52.01	7.14	-9.54	52.59	68.20	-15.61
			149	6695	61	*	13390.00	Average	V	-	-	-78.28	11.04	0.00	39.76	53.98	-14.22
						*	13390.00	Peak	V	-	-	-66.22	11.04	0.00	51.82	73.98	-22.16
						*	20085.00	Average	V	-	-	-63.07	2.07	-9.54	36.46	53.98	-17.52
						*	20085.00	Peak	V	-	-	-50.94	2.07	-9.54	48.59	73.98	-25.39
							26780.00	Peak	V	-	-	-51.42	5.18	-9.54	51.22	68.20	-16.98
							33475.00	Peak	V	-	-	-52.56	8.48	-9.54	53.38	68.20	-14.82
			185	6875	61		13750.00	Peak	V	-	-	-66.58	11.51	0.00	51.93	68.20	-16.27
						*	20625.00	Average	V	-	-	-62.46	2.36	-9.54	37.36	53.98	-16.62
						*	20625.00	Peak	V	-	-	-50.93	2.36	-9.54	48.89	73.98	-25.09
							27500.00	Peak	V	-	-	-52.53	5.00	-9.54	49.93	68.20	-18.27
							34375.00	Peak	V	-	-	-52.54	9.46	-9.54	54.38	68.20	-13.82

Table 7-33. Radiated Measurements MIMO (242 Tones)

7.6.2.4 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 8

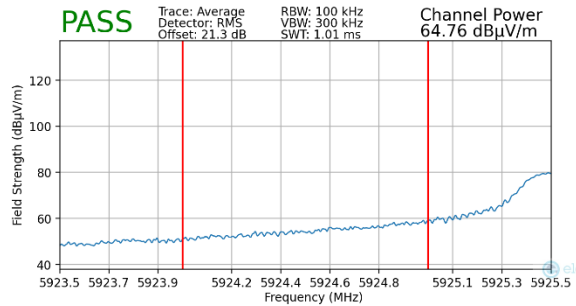
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11ax	MIMO	8	189	6895	61		13790.00	Peak	V	-	-	-65.95	11.38	0.00	52.43	68.20	-15.77
						*	20685.00	Average	V	-	-	-63.10	2.33	-9.54	36.69	53.98	-17.29
						*	20685.00	Peak	V	-	-	-52.02	2.33	-9.54	47.77	73.98	-26.21
							27580.00	Peak	V	-	-	-52.24	5.33	-9.54	50.55	68.20	-17.65
							34475.00	Peak	V	-	-	-52.67	9.33	-9.54	54.12	68.20	-14.08
			209	6995	61		13990.00	Peak	V	-	-	-66.19	11.63	0.00	52.44	68.20	-15.76
						*	20985.00	Average	V	-	-	-63.89	2.83	-9.54	36.40	53.98	-17.58
						*	20985.00	Peak	V	-	-	-51.52	2.83	-9.54	48.77	73.98	-25.21
							27980.00	Peak	V	-	-	-51.47	5.30	-9.54	51.29	68.20	-16.91
							34975.00	Peak	V	-	-	-53.08	9.79	-9.54	54.17	68.20	-14.03
			233	7115	61		14230.00	Peak	V	-	-	-65.88	12.35	0.00	53.47	68.20	-14.73
						*	21345.00	Average	V	-	-	-63.45	2.85	-9.54	36.86	53.98	-17.12
						*	21345.00	Peak	V	-	-	-51.13	2.85	-9.54	49.18	73.98	-24.80
							28460.00	Peak	V	-	-	-51.42	5.34	-9.54	51.38	68.20	-16.82
							35575.00	Peak	V	-	-	-52.62	9.53	-9.54	54.37	68.20	-13.83

Table 7-34. Radiated Measurements MIMO (242 Tones)

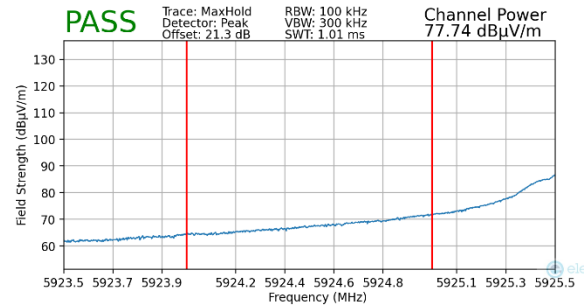
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2508270082-19.A3L	Test Dates: 9/2/2025-10/31/2025	EUT Type: Portable Handset		Page 95 of 108

7.6.3 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	53
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

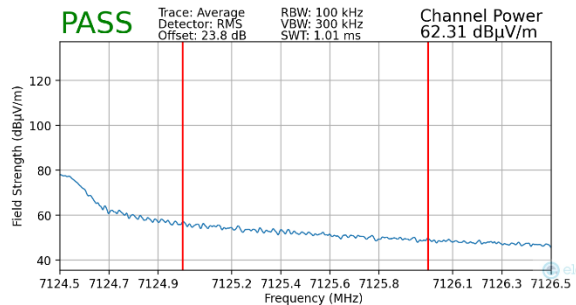


Plot 7-97. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106T)

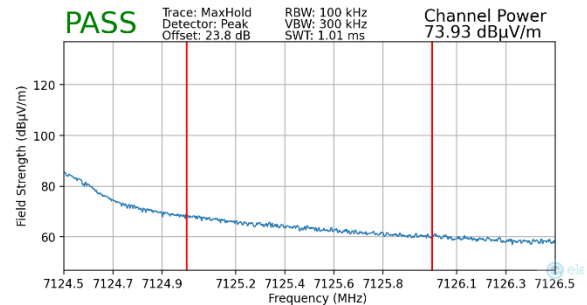


Plot 7-98. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	54
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-99. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 106T)

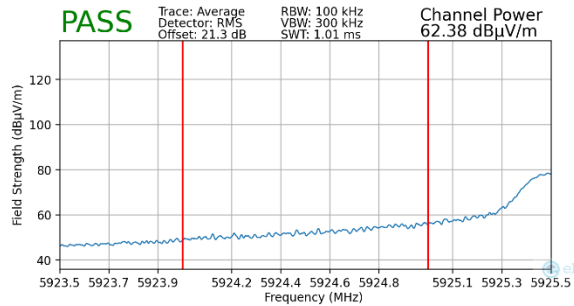


Plot 7-100. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 106T)

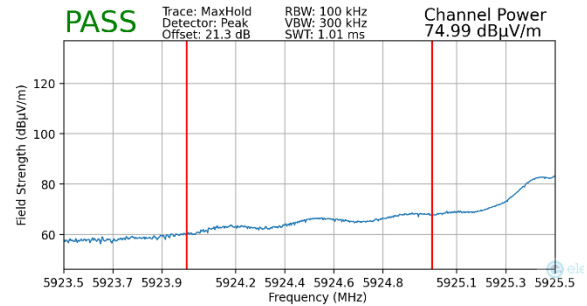
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-19.A3L	Test Dates: 9/2/2025-10/31/2025	EUT Type: Portable Handset	Page 96 of 108

7.6.4 MIMO Radiated Band Edge Measurements (20MHz BW – MRU – 106+26T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	82
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

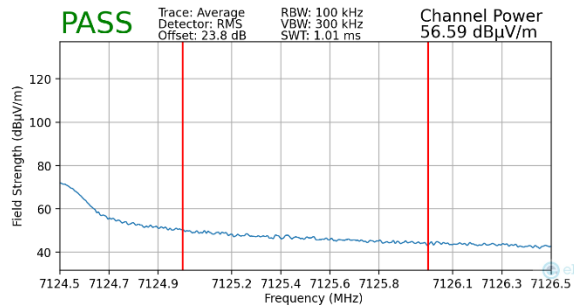


Plot 7-101. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106+26T)

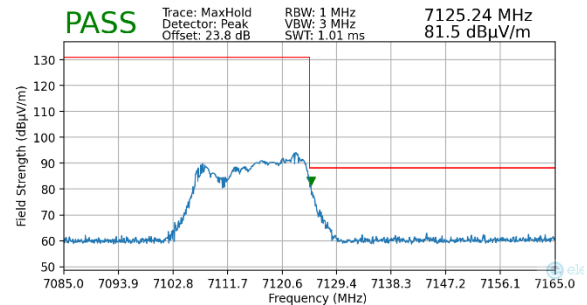


Plot 7-102. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106+26T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	83
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-103. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 106+26T)

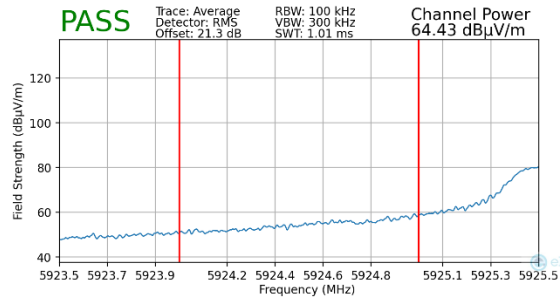


Plot 7-104. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 106+26T)

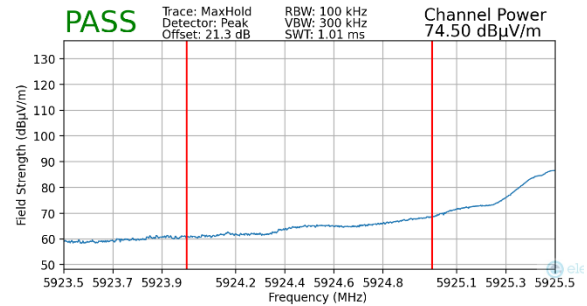
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-19.A3L	Test Dates: 9/2/2025-10/31/2025	EUT Type: Portable Handset	Page 97 of 108

7.6.5 MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

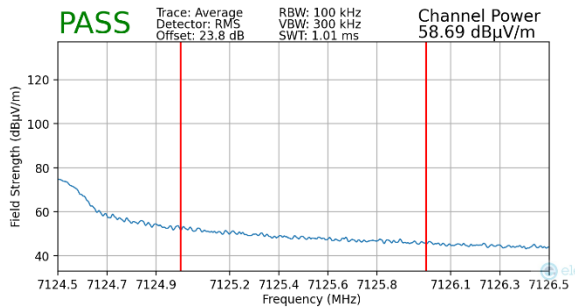


Plot 7-105. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 242T)

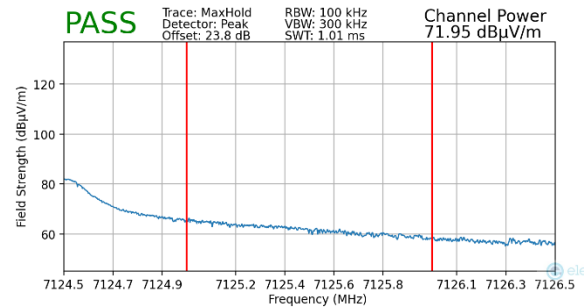


Plot 7-106. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-107. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 242T)

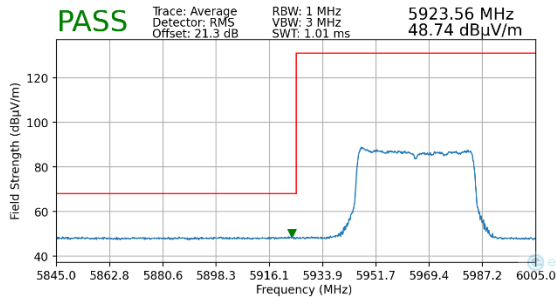


Plot 7-108. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 242T)

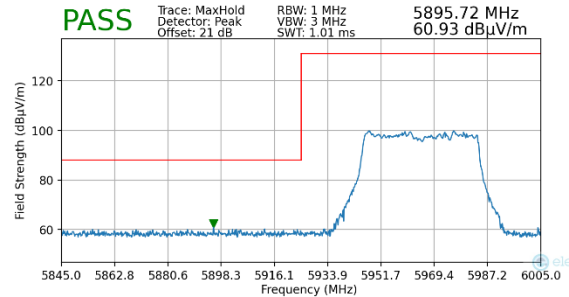
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-19.A3L	Test Dates: 9/2/2025-10/31/2025	EUT Type: Portable Handset	Page 98 of 108

7.6.6 MIMO Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3

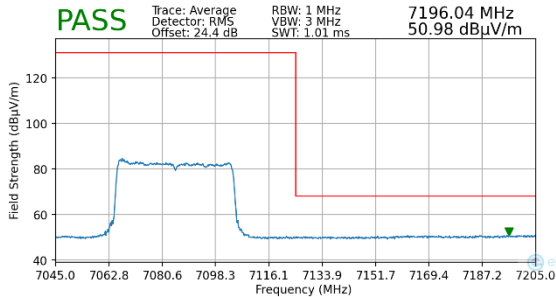


Plot 7-109. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 484T)

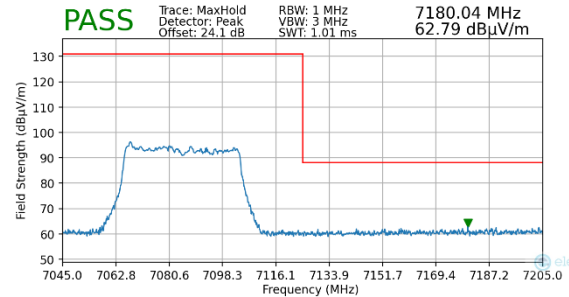


Plot 7-110. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



Plot 7-111. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 484T)

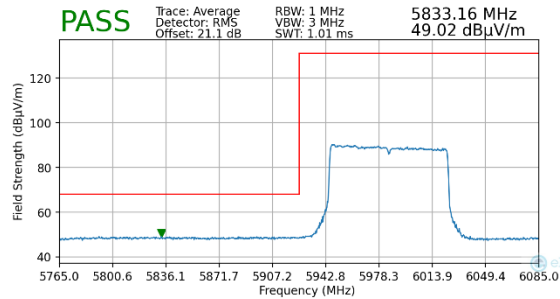


Plot 7-112. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 484T)

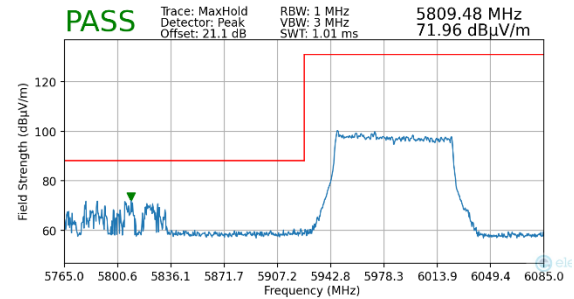
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-19.A3L	Test Dates: 9/2/2025-10/31/2025	EUT Type: Portable Handset	Page 99 of 108

7.6.7 MIMO Radiated Band Edge Measurements (80MHz BW – Full Tone – 996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

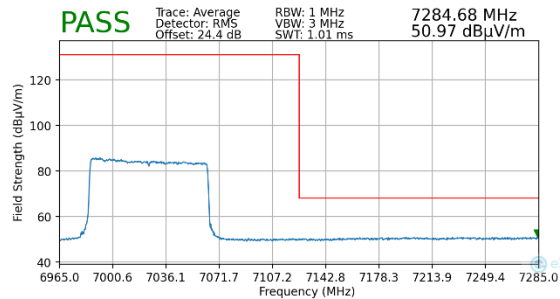


Plot 7-113. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996T)

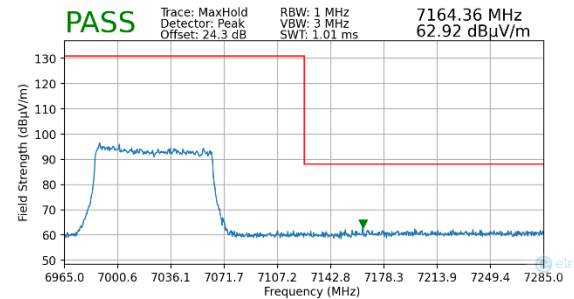


Plot 7-114. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-115. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 996T)

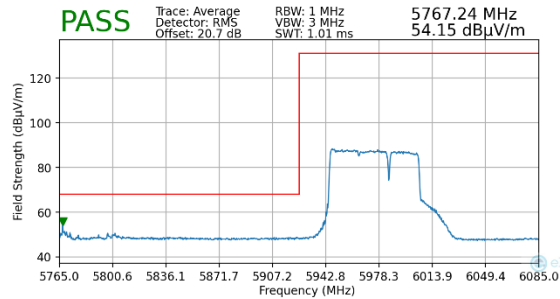


Plot 7-116. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 996T)

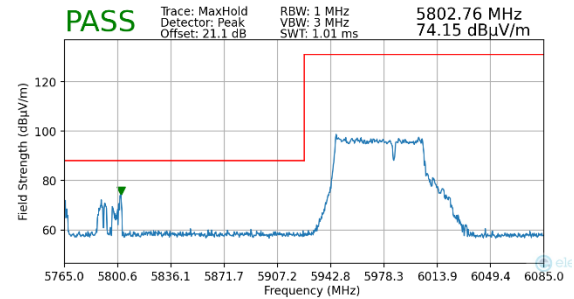
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-19.A3L	Test Dates: 9/2/2025-10/31/2025	EUT Type: Portable Handset	Page 100 of 108

7.6.8 MIMO Radiated Band Edge Measurements (80MHz BW – MRU – 484+242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	93
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

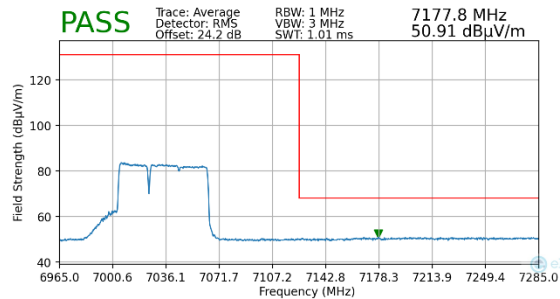


Plot 7-117. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 484+242T)

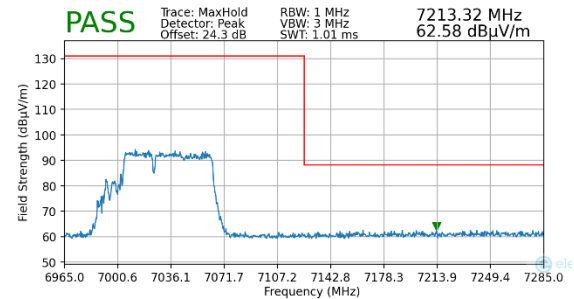


Plot 7-118. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484+242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	90
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-119. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 484+242T)

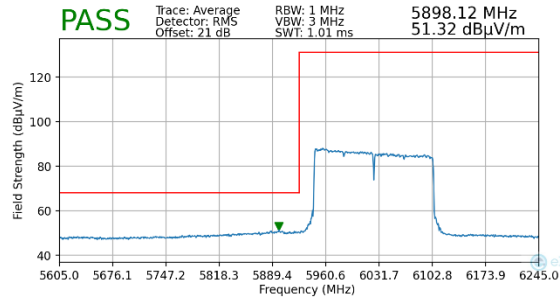


Plot 7-120. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 484+242T)

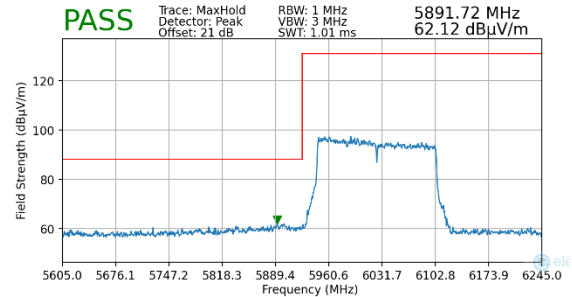
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.9 MIMO Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	68
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

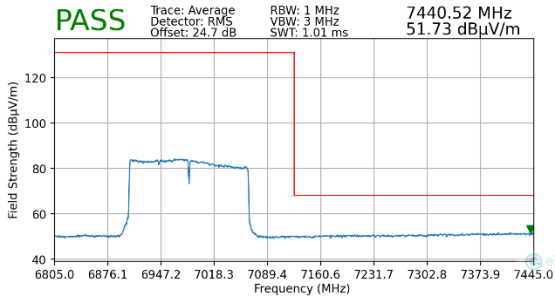


Plot 7-121. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 2x996T)

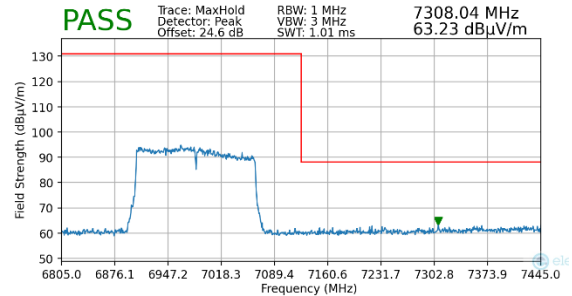


Plot 7-122. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 2x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	68
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-123. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 2x996T)

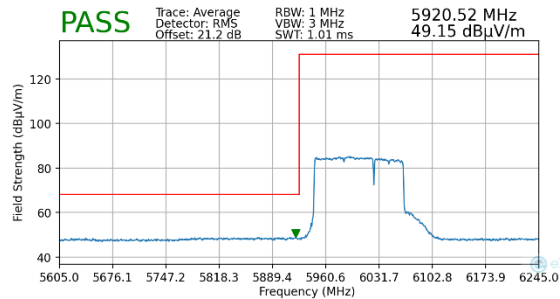


Plot 7-124. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 2x996T)

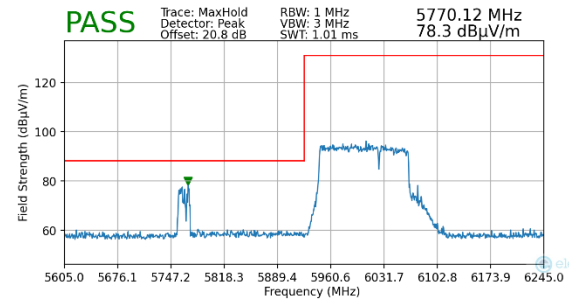
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.10 MIMO Radiated Band Edge Measurements (160MHz BW – MRU – 996+484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	1095
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

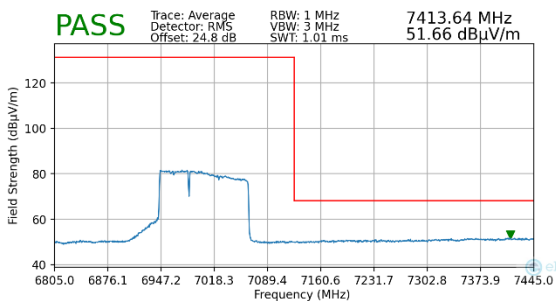


Plot 7-125. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996+484T)

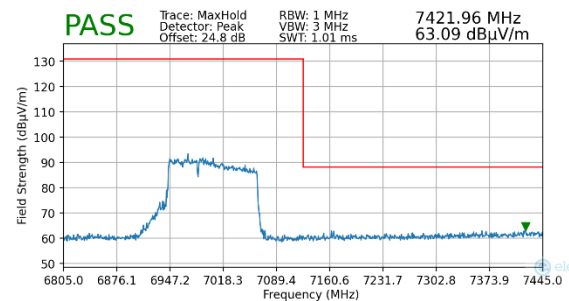


Plot 7-126. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996+484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	94
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-127. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 996+484T)

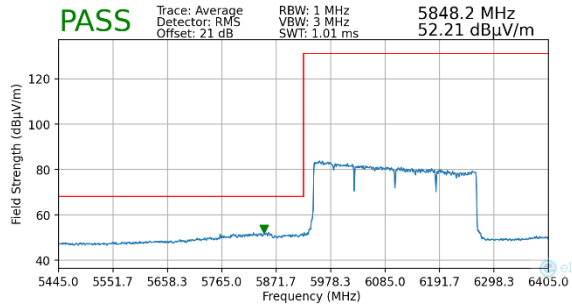


Plot 7-128. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 996+484T)

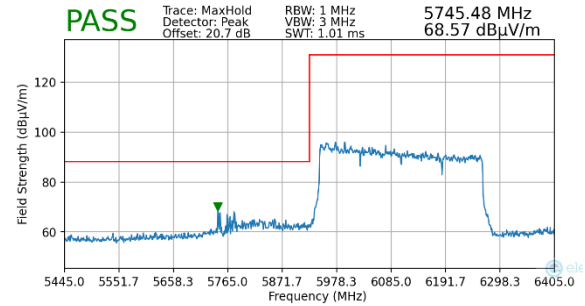
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.11 MIMO Radiated Band Edge Measurements (320MHz BW – Full Tone – 4*996T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	69
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

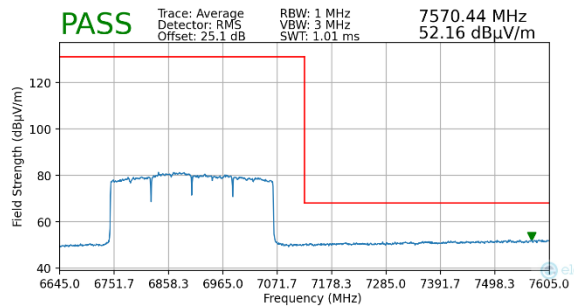


Plot 7-129. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 4*996T)

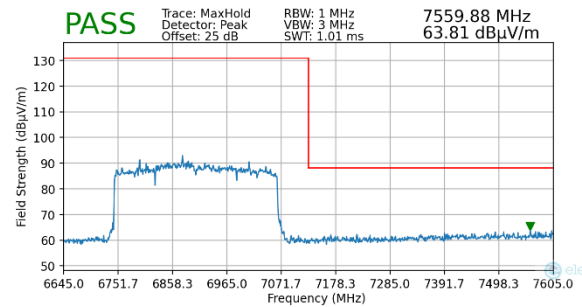


Plot 7-130. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 4*996T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	69
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-131. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 4*996T)

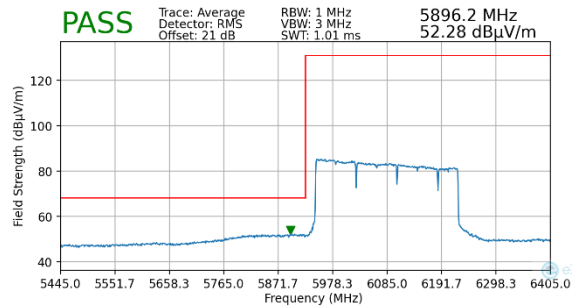


Plot 7-132. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 4*996T)

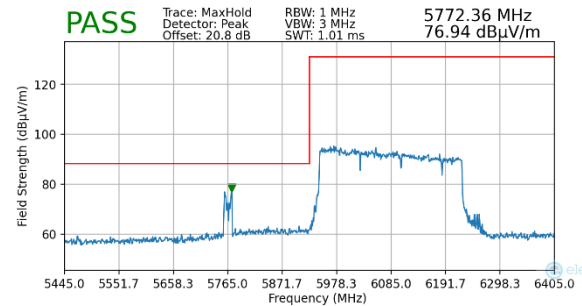
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-19.A3L	Test Dates: 9/2/2025-10/31/2025	EUT Type: Portable Handset	Page 104 of 108

7.6.12 MIMO Radiated Band Edge Measurements (320MHz BW – MRU – 3*996+484T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	11106
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

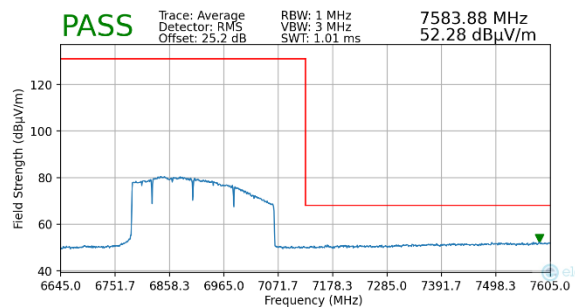


Plot 7-133. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 3*996+484T)

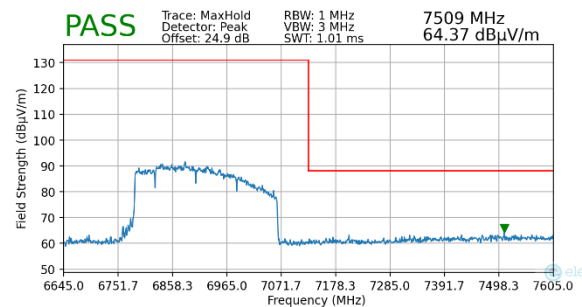


Plot 7-134. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 3*996+484T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	105
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-135. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 3*996+484T)



Plot 7-136. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 3*996+484T)

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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: A3LSMS948JPN** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a Very Low Power Device. 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: A3LSMS948JPN**.

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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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 C63.10:2020.

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 – Model: SC-53G

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Dir. Ant. Gain [dBi]	Max e.i.r.p [dBm]	e.i.r.p Limit [dBm]	e.i.r.p Margin [dB]
					RU Index						
					61						
					ANT1	ANT2	MIMO				
5	6175	45	242T	4.99	4.06	7.56	-1.90	5.66	14.00	-8.34	
6	6475	105	242T	4.83	4.75	7.80	-2.22	5.58	14.00	-8.42	
7	6695	149	242T	5.42	5.49	8.47	-2.22	6.25	14.00	-7.75	
8	6995	209	242T	5.81	5.37	8.61	-2.14	6.47	14.00	-7.53	

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

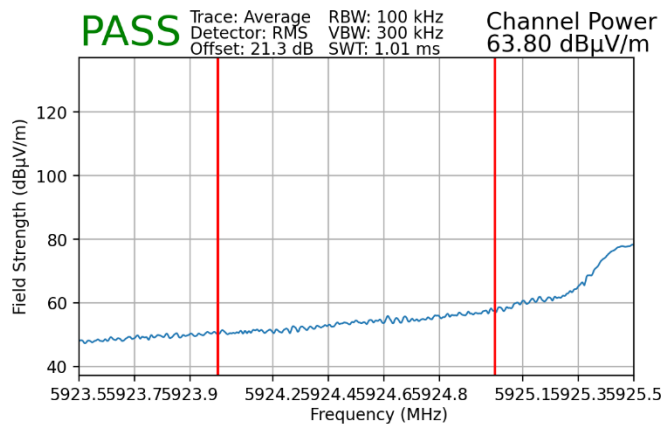
FCC ID: A3LSMS948JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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Radiated Spot-Checks – Model: SC-53G

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	MIMO	5	45	6175	4	*	12350.00	Average	V	-	-	-91.88	22.86	37.98	53.98	-16.00
						*	12350.00	Peak	V	-	-	-71.75	22.86	58.11	73.98	-15.87

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

Worst Case Mode: 802.11be
 RU index: 61
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2



Plot 9-1. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-S948U	Variant Model: SM-S948D	Deviation (dB)	Max Deviation (dB)	Pass/Fail
2.1046, 15.407(a)(8)	Conducted Output Power	Mid Channel Each UNII Band - 802.11be 20MHz 242T - VLP	dBm	N/A	7.16	7.56	0.40	1	PASS
					7.9	7.80	-0.10	1	PASS
					8.44	8.47	0.03	1	PASS
					8.47	8.61	0.14	1	PASS
15.209	Radiated Spurious Emissions	802.11ax/be MIMO 26 Tone - Ch.45 - Average - 12350 MHz	dBμV/m	53.98	38.16	37.98	-0.18	3	PASS
15.209	Radiated Band Edge Emissions	802.11ax MIMO 242 Tone Ch.2 - Average	dBμV/m	68.2	64.43	63.8	-0.63	3	PASS

Table 9-3. Summary of Spot-checks

- END OF TEST REPORT -

FCC ID: A3LSMS948JPN	MEASUREMENT REPORT			Approved by: Technical Manager
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