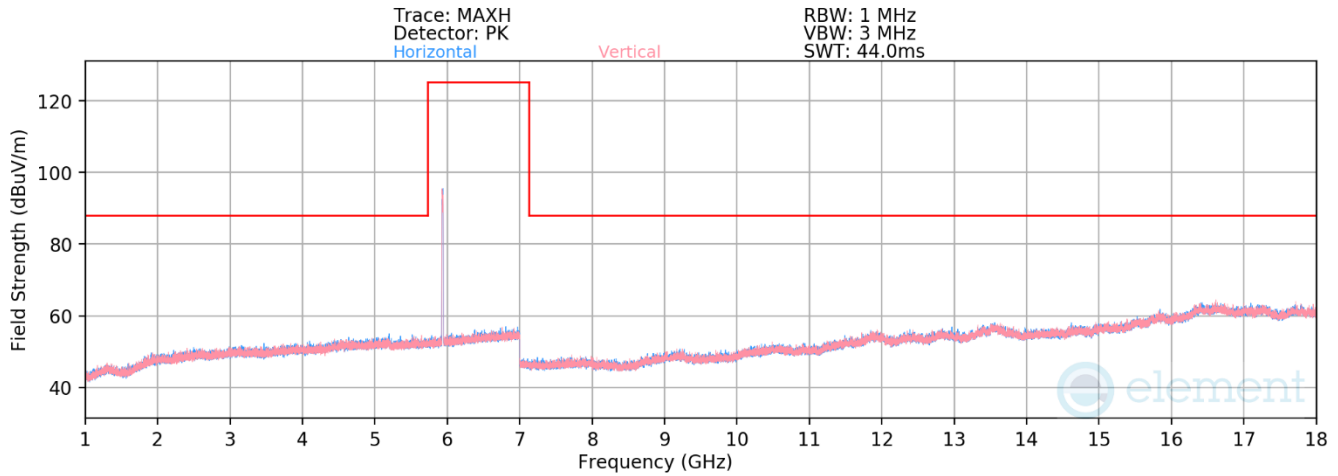
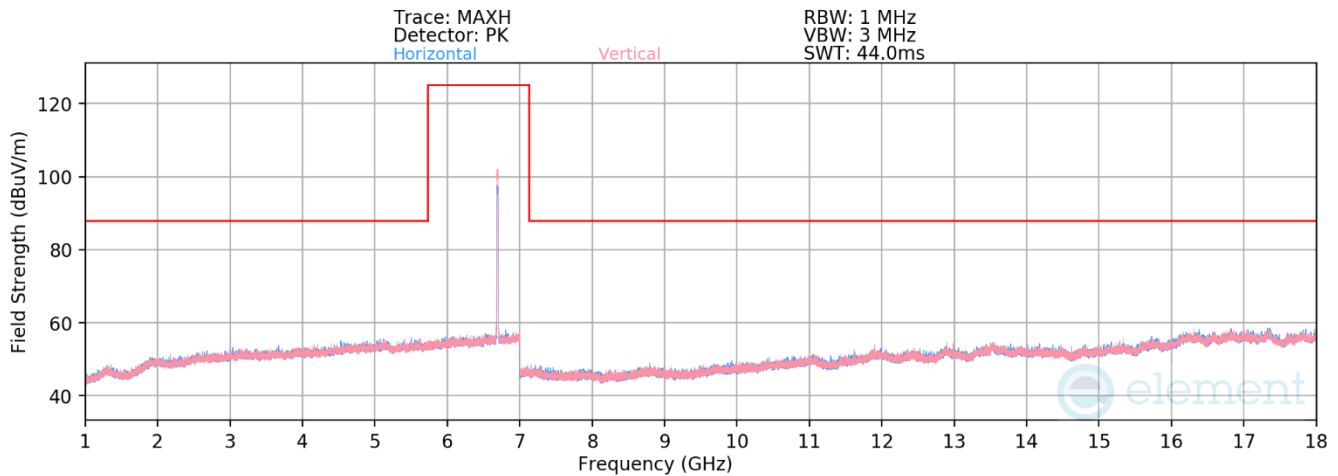


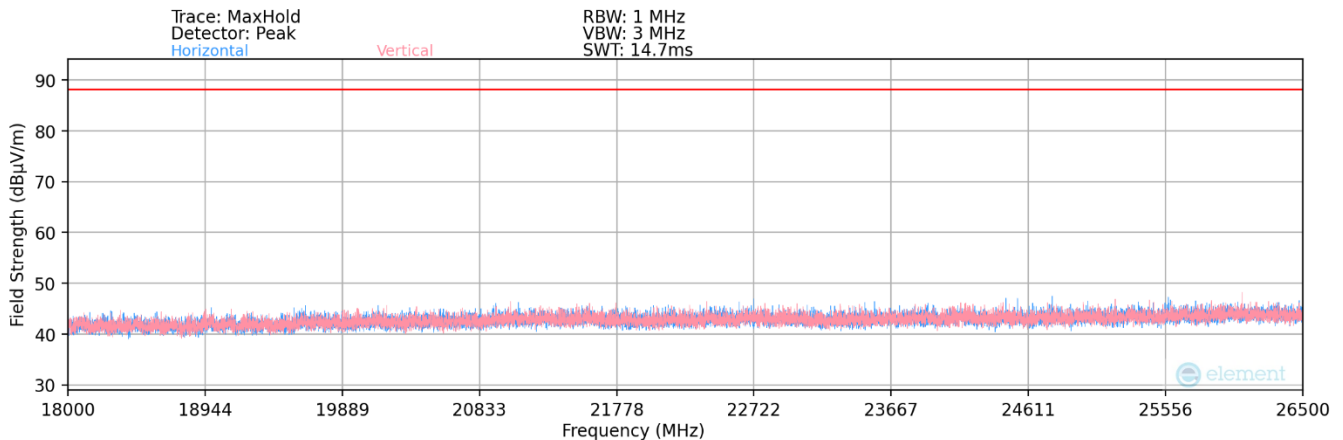
7.7.1 MIMO Radiated Spurious Emission Measurements (26 Tones)



Plot 7-97. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 5 Ch. 45)

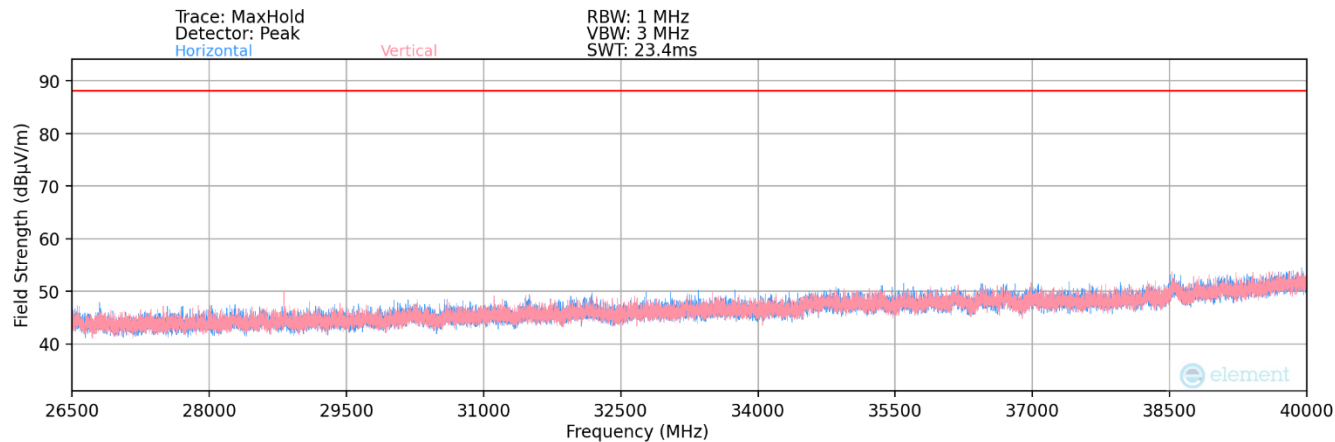


Plot 7-98. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 7 Ch. 149)



Plot 7-99. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax)

FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 105 of 123



Plot 7-100. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)

FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 106 of 123

7.7.1.1 MIMO Radiated Spurious Emission Measurements (26 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]
802.11be RU 26T	MIMO	5	2	5935	4	*	11870.00	Average	V	-	-	-85.02	21.15	0.00	43.13	53.98	-10.85
						*	11870.00	Peak	V	-	-	-73.80	20.92	0.00	54.12	73.98	-19.86
						*	17805.00	Average	V	-	-	-86.03	31.49	0.00	52.46	53.98	-1.52
						*	17805.00	Peak	V	-	-	-74.78	31.49	0.00	63.71	73.98	-10.27
						*	23740.00	Average	V	-	-	-66.04	3.58	-9.54	35.00	53.98	-18.98
						*	23740.00	Peak	V	-	-	-55.97	3.58	-9.54	45.07	73.98	-28.91
			45	6175	4	*	29675.00	Peak	V	-	-	-56.82	5.33	-9.54	45.97	68.20	-22.23
						*	12350.00	Average	V	-	-	-85.63	21.89	0.00	43.26	53.98	-10.72
						*	12350.00	Peak	V	-	-	-73.40	21.31	0.00	54.91	73.98	-19.07
						*	18525.00	Average	V	-	-	-65.19	1.16	-9.54	33.43	53.98	-20.55
						*	18525.00	Peak	V	-	-	-55.15	1.16	-9.54	43.47	73.98	-30.51
						*	24700.00	Peak	V	-	-	-56.85	3.72	-9.54	44.33	68.20	-23.87
			93	6415	4	*	30875.00	Peak	V	-	-	-56.02	6.32	-9.54	47.76	68.20	-20.44
						*	12830.00	Peak	V	-	-	-72.45	17.82	0.00	52.37	68.20	-15.83
						*	19245.00	Average	V	-	-	-65.15	1.84	-9.54	34.15	53.98	-19.83
						*	19245.00	Peak	V	-	-	-55.04	1.84	-9.54	44.26	73.98	-29.72
						*	25660.00	Peak	V	-	-	-56.24	3.90	-9.54	45.12	68.20	-23.08
						*	32075.00	Peak	V	-	-	-67.13	6.64	-9.54	36.97	68.20	-31.23

Table 7-46. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 107 of 123

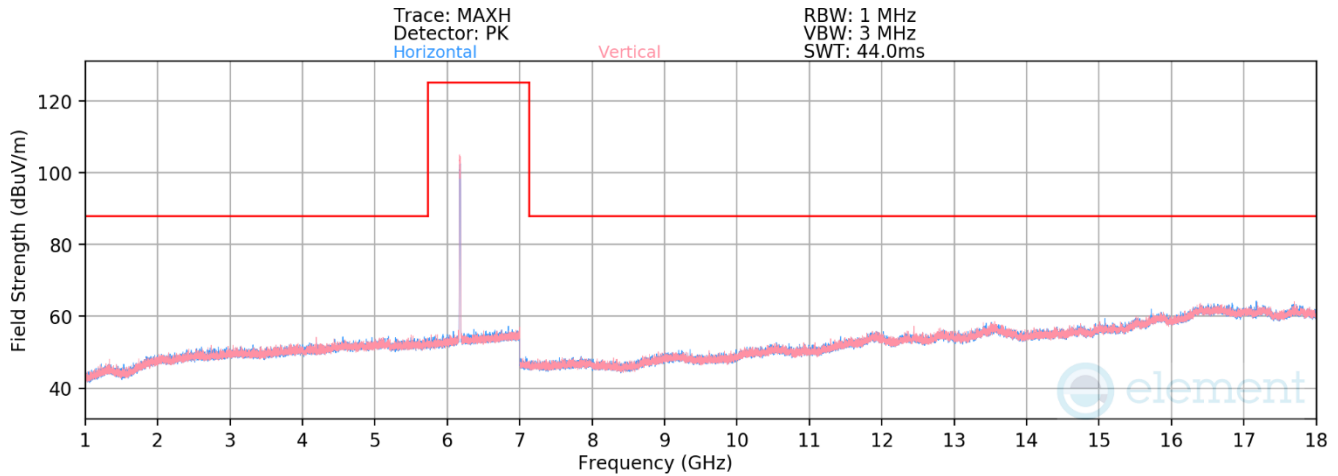
7.7.1.2 MIMO Radiated Spurious Emission Measurements (26 Tones) – UNII Band 7

Mode	Antenna	UNII Band	Channel	Test Channel Name	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
802.11be RU 26T	MIMO	7	117	6535	4		13070.00	Peak	V	-	-	-72.20	18.28	0.00	53.08	68.20	-15.12
						*	19605.00	Average	V	-	-	-65.36	2.38	-9.54	34.48	53.98	-19.50
						*	19605.00	Peak	V	-	-	-55.63	2.38	-9.54	44.21	73.98	-29.77
							26140.00	Peak	V	-	-	-55.25	4.03	-9.54	46.24	68.20	-21.96
							32675.00	Peak	V	-	-	-56.72	6.46	-9.54	47.20	68.20	-21.00
			149	6695	4	*	13390.00	Average	V	-	-	-83.98	17.72	0.00	40.74	53.98	-13.24
						*	13390.00	Peak	V	-	-	-71.75	17.76	0.00	53.01	73.98	-20.97
						*	20085.00	Average	V	-	-	-65.87	2.58	-9.54	34.17	53.98	-19.81
						*	20085.00	Peak	V	-	-	-56.24	2.58	-9.54	43.80	73.98	-30.18
							26780.00	Peak	V	-	-	-56.65	4.33	-9.54	45.14	68.20	-23.06
			185	6875	4		33475.00	Peak	V	-	-	-56.75	6.96	-9.54	47.67	68.20	-20.53
							13750.00	Peak	V	-	-	-70.82	17.56	0.00	53.74	68.20	-14.46
						*	20625.00	Average	V	-	-	-66.02	3.01	-9.54	34.45	53.98	-19.53
						*	20625.00	Peak	V	-	-	-54.87	3.01	-9.54	45.60	73.98	-28.38
							27500.00	Peak	V	-	-	-56.72	3.97	-9.54	44.71	68.20	-23.49
							34375.00	Peak	V	-	-	-57.03	7.33	-9.54	47.76	68.20	-20.44

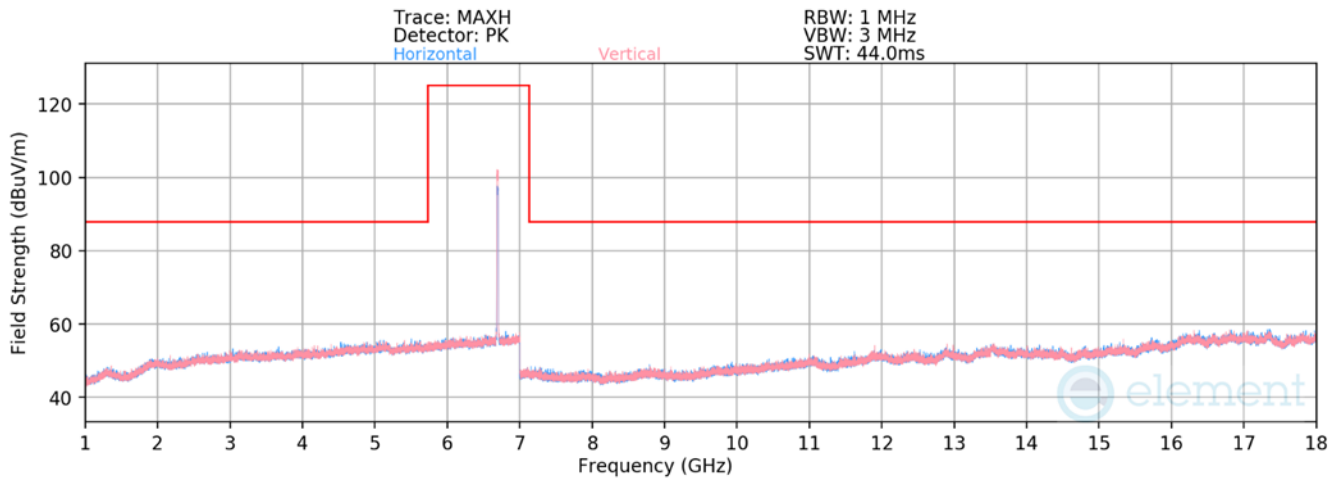
Table 7-47. Radiated Measurements MIMO (26 Tones)

FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 108 of 123

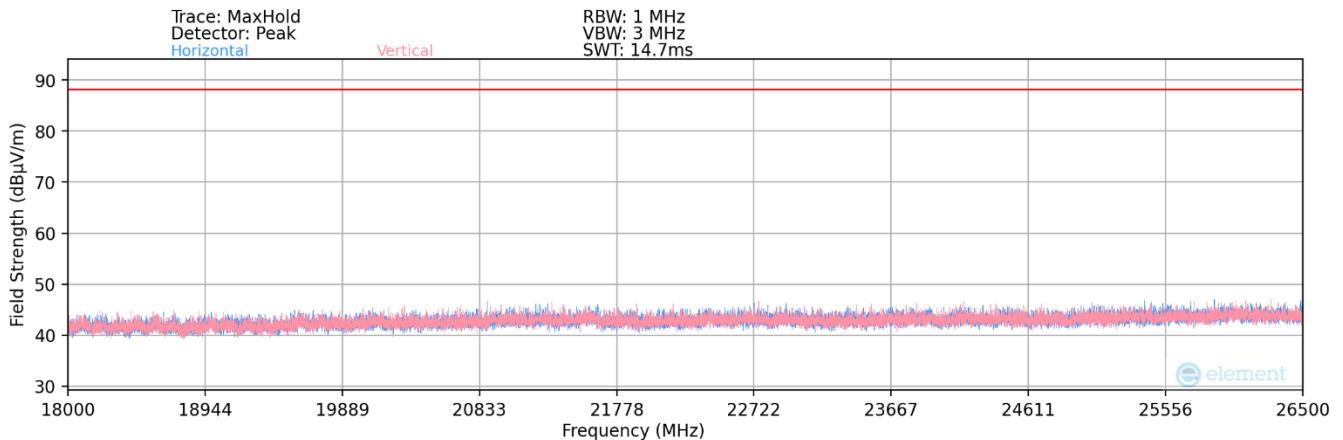
7.7.2 MIMO Radiated Spurious Emission Measurements (242 Tones)



Plot 7-101. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 5 Ch. 45)

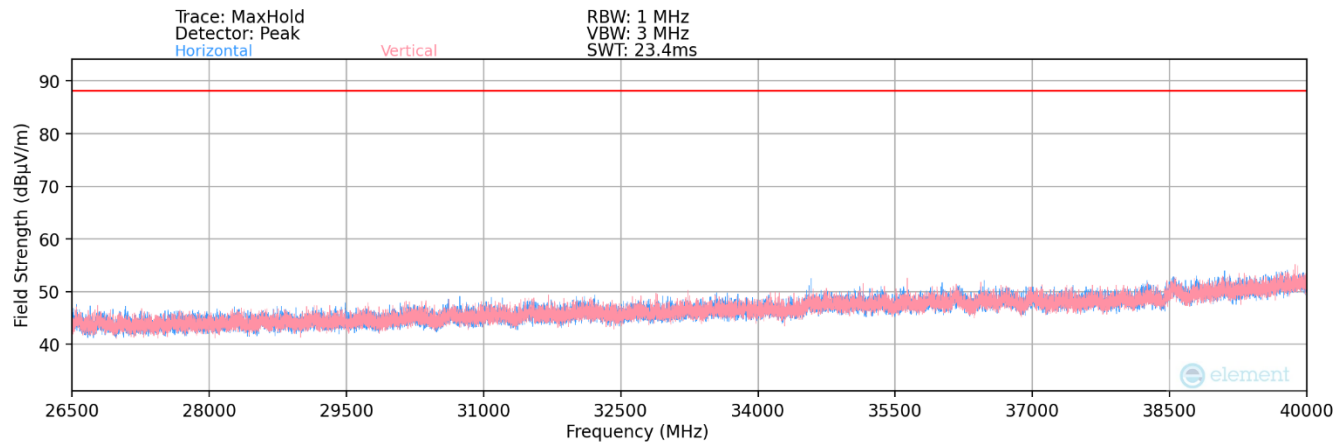


Plot 7-102. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 7 Ch. 149)



Plot 7-103. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax)

FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 109 of 123



Plot 7-104. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)

FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 110 of 123

7.7.2.1 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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
802.11be RU 242T	MIMO	S	2	5935	61	*	11870.00	Average	V	-	-	-84.97	21.15	0.00	43.18	53.98	-10.80
						*	11870.00	Peak	V	-	-	-73.81	21.15	0.00	54.34	73.98	-19.64
						*	17805.00	Average	V	-	-	-85.98	31.45	0.00	52.47	53.98	-1.51
						*	17805.00	Peak	V	-	-	-74.18	31.49	0.00	64.31	73.98	-9.67
						*	23740.00	Average	V	-	-	-66.01	3.58	-9.54	35.03	53.98	-18.95
						*	23740.00	Peak	V	-	-	-56.58	3.58	-9.54	44.46	73.98	-29.52
			45	6175	61		29675.00	Peak	V	-	-	-56.58	5.33	-9.54	46.21	68.20	-21.99
						*	12350.00	Average	V	-	-	-85.68	21.89	0.00	43.21	53.98	-10.77
						*	12350.00	Peak	V	-	-	-74.49	21.89	0.00	54.40	73.98	-19.58
						*	18525.00	Average	V	-	-	-65.35	1.16	-9.54	33.27	53.98	-20.71
						*	18525.00	Peak	V	-	-	-54.80	1.16	-9.54	43.82	73.98	-30.16
							24700.00	Peak	V	-	-	-55.97	3.72	-9.54	45.21	68.20	-22.99
			93	6415	61		30875.00	Peak	V	-	-	-56.81	6.32	-9.54	46.97	68.20	-21.23
							12830.00	Peak	V	-	-	-71.50	17.54	0.00	53.04	68.20	-15.16
						*	19245.00	Average	V	-	-	-65.19	1.84	-9.54	34.11	53.98	-19.87
						*	19245.00	Peak	V	-	-	-55.05	1.84	-9.54	44.25	73.98	-29.73
							25660.00	Peak	V	-	-	-55.80	3.90	-9.54	45.56	68.20	-22.64
							32075.00	Peak	V	-	-	-56.54	6.64	-9.54	47.56	68.20	-20.64

Table 7-48. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 111 of 123

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

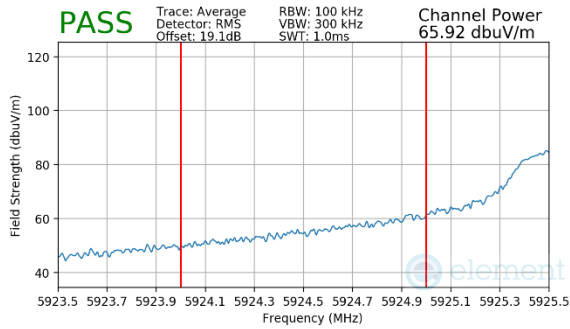
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
802.11be RU 242T	MIMO	7	117	6535	61		13070.00	Peak	V	-	-	-72.31	18.33	0.00	53.02	68.20	-15.18
						*	19605.00	Average	V	-	-	-65.60	2.38	-9.54	34.24	53.98	-19.74
						*	19605.00	Peak	V	-	-	-54.74	2.38	-9.54	45.10	73.98	-28.88
							26140.00	Peak	V	-	-	-55.57	4.03	-9.54	45.92	68.20	-22.28
							32675.00	Peak	V	-	-	-57.06	6.46	-9.54	46.86	68.20	-21.34
			149	6695	61	*	13390.00	Average	V	-	-	-83.98	17.76	0.00	40.78	53.98	-13.20
						*	13390.00	Peak	V	-	-	-72.54	17.50	0.00	51.96	73.98	-22.02
						*	20085.00	Average	V	-	-	-65.53	2.58	-9.54	34.51	53.98	-19.47
						*	20085.00	Peak	V	-	-	-55.83	2.58	-9.54	44.21	73.98	-29.77
							26780.00	Peak	V	-	-	-55.90	4.33	-9.54	45.89	68.20	-22.31
			185	6875	61		33475.00	Peak	V	-	-	-56.24	6.96	-9.54	48.18	68.20	-20.02
							13750.00	Peak	V	-	-	-71.30	17.56	0.00	53.26	68.20	-14.94
						*	20625.00	Average	V	-	-	-65.72	3.01	-9.54	34.75	53.98	-19.23
						*	20625.00	Peak	V	-	-	-55.05	3.01	-9.54	45.41	73.98	-28.57
							27500.00	Peak	V	-	-	-56.73	3.97	-9.54	44.70	68.20	-23.50
							34375.00	Peak	V	-	-	-56.57	7.33	-9.54	48.22	68.20	-19.98

Table 7-49. Radiated Measurements MIMO (242 Tones)

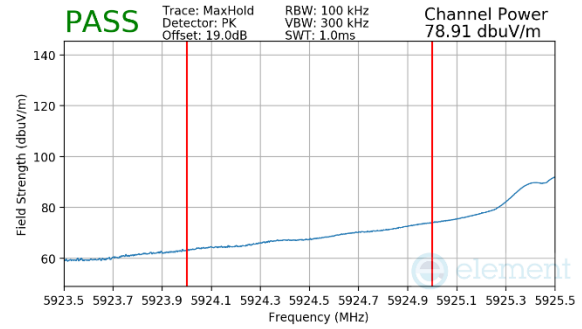
FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 112 of 123

7.7.3 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 7-105. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106T)

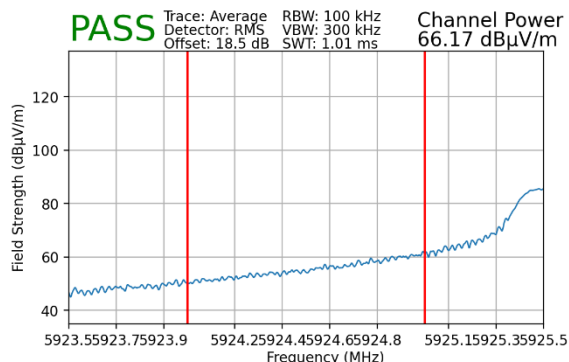


Plot 7-106. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106T)

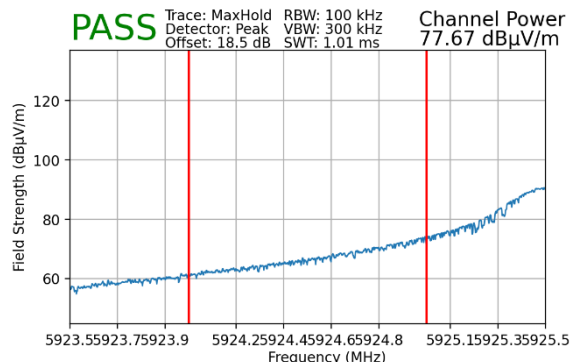
FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 113 of 123

7.7.4 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 7-107. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106+26T)

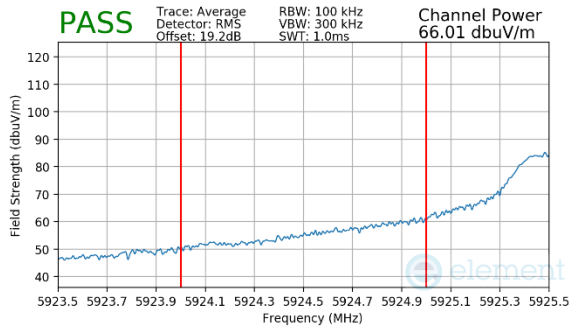


Plot 7-108. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106+26T)

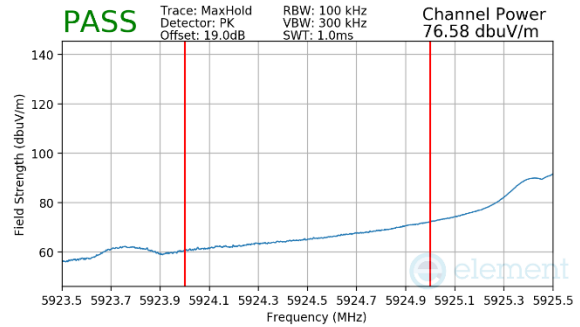
FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 114 of 123

7.7.5 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

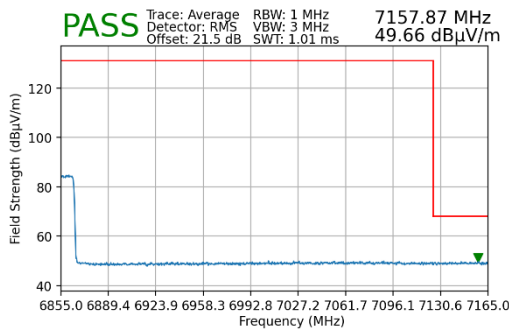


Plot 7-109. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 242T)

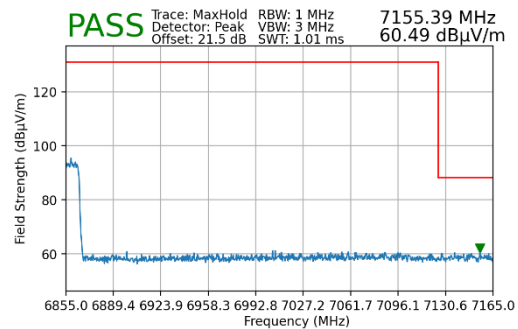


Plot 7-110. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	6875MHz
Channel:	185



Plot 7-111. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 7 – 242T)



Plot 7-112. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 7 – 242T)

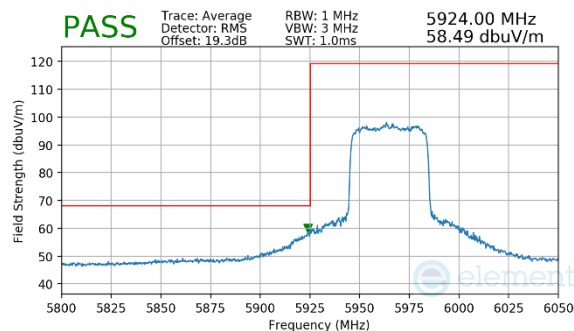
Note:

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.

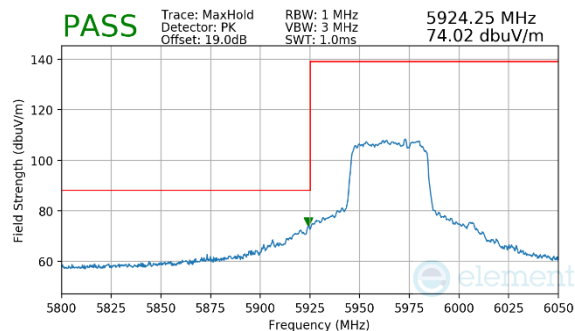
FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 115 of 123

7.7.6 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 7-113. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 484T)

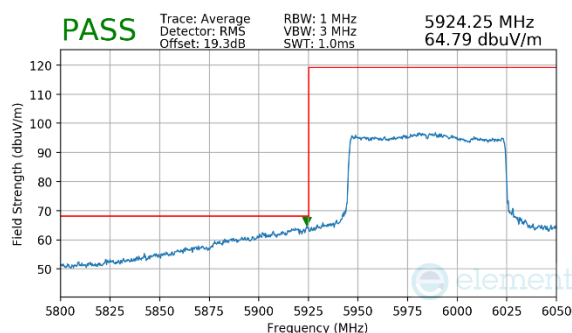


Plot 7-114. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484T)

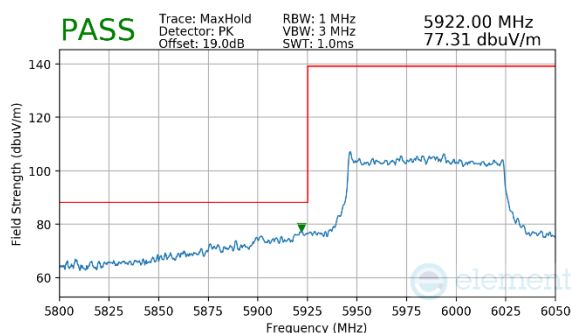
FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 116 of 123

7.7.7 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 7-115. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996T)

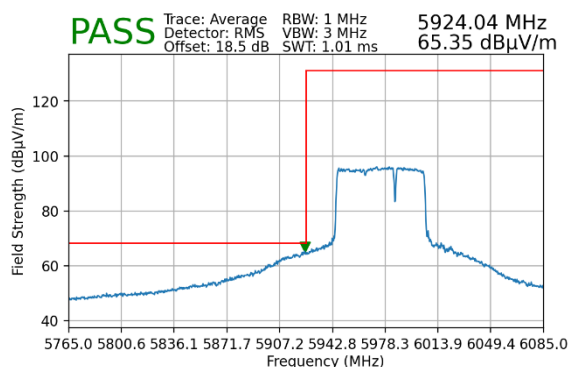


Plot 7-116. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996T)

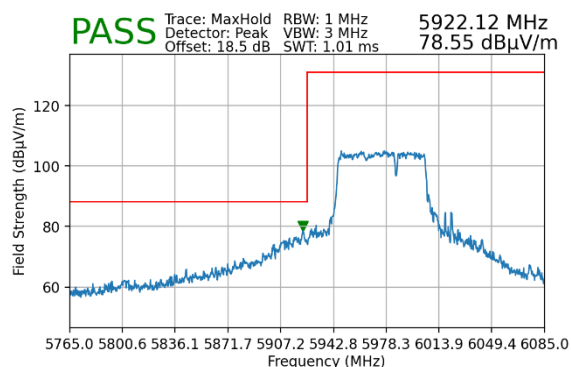
FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 117 of 123

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

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	92
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)

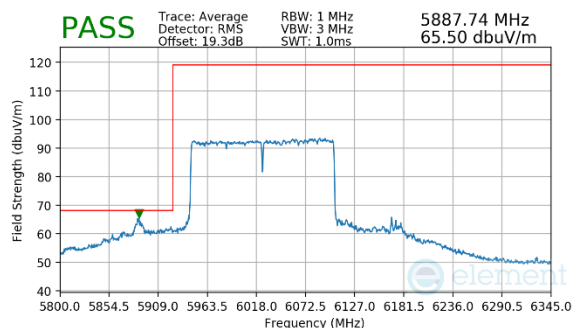


Plot 7-118. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484+242T)

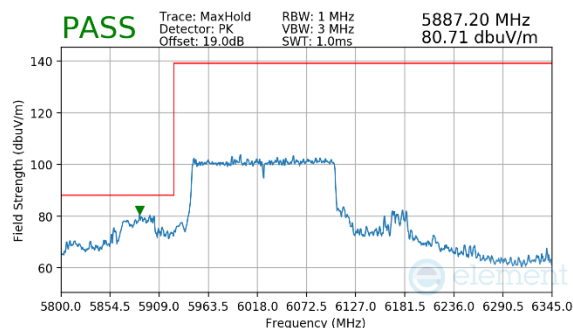
FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.9 MIMO Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



Plot 7-119. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 2x996T)

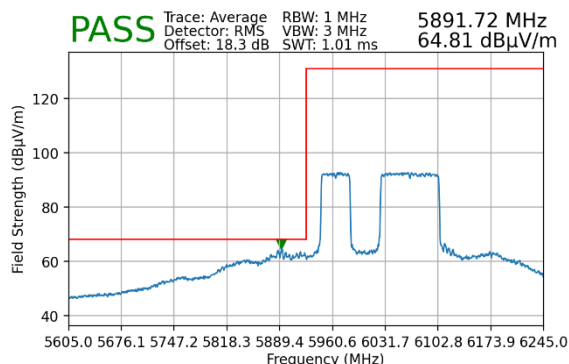


Plot 7-120. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 2x996T)

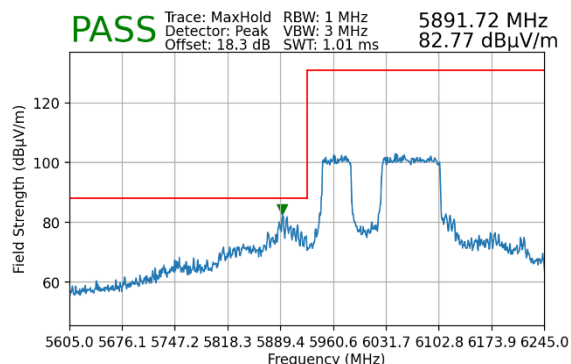
FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.10 MIMO Radiated Band Edge Measurements (160MHz BW – MRU – 996+484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	1094
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



Plot 7-121. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996+484T)

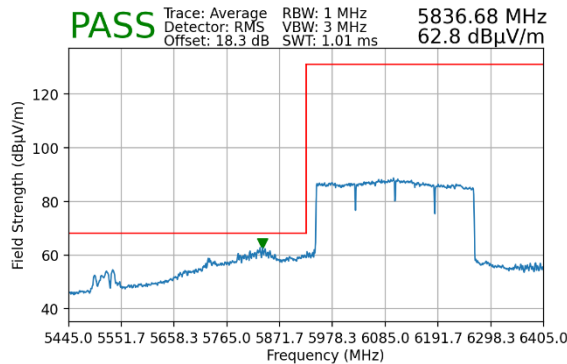


Plot 7-122. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996+484T)

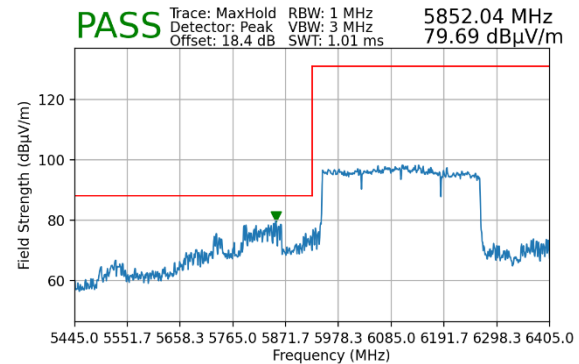
FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-35.A3L	Test Dates: 09/03/2024 - 10/31/2024	EUT Type: Portable Handset	Page 120 of 123

7.7.11 MIMO Radiated Band Edge Measurements (320MHz BW – Full Tone – 4*996T)

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

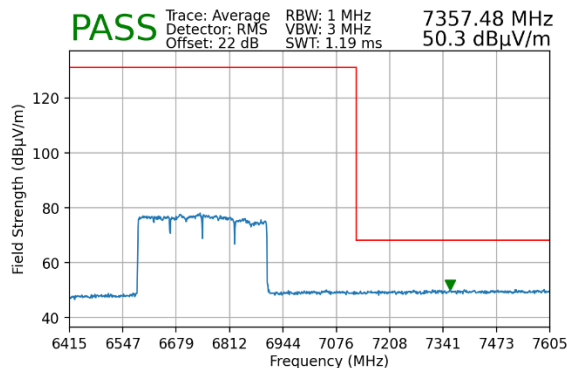


Plot 7-123. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 4*996T)

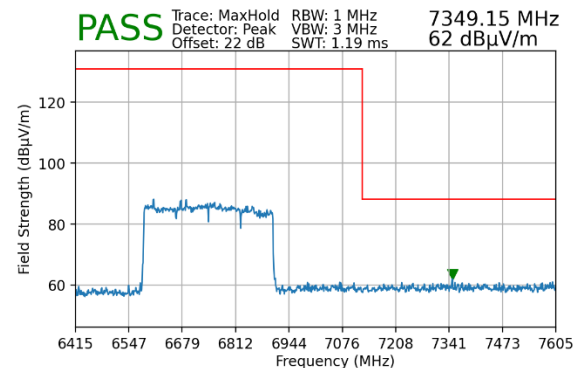


Plot 7-124. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 4*996T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	68
Distance of Measurements:	3 Meters
Operating Frequency:	6745MHz
Channel:	159



Plot 7-125. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 7 – 4*996T)

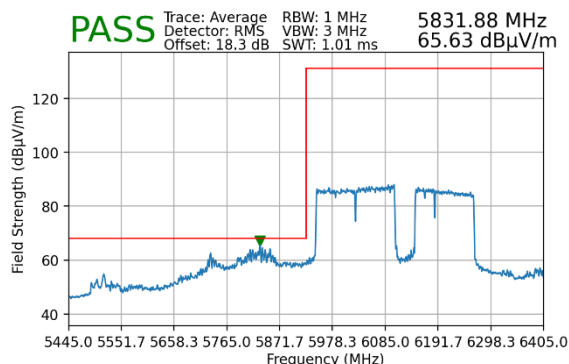


Plot 7-126. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 7 – 4*996T)

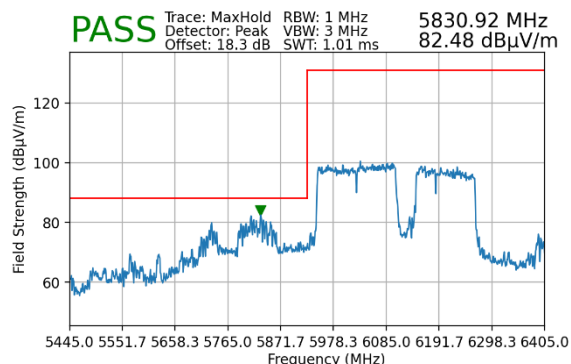
FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.12 MIMO Radiated Band Edge Measurements (320MHz BW – MRU – 3*996+484T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	10105
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



Plot 7-127. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 3*996+484T)



Plot 7-128. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 3*996+484T)

FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
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8 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS936U** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a Very Low Power device.

FCC ID: A3LSMS936U	MEASUREMENT REPORT		Approved by: Technical Manager
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