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# 7.8.6.1 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]
						*	11870.00	Average	v	-	-	-82.14	18.86	0.00	43.72	53.98	-10.26
						*	11870.00	Peak	v	-	-	-70.41	18.86	0.00	55.45	73.98	-18.53
						*	17805.00	Average	v	-	-	-83.21	26.16	0.00	49.95	53.98	-4.03
			2	5935	61	*	17805.00	Peak	v	-	-	-71.18	26.16	0.00	61.98	73.98	-12.00
						*	23740.00	Average	V	-	-	-65.49	3.58	-9.54	35.55	53.98	-18.43
						*	23740.00	Peak	V	-	-	-55.01	3.58	-9.54	46.02	73.98	-27.95
							29675.00	Peak	V	-	-	-55.39	5.33	-9.54	47.40	68.20	-20.80
						*	12350.00	Average	V	-	-	-82.04	19.23	0.00	44.19	53.98	-9.79
802.11be	мімо	5				*	12350.00	Peak	V	-	-	-69.90	19.23	0.00	56.33	73.98	-17.65
RU 242T	WINO	5	45	6175	61	*	18525.00	Average	V	-	-	-64.66	1.16	-9.54	33.97	53.98	-20.01
			45	01/5	01	*	18525.00	Peak	V	-	-	-54.33	1.16	-9.54	44.29	73.98	-29.69
							24700.00	Peak	V	-	-	-55.41	3.72	-9.54	45.77	68.20	-22.43
							30875.00	Peak	V	-	-	-55.53	6.32	-9.54	48.26	68.20	-19.94
							12830.00	Peak	V	-	-	-70.40	20.14	0.00	56.74	68.20	-11.46
						*	19245.00	Average	V	-	-	-64.69	1.84	-9.54	34.61	53.98	-19.37
			93	6415	61	*	19245.00	Peak	V	-	-	-54.48	1.84	-9.54	44.82	73.98	-29.16
							25660.00	Peak	V	-	-	-55.24	3.90	-9.54	46.12	68.20	-22.08
							32075.00	Peak	V	-	-	-55.56	6.64	-9.54	48.54	68.20	-19.66

Table 7-50. Radiated Measurements MIMO (242 Tones)

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#### 7.8.6.2 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]
							12870.00	Peak	V	-	-	-70.38	20.06	0.00	56.68	68.20	-11.52
						*	19305.00	Average	v	-	-	-65.21	1.64	-9.54	33.90	53.98	-20.08
			97	6435	61	*	19305.00	Peak	V	-	-	-54.45	1.64	-9.54	44.66	73.98	-29.32
							25740.00	Peak	V	-	-	-54.61	3.84	-9.54	46.70	68.20	-21.50
							32175.00	Peak	V	-	-	-55.45	6.80	-9.54	48.81	68.20	-19.39
							12950.00	Peak	V	-	-	-69.98	20.00	0.00	57.02	68.20	-11.18
						*	19425.00	Average	V	-	-	-65.22	1.80	-9.54	34.04	53.98	-19.94
802.11be RU 242T	MIMO	6	105	6475	61	*	19425.00	Peak	V	-	-	-54.96	1.80	-9.54	44.30	73.98	-29.68
							25900.00	Peak	V	-	-	-54.92	4.24	-9.54	46.77	68.20	-21.43
							32375.00	Peak	V	-	-	-55.05	6.46	-9.54	48.87	68.20	-19.33
							13030.00	Peak	V	-	-	-71.10	20.37	0.00	56.27	68.20	-11.93
						*	19545.00	Average	V	-	-	-64.83	1.84	-9.54	34.47	53.98	-19.50
			113	6515	61	*	19545.00	Peak	V	-	-	-54.80	1.84	-9.54	44.50	73.98	-29.48
							26060.00	Peak	V	-	-	-55.09	4.18	-9.54	46.56	68.20	-21.64
							32575.00	Peak	v	-	-	-55.33	6.18	-9.54	48.31	68.20	-19.89

Table 7-51. Radiated Measurements MIMO (242 Tones)

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#### 7.8.6.3 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)
							13070.00	Peak	V	-	-	-70.61	20.29	0.00	56.68	68.20	-11.52
						*	19605.00	Average	v	-	-	-64.87	2.38	-9.54	34.97	53.98	-19.01
			117	6535	61	*	19605.00	Peak	V	-	-	-54.36	2.38	-9.54	45.48	73.98	-28.50
							26140.00	Peak	V	-	-	-54.83	4.03	-9.54	46.66	68.20	-21.54
							32675.00	Peak	V	-	-	-55.34	6.46	-9.54	48.58	68.20	-19.62
						*	13390.00	Average	V	-	-	-82.41	20.77	0.00	45.36	53.98	-8.62
						*	13390.00	Peak	V	-	-	-70.56	20.77	0.00	57.21	73.98	-16.77
802.11be	мімо	7	149	6695	61	*	20085.00	Average	V	-	-	-64.95	2.58	-9.54	35.09	53.98	-18.89
RU 242T	WINO	'	149	0095	01	*	20085.00	Peak	V	-	-	-54.95	2.58	-9.54	45.09	73.98	-28.89
							26780.00	Peak	V	-	-	-55.44	4.33	-9.54	46.35	68.20	-21.85
							33475.00	Peak	V	-	-	-55.28	6.96	-9.54	49.14	68.20	-19.06
							13750.00	Peak	V	-	-	-71.34	21.34	0.00	57.00	68.20	-11.20
						*	20625.00	Average	V	-	-	-65.26	3.01	-9.54	35.21	53.98	-18.77
			185	6875	61	*	20625.00	Peak	V	-	-	-54.78	3.01	-9.54	45.69	73.98	-28.29
							27500.00	Peak	V	-	-	-55.58	3.97	-9.54	45.86	68.20	-22.34
							34375.00	Peak	V	-	-	-55.82	7.33	-9.54	48.97	68.20	-19.23

Table 7-52. Radiated Measurements MIMO (242 Tones)

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

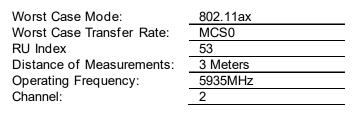
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
							13790.00	Peak	V	-	-	-70.78	21.59	0.00	57.81	68.20	-10.39
						*	20685.00	Average	V	-	-	-65.57	3.01	-9.54	34.91	53.98	-19.07
			189	6895	61	*	20685.00	Peak	V	-	-	-54.62	3.01	-9.54	45.85	73.98	-28.13
							27580.00	Peak	V	-	-	-55.39	4.40	-9.54	46.48	68.20	-21.72
							34475.00	Peak	V	-	-	-55.27	7.31	-9.54	49.50	68.20	-18.70
							13990.00	Peak	V	-	-	-70.58	21.24	0.00	57.66	68.20	-10.54
						*	20985.00	Average	V	-	-	-64.99	3.27	-9.54	35.74	53.98	-18.24
802.11be RU 242T	MIMO	8	209	6995	61	*	20985.00	Peak	V	-	-	-54.06	3.27	-9.54	46.67	73.98	-27.31
							27980.00	Peak	V	-	-	-55.11	4.40	-9.54	46.75	68.20	-21.45
							34975.00	Peak	V	-	-	-55.84	7.79	-9.54	49.41	68.20	-18.79
							14230.00	Peak	V	-	-	-70.02	21.94	0.00	58.92	68.20	-9.28
						*	21345.00	Average	V	-	-	-64.92	3.57	-9.54	36.12	53.98	-17.86
			233	7115	61	*	21345.00	Peak	V	-	-	-54.84	3.57	-9.54	46.19	73.98	-27.79
							28460.00	Peak	V	-	-	-55.34	5.01	-9.54	47.13	68.20	-21.07
							35575.00	Peak	V	-	-	-54.94	7.78	-9.54	50.29	68.20	-17.91

Table 7-53. Radiated Measurements MIMO (242 Tones)

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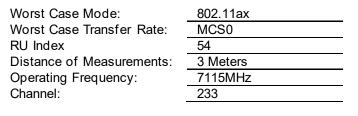


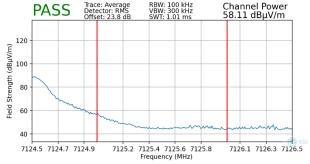
## 7.8.7 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)



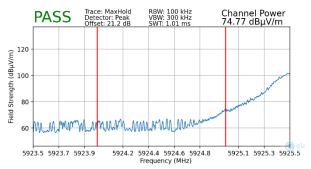


Plot 7-367. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106T)

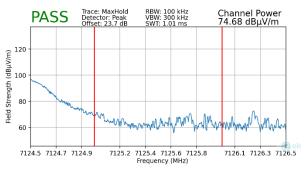




Plot 7-369. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 106T)



Plot 7-368. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106T)

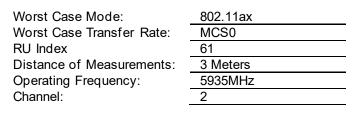


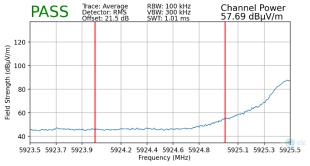
Plot 7-370. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 106T)

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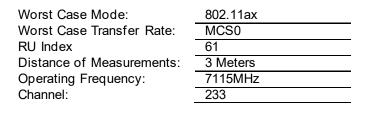


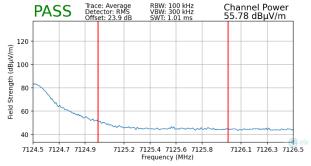
#### 7.8.8 MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)



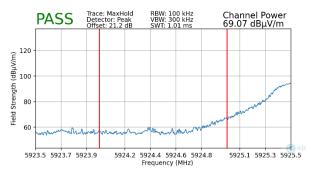


Plot 7-371. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 242T)

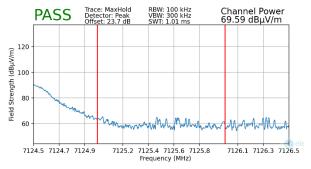




Plot 7-373. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 242T)



Plot 7-372. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 242T)

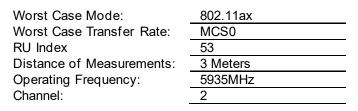


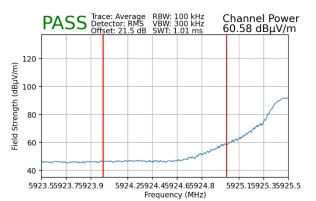
Plot 7-374. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 242T)

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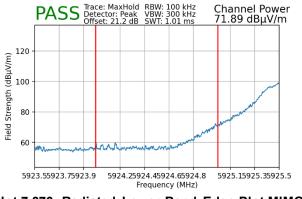


# 7.8.9 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – MRU)

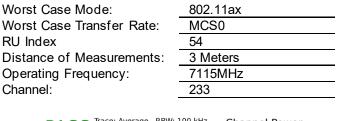


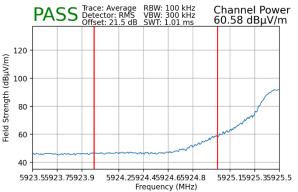


Plot 7-375. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106+26T)

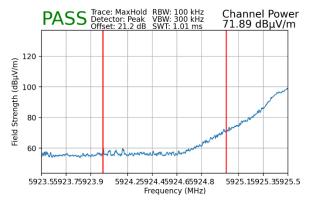


Plot 7-376. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106+26T)







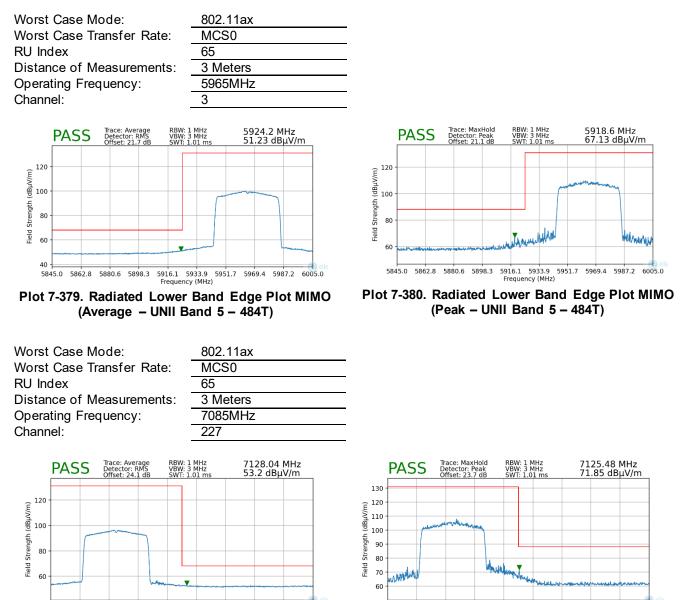




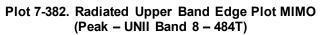
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#### 7.8.10 MIMO Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)





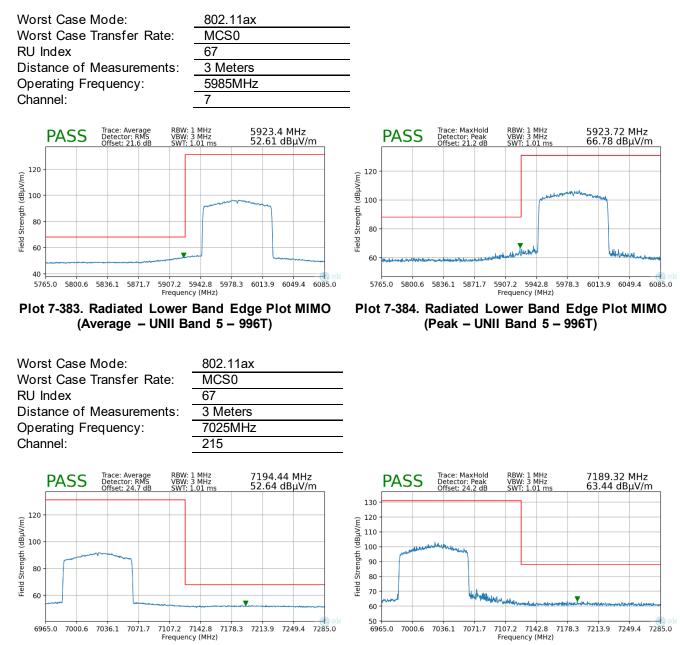


7045.0 7062.8 7080.6 7098.3 7116.1 7133.9 7151.7 7169.4 7187.2 7205.0 Frequency (MHz)

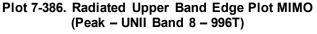
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#### 7.8.11 MIMO Radiated Band Edge Measurements (80MHz BW – Full Tone – 996T)



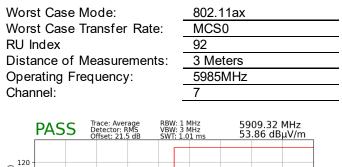
Plot 7-385. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 996T)

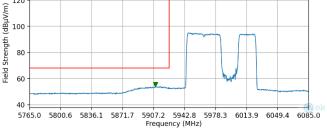


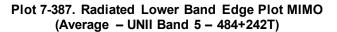
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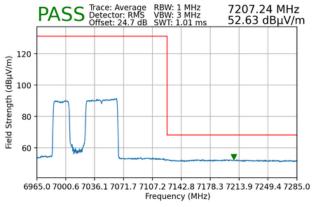
#### 7.8.12 MIMO Radiated Band Edge Measurements (80MHz BW – Partial Tone – MRU)



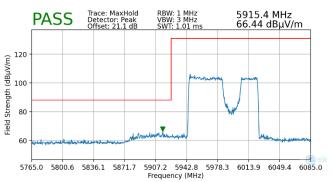




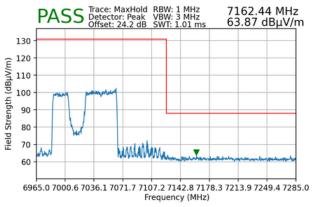
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	91
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215







Plot 7-388. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484+242T)

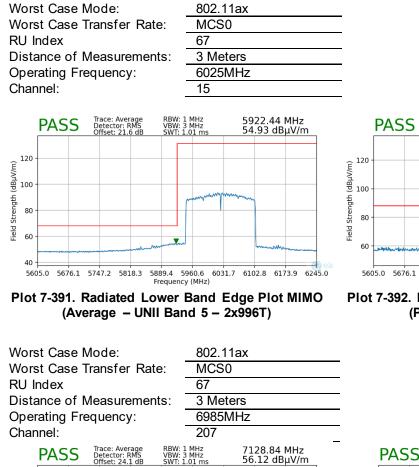


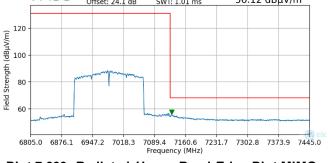
Plot 7-390. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 484+242T)

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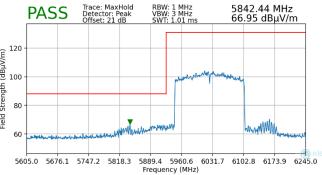


#### 7.8.13 MIMO Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

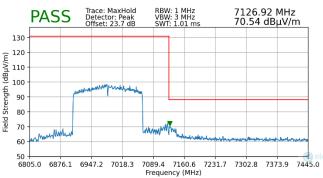




Plot 7-393. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 2x996T)



Plot 7-392. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 2x996T)

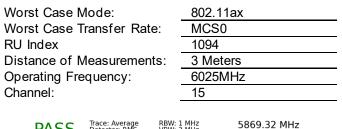


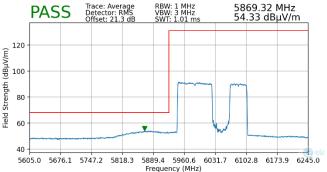
Plot 7-394. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 2x996T)

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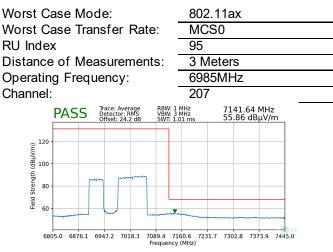


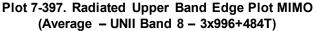
#### 7.8.14 MIMO Radiated Band Edge Measurements (160MHz BW – Partial Tone – MRU)

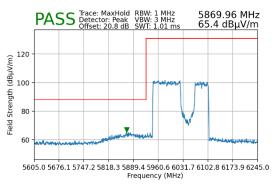


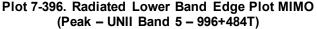


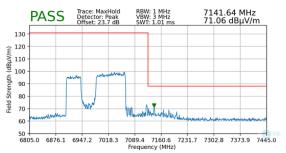
Plot 7-395. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996+484T)









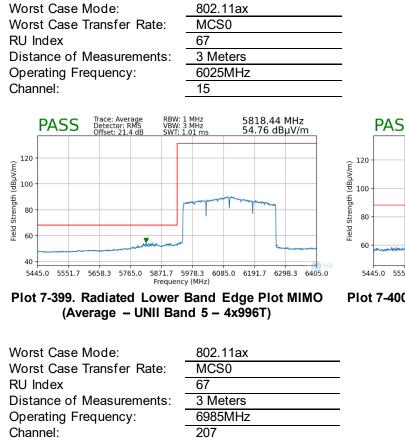


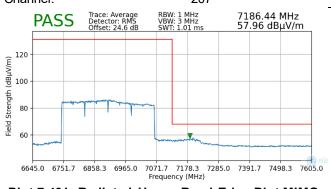
Plot 7-398. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 3x996+484T)

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#### 7.8.15 MIMO Radiated Band Edge Measurements (320MHz BW – Full Tone – 4x996T)

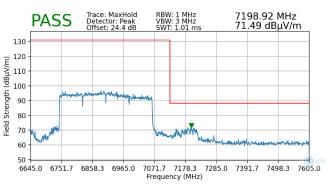










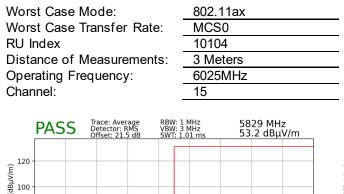


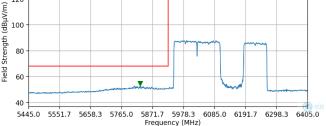
Plot 7-402. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 4x996T)

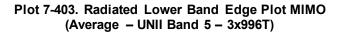
FCC ID: A3LSMX920	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dawa 075 of 077
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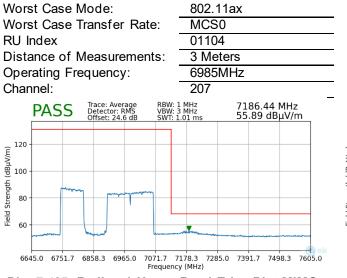


#### 7.8.16 MIMO Radiated Band Edge Measurements (320MHz BW – Partial Tone – MRU)

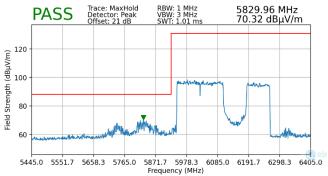




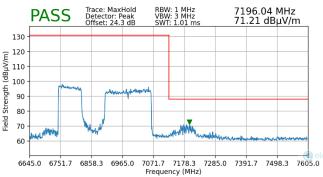




Plot 7-405. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 3x996T)



Plot 7-404. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 3x996T)



Plot 7-406. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 3x996T)

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# 8 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC: A3LSMX920** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a client device.

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