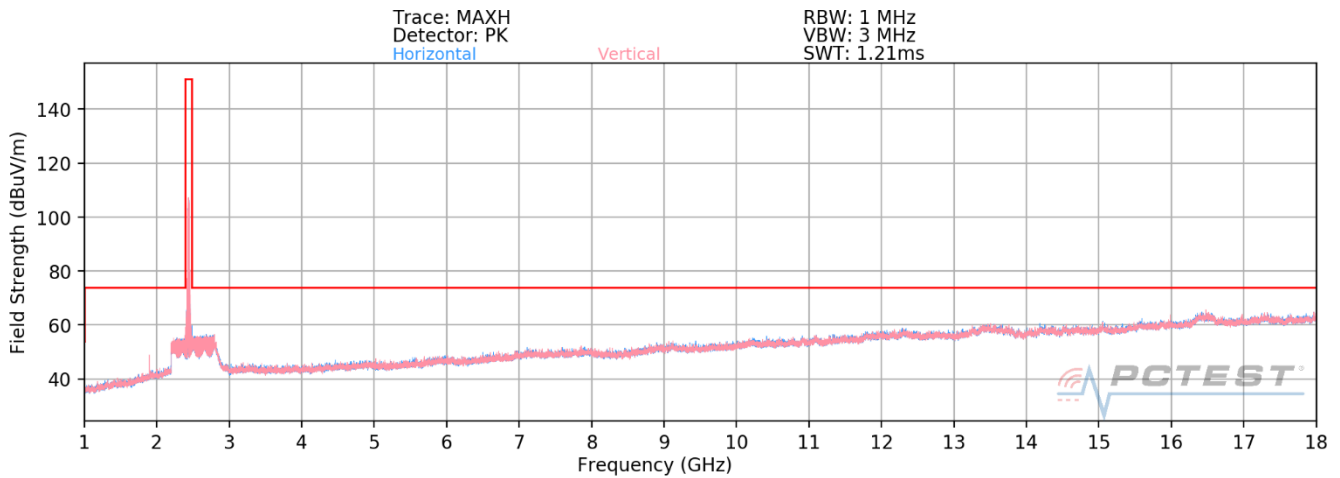
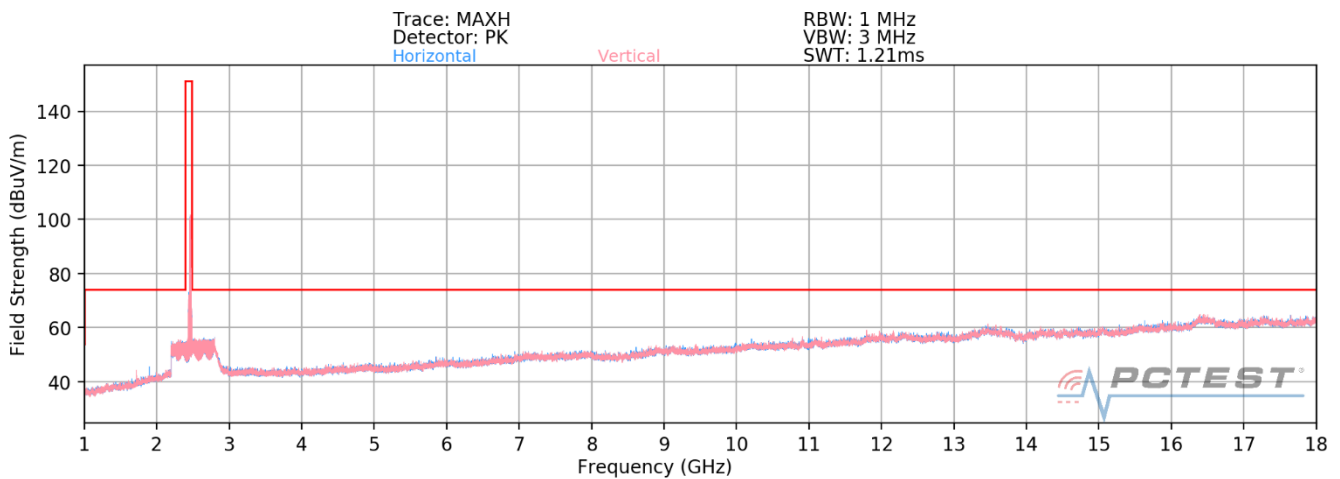


**Plot 7-80. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)**



**Plot 7-81. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6)**

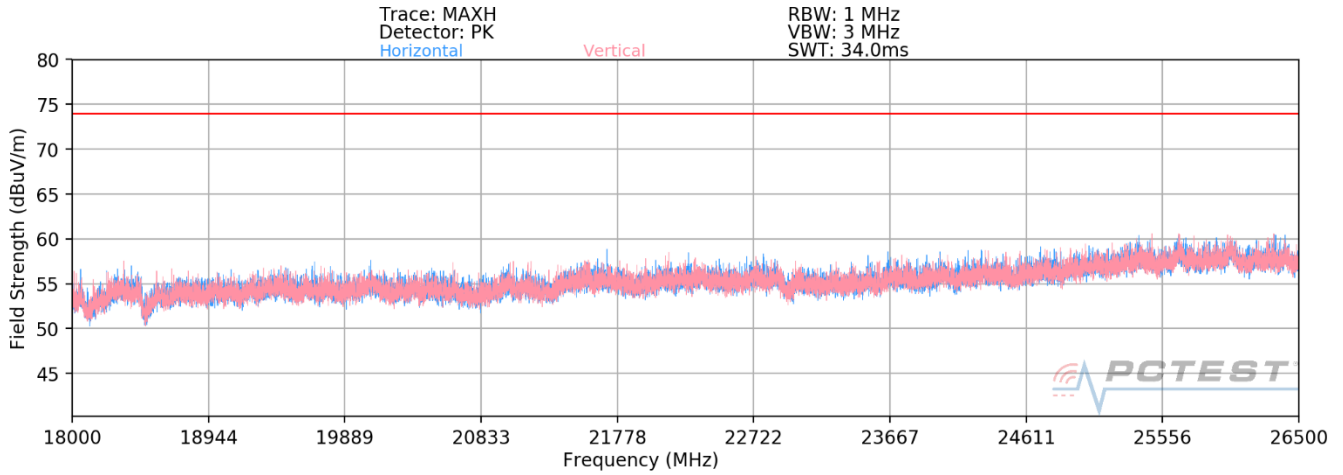


**Plot 7-82. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11)**

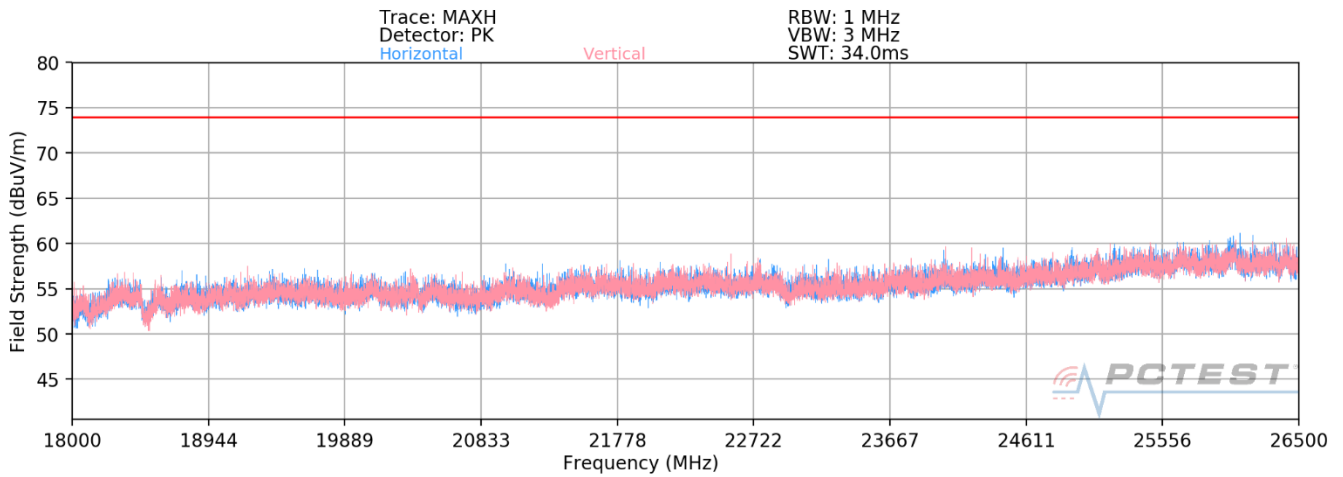
FCC ID: A3LSMG996U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 77 of 101

## SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



**Plot 7-83. Radiated Spurious Plot above 18GHz SISO ANT2 (802.11ax OFDMA – 26 Tones)**



**Plot 7-84. Radiated Spurious Plot above 18GHz SISO ANT2 (802.11ax OFDMA – 242 Tones)**

FCC ID: A3LSMG996U	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 78 of 101

## SISO Antenna-2 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 53  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 01

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]
4824.00	Avg	V	347	334	-72.92	5.84	39.92	53.98	-14.06
4824.00	Peak	V	347	334	-60.33	5.84	52.51	73.98	-21.47
12060.00	Avg	V	-	-	-80.78	17.06	43.28	53.98	-10.70
12060.00	Peak	V	-	-	-68.90	17.06	55.16	73.98	-18.82

**Table 7-26. Radiated Measurements SISO ANT2 (26 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 53  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2437MHz  
 Channel: 06

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]
4874.00	Avg	V	333	341	-73.79	6.04	39.25	53.98	-14.73
4874.00	Peak	V	333	341	-59.35	6.04	53.69	73.98	-20.29
7311.00	Avg	V	-	-	-79.71	11.36	38.65	53.98	-15.33
7311.00	Peak	V	-	-	-67.61	11.36	50.75	73.98	-23.23
12185.00	Avg	V	-	-	-81.14	16.99	42.85	53.98	-11.13
12185.00	Peak	V	-	-	-69.49	16.99	54.50	73.98	-19.48

**Table 7-27. Radiated Measurements SISO ANT2 (26 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 79 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 53  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

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]
4924.00	Avg	V	332	341	-73.31	6.27	39.96	53.98	-14.02
4924.00	Peak	V	332	341	-61.04	6.27	52.23	73.98	-21.75
7386.00	Avg	V	-	-	-79.78	12.18	39.40	53.98	-14.58
7386.00	Peak	V	-	-	-67.67	12.18	51.51	73.98	-22.47
12310.00	Avg	V	-	-	-80.73	17.29	43.56	53.98	-10.42
12310.00	Peak	V	-	-	-68.29	17.29	56.00	73.98	-17.98

**Table 7-28. Radiated Measurements SISO ANT2 (26 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 01

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]
4824.00	Avg	H	334	337	-78.70	5.84	34.14	53.98	-19.84
4824.00	Peak	H	334	337	-63.64	5.84	49.20	73.98	-24.78
12060.00	Avg	H	-	-	-80.84	17.06	43.22	53.98	-10.76
12060.00	Peak	H	-	-	-69.12	17.06	54.94	73.98	-19.04

**Table 7-29. Radiated Measurements SISO ANT2 (242 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 80 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2437MHz  
 Channel: 06

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]
4874.00	Avg	H	333	330	-75.61	6.04	37.43	53.98	-16.55
4874.00	Peak	H	333	330	-63.52	6.04	49.52	73.98	-24.46
7311.00	Avg	H	-	-	-79.19	11.36	39.17	53.98	-14.81
7311.00	Peak	H	-	-	-66.53	11.36	51.83	73.98	-22.15
12185.00	Avg	H	-	-	-81.02	16.99	42.97	53.98	-11.01
12185.00	Peak	H	-	-	-69.30	16.99	54.69	73.98	-19.29

**Table 7-30. Radiated Measurements SISO ANT2 (242 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

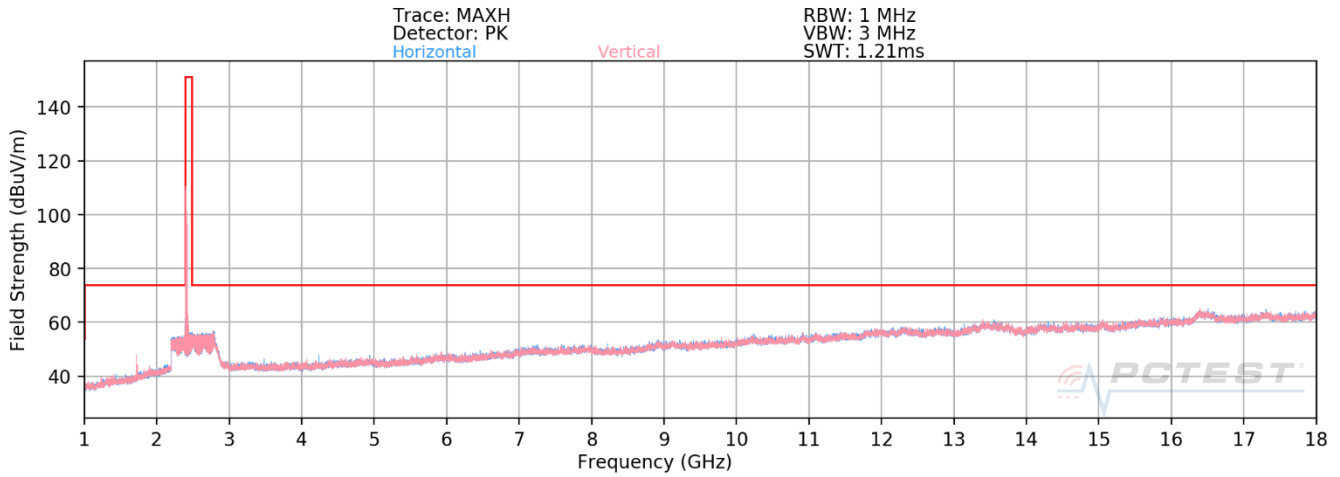
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	H	357	327	-77.77	6.27	35.50	53.98	-18.48
4924.00	Peak	H	357	327	-65.97	6.27	47.30	73.98	-26.68
7386.00	Avg	H	-	-	-79.71	12.18	39.47	53.98	-14.51
7386.00	Peak	H	-	-	-67.77	12.18	51.41	73.98	-22.57
12310.00	Avg	H	-	-	-80.81	17.29	43.48	53.98	-10.50
12310.00	Peak	H	-	-	-68.89	17.29	55.40	73.98	-18.58

**Table 7-31. Radiated Measurements SISO ANT2 (242 Tones)**

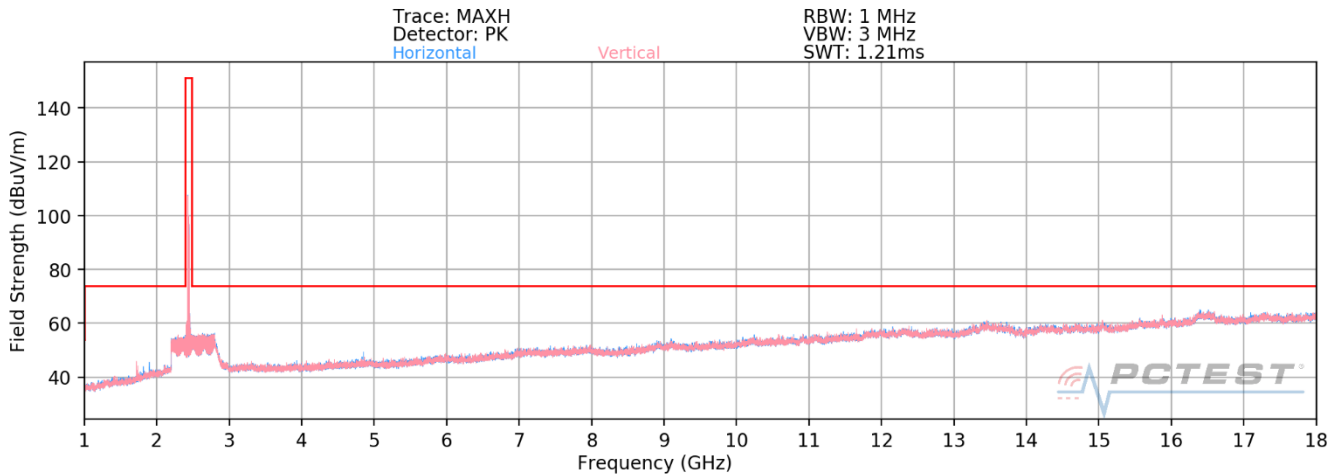
FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 81 of 101

### 7.7.3 MIMO Radiated Spurious Emission Measurements

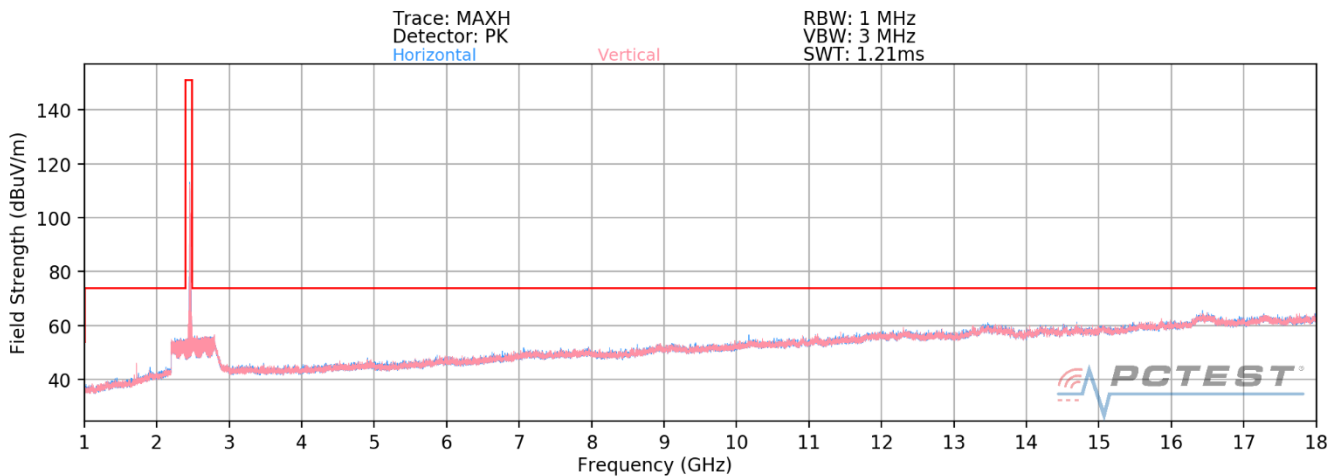
**§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]**



**Plot 7-85. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 1)**

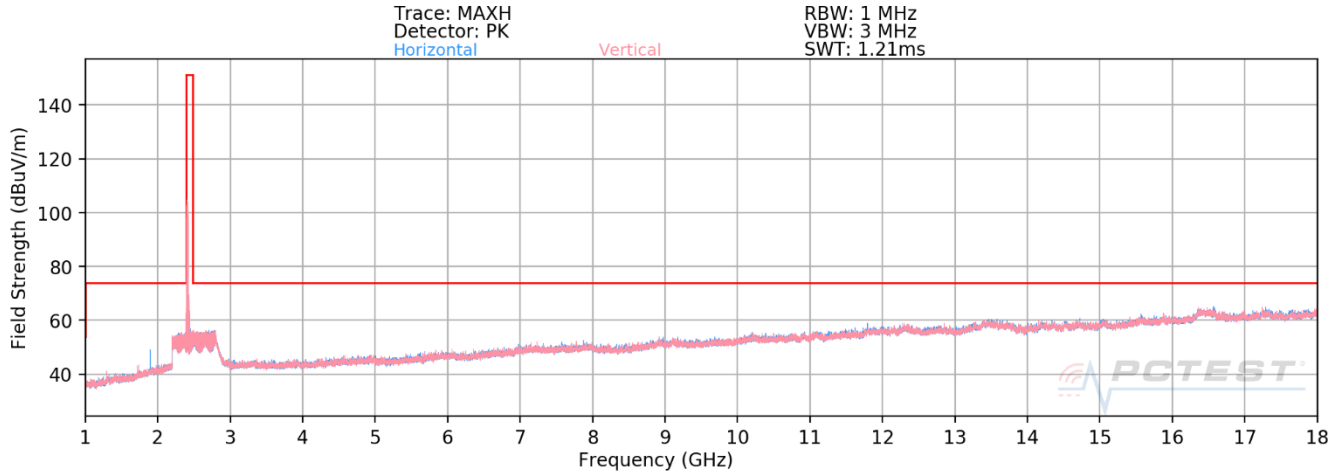


**Plot 7-86. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 6)**

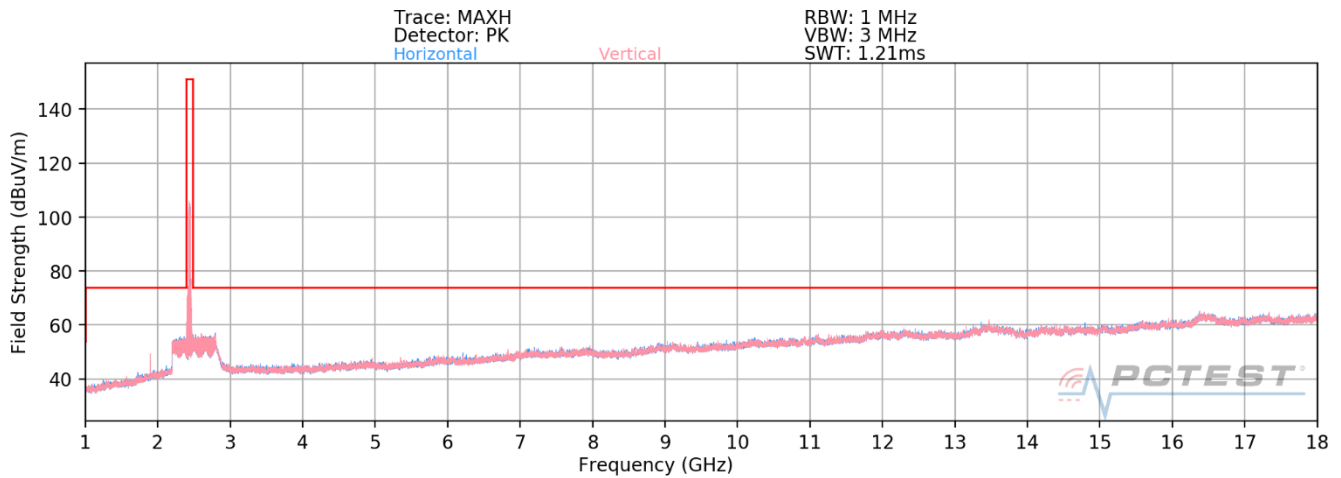


**Plot 7-87. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 26 Tones – Ch. 11)**

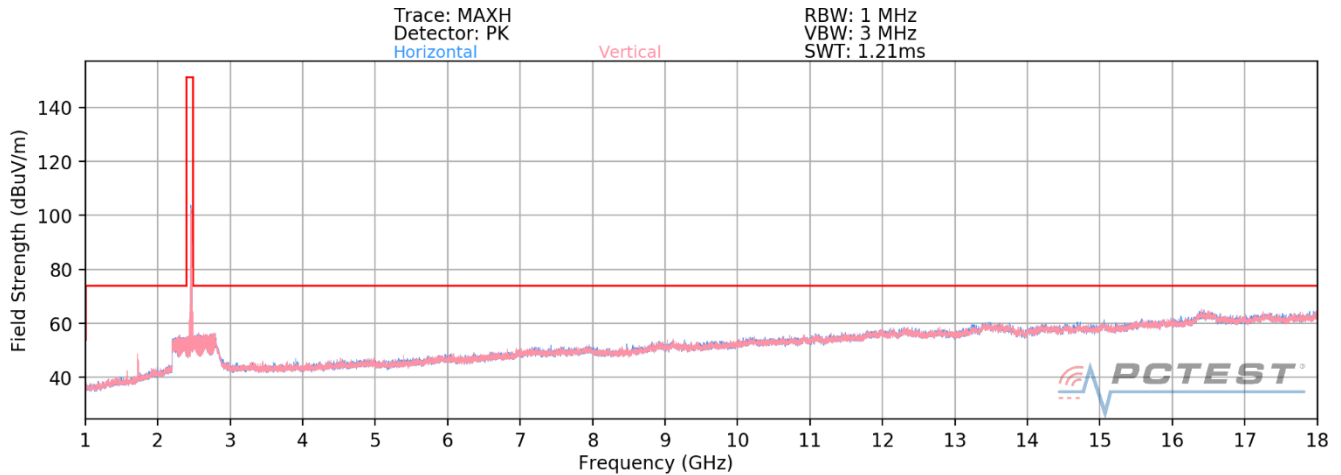
FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 82 of 101



**Plot 7-88. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 1)**



**Plot 7-89. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 6)**

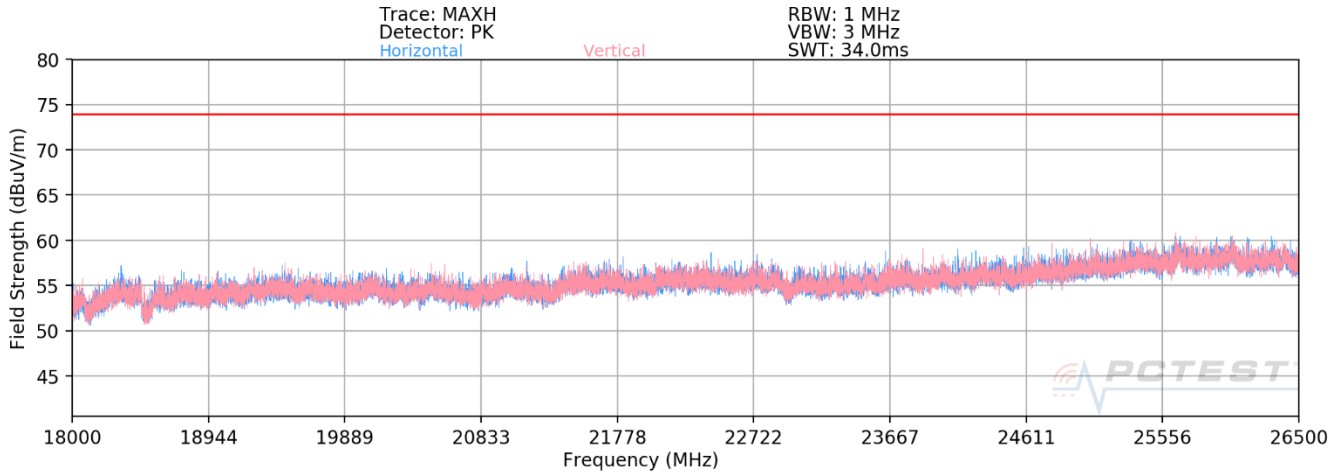


**Plot 7-90. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 11)**

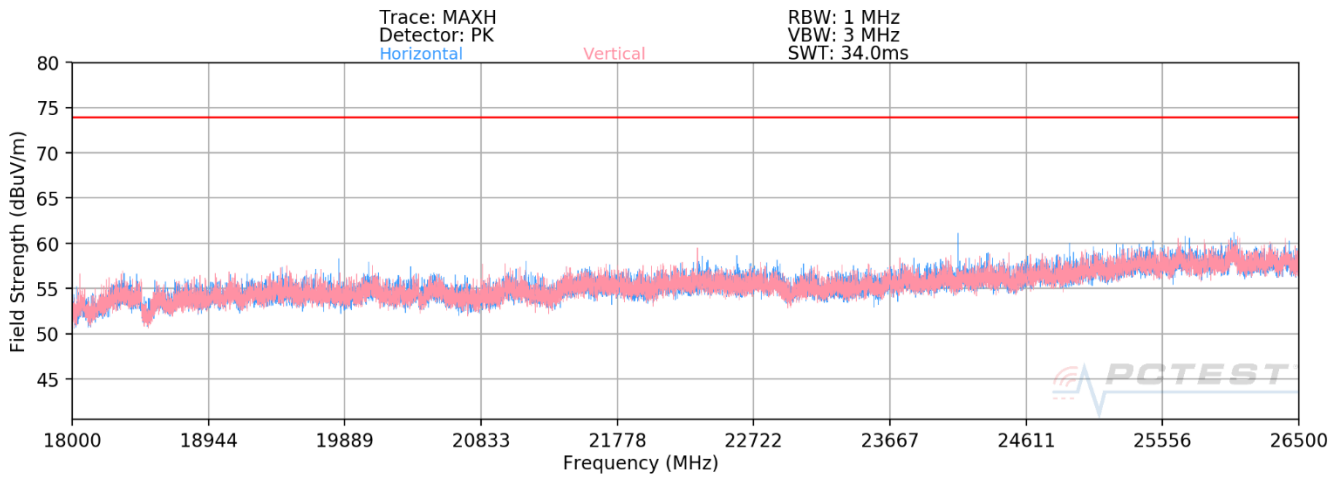
FCC ID: A3LSMG996U		<b>MEASUREMENT REPORT                  (CERTIFICATION)</b>	Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset	Page 83 of 101

## MIMO Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



**Plot 7-91. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 26 Tones)**



**Plot 7-92. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 242 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset	Page 84 of 101



## MIMO Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 53  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 01

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]
4824.00	Avg	V	346	339	-74.66	10.22	42.56	53.98	-11.42
4824.00	Peak	V	346	339	-61.79	10.22	55.43	73.98	-18.55
12060.00	Avg	V	-	-	-80.84	22.02	48.18	53.98	-5.80
12060.00	Peak	V	-	-	-69.38	22.02	59.64	73.98	-14.34

Table 7-32. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 53  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2437MHz  
 Channel: 06

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]
4874.00	Avg	V	338	321	-73.94	10.54	43.60	53.98	-10.38
4874.00	Peak	V	338	321	-59.03	10.54	58.51	73.98	-15.47
7311.00	Avg	V	-	-	-79.19	15.72	43.53	53.98	-10.45
7311.00	Peak	V	-	-	-66.58	15.72	56.14	73.98	-17.84
12185.00	Avg	V	-	-	-80.91	22.55	48.64	53.98	-5.34
12185.00	Peak	V	-	-	-68.91	22.55	60.64	73.98	-13.34

Table 7-33. Radiated Measurements MIMO (106 Tones)

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 85 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 53  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4924.00	Avg	V	330	330	-74.49	10.52	43.03	53.98	-10.95
4924.00	Peak	V	330	330	-61.01	10.52	56.51	73.98	-17.47
7386.00	Avg	V	-	-	-79.82	16.02	43.20	53.98	-10.78
7386.00	Peak	V	-	-	-67.34	16.02	55.68	73.98	-18.30
12310.00	Avg	V	-	-	-80.70	22.77	49.07	53.98	-4.91
12310.00	Peak	V	-	-	-68.92	22.77	60.85	73.98	-13.13

**Table 7-34. Radiated Measurements MIMO (106 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4824.00	Avg	V	144	339	-77.68	10.22	39.54	53.98	-14.44
4824.00	Peak	V	144	339	-64.84	10.22	52.38	73.98	-21.60
12060.00	Avg	V	-	-	-80.77	22.02	48.25	53.98	-5.73
12060.00	Peak	V	-	-	-68.57	22.02	60.45	73.98	-13.53

**Table 7-35. Radiated Measurements MIMO (242 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 86 of 101

Worst Case Mode: 802.11ax OFDMA  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
Distance of Measurements: 3 Meters  
Operating Frequency: 2437MHz  
Channel: 06

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]
4874.00	Avg	V	121	333	-75.75	10.54	41.79	53.98	-12.19
4874.00	Peak	V	121	333	-62.95	10.54	54.59	73.98	-19.39
7311.00	Avg	V	-	-	-79.09	15.72	43.63	53.98	-10.35
7311.00	Peak	V	-	-	-67.10	15.72	55.62	73.98	-18.36
12185.00	Avg	V	-	-	-80.98	22.55	48.57	53.98	-5.41
12185.00	Peak	V	-	-	-68.62	22.55	60.93	73.98	-13.05

**Table 7-36. Radiated Measurements MIMO (242 Tones)**

Worst Case Mode: 802.11ax OFDMA  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
Distance of Measurements: 3 Meters  
Operating Frequency: 2462MHz  
Channel: 11

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]
4924.00	Avg	V	-	-	-78.53	10.52	38.99	53.98	-14.99
4924.00	Peak	V	-	-	-66.48	10.52	51.04	73.98	-22.94
7386.00	Avg	V	-	-	-79.72	16.02	43.30	53.98	-10.68
7386.00	Peak	V	-	-	-68.00	16.02	55.02	73.98	-18.96
12310.00	Avg	V	-	-	-80.76	22.77	49.01	53.98	-4.97
12310.00	Peak	V	-	-	-68.91	22.77	60.86	73.98	-13.12

**Table 7-37. Radiated Measurements MIMO (242 Tones)**

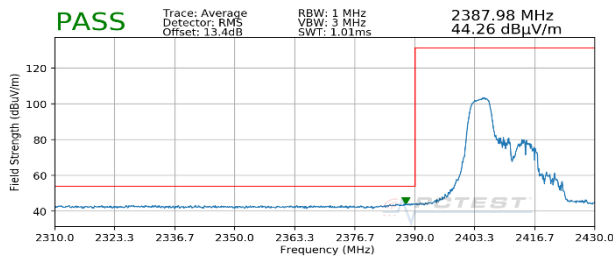
FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 87 of 101

## 7.7.4 SISO Antenna-1 Radiated Restricted Band Edge Measurements

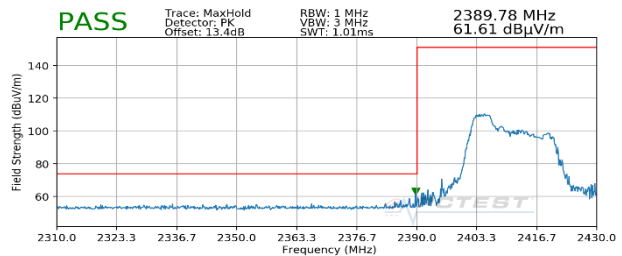
§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

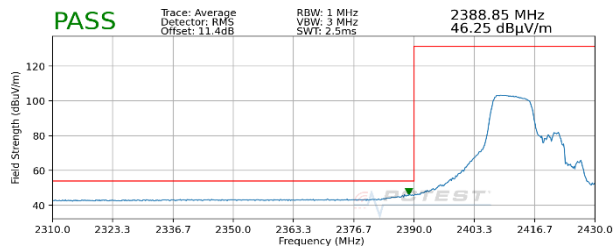


**Plot 7-93. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 106 Tones)**

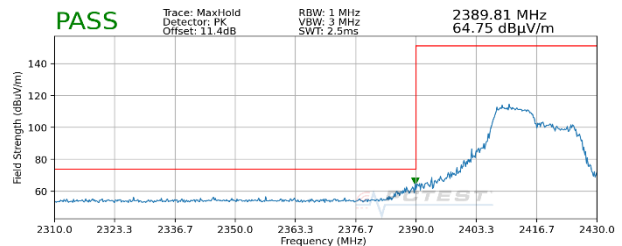


**Plot 7-94. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 106 Tones)**

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



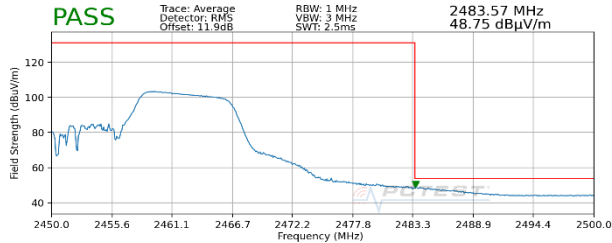
**Plot 7-95. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 106 Tones)**



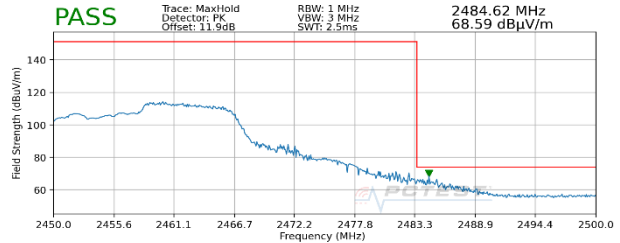
**Plot 7-96. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 106 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 88 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

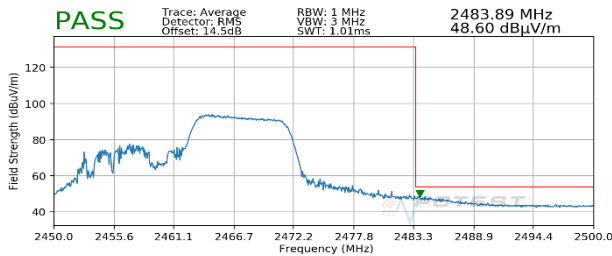


**Plot 7-97. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average – 106 Tones)**

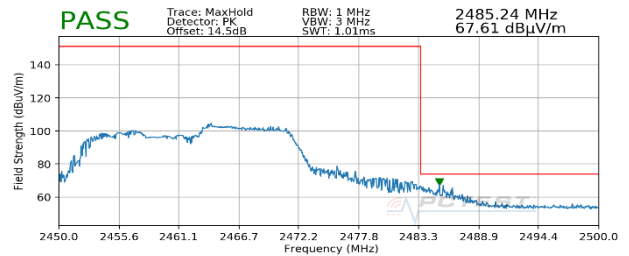


**Plot 7-98. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak – 106 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11



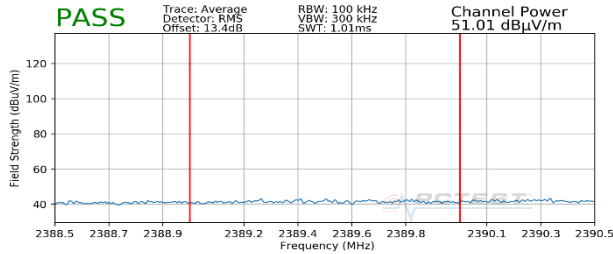
**Plot 7-99. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average – 106 Tones)**



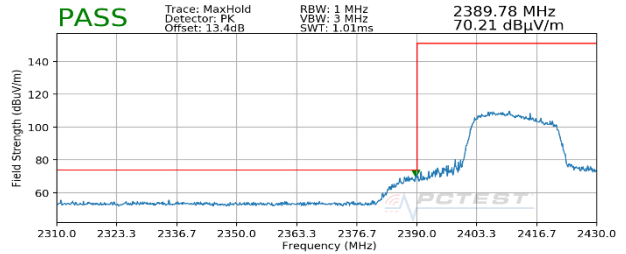
**Plot 7-100. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak – 106 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 89 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1

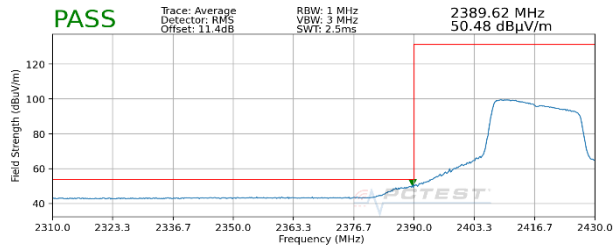


**Plot 7-101. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 242 Tones)**

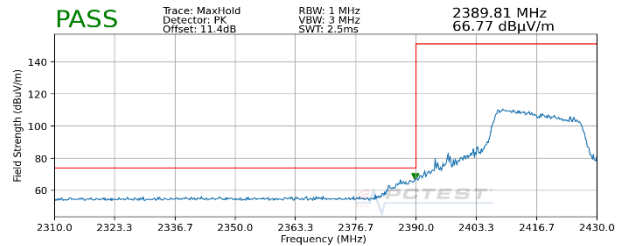


**Plot 7-102. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 242 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2417MHz  
 Channel: 2



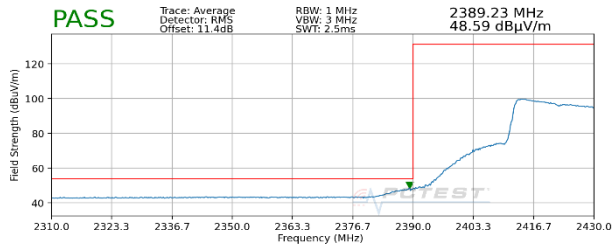
**Plot 7-103. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 242 Tones)**



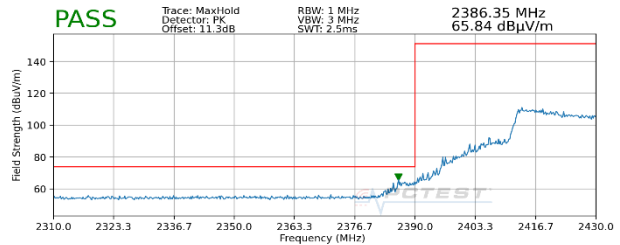
**Plot 7-104. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 242 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 90 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2422MHz  
 Channel: 3

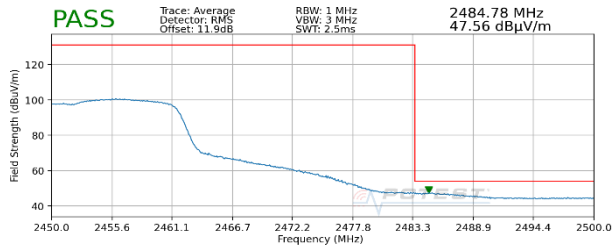


**Plot 7-105. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 242 Tones)**

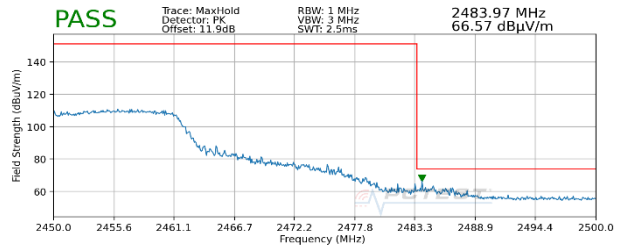


**Plot 7-106. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 242 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2452MHz  
 Channel: 9



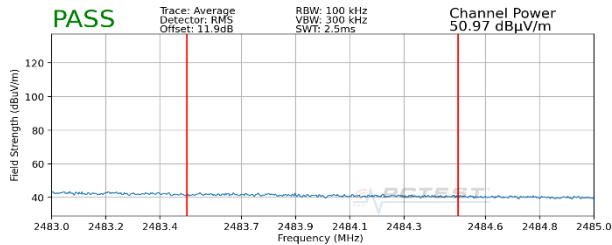
**Plot 7-107. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average – 242 Tones)**



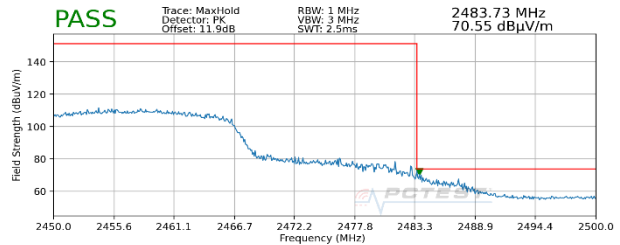
**Plot 7-108. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak – 242 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 91 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

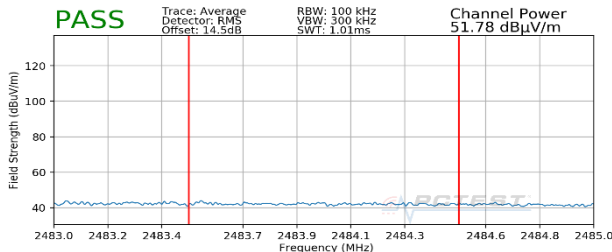


**Plot 7-109. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average – 242 Tones)**

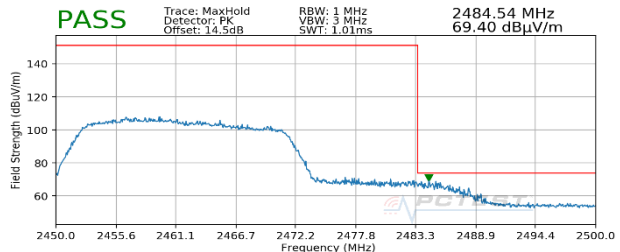


**Plot 7-110. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak – 242 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11



**Plot 7-111. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average – 242 Tones)**



**Plot 7-112. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak – 242 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 92 of 101

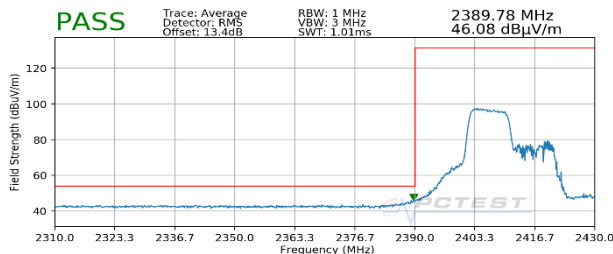


## 7.7.5 SISO Antenna-2 Radiated Restricted Band Edge Measurements

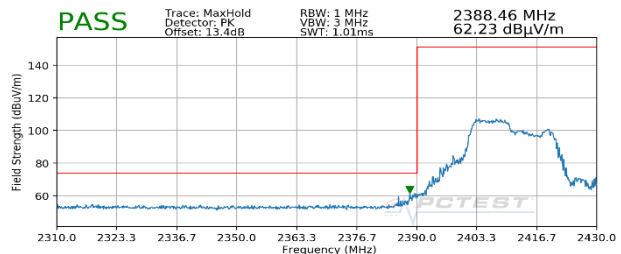
§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

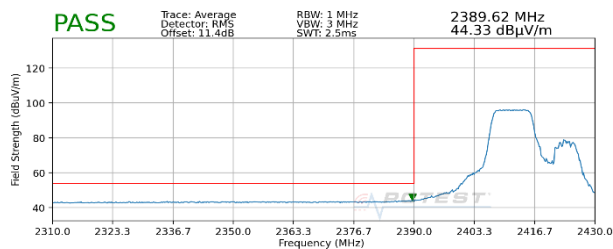


**Plot 7-113. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 106 Tones)**

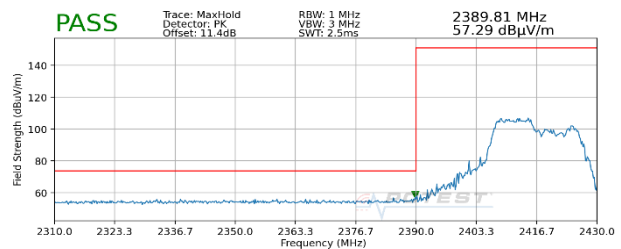


**Plot 7-114. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 106 Tones)**

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



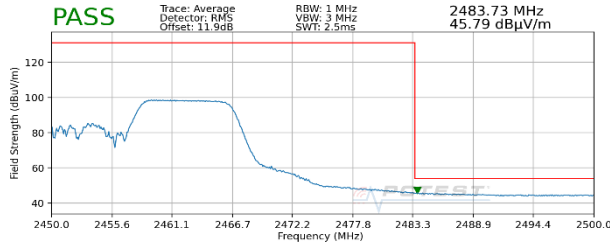
**Plot 7-115. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 106 Tones)**



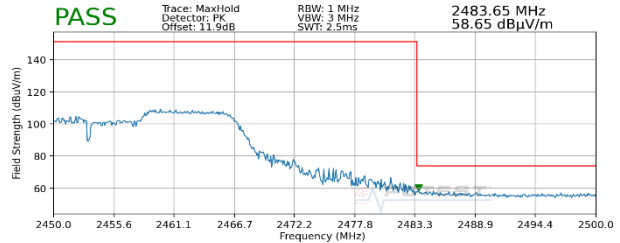
**Plot 7-116. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 106 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 93 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

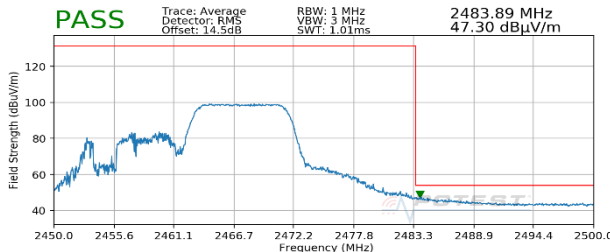


**Plot 7-117. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones)**

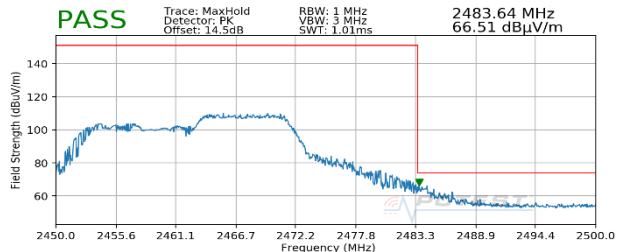


**Plot 7-118. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11



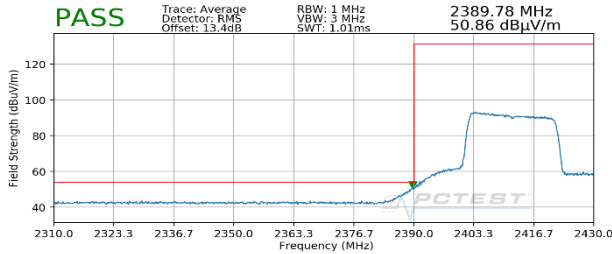
**Plot 7-119. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones)**



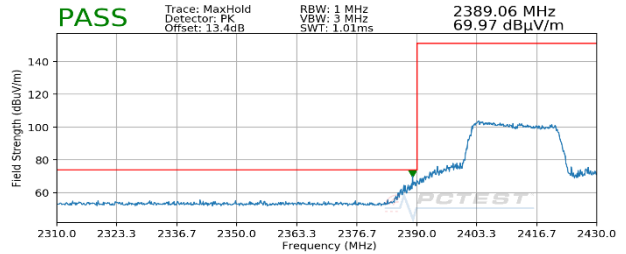
**Plot 7-120. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 94 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1

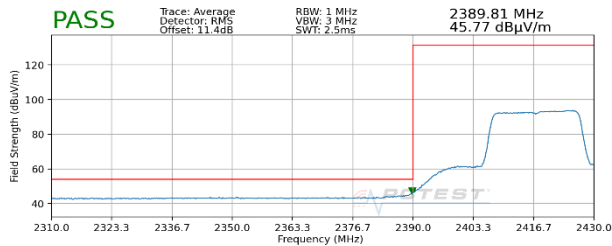


**Plot 7-121. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 242 Tones)**

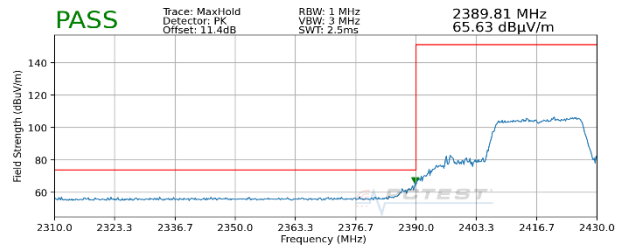


**Plot 7-122. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 242 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2417MHz  
 Channel: 2



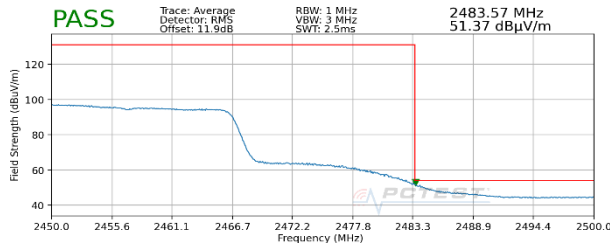
**Plot 7-123. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 242 Tones)**



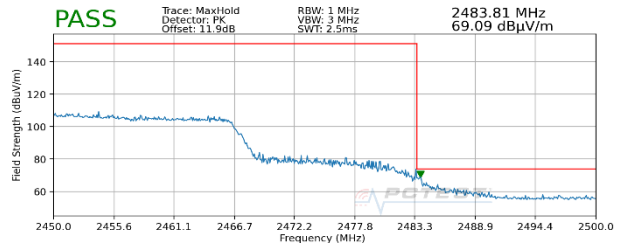
**Plot 7-124. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 242 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

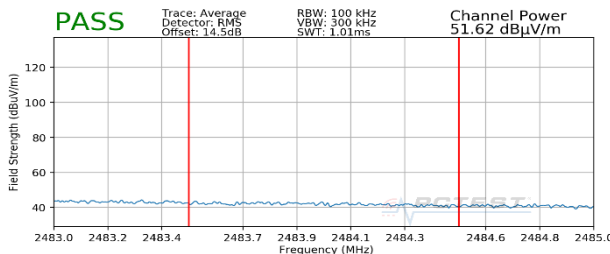


**Plot 7-125. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones)**

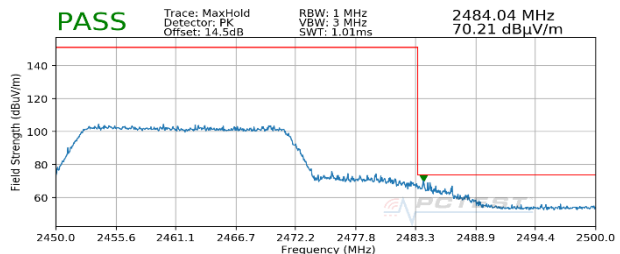


**Plot 7-126. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11



**Plot 7-127. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones)**



**Plot 7-128. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones)**

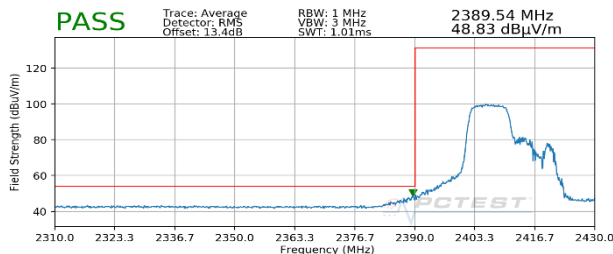
FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 96 of 101

## 7.7.6 MIMO Radiated Restricted Band Edge Measurements

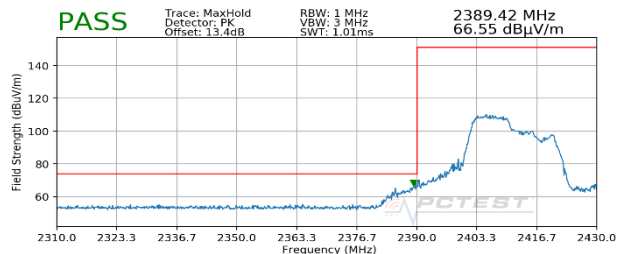
§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

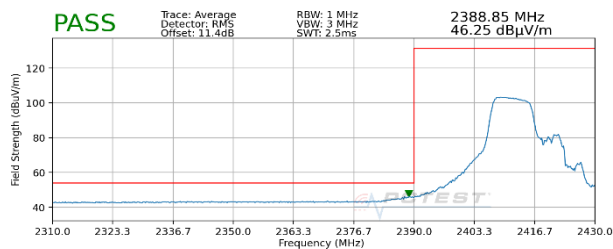


**Plot 7-129. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106 Tones)**

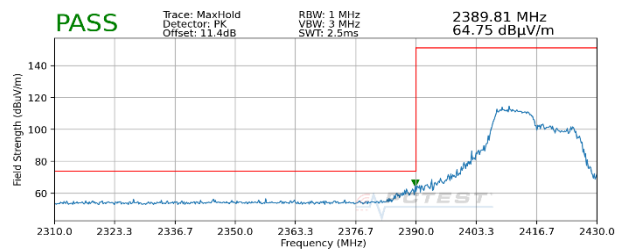


**Plot 7-130. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106 Tones)**

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2417MHz
Channel:	2



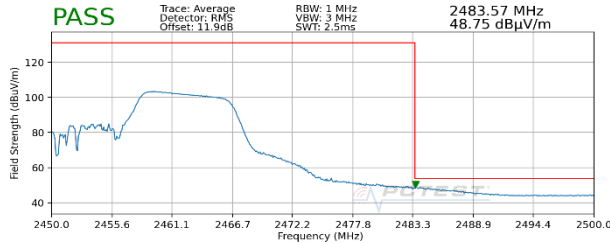
**Plot 7-131. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106 Tones)**



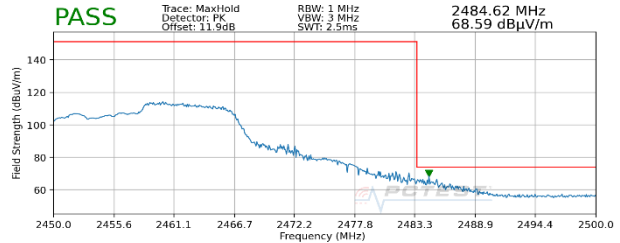
**Plot 7-132. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 97 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

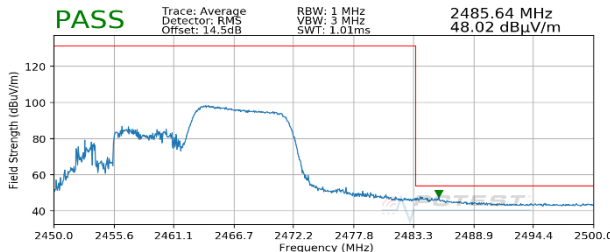


**Plot 7-133. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)**

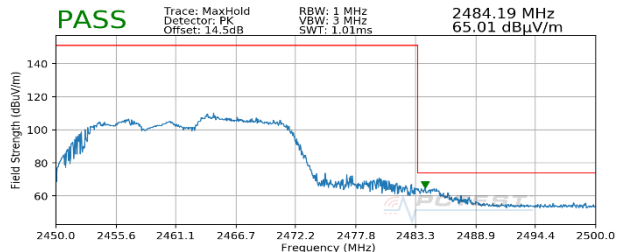


**Plot 7-134. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 54  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11



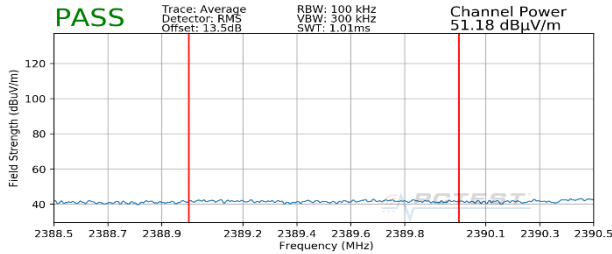
**Plot 7-135. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)**



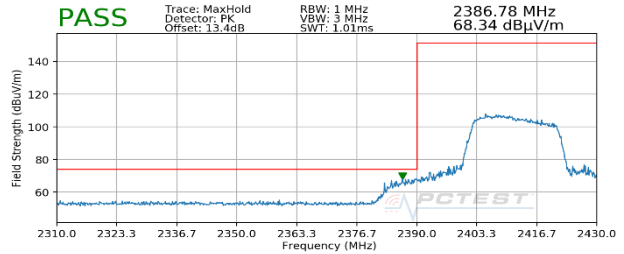
**Plot 7-136. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 98 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1

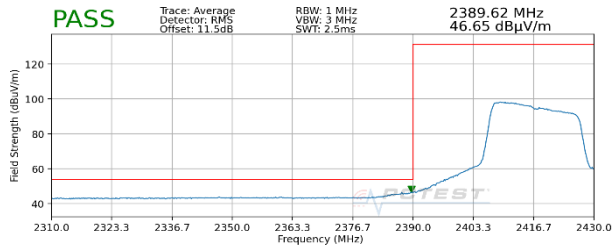


**Plot 7-137. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones)**

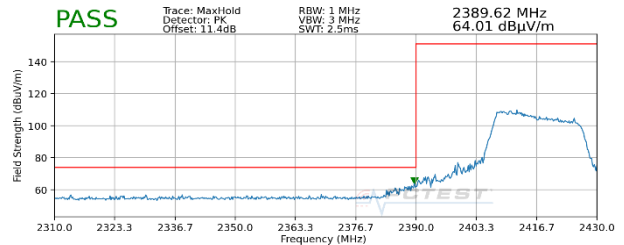


**Plot 7-138. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2417MHz  
 Channel: 2



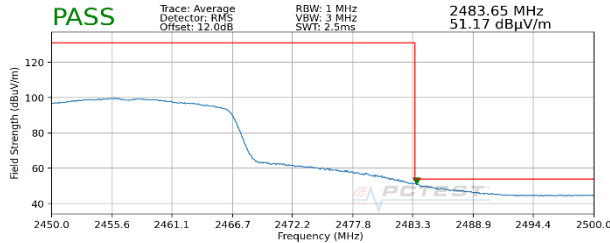
**Plot 7-139. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones)**



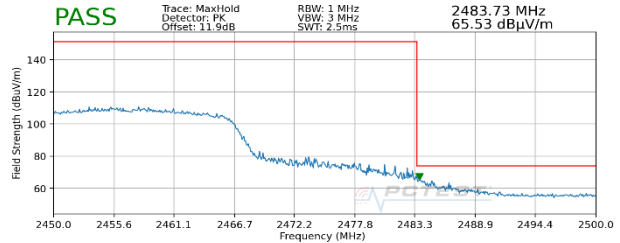
**Plot 7-140. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 99 of 101

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10

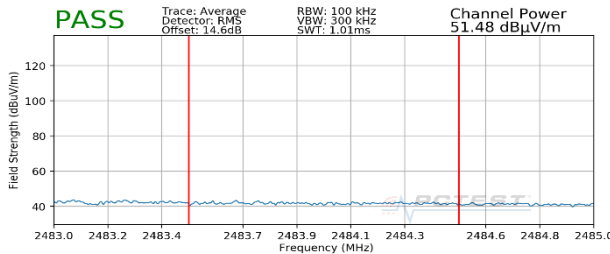


**Plot 7-141. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)**

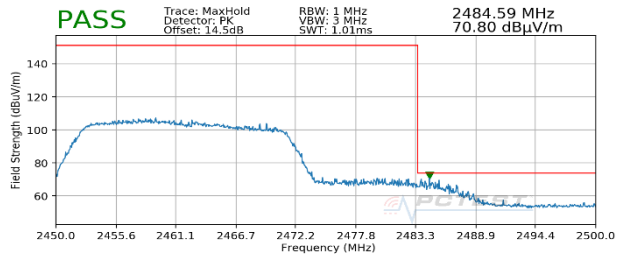


**Plot 7-142. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11



**Plot 7-143. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)**



**Plot 7-144. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)**

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-08.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 100 of 101



## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMG996U** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

<b>FCC ID:</b> A3LSMG996U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	 <b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M2009140143-08.A3L	<b>Test Dates:</b> 09/15 - 11/10/2020	<b>EUT Type:</b> Portable Handset	Page 101 of 101