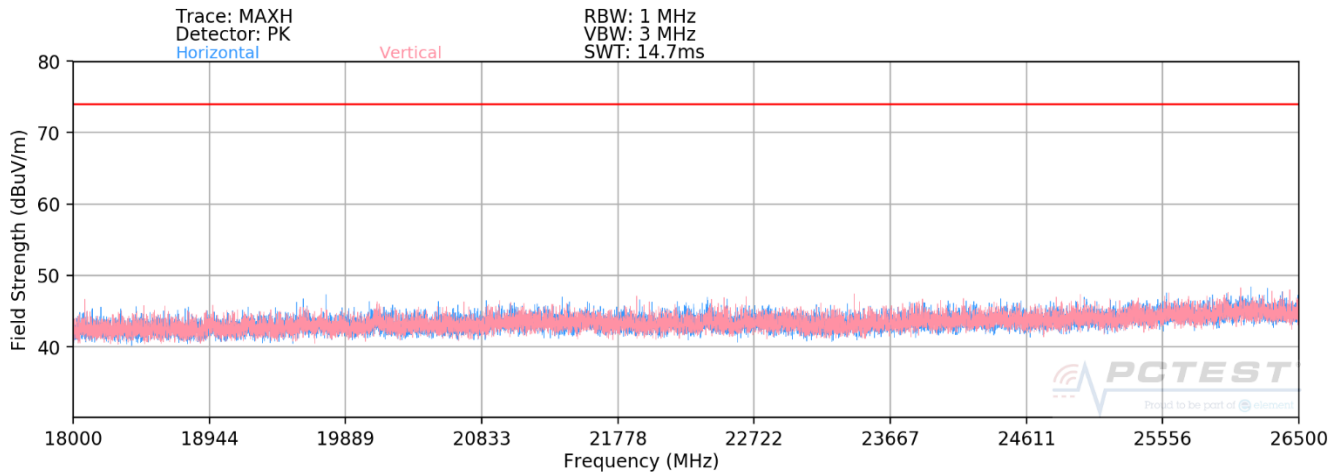
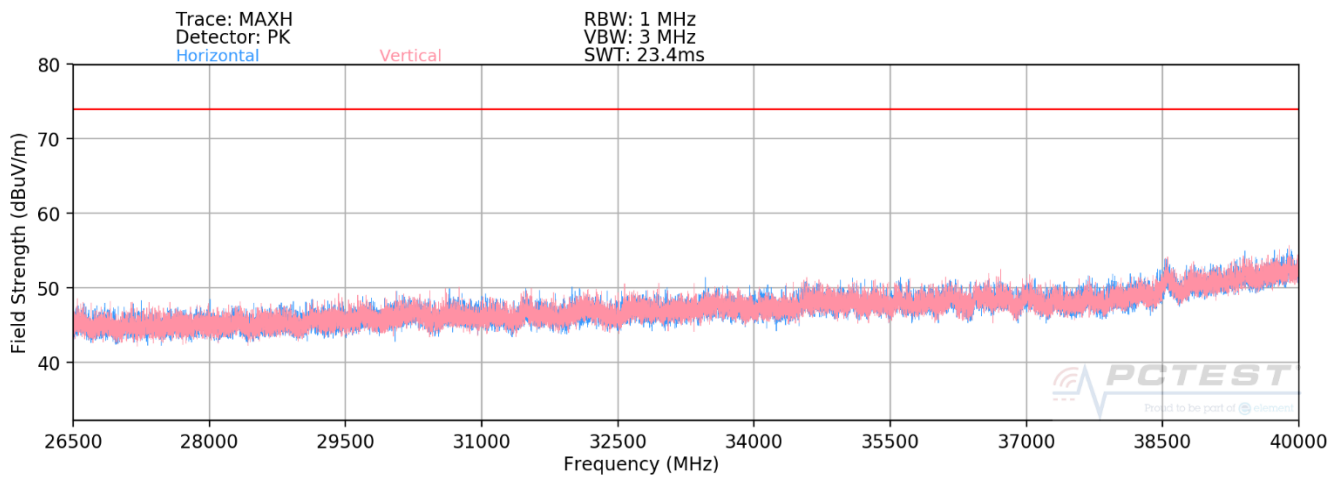


MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-305. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 242 Tones)



Plot 7-306. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 242 Tones)

FCC ID: A3LSMS901U	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 264 of 309

MIMO Radiated Spurious Emission Measurements (242 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

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]
10360.00	Peak	H	170	336	-64.21	12.16	0.00	54.95	68.20	-13.25
* 15540.00	Average	H	-	-	-82.01	16.69	0.00	41.68	53.98	-12.30
* 15540.00	Peak	H	-	-	-70.26	16.69	0.00	53.43	73.98	-20.55
* 20720.00	Average	H	-	-	-66.93	4.37	-9.54	34.90	53.98	-19.08
* 20720.00	Peak	H	-	-	-59.29	4.37	-9.54	42.54	73.98	-31.44
25900.00	Peak	H	-	-	-55.70	5.87	-9.54	47.63	68.20	-20.57

Table 7-156. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

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]
10400.00	Peak	H	123	294	-63.66	11.75	0.00	55.09	68.20	-13.11
* 15600.00	Average	H	-	-	-82.54	17.47	0.00	41.93	53.98	-12.05
* 15600.00	Peak	H	-	-	-70.28	17.47	0.00	54.19	73.98	-19.79
* 20800.00	Average	H	-	-	-66.79	4.47	-9.54	35.14	53.98	-18.84
* 20800.00	Peak	H	-	-	-59.58	4.47	-9.54	42.35	73.98	-31.63
26000.00	Peak	H	-	-	-58.97	6.04	-9.54	44.52	68.20	-23.68

Table 7-157. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 265 of 309

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5240MHz
Channel: 48

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]
10480.00	Peak	H	335	280	-63.08	12.40	0.00	56.32	68.20	-11.88
* 15720.00	Average	H	-	-	-82.84	17.59	0.00	41.75	53.98	-12.23
* 15720.00	Peak	H	-	-	-70.53	17.59	0.00	54.06	73.98	-19.92
* 20960.00	Average	H	-	-	-66.98	4.65	-9.54	35.13	53.98	-18.85
* 20960.00	Peak	H	-	-	-58.53	4.65	-9.54	43.58	73.98	-30.40
26200.00	Peak	H	-	-	-58.39	5.76	-9.54	44.83	68.20	-23.37

Table 7-158. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

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]
10520.00	Peak	H	162	332	-63.19	12.54	0.00	56.35	68.20	-11.85
* 15780.00	Average	H	-	-	-82.91	17.26	0.00	41.35	53.98	-12.63
* 15780.00	Peak	H	-	-	-70.94	17.26	0.00	53.32	73.98	-20.66
* 21040.00	Average	H	-	-	-66.71	4.68	-9.54	35.43	53.98	-18.55
* 21040.00	Peak	H	-	-	-58.24	4.68	-9.54	43.90	73.98	-30.08
26300.00	Peak	H	-	-	-58.13	5.68	-9.54	45.00	68.20	-23.20

Table 7-159. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 266 of 309

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

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]
10560.00	Peak	H	116	332	-63.07	12.54	0.00	56.47	68.20	-11.73
* 15840.00	Average	H	-	-	-82.99	17.42	0.00	41.43	53.98	-12.54
* 15840.00	Peak	H	-	-	-71.02	17.42	0.00	53.40	73.98	-20.57
* 21120.00	Average	H	-	-	-66.80	4.78	-9.54	35.44	53.98	-18.54
* 21120.00	Peak	H	-	-	-58.63	4.78	-9.54	43.60	73.98	-30.38
26400.00	Peak	H	-	-	-58.18	5.75	-9.54	45.02	68.20	-23.18

Table 7-160. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

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]
* 10640.00	Average	H	170	327	-76.04	12.65	0.00	43.61	53.98	-10.37
* 10640.00	Peak	H	170	327	-62.93	12.65	0.00	56.72	73.98	-17.26
* 15960.00	Average	H	-	-	-83.35	18.41	0.00	42.06	53.98	-11.92
* 15960.00	Peak	H	-	-	-71.44	18.41	0.00	53.97	73.98	-20.01
* 21280.00	Average	H	-	-	-67.05	4.92	-9.54	35.33	53.98	-18.65
* 21280.00	Peak	H	-	-	-58.97	4.92	-9.54	43.41	73.98	-30.57
26600.00	Peak	H	-	-	-57.52	5.78	-9.54	45.72	68.20	-22.48

Table 7-161. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 267 of 309

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

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]
* 11000.00	Average	H	237	331	-74.37	12.80	0.00	45.43	53.98	-8.55
* 11000.00	Peak	H	237	331	-62.30	12.80	0.00	57.50	73.98	-16.48
16500.00	Peak	H	-	-	-70.43	18.36	0.00	54.93	68.20	-13.27
22000.00	Peak	H	-	-	-59.68	4.80	-9.54	42.58	68.20	-25.62
27500.00	Peak	H	-	-	-57.41	5.93	-9.54	45.97	68.20	-22.23

Table 7-162. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

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]
* 11200.00	Average	H	193	332	-73.42	12.90	0.00	46.48	53.98	-7.50
* 11200.00	Peak	H	193	332	-61.70	12.90	0.00	58.20	73.98	-15.78
16800.00	Peak	H	-	-	-70.46	18.52	0.00	55.06	68.20	-13.14
* 22400.00	Average	H	-	-	-66.07	4.84	-9.54	36.22	53.98	-17.76
* 22400.00	Peak	H	-	-	-56.75	4.84	-9.54	45.54	73.98	-28.44
28000.00	Peak	H	-	-	-56.99	6.12	-9.54	46.58	68.20	-21.62

Table 7-163. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 268 of 309

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5720MHz
Channel: 144

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]
* 11440.00	Average	H	150	326	-74.35	12.86	0.00	45.51	53.98	-8.47
* 11440.00	Peak	H	150	326	-63.13	12.86	0.00	56.73	73.98	-17.25
17160.00	Peak	H	-	-	-70.09	18.02	0.00	54.93	68.20	-13.27
* 22880.00	Average	H	-	-	-66.62	4.77	-9.54	35.61	53.98	-18.37
* 22880.00	Peak	H	-	-	-60.04	4.77	-9.54	42.19	73.98	-31.79
28600.00	Peak	H	-	-	-59.34	6.32	-9.54	44.43	68.20	-23.77

Table 7-164. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
Worst Case Transfer Rate: MCS0
RU Index: 61
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5745MHz
Channel: 149

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]
* 11490.00	Average	H	242	326	-75.50	13.58	0.00	45.08	53.98	-8.90
* 11490.00	Peak	H	242	326	-63.84	13.58	0.00	56.74	73.98	-17.24
17235.00	Peak	H	-	-	-69.77	17.76	0.00	54.99	68.20	-13.21
* 22980.00	Average	H	-	-	-66.57	4.67	-9.54	35.56	53.98	-18.42
* 22980.00	Peak	H	-	-	-58.56	4.67	-9.54	43.57	73.98	-30.41
28725.00	Peak	H	-	-	-58.23	6.42	-9.54	45.64	68.20	-22.56

Table 7-165. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 269 of 309

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

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]
* 11570.00	Average	H	183	328	-75.99	13.03	0.00	44.04	53.98	-9.94
* 11570.00	Peak	H	183	328	-64.43	13.03	0.00	55.60	73.98	-18.38
17355.00	Peak	H	-	-	-70.56	18.72	0.00	55.16	68.20	-13.04
23140.00	Peak	H	-	-	-58.44	4.61	-9.54	43.62	68.20	-24.58
28925.00	Peak	H	-	-	-58.46	6.50	-9.54	45.49	68.20	-22.71

Table 7-166. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

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]
* 11650.00	Average	H	175	332	-76.57	13.65	0.00	44.08	53.98	-9.90
* 11650.00	Peak	H	175	332	-64.42	13.65	0.00	56.23	73.98	-17.75
17475.00	Peak	H	-	-	-70.02	17.76	0.00	54.74	68.20	-13.46
23300.00	Peak	H	-	-	-59.55	4.72	-9.54	42.63	68.20	-25.57
29125.00	Peak	H	-	-	-59.21	6.86	-9.54	45.10	68.20	-23.10

Table 7-167. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset	Page 270 of 309	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169

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]
* 11690.00	Average	H	143	326	-78.92	14.34	0.00	42.42	53.98	-11.55
* 11690.00	Peak	H	143	326	-66.95	14.34	0.00	54.39	73.98	-19.58
17535.00	Peak	H	-	-	-69.90	18.43	0.00	55.53	68.20	-12.67
23380.00	Peak	H	-	-	-55.37	4.67	-9.54	46.76	68.20	-21.44
29225.00	Peak	H	-	-	-55.67	6.67	-9.54	48.46	68.20	-19.74
35070.00	Peak	H	-	-	-54.61	8.56	-9.54	51.41	68.20	-16.79

Table 7-168. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5865MHz
 Channel: 173

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]
* 11730.00	Average	H	170	324	-78.74	13.97	0.00	42.23	53.98	-11.75
* 11730.00	Peak	H	170	324	-67.36	13.97	0.00	53.61	73.98	-20.37
17595.00	Peak	H	-	-	-70.37	18.25	0.00	54.88	68.20	-13.32
23460.00	Peak	H	-	-	-55.76	4.62	-9.54	55.86	68.20	-12.34
29325.00	Peak	H	-	-	-55.99	6.99	-9.54	58.00	68.20	-10.20
35190.00	Peak	H	-	-	-54.42	8.73	-9.54	61.31	68.20	-6.89

Table 7-169. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 271 of 309

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177

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]
* 11770.00	Average	H	150	328	-78.67	14.09	0.00	42.42	53.98	-11.56
* 11770.00	Peak	H	150	328	-66.34	14.09	0.00	54.75	73.98	-19.23
17655.00	Peak	H	-	-	-70.31	18.05	0.00	54.74	68.20	-13.46
23540.00	Peak	H	-	-	-55.07	4.71	-9.54	56.64	68.20	-11.56
29425.00	Peak	H	-	-	-55.91	7.01	-9.54	58.10	68.20	-10.10
35310.00	Peak	H	-	-	-55.33	8.79	-9.54	60.46	68.20	-7.74

Table 7-170. Radiated Measurements MIMO (242 Tones)

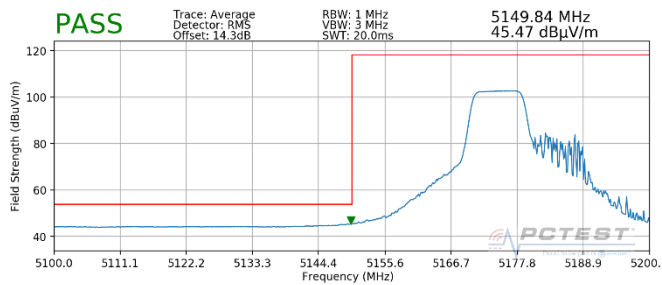
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 272 of 309

7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW)

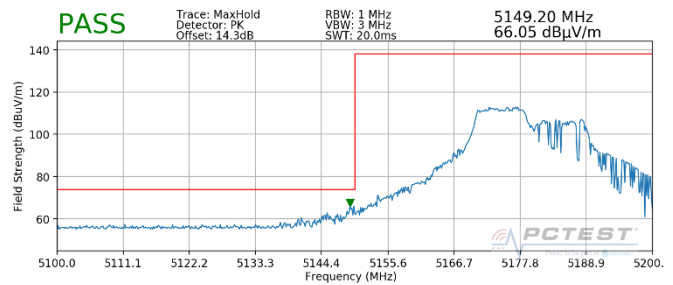
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

106 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

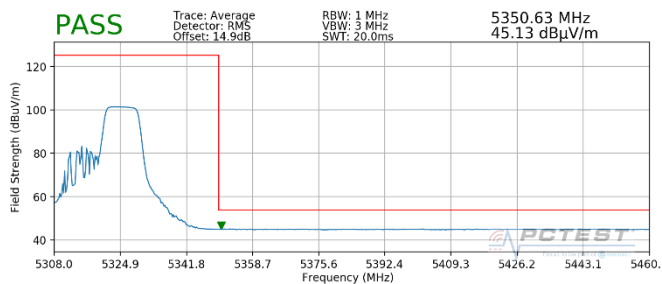


Plot 7-307. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 106 Tones)

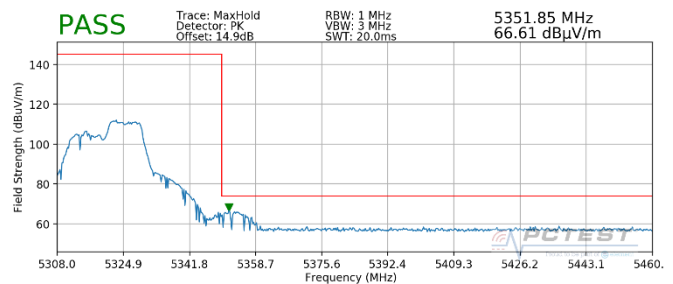


Plot 7-308. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 106 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



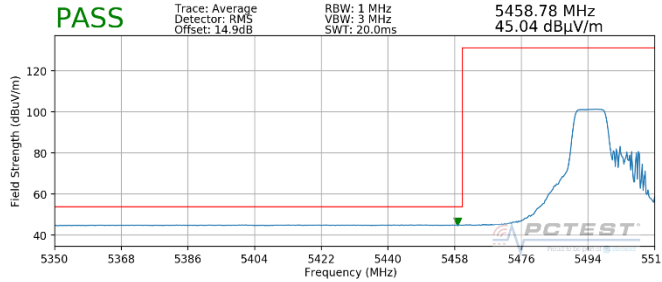
Plot 7-309. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 106 Tones)



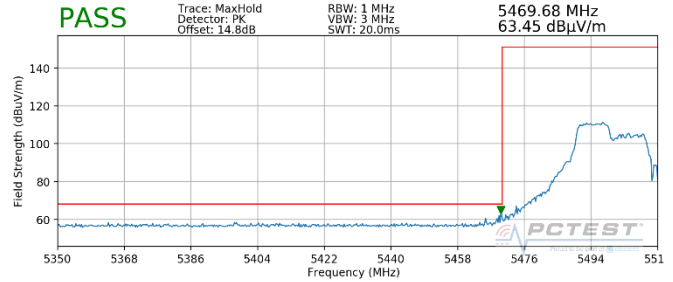
Plot 7-310. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 106 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

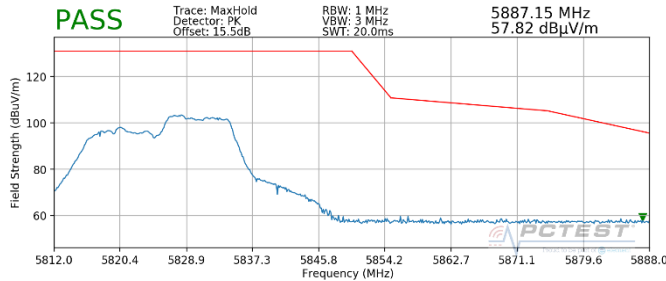


Plot 7-311. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 106 Tones)



Plot 7-312. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 106 Tones)

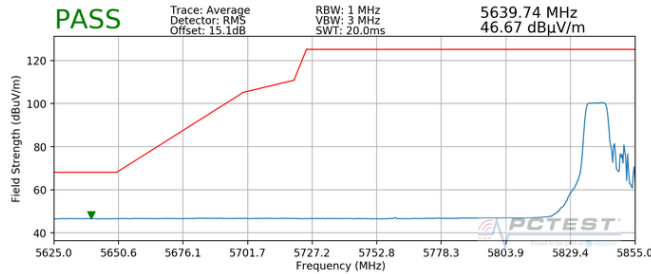
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



Plot 7-313. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 106 Tones)

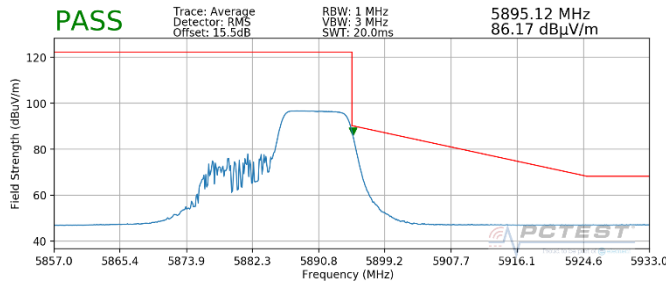
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 274 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169



**Plot 7-314. Radiated Lower Band Edge Plot SISO
 ANT1 (Average – UNII Band 4 – 106 Tones)**

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177

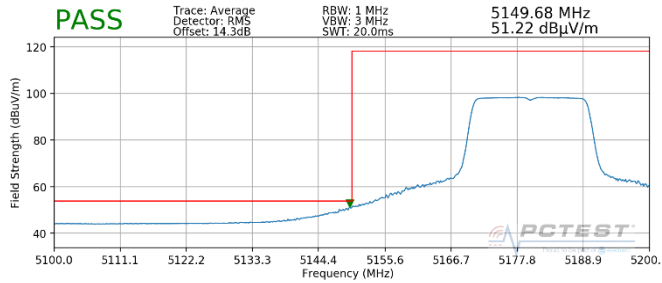


**Plot 7-315. Radiated Upper Band Edge Plot SISO
 ANT1 (Average – UNII Band 4 – 106 Tones)**

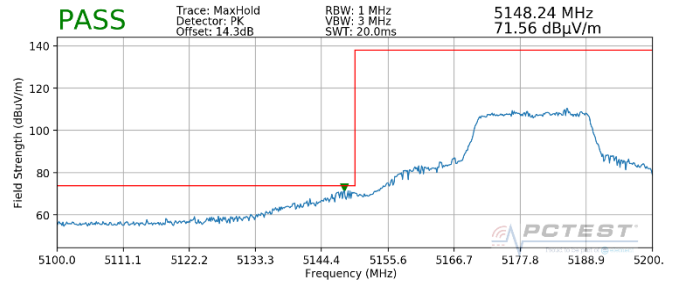
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset	Page 275 of 309	

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

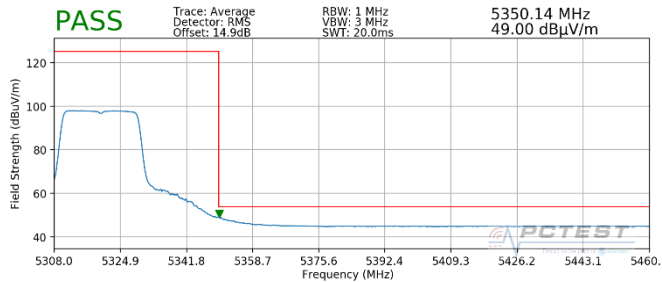


Plot 7-316. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 242 Tones)

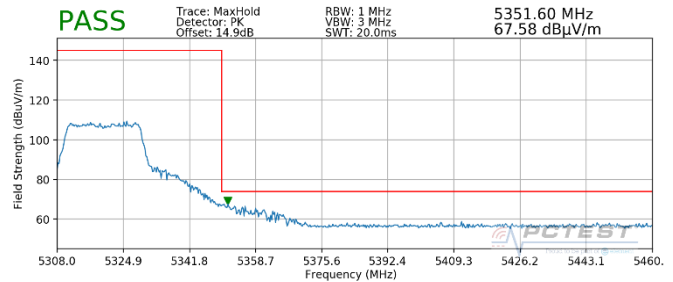


Plot 7-317. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



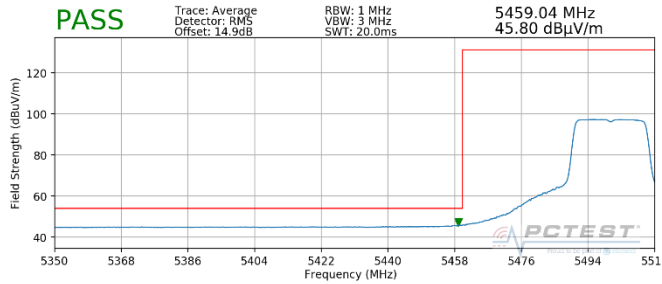
Plot 7-318. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 242 Tones)



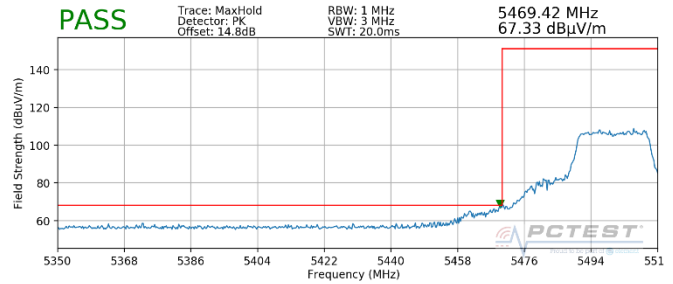
Plot 7-319. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 276 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

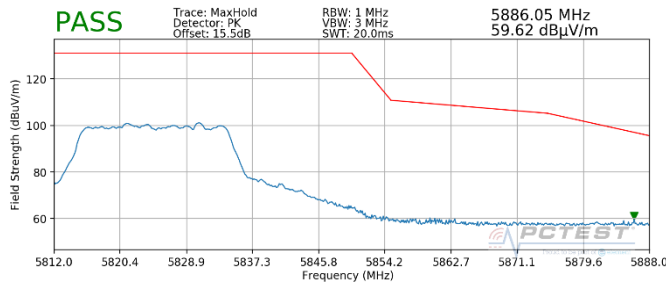


Plot 7-320. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 242 Tones)




Plot 7-321. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 242 Tones)

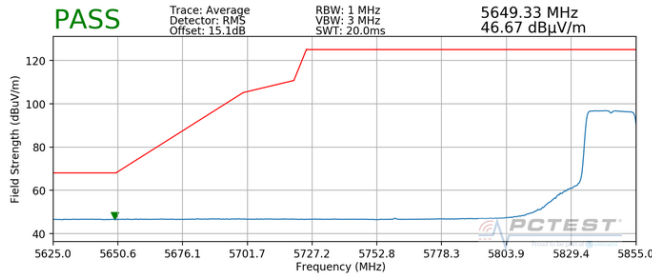
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



Plot 7-322. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 242 Tones)

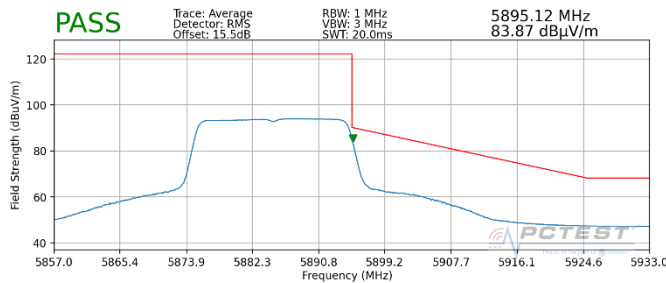
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 277 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169



**Plot 7-323. Radiated Lower Band Edge Plot SISO
ANT1 (Average – UNII Band 4 – 242 Tones)**

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177



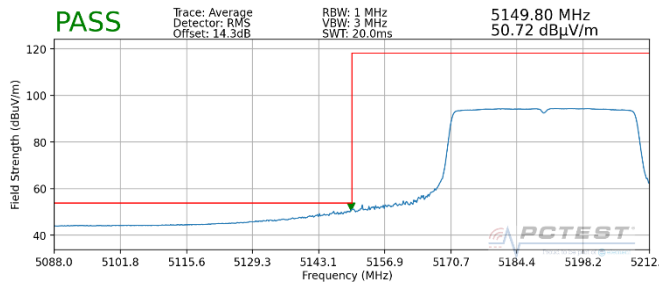
**Plot 7-324. Radiated Upper Band Edge Plot SISO
ANT1 (Average – UNII Band 4 – 242 Tones)**

FCC ID: A3LSMS901U	 <p>PCTEST® Proud to be part of element</p>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset	Page 278 of 309	

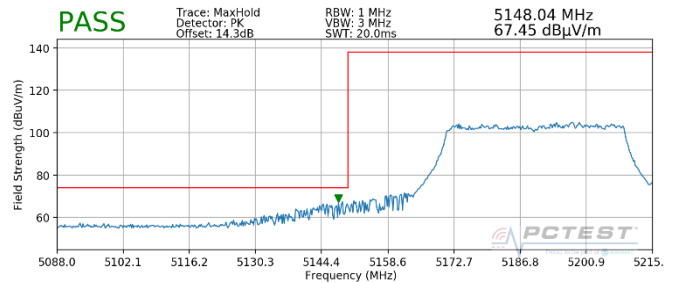
7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

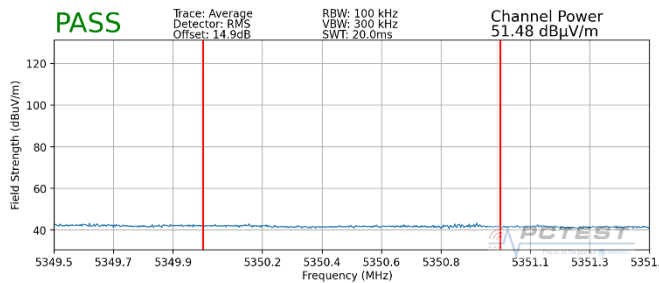


Plot 7-325. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 484 Tones)

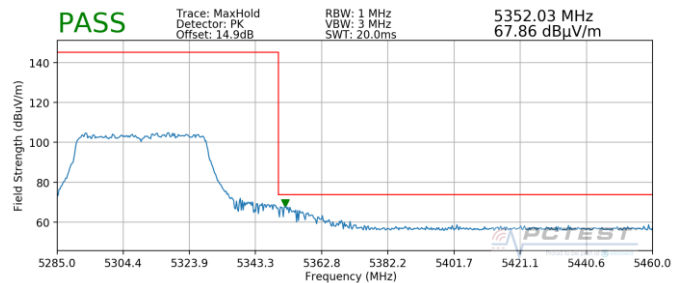


Plot 7-326. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



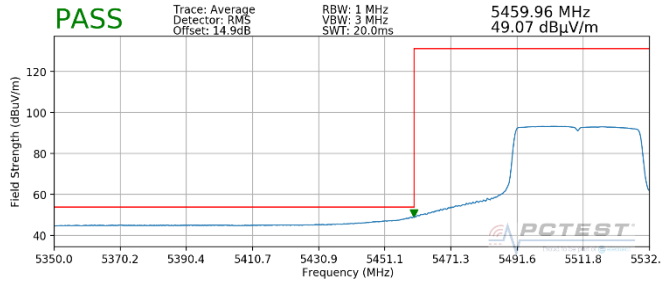
Plot 7-327. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 484 Tones)



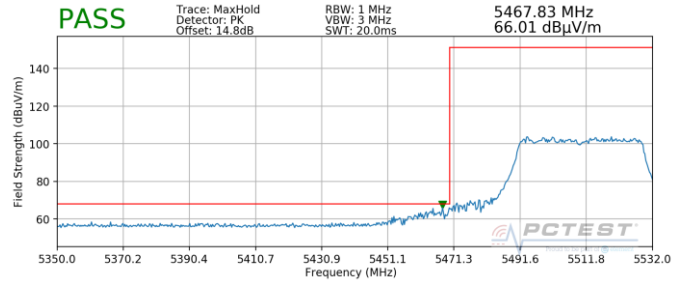
Plot 7-328. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 279 of 309

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

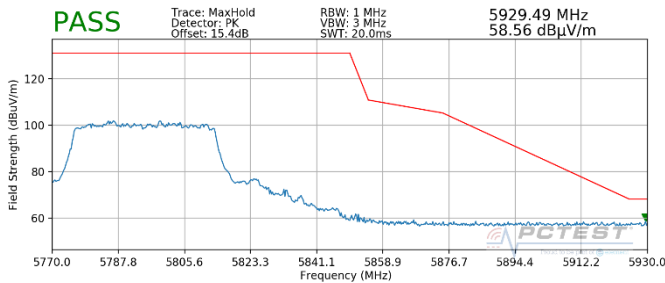


Plot 7-329. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 484 Tones)



Plot 7-330. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 484 Tones)

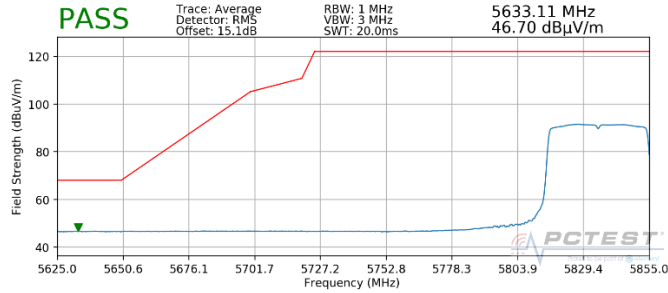
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



Plot 7-331. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 484 Tones)

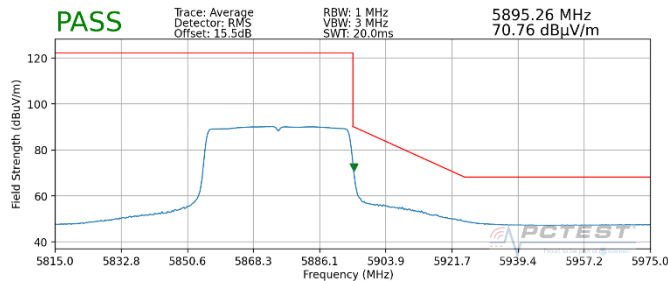
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 280 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5835MHz
 Channel: 167




Plot 7-332. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 4 - 484 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5875MHz
 Channel: 175



Plot 7-333. Radiated Upper Band Edge Plot SISO ANT1 (Average - UNII Band 4 - 484 Tones)

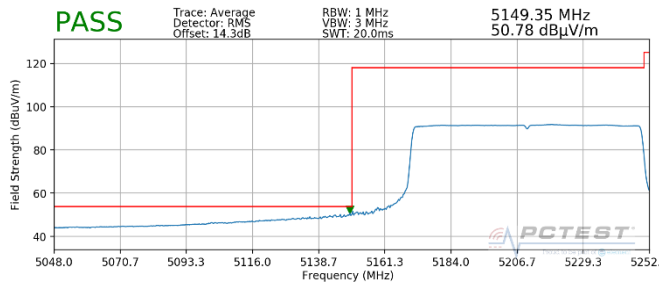
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 281 of 309

7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW)

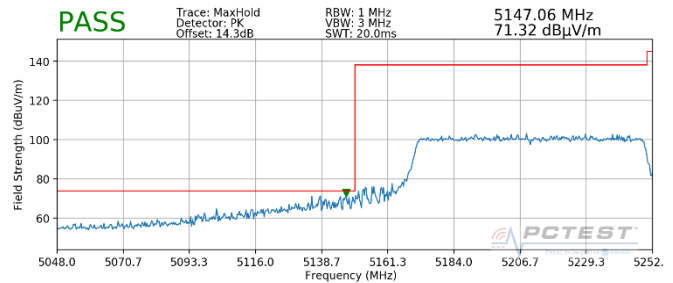
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

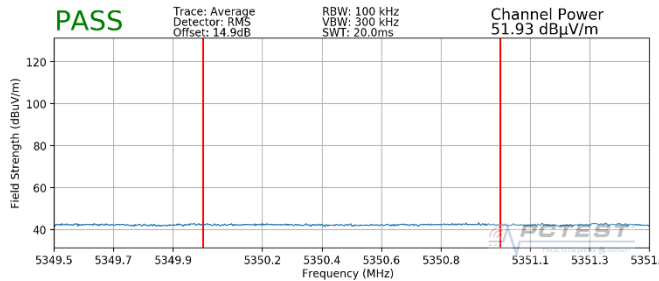


Plot 7-334. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 996 Tones)

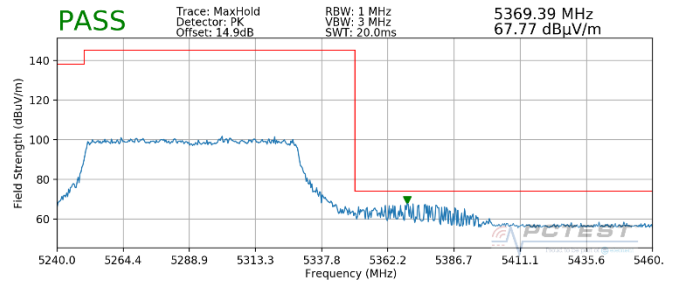


Plot 7-335. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



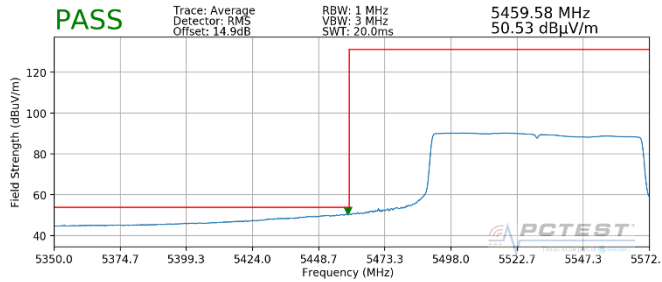
Plot 7-336. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 996 Tones)



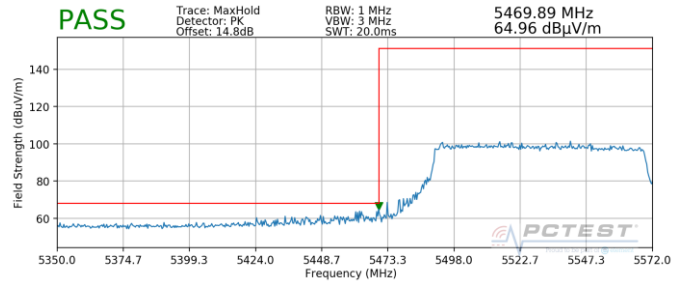
Plot 7-337. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 282 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

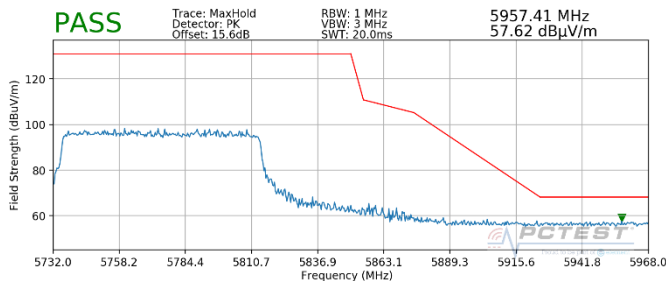


Plot 7-338. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 996 Tones)



Plot 7-339. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 996 Tones)

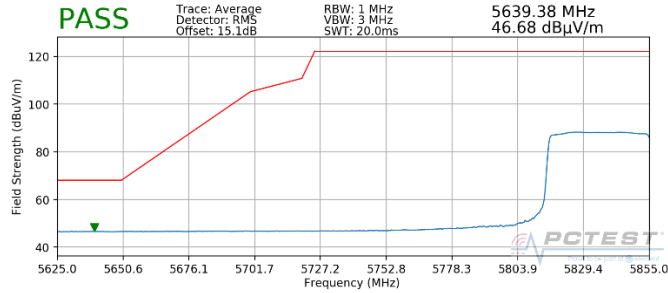
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Plot 7-340. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 996 Tones)

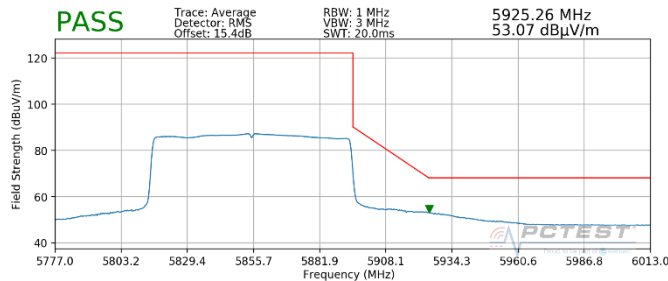
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



Plot 7-341. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 996 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



Plot 7-342. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 996 Tones)

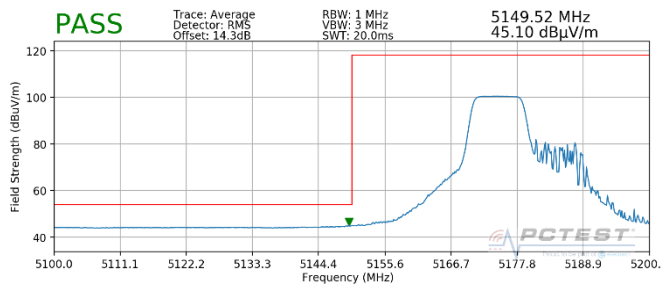
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset	Page 284 of 309	

7.6.7 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW)

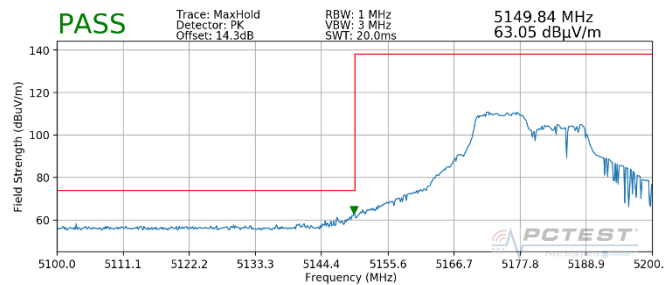
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

106 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

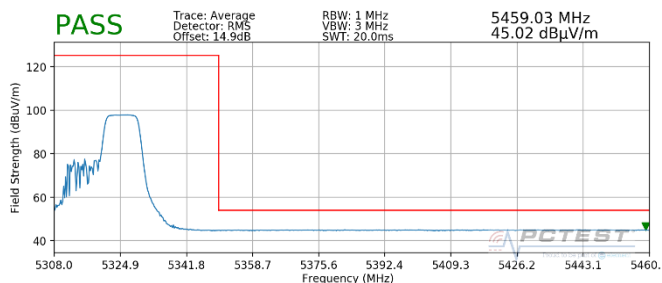


Plot 7-343. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 106 Tones)

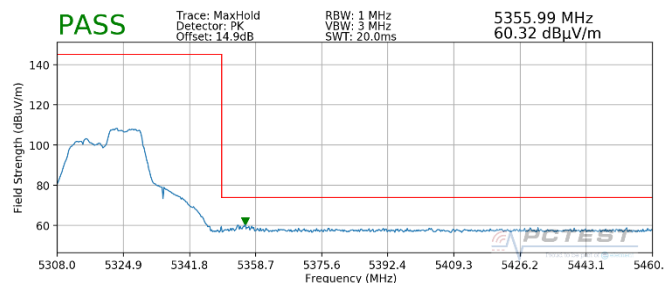


Plot 7-344. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 106 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



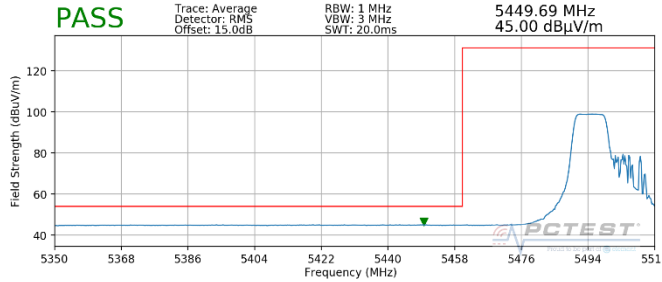
Plot 7-345. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 106 Tones)



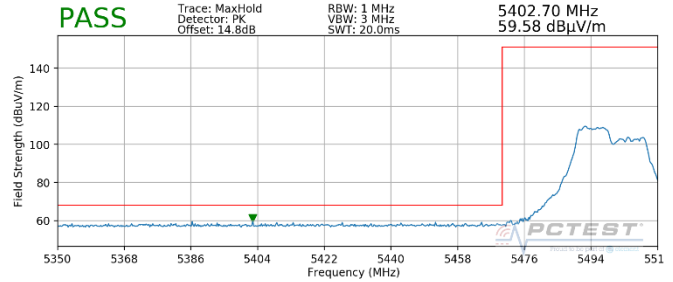
Plot 7-346. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 106 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 285 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

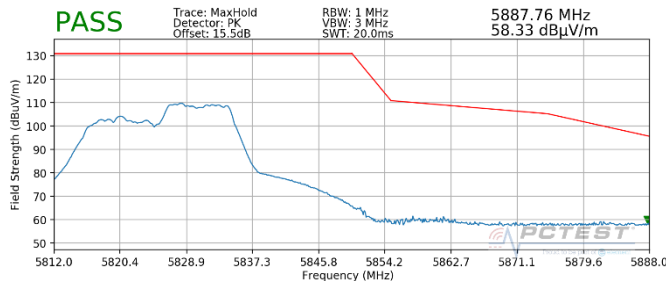


Plot 7-347. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 106 Tones)



Plot 7-348. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 106 Tones)

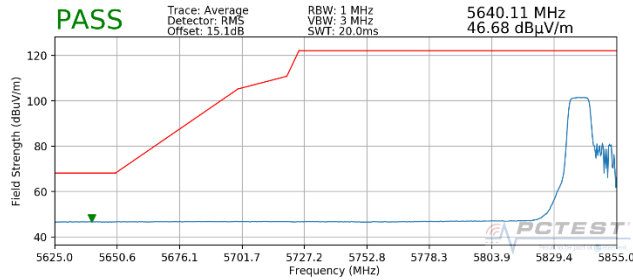
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



Plot 7-349. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 106 Tones)

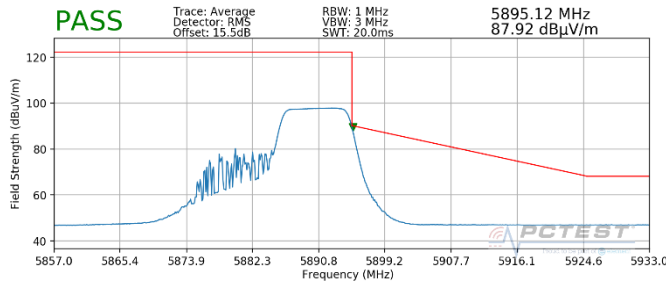
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 286 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169



Plot 7-350. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 106 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177

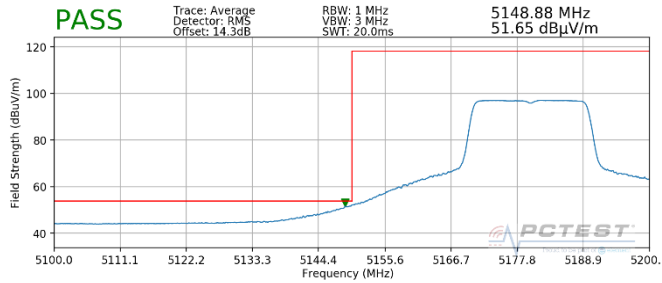


Plot 7-351. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 4 – 106 Tones)

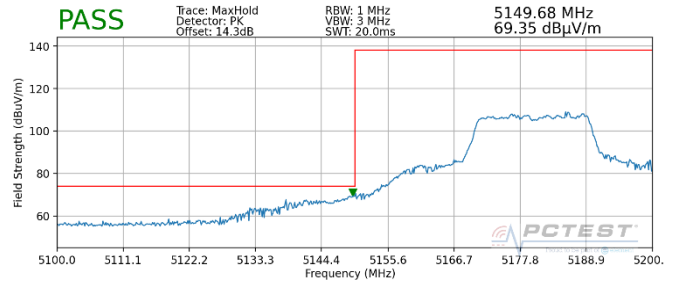
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 287 of 309

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

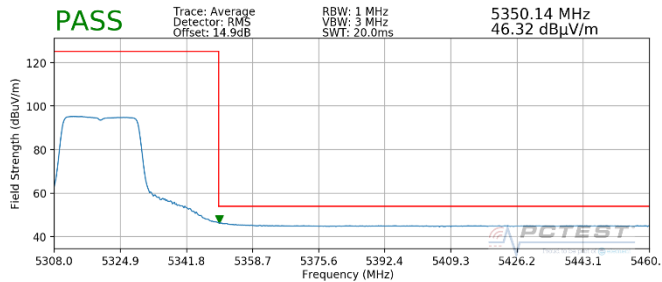


Plot 7-352. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 242 Tones)

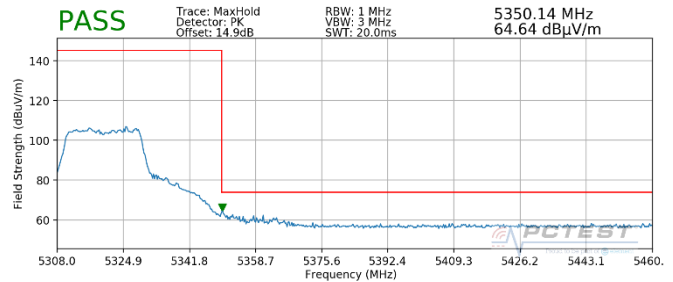


Plot 7-353. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



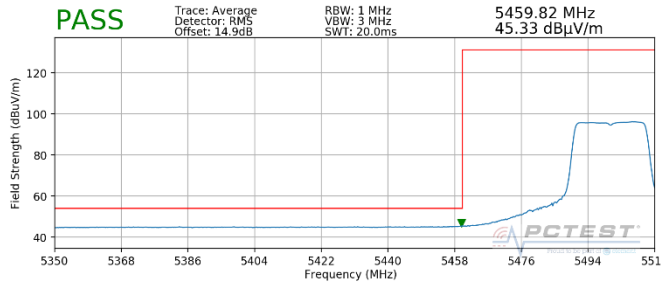
Plot 7-354. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 242 Tones)



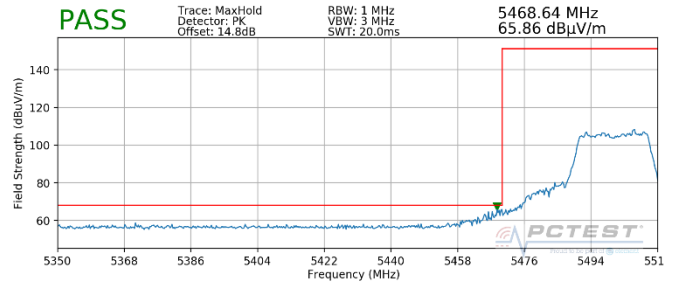
Plot 7-355. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMS901U	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 288 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

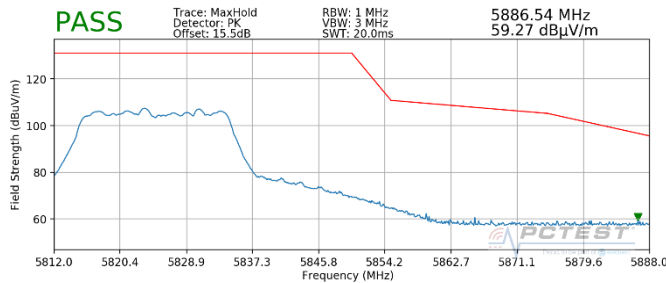


Plot 7-356. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 242 Tones)



Plot 7-357. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 242 Tones)

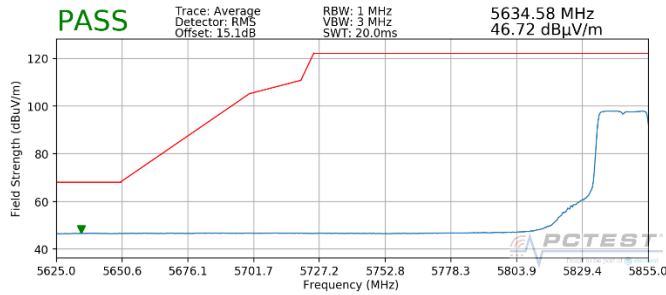
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



Plot 7-358. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 242 Tones)

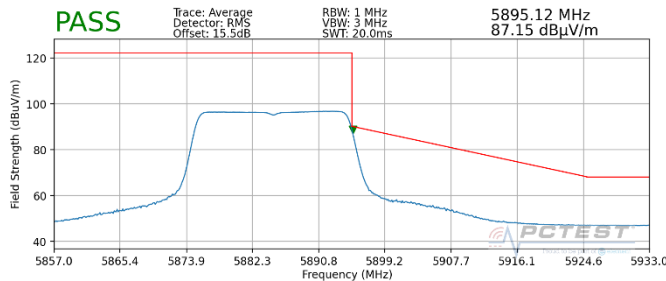
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 289 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169



Plot 7-359. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 242 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177



Plot 7-360. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 4 – 242 Tones)

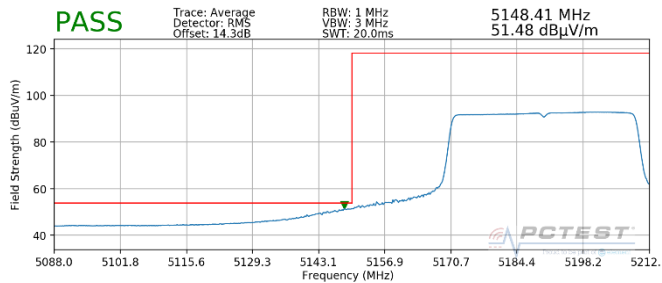
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 290 of 309

7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW)

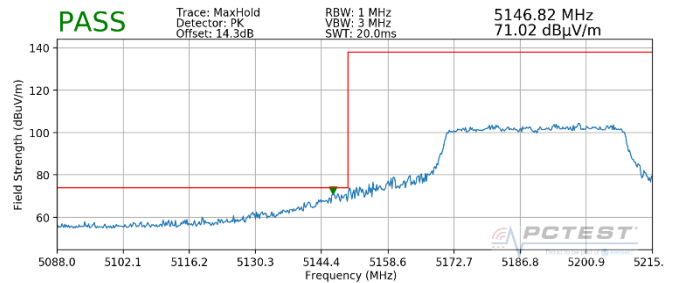
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

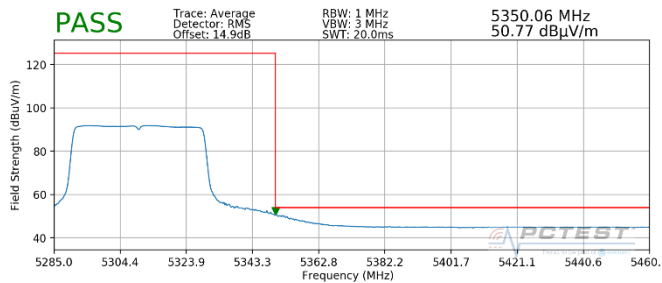


Plot 7-361. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 484 Tones)

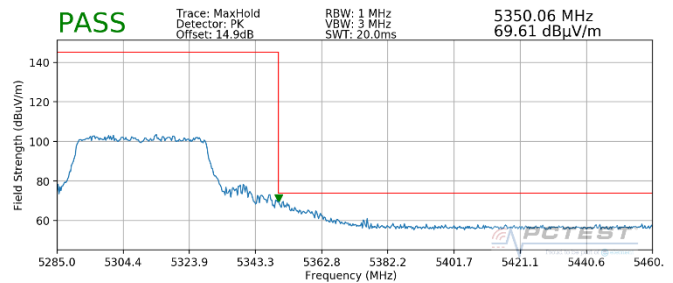


Plot 7-362. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



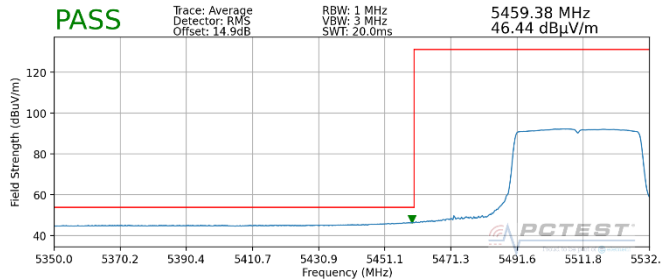
Plot 7-363. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 484 Tones)



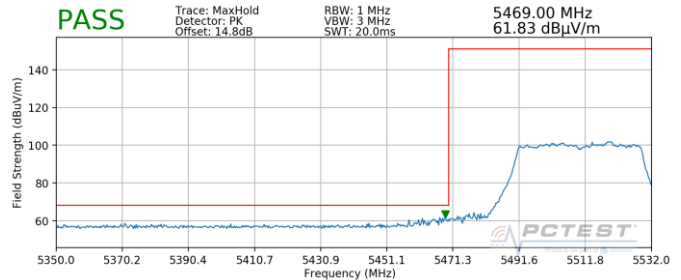
Plot 7-364. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 484 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 291 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

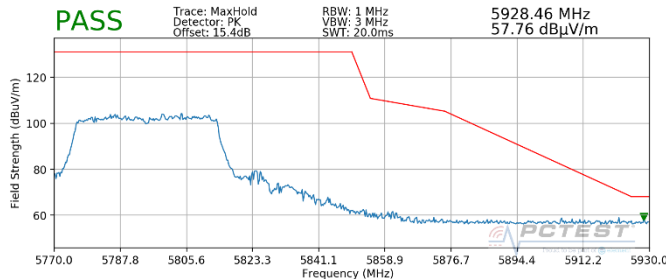


Plot 7-365. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 484 Tones)



Plot 7-366. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 484 Tones)

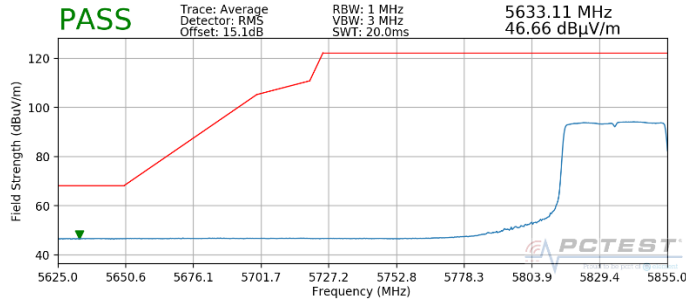
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



Plot 7-367. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 484 Tones)

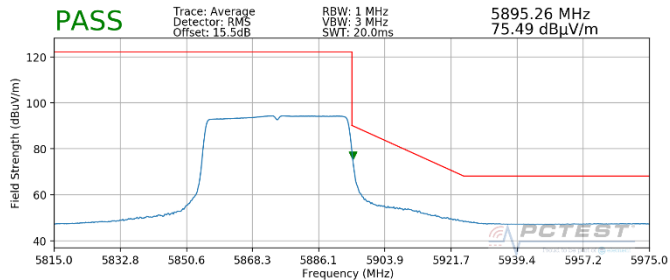
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 292 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5835MHz
 Channel: 167



**Plot 7-368. Radiated Lower Band Edge Plot SISO ANT1
 (Average - UNII Band 4 - 484 Tones)**

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5875MHz
 Channel: 175



**Plot 7-369. Radiated Upper Band Edge Plot SISO
 ANT2 (Average - UNII Band 4 - 484 Tones)**

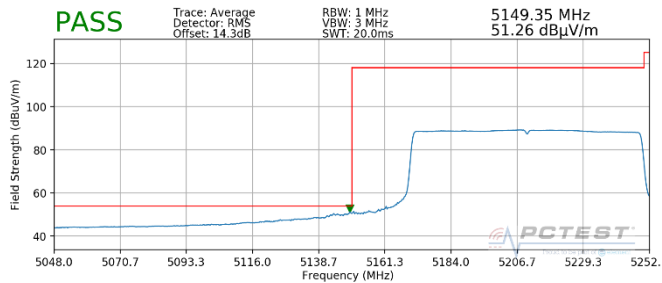
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 293 of 309

7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW)

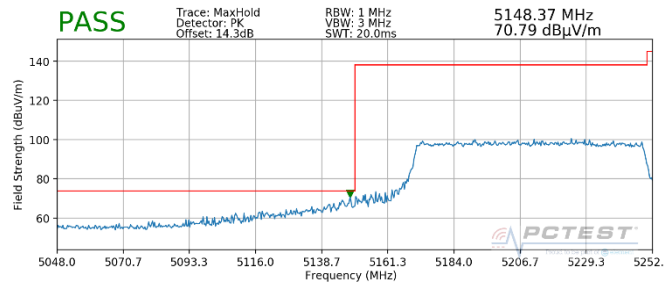
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

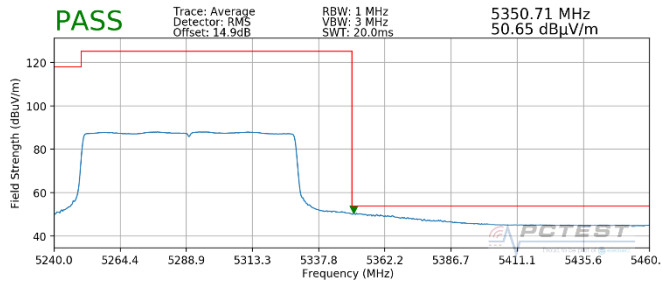


Plot 7-370. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 996 Tones)

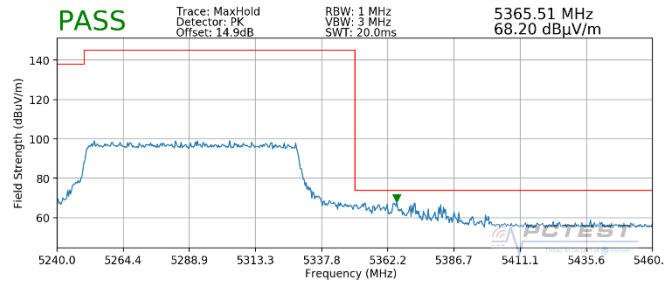


Plot 7-371. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



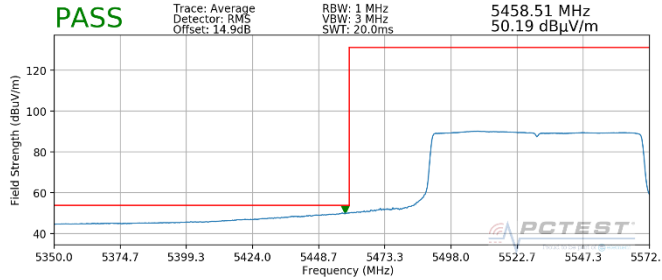
Plot 7-372. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 996 Tones)



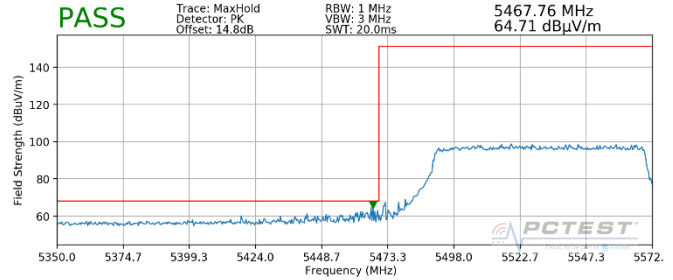
Plot 7-373. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 294 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

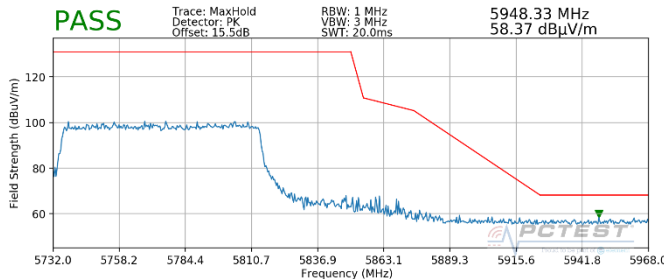


Plot 7-374. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 996 Tones)



Plot 7-375. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 996 Tones)

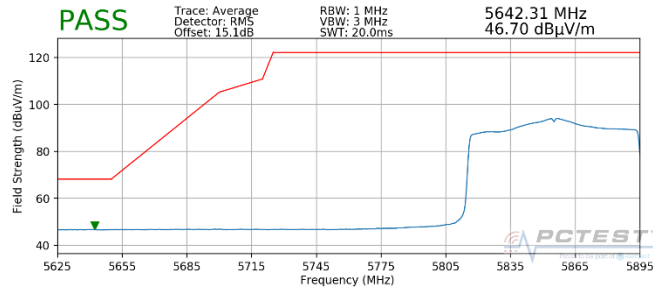
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Plot 7-376. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 996 Tones)

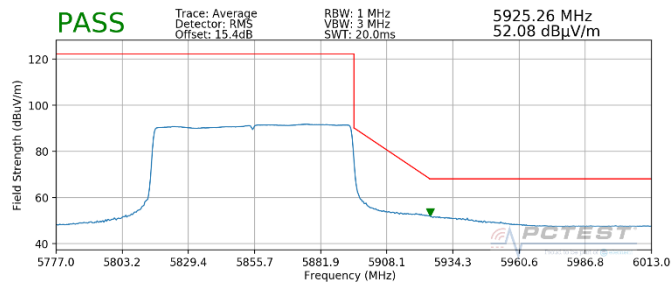
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 295 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



Plot 7-377. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 996 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



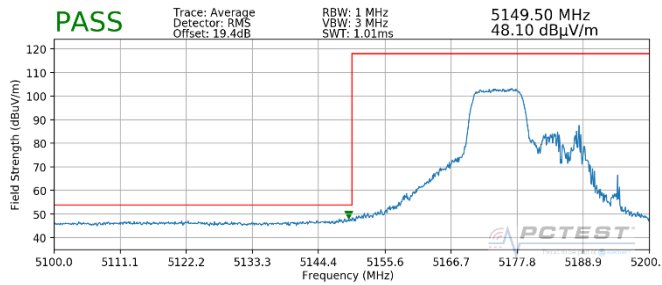
Plot 7-378. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 4 – 996 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 296 of 309

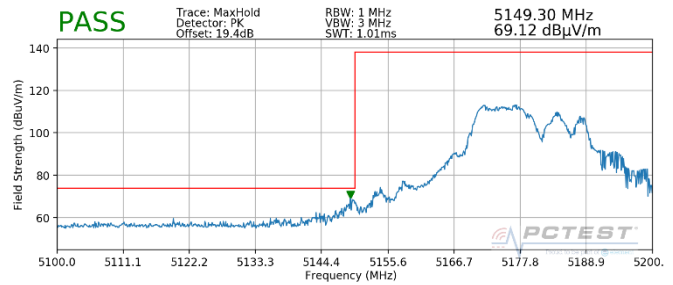
7.6.10 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

106 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

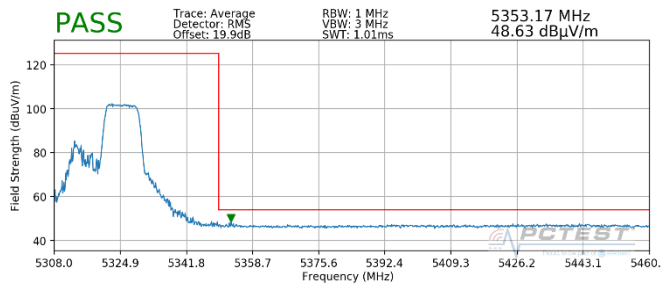


Plot 7-379. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 106 Tones)

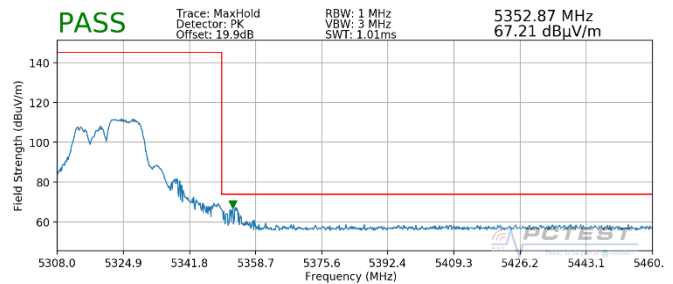


Plot 7-380. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 106 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



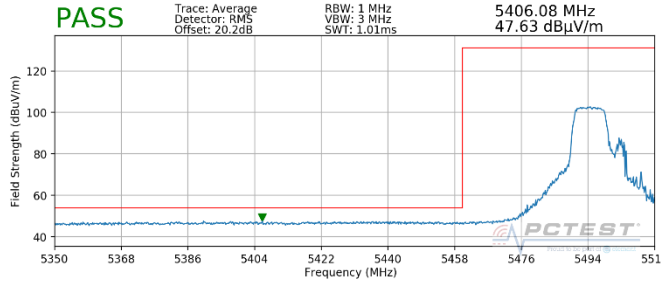
Plot 7-381. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 106 Tones)



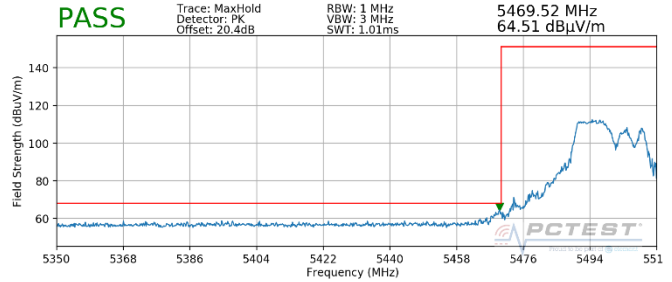
Plot 7-382. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 106 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 297 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

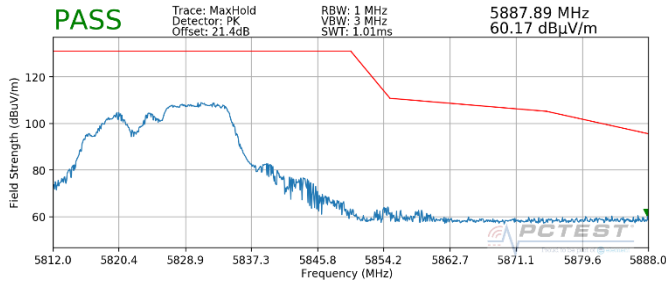


Plot 7-383. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 106 Tones)



Plot 7-384. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 106 Tones)

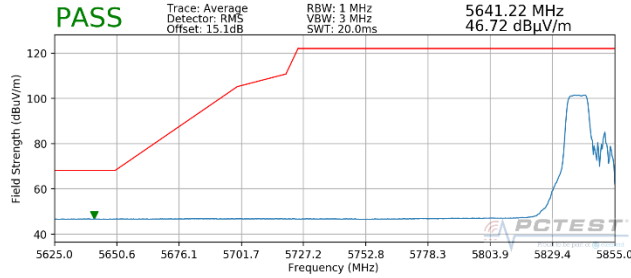
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



Plot 7-385. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 106 Tones)

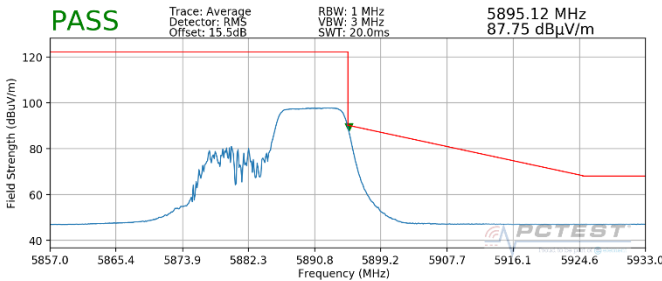
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 298 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169




**Plot 7-386. Radiated Lower Band Edge Plot SISO
ANT1 (Average – UNII Band 4 – 106 Tones)**

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177

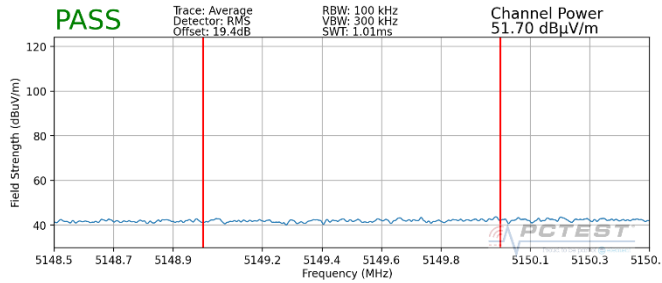


**Plot 7-387. Radiated Upper Band Edge Plot MIMO
(Average – UNII Band 4 – 106 Tones)**

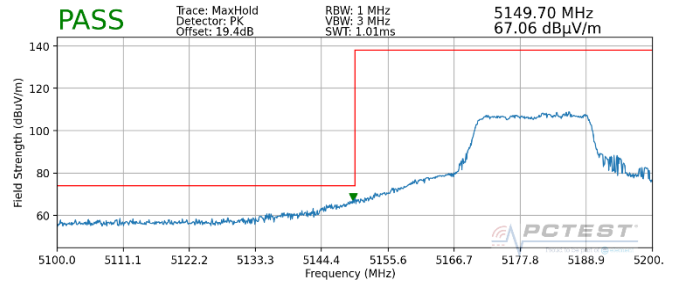
FCC ID: A3LSMS901U	 <p>PCTEST[®] Proud to be part of element</p>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset	Page 299 of 309	

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

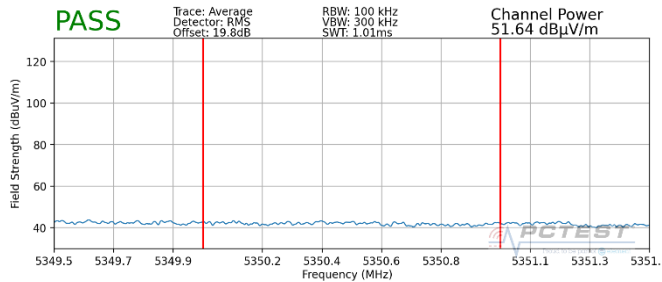


Plot 7-388. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 242 Tones)

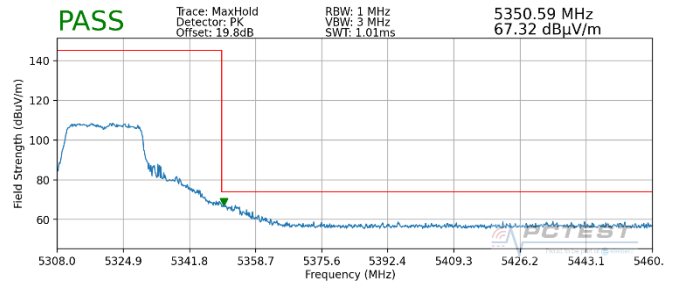


Plot 7-389. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



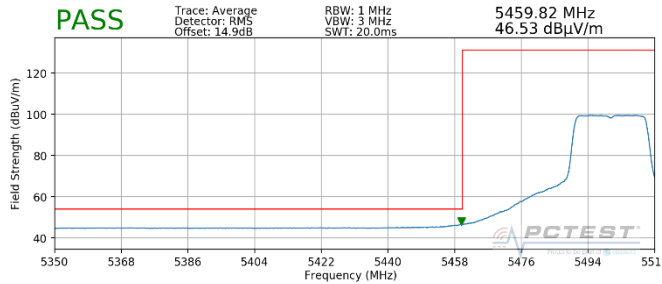
Plot 7-390. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 242 Tones)



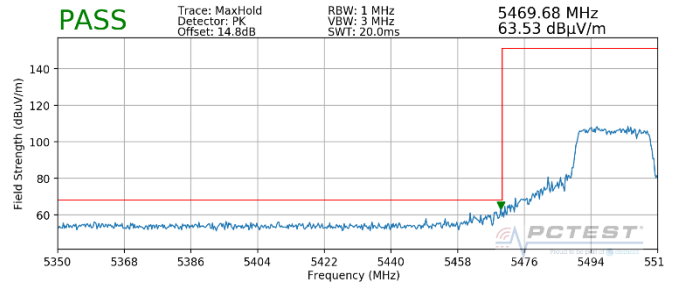
Plot 7-391. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 242 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 300 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

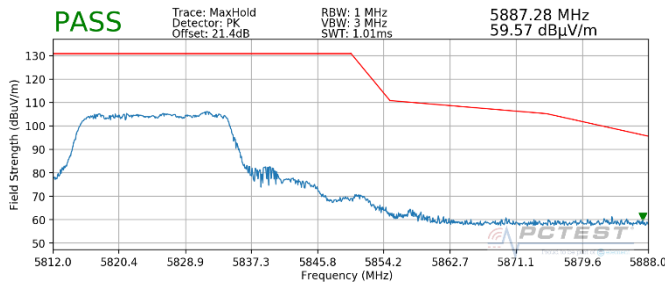


Plot 7-392. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 242 Tones)



Plot 7-393. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 242 Tones)

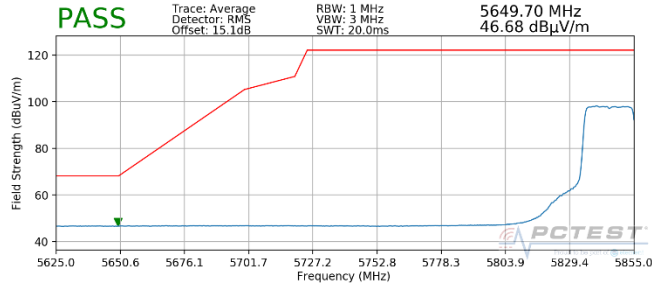
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



Plot 7-394. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 242 Tones)

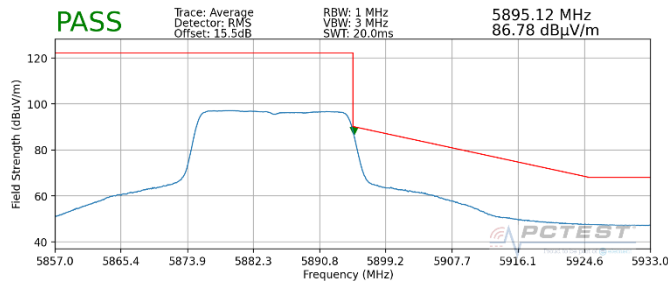
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 301 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5845MHz
 Channel: 169



Plot 7-395. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 4 – 242 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5885MHz
 Channel: 177



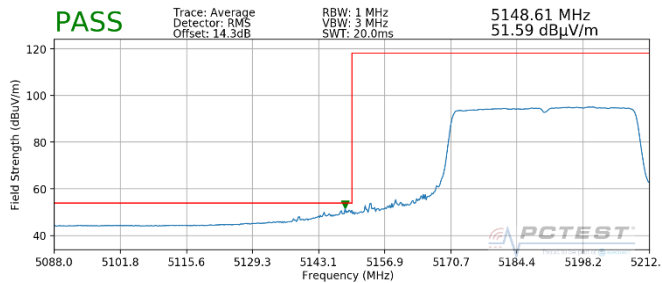
Plot 7-396. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4 – 242 Tones)

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 302 of 309

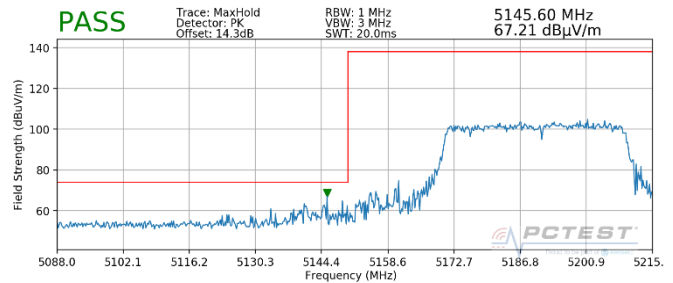
7.6.11 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

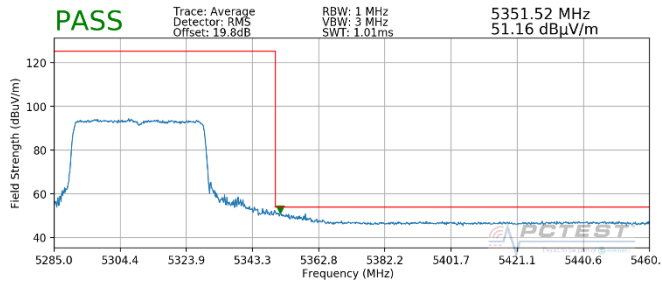


**Plot 7-397. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 1 – 484 Tones)**

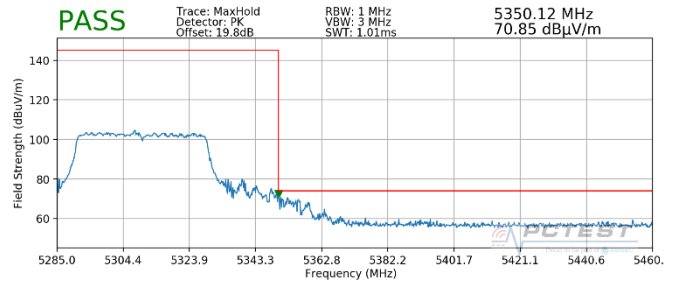


**Plot 7-398. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 1 – 484 Tones)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	65
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



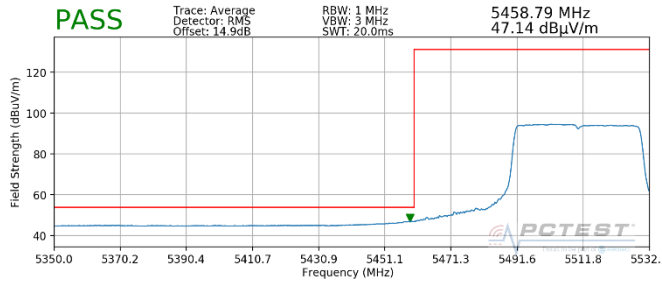
**Plot 7-399. Radiated Upper Band Edge Plot MIMO
(Average – UNII Band 2A – 484 Tones)**



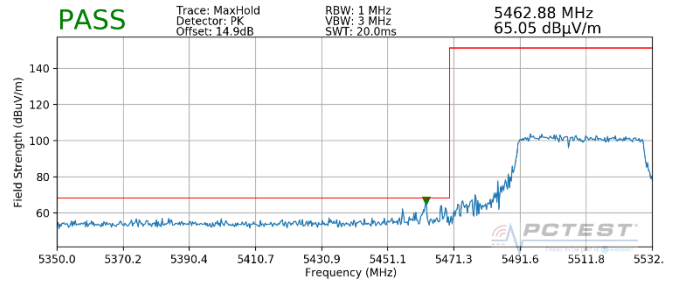
**Plot 7-400. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 2A – 484 Tones)**

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 303 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

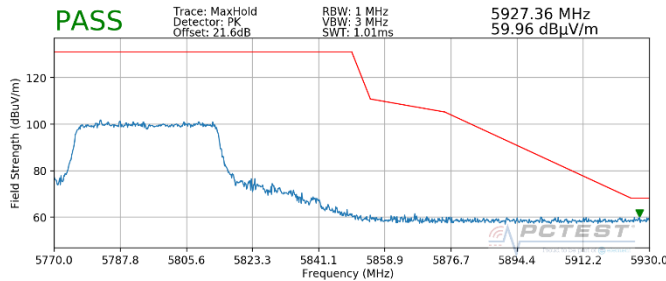


Plot 7-401. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 484 Tones)



Plot 7-402. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 484 Tones)

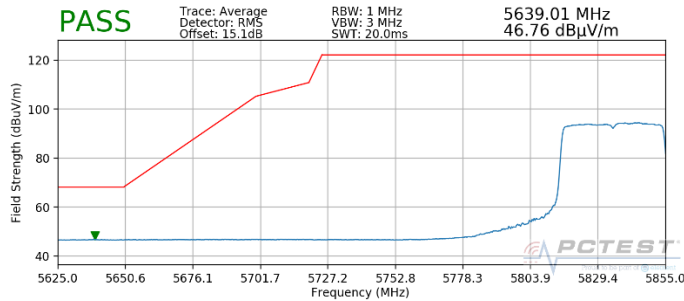
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



Plot 7-403. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 484 Tones)

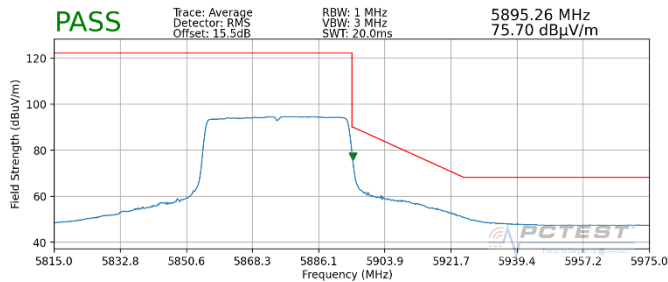
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 304 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5835MHz
 Channel: 167



**Plot 7-404. Radiated Lower Band Edge Plot SISO
ANT1 (Average - UNII Band 4 - 484 Tones)**

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 65
 Distance of Measurements: 3 Meters
 Operating Frequency: 5875MHz
 Channel: 175



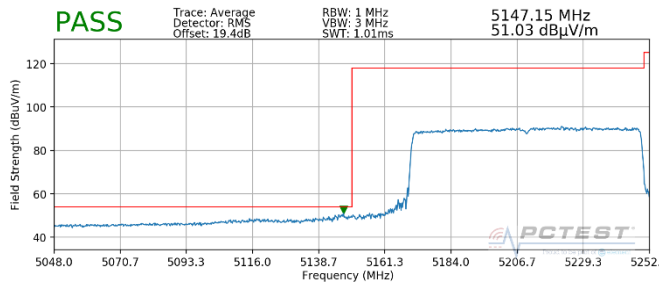
**Plot 7-405. Radiated Upper Band Edge Plot MIMO
(Average - UNII Band 4 - 484 Tones)**

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 305 of 309

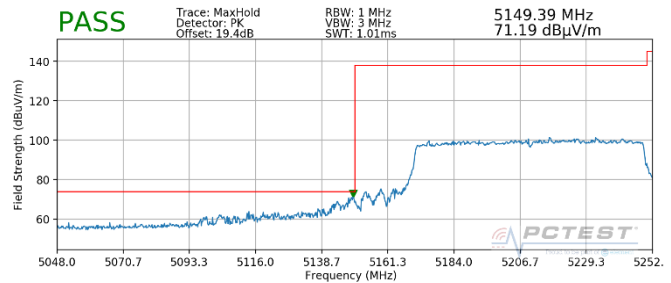
7.6.12 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

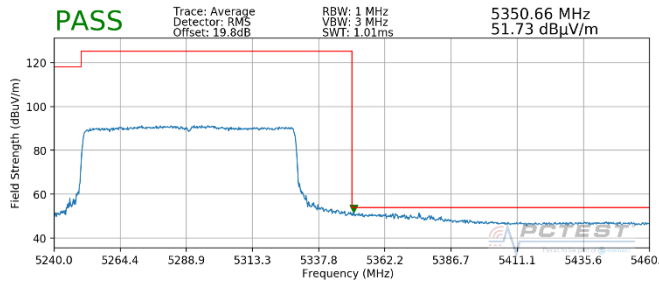


Plot 7-406. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1 – 996 Tones)

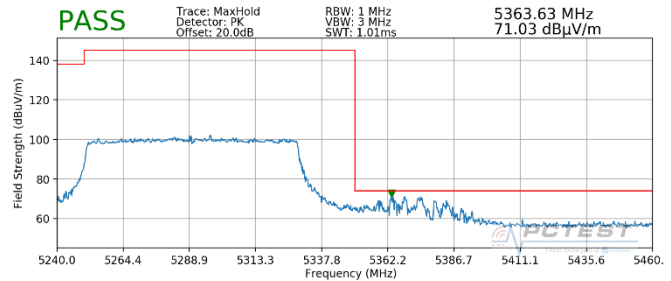


Plot 7-407. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	67
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



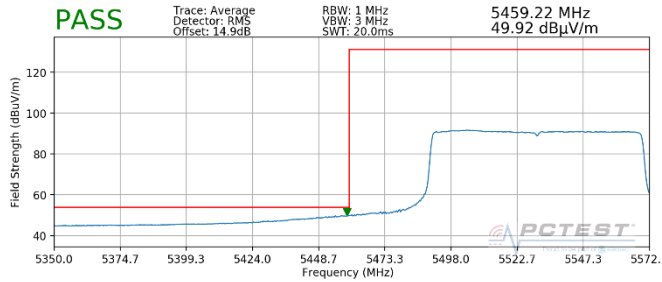
Plot 7-408. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A – 996 Tones)



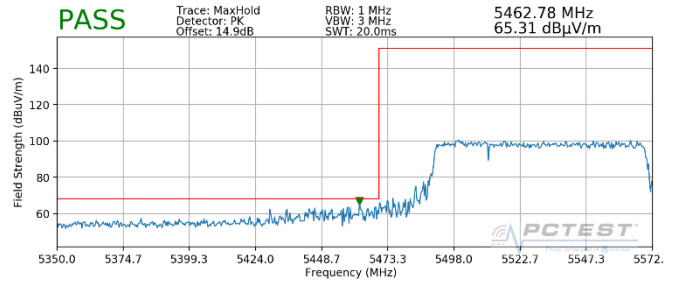
Plot 7-409. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A – 996 Tones)

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 306 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

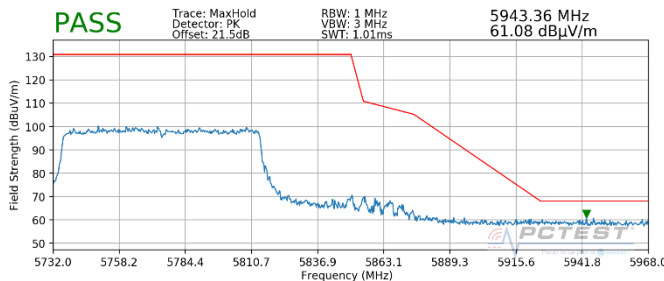


Plot 7-410. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C – 996 Tones)



Plot 7-411. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C – 996 Tones)

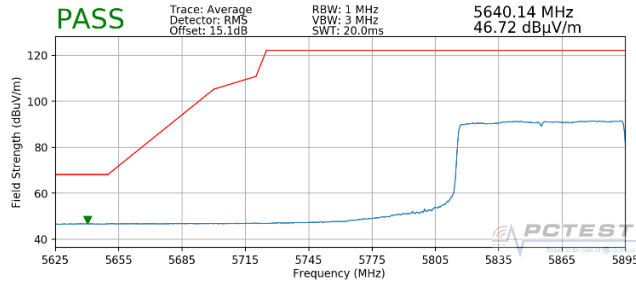
Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Plot 7-412. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3 – 996 Tones)

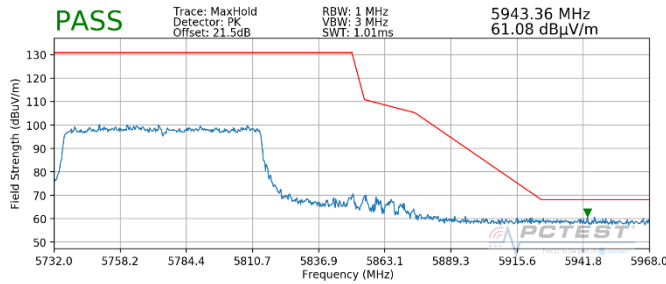
FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset		Page 307 of 309

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



**Plot 7-413. Radiated Lower Band Edge Plot SISO
 ANT1 (Average – UNII Band 4 – 996 Tones)**

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 67
 Distance of Measurements: 3 Meters
 Operating Frequency: 5855MHz
 Channel: 171



**Plot 7-414. Radiated Upper Band Edge Plot MIMO
 (Average – UNII Band 4 – 996 Tones)**

FCC ID: A3LSMS901U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset	Page 308 of 309	

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS901U** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

FCC ID: A3LSMS901U	 PCTEST [®] <small>Proud to be part of  element</small>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109080099-12.A3L	Test Dates: 9/22/2021 - 11/9/2021	EUT Type: Portable Handset	Page 309 of 309	