

## Antenna-2 Power Spectral Density Measurements

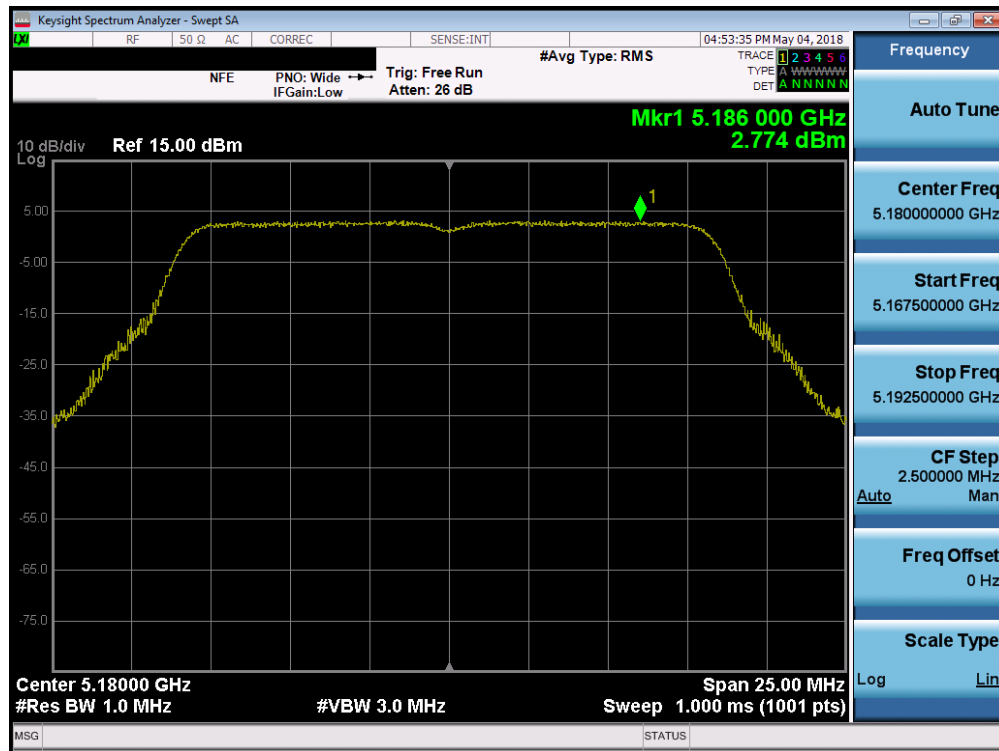
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	2.77	11.0	-8.23
	5200	40	a	6	3.84	11.0	-7.17
	5240	48	a	6	4.29	11.0	-6.71
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	3.63	11.0	-7.37
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	3.70	11.0	-7.30
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	4.01	11.0	-6.99
	5190	38	n (40MHz)	13.5/15 (MCS0)	-0.01	11.0	-11.01
	5230	46	n (40MHz)	13.5/15 (MCS0)	0.56	11.0	-10.44
Band 2A	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-4.50	11.0	-15.50
	5260	52	a	6	3.90	11.0	-7.10
	5280	56	a	6	3.66	11.0	-7.35
	5320	64	a	6	4.13	11.0	-6.87
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	3.69	11.0	-7.31
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	3.71	11.0	-7.29
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	3.69	11.0	-7.31
	5270	54	n (40MHz)	13.5/15 (MCS0)	-0.31	11.0	-11.31
Band 2C	5310	62	n (40MHz)	13.5/15 (MCS0)	-0.50	11.0	-11.50
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-4.44	11.0	-15.44
	5500	100	a	6	4.92	11.0	-6.08
	5600	120	a	6	4.20	11.0	-6.80
	5720	144	a	6	4.23	11.0	-6.77
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	4.38	11.0	-6.62
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	3.97	11.0	-7.03
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	3.79	11.0	-7.21
	5510	102	n (40MHz)	13.5/15 (MCS0)	-0.08	11.0	-11.08
	5590	118	n (40MHz)	13.5/15 (MCS0)	0.90	11.0	-10.10
	5710	142	n (40MHz)	13.5/15 (MCS0)	-0.59	11.0	-11.59
5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-3.48	11.0	-14.48	
5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-3.81	11.0	-14.81	

Table 7-21. Conducted Power Spectral Density Measurements

FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 87 of 197	

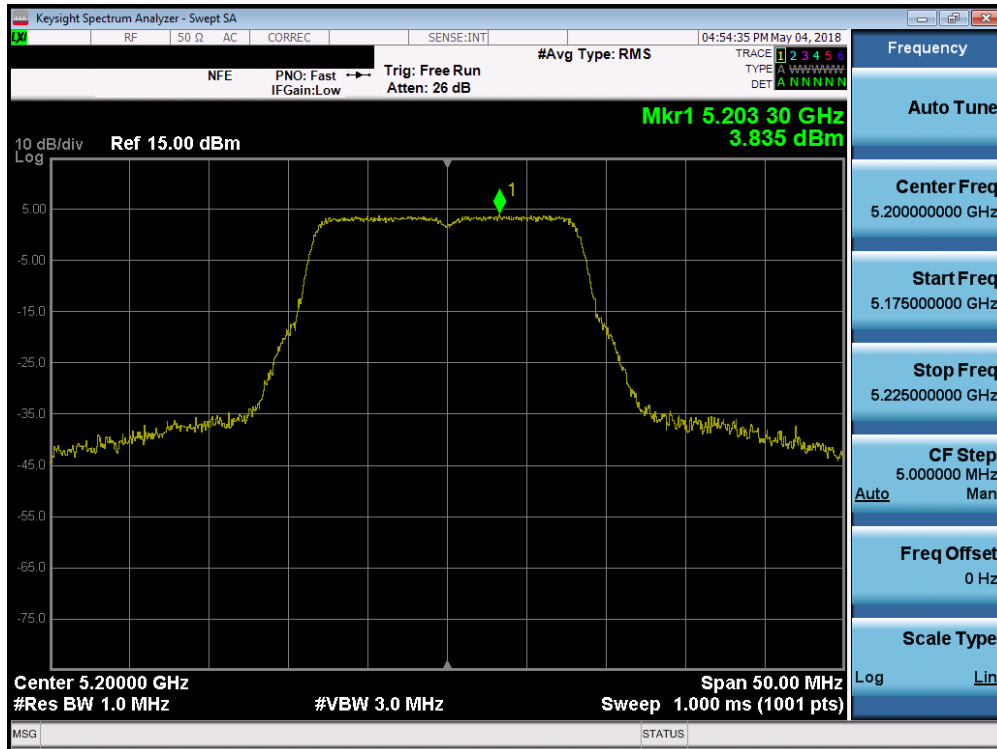
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	2.77	-8.74	-5.97	10.0	-15.97
	5200	40	a	6	3.84	-8.74	-4.91	10.0	-14.91
	5240	48	a	6	4.29	-7.66	-3.37	10.0	-13.37
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	3.63	-8.74	-5.11	10.0	-15.11
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	3.70	-8.74	-5.04	10.0	-15.04
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	4.01	-7.66	-3.65	10.0	-13.65
	5190	38	n (40MHz)	13.5/15 (MCS0)	-0.01	-8.74	-8.75	10.0	-18.75
	5230	46	n (40MHz)	13.5/15 (MCS0)	0.56	-7.66	-7.10	10.0	-17.10
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-4.50	-8.74	-13.24	10.0	-23.24

Table 7-22. Band 1 e.i.r.p. Conducted Power Spectral Density Measurements (ISED)

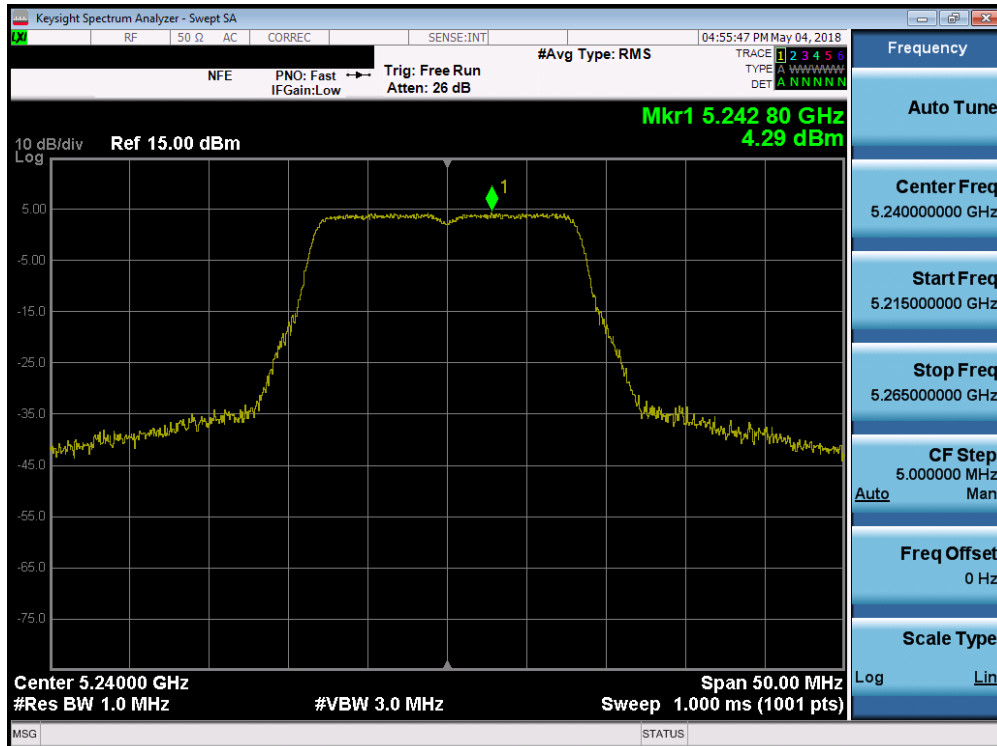


Plot 7-115. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 36)

FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 88 of 197		

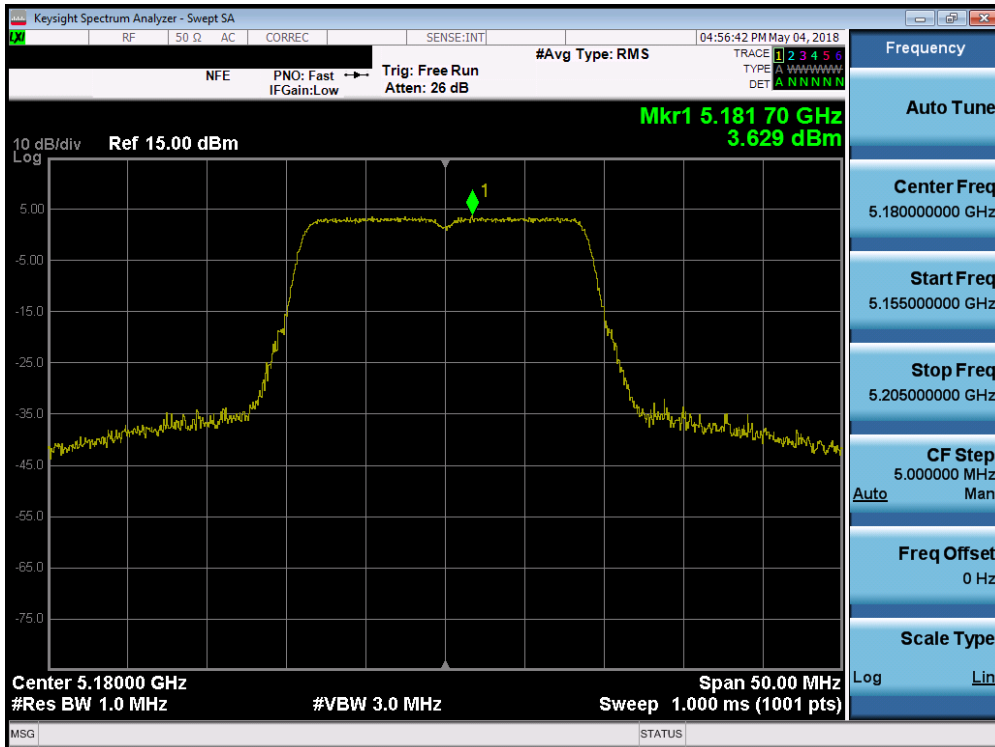


Plot 7-116. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 40)

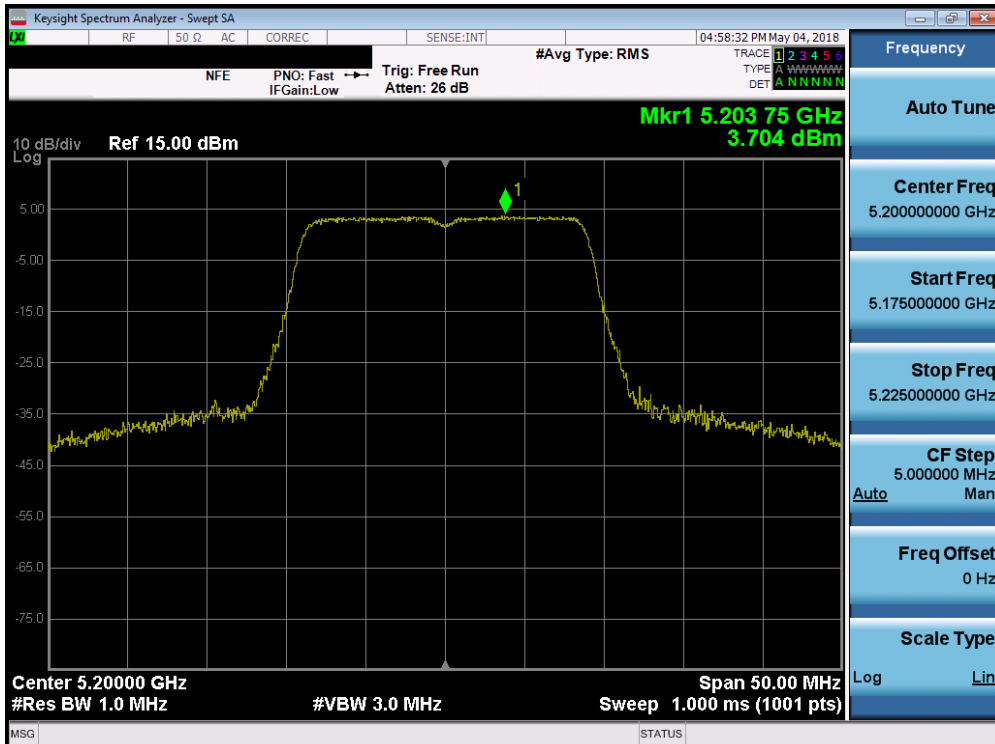


Plot 7-117. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 48)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 89 of 197

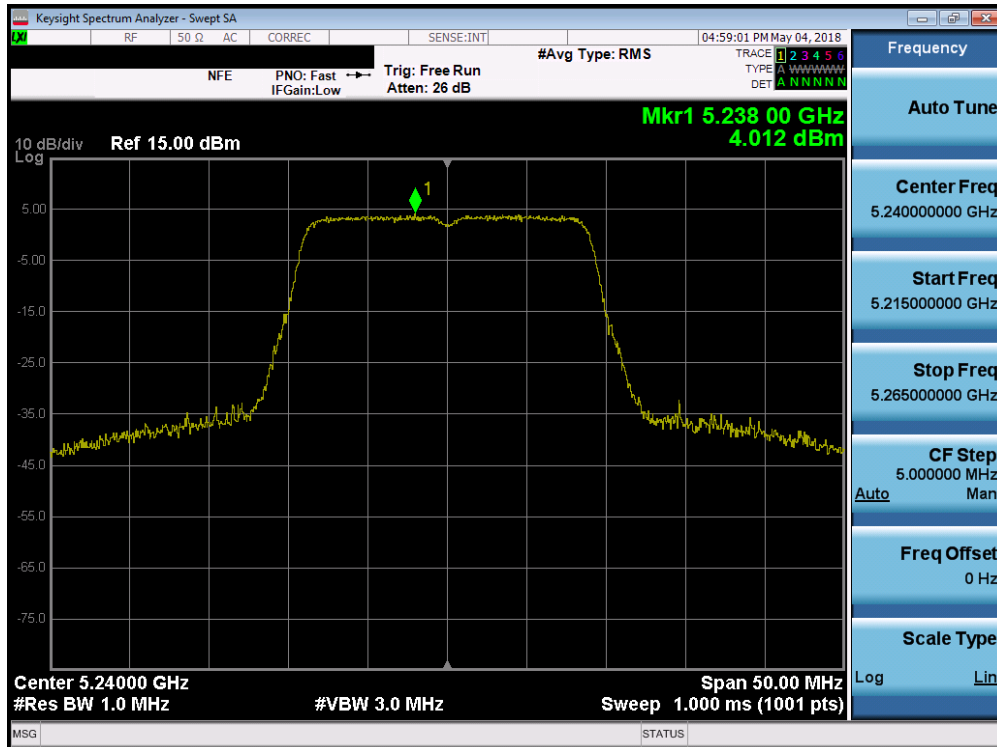


Plot 7-118. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

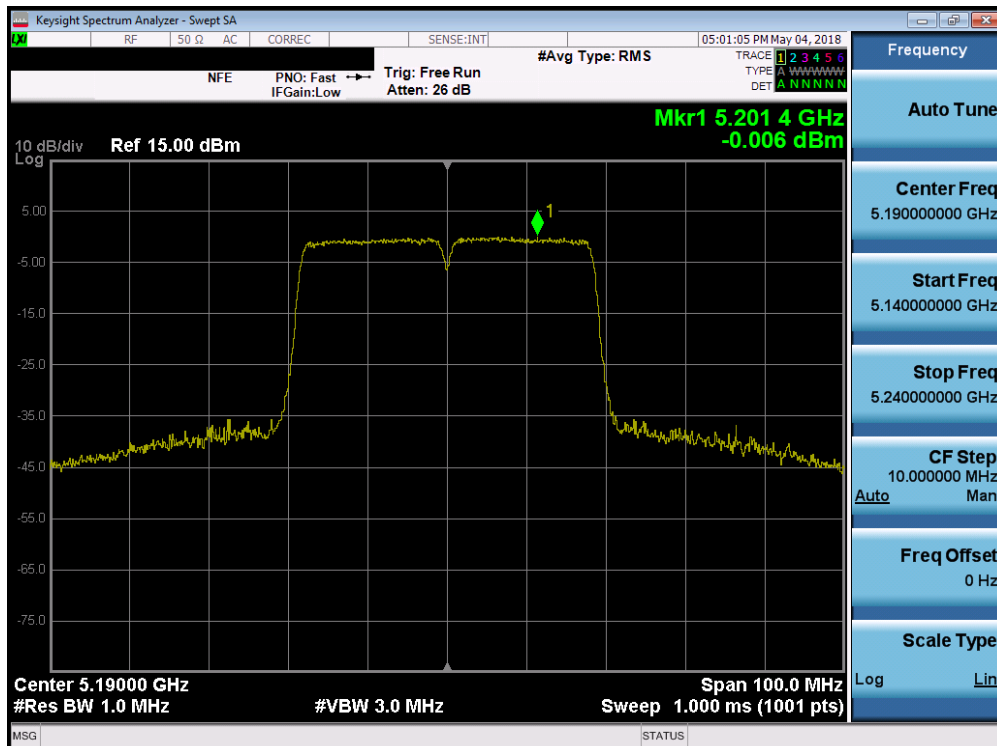


Plot 7-119. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 90 of 197

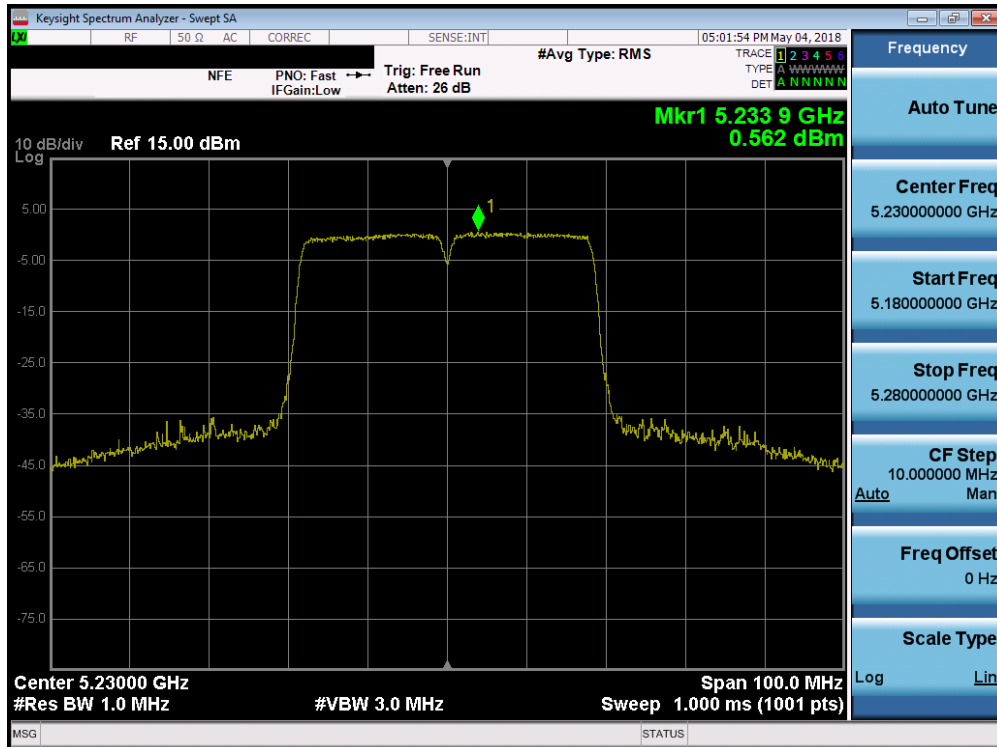


Plot 7-120. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

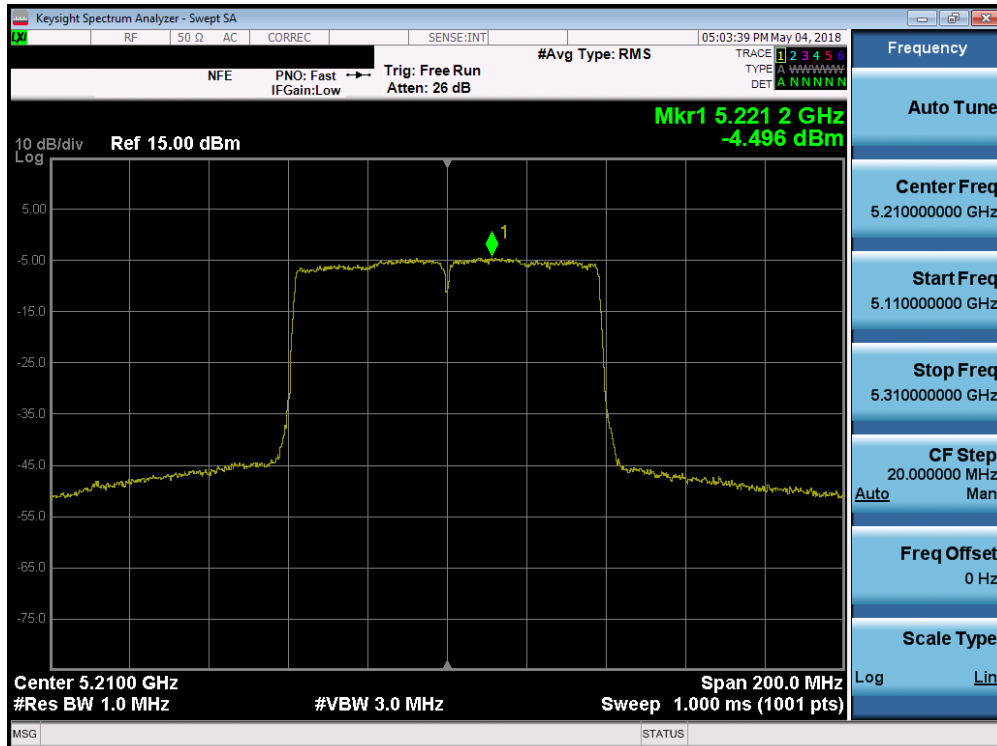


Plot 7-121. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 91 of 197

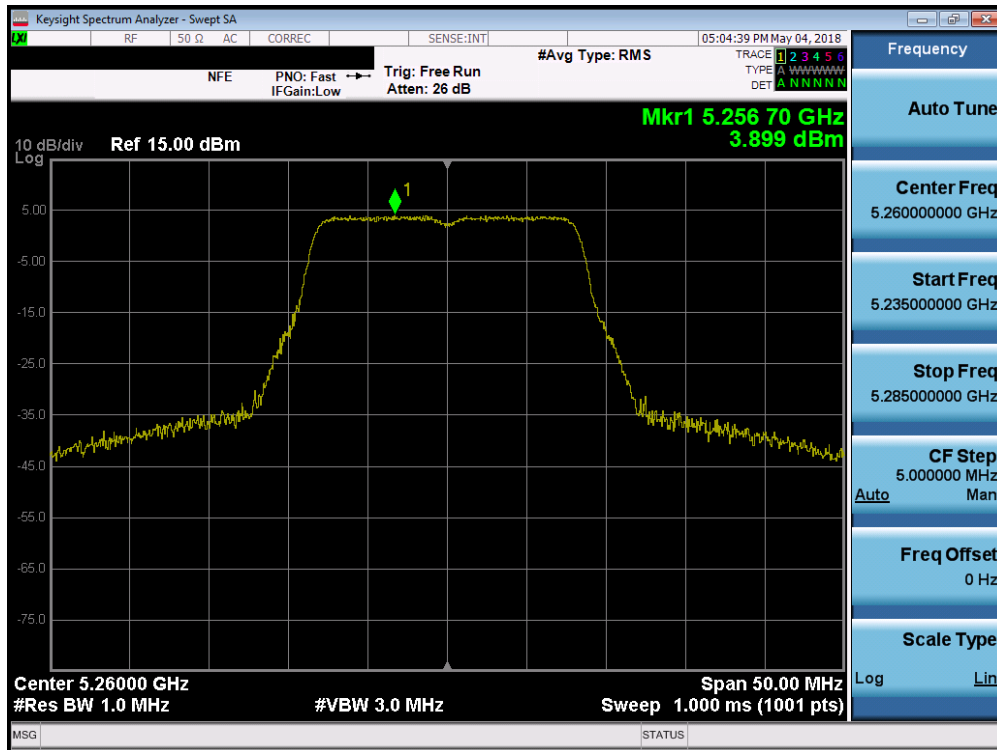


Plot 7-122. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

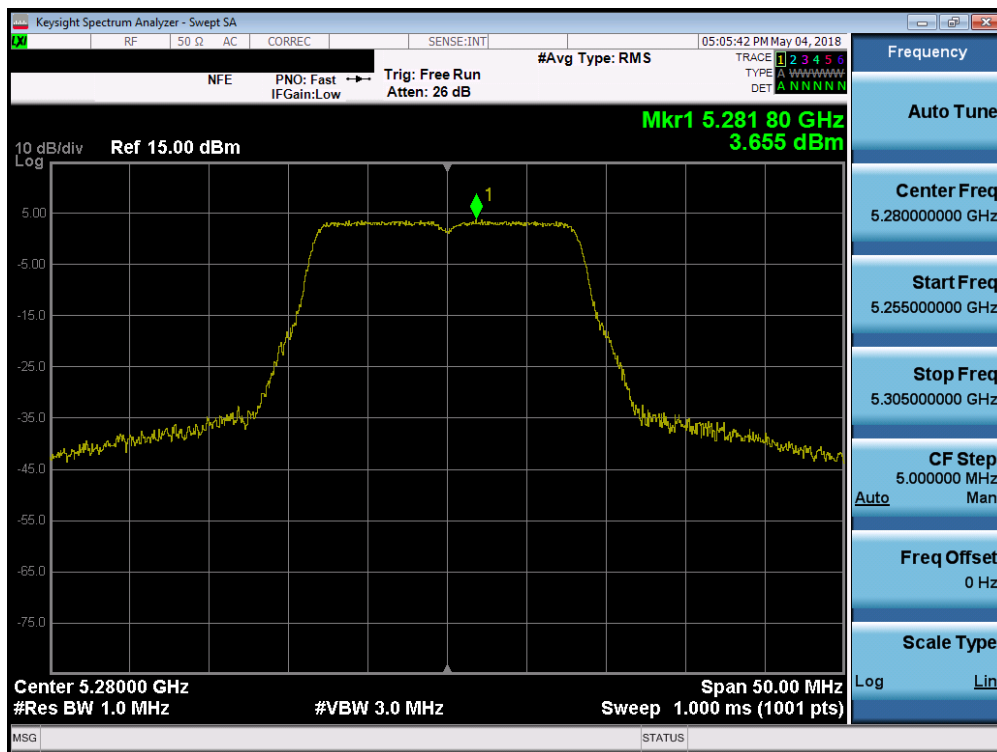


Plot 7-123. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 92 of 197



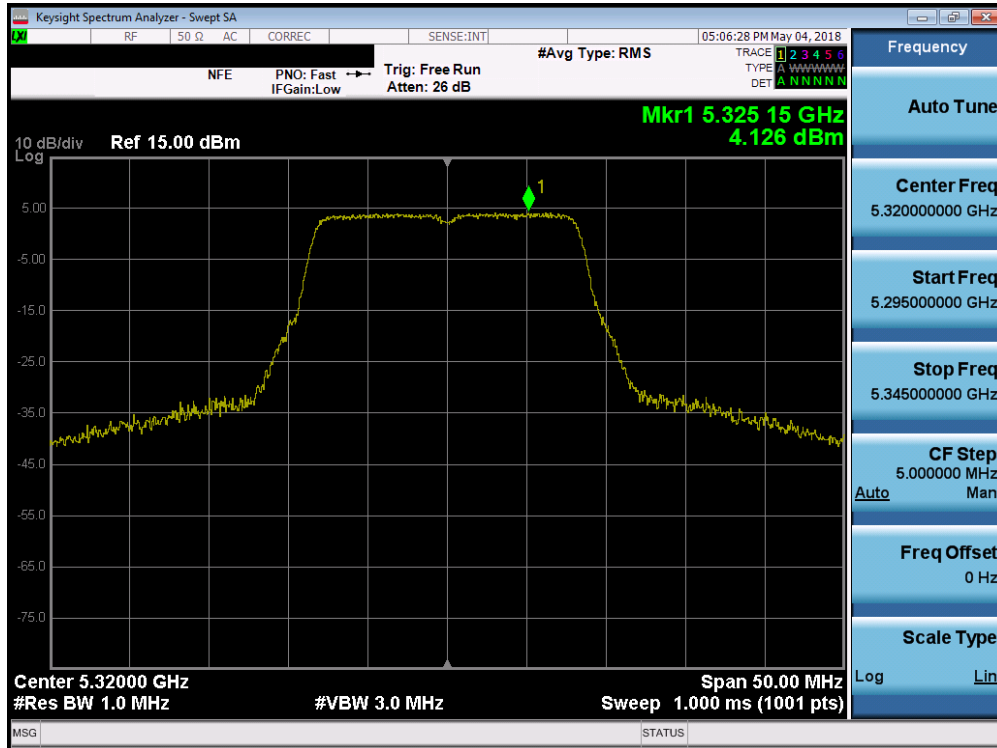
Plot 7-124. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 52)



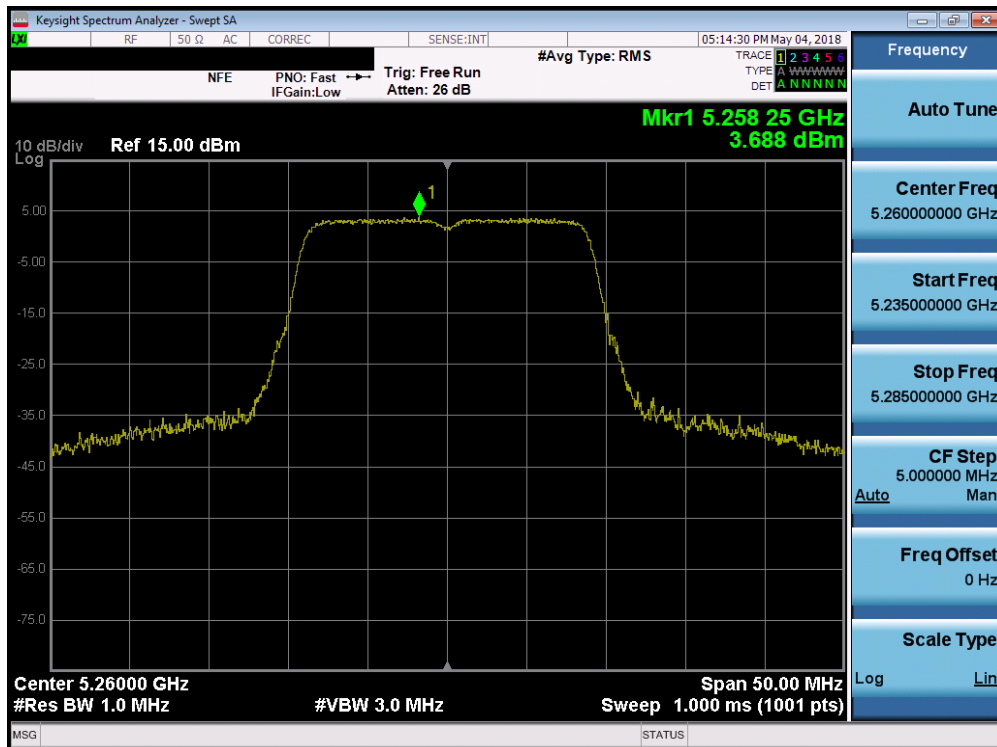
Plot 7-125. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 93 of 197





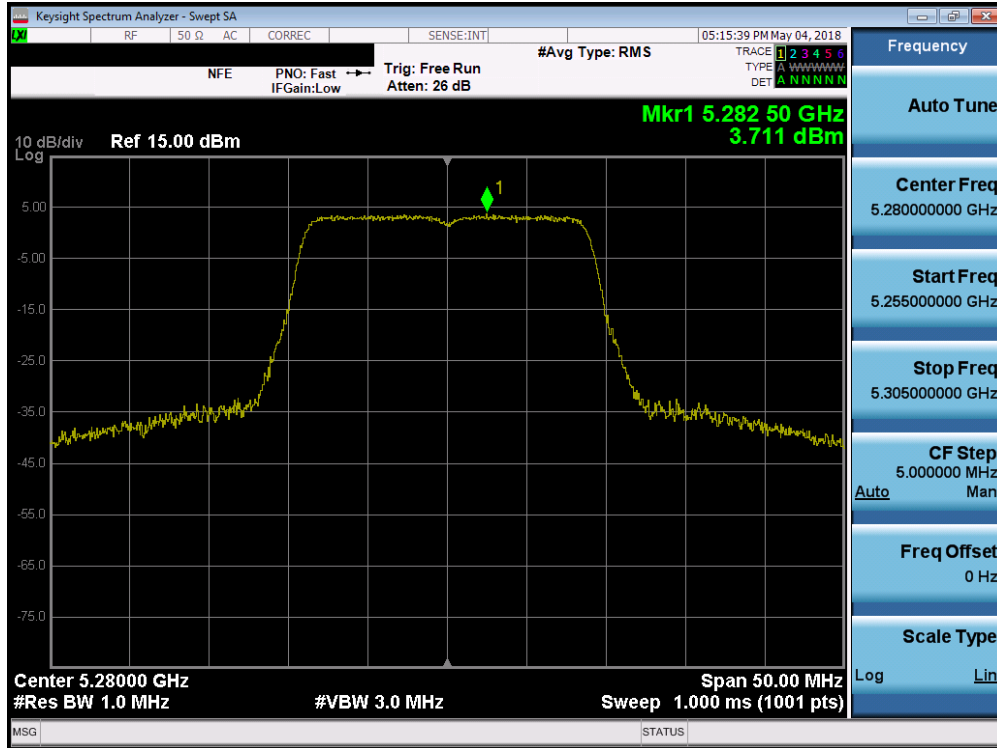
Plot 7-126. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 64)



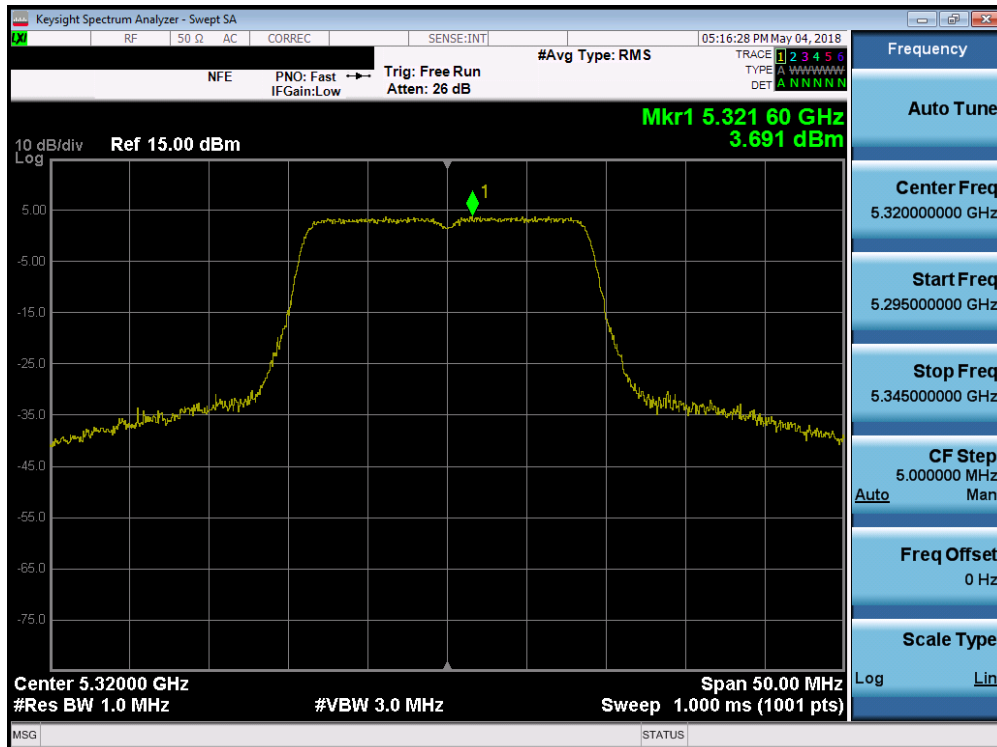
Plot 7-127. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 94 of 197



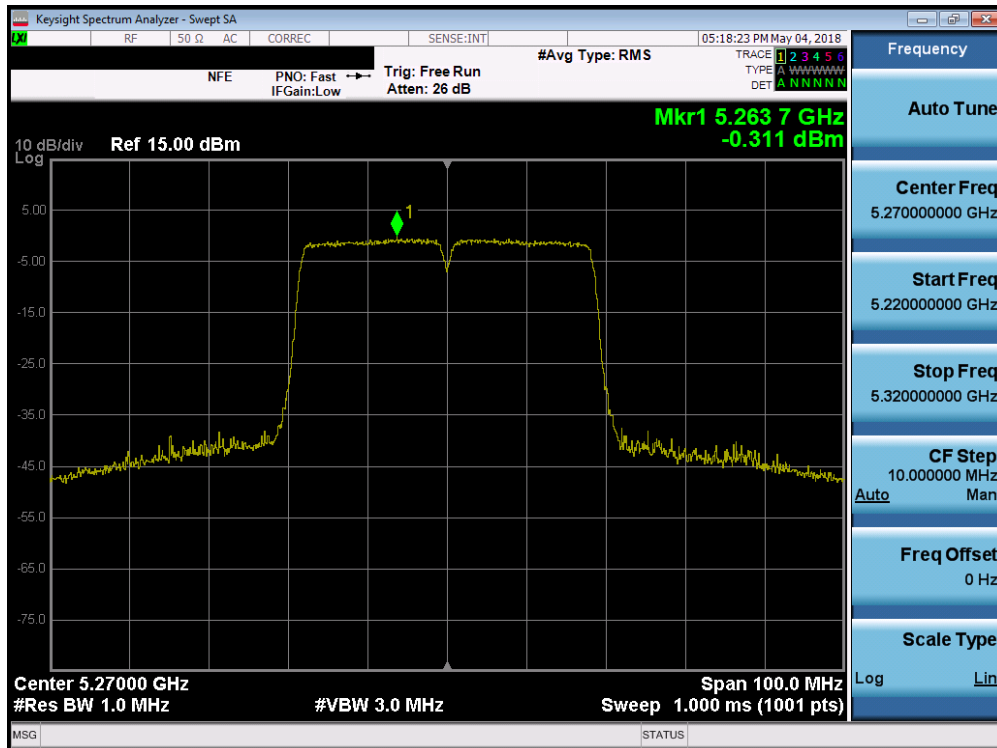


Plot 7-128. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

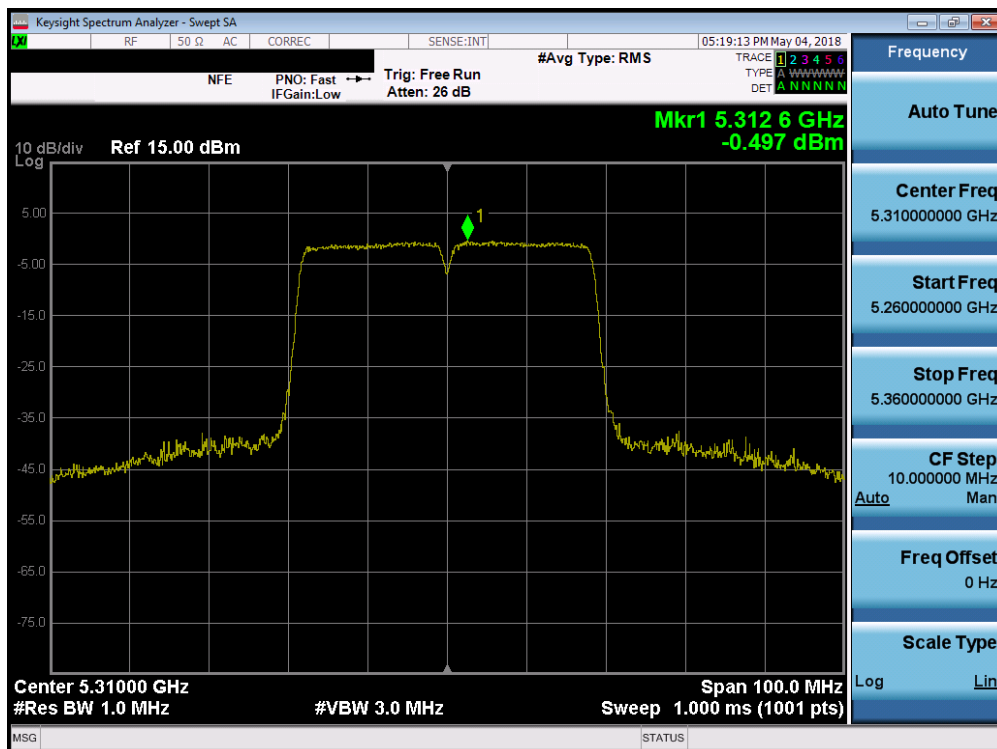


Plot 7-129. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 95 of 197

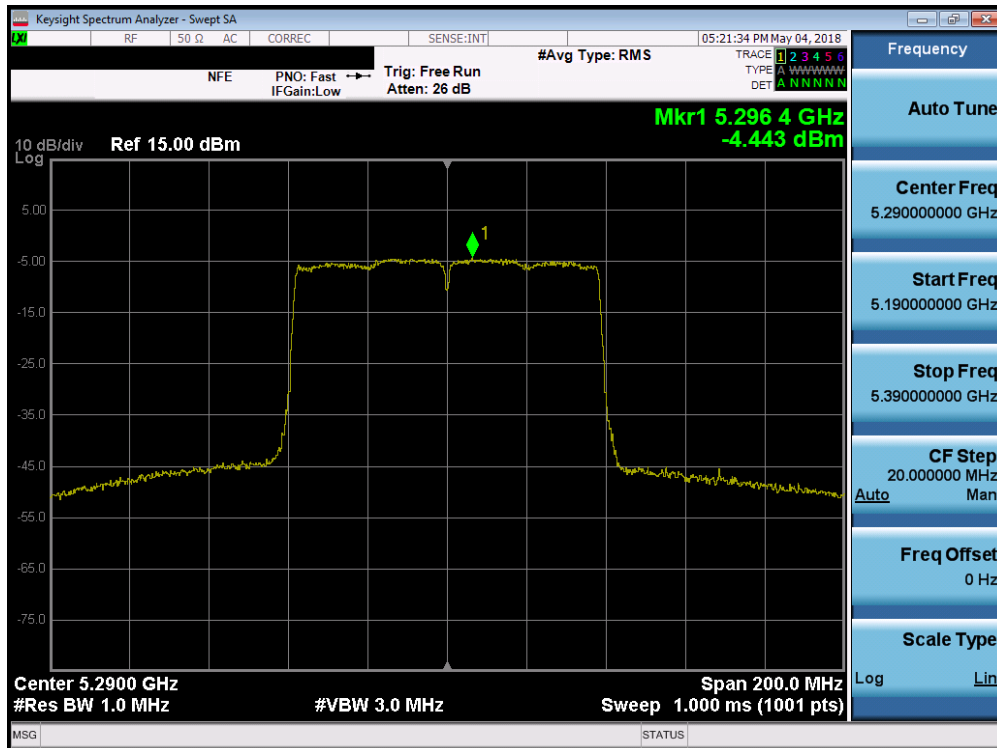


Plot 7-130. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

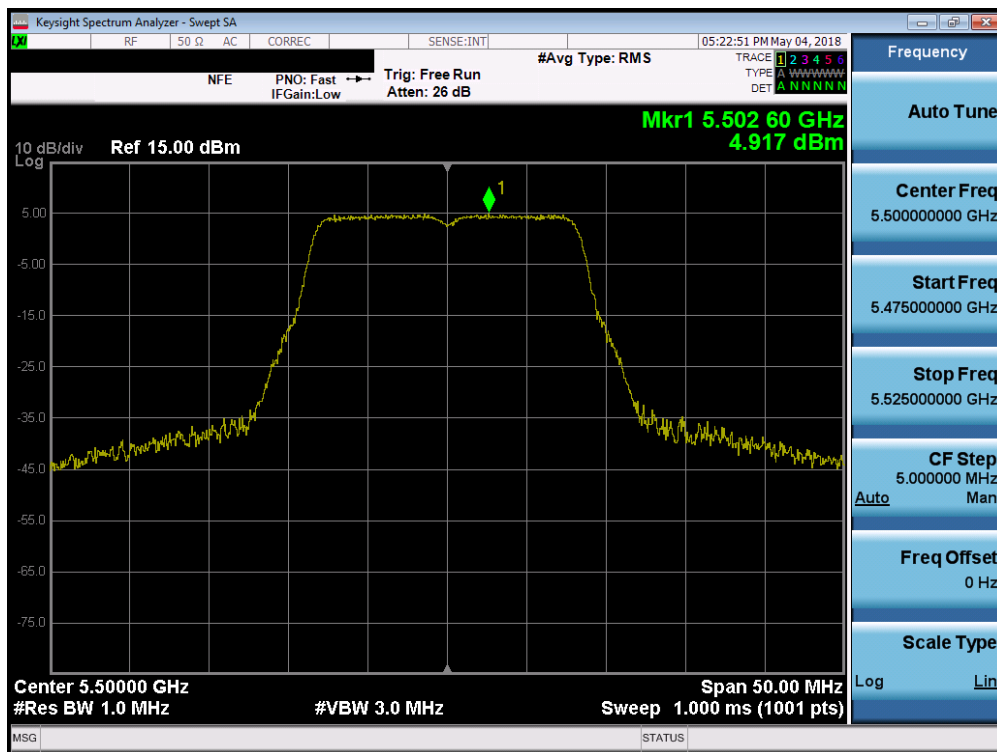


Plot 7-131. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 96 of 197

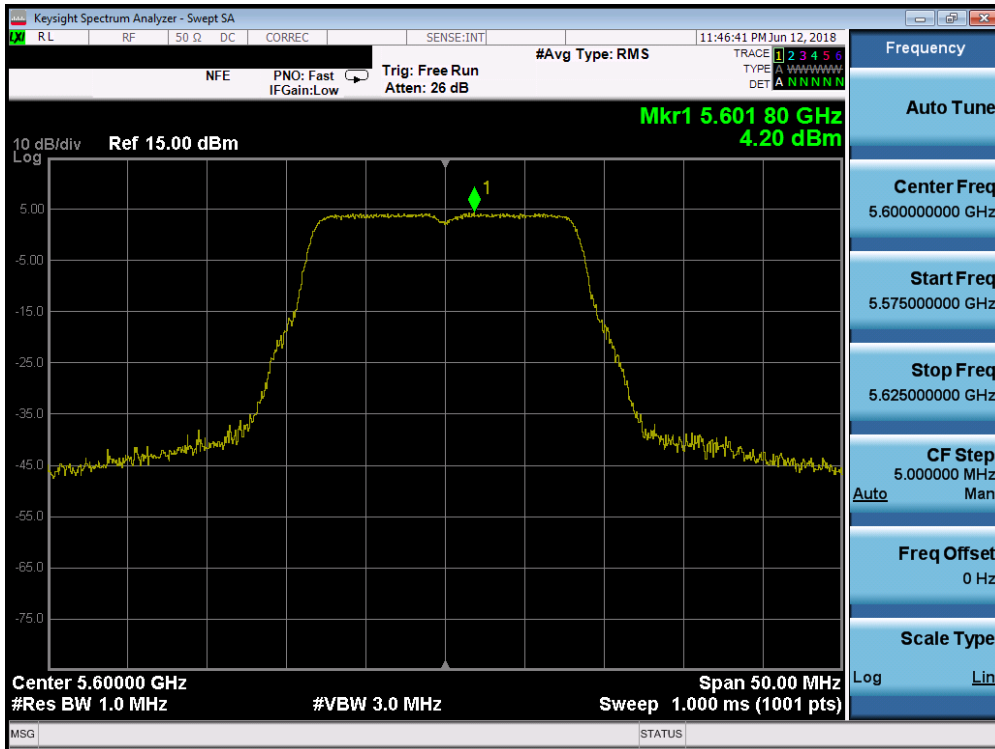


Plot 7-132. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

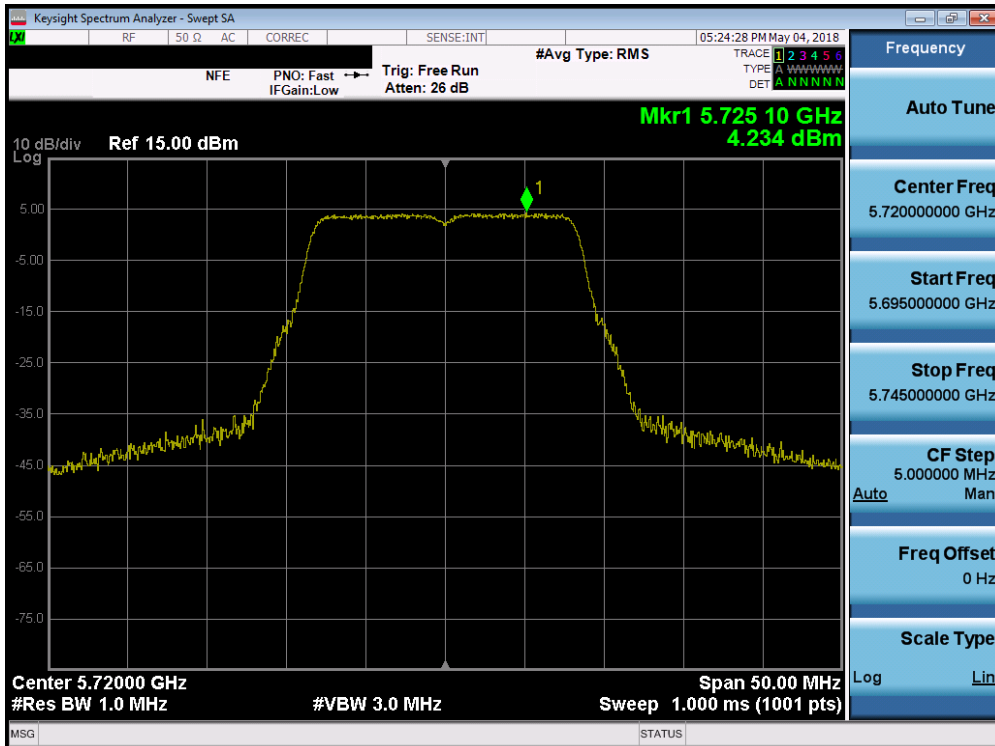


Plot 7-133. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 97 of 197

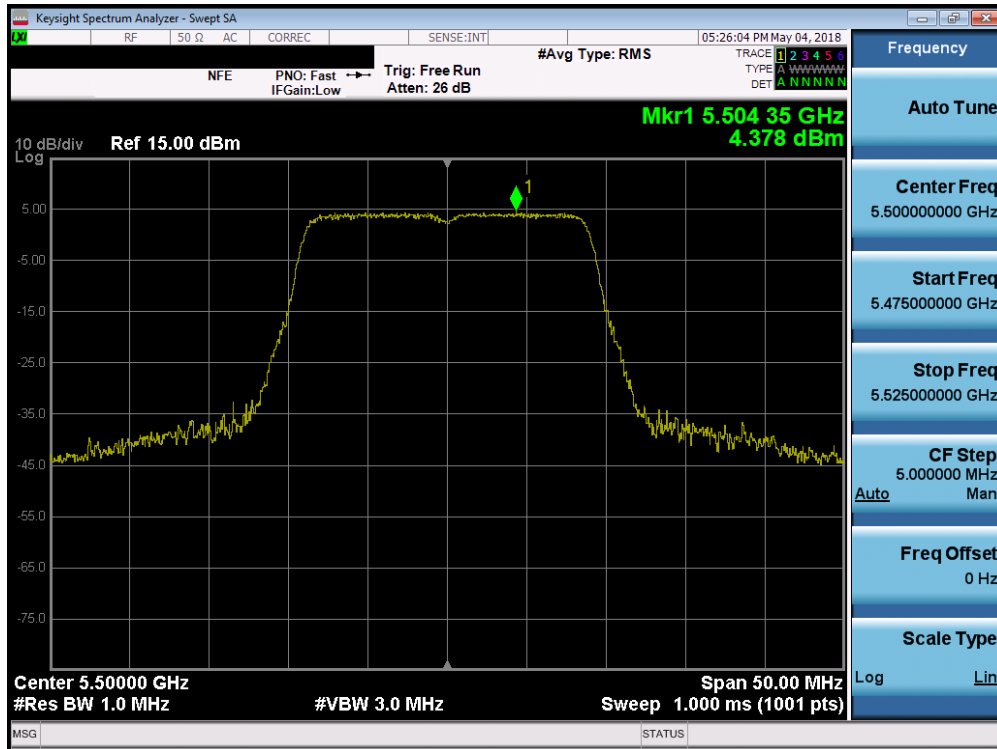


Plot 7-134. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 120)

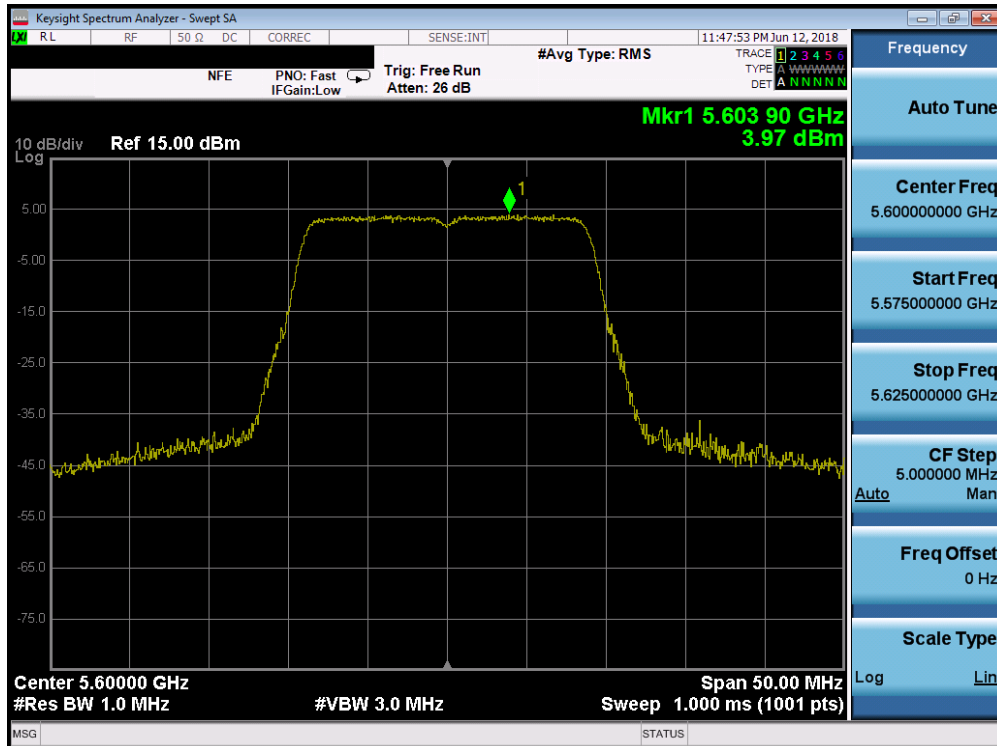


Plot 7-135. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 98 of 197

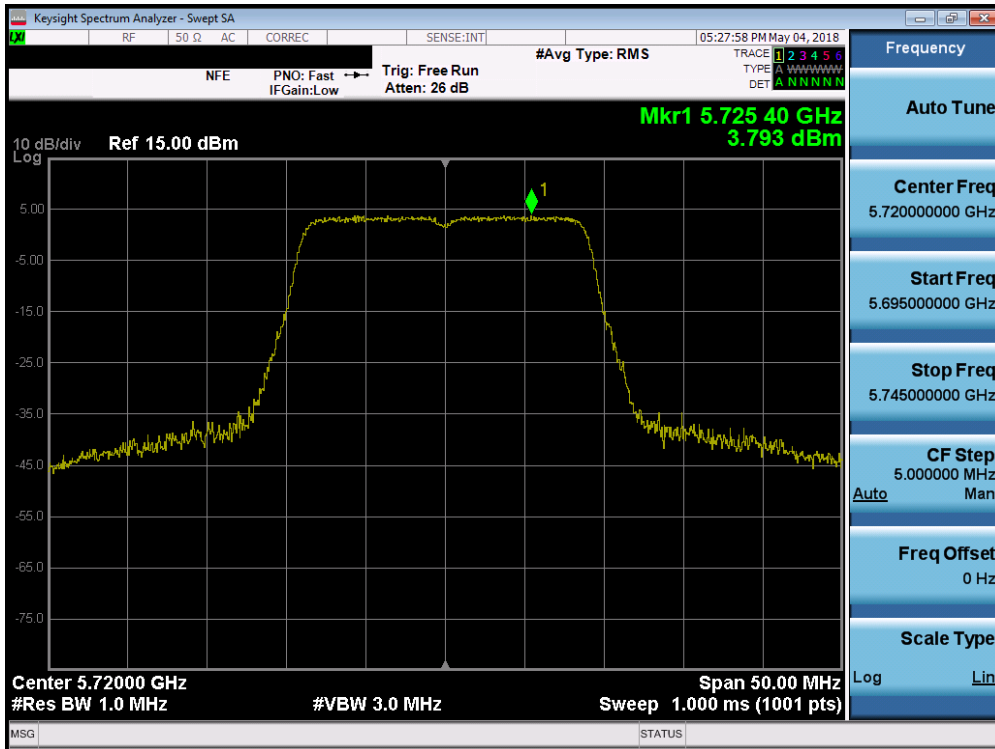


Plot 7-136. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

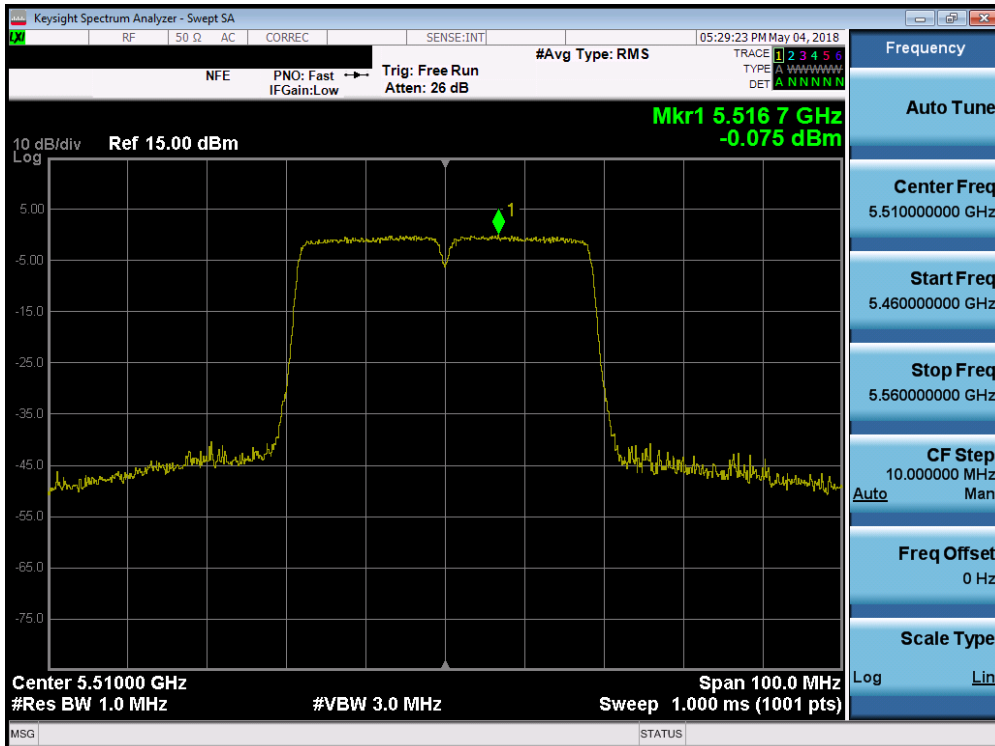


Plot 7-137. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 99 of 197

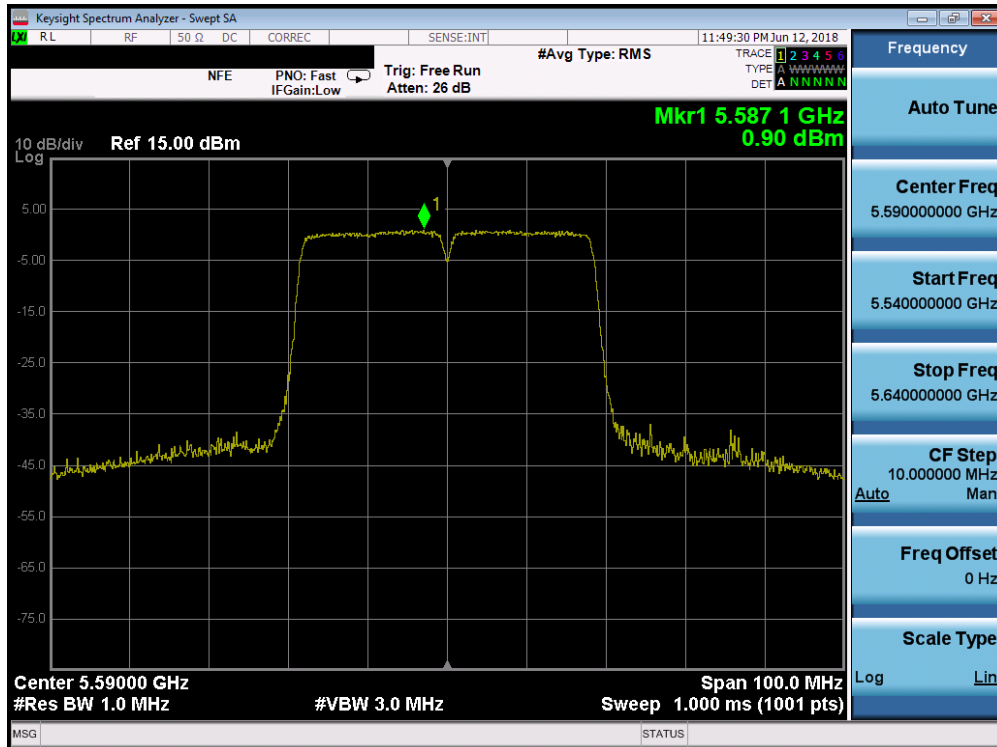


Plot 7-138. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

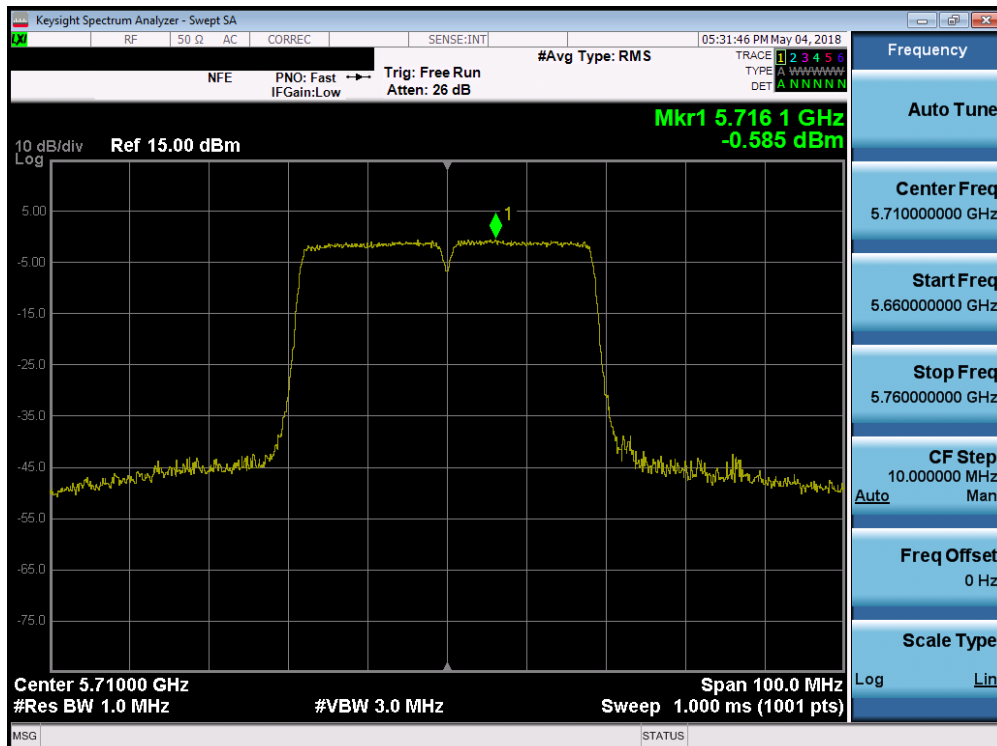


Plot 7-139. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 100 of 197



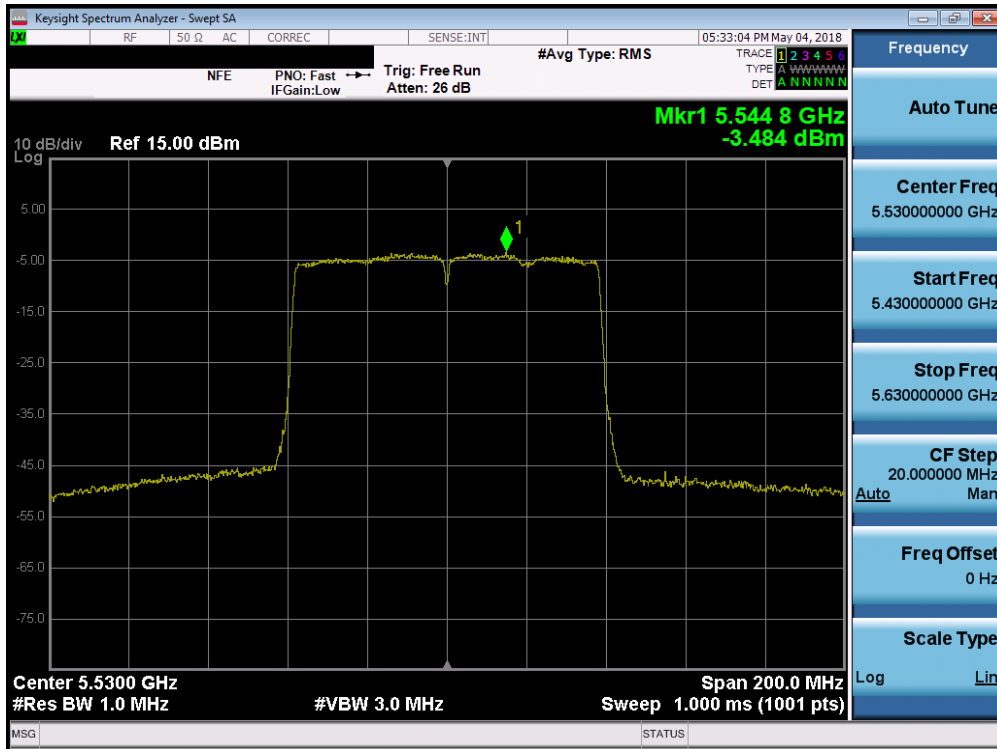
Plot 7-140. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)



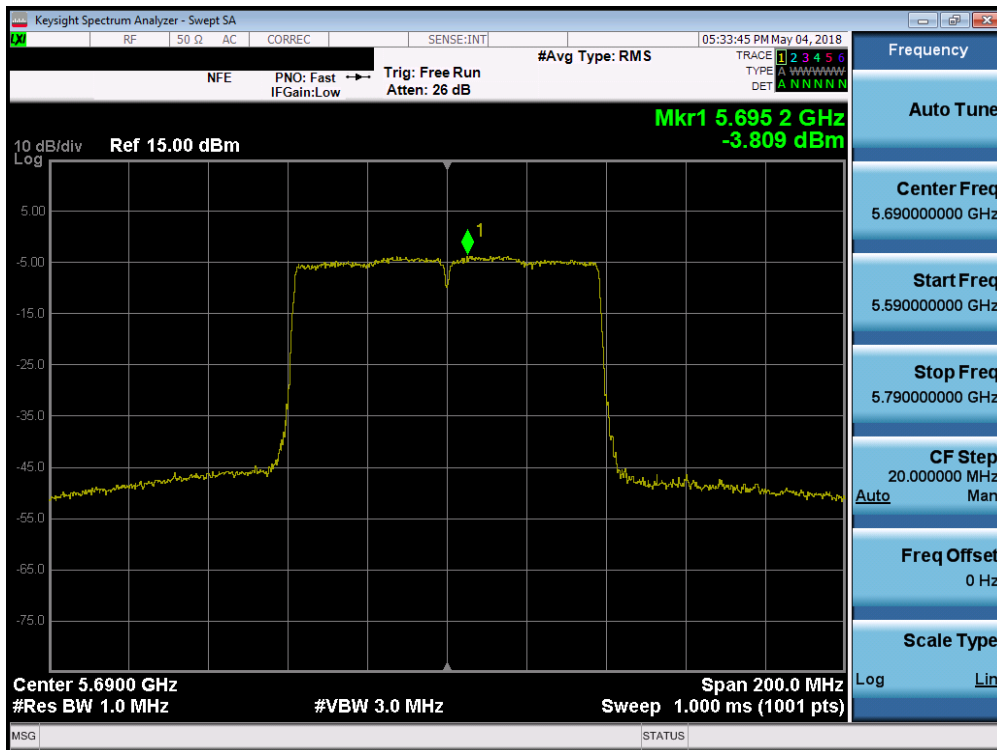
Plot 7-141. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 101 of 197





Plot 7-142. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

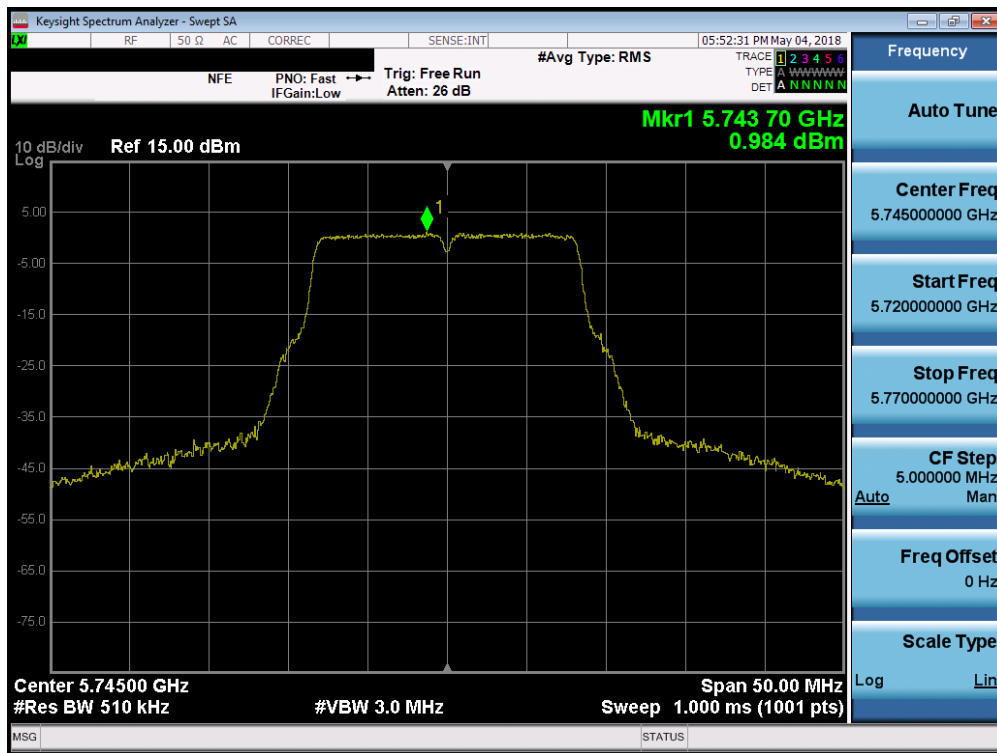


Plot 7-143. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 102 of 197

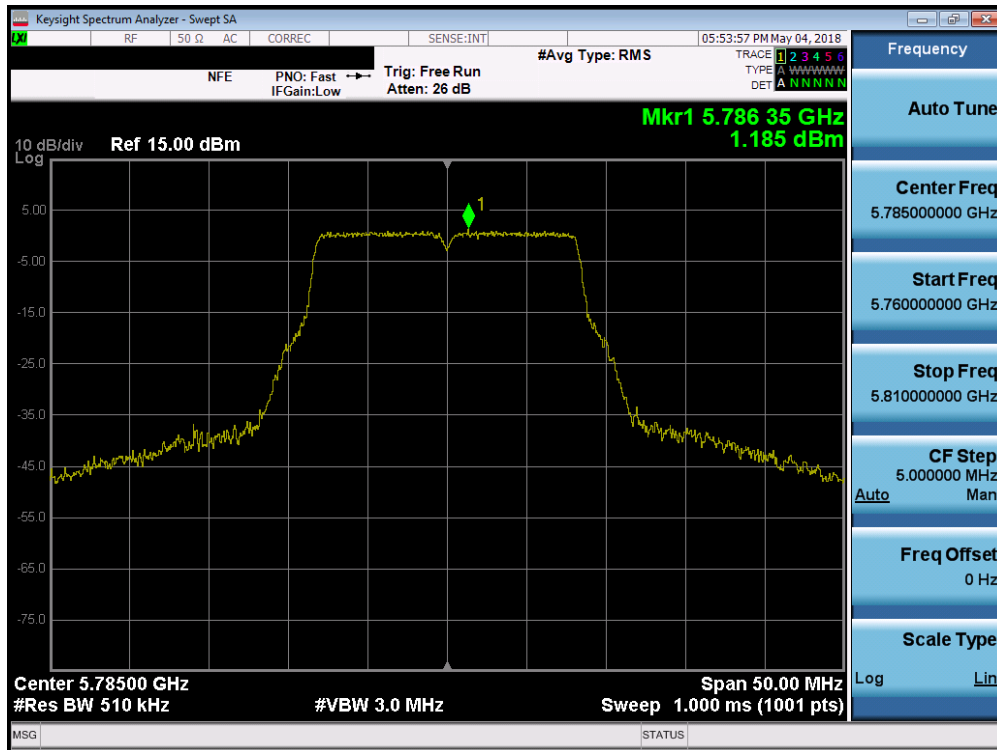
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
<b>Band 3</b>	5745	149	a	6	0.98	30.0	-29.02
	5785	157	a	6	1.19	30.0	-28.82
	5825	165	a	6	1.04	30.0	-28.96
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	0.63	30.0	-29.37
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	0.93	30.0	-29.07
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	1.05	30.0	-28.95
	5755	151	n (40MHz)	13.5/15 (MCS0)	-2.68	30.0	-32.68
	5795	159	n (40MHz)	13.5/15 (MCS0)	-3.50	30.0	-33.50
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-3.73	30.0	-33.73

**Table 7-23. Band 3 Conducted Power Spectral Density Measurements**

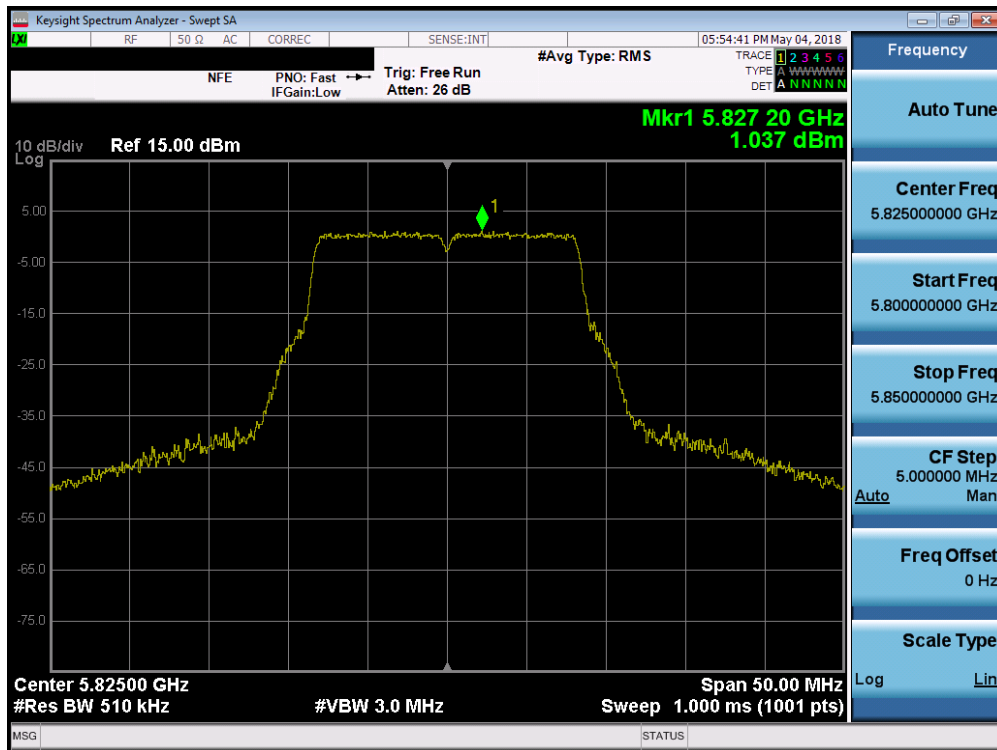


**Plot 7-144. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 149)**

FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 103 of 197	

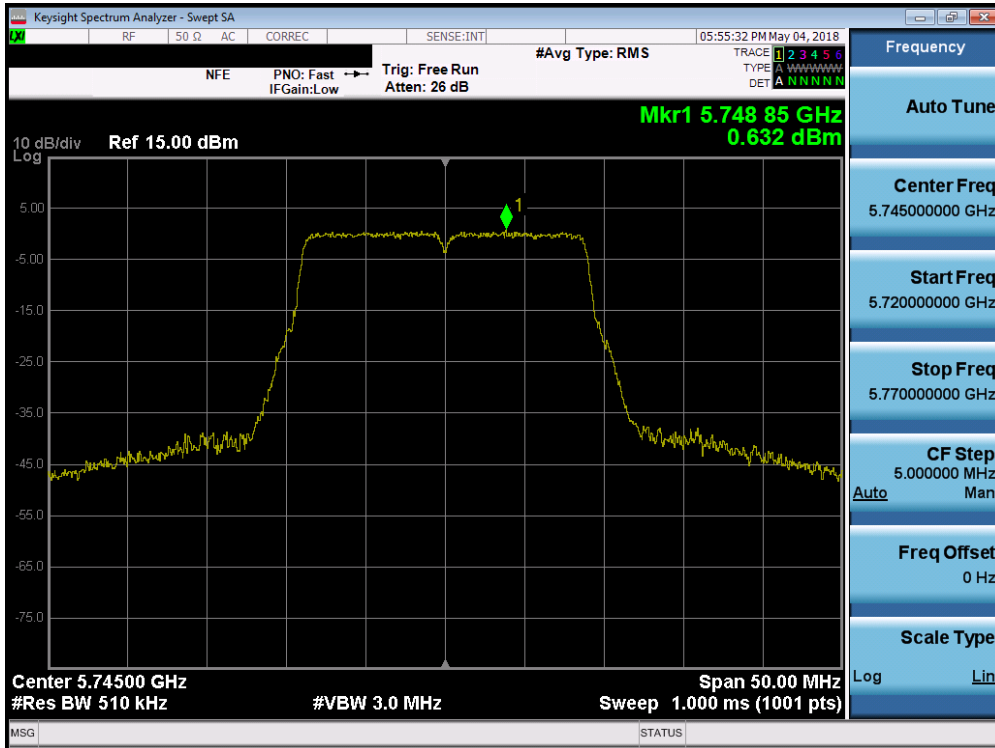


Plot 7-145. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 157)

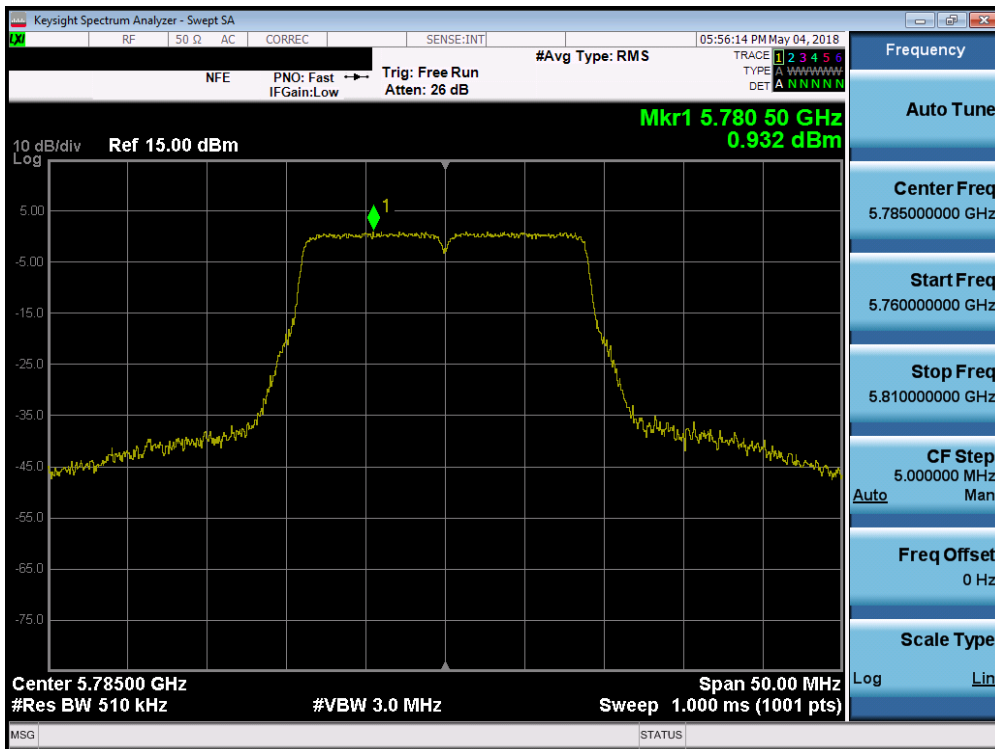


Plot 7-146. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 104 of 197

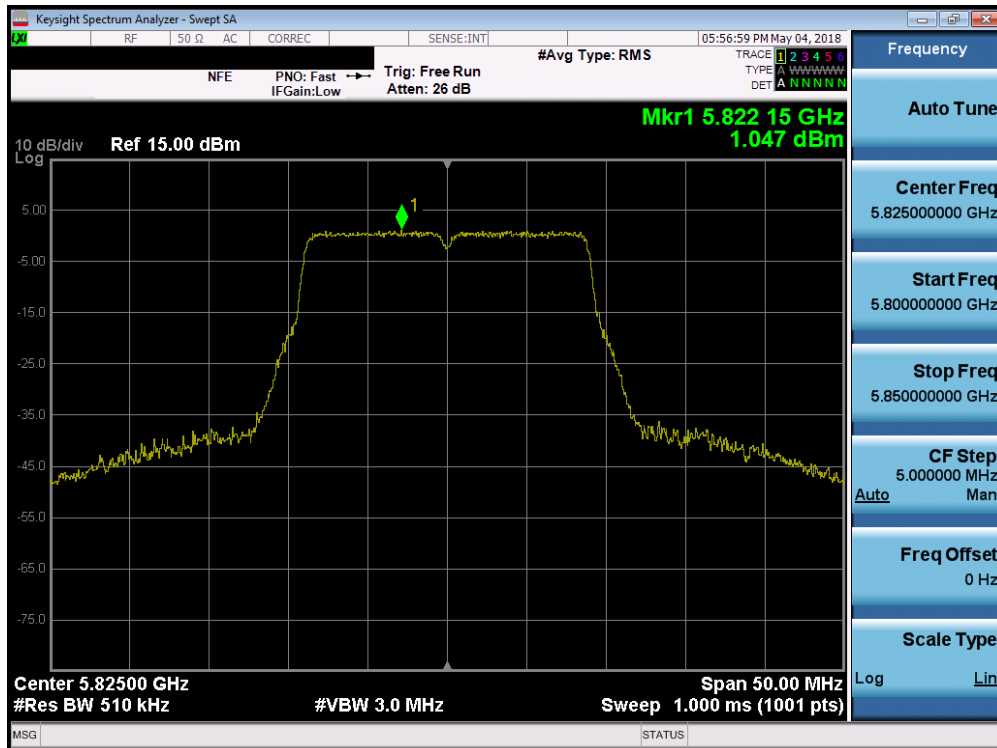


Plot 7-147. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

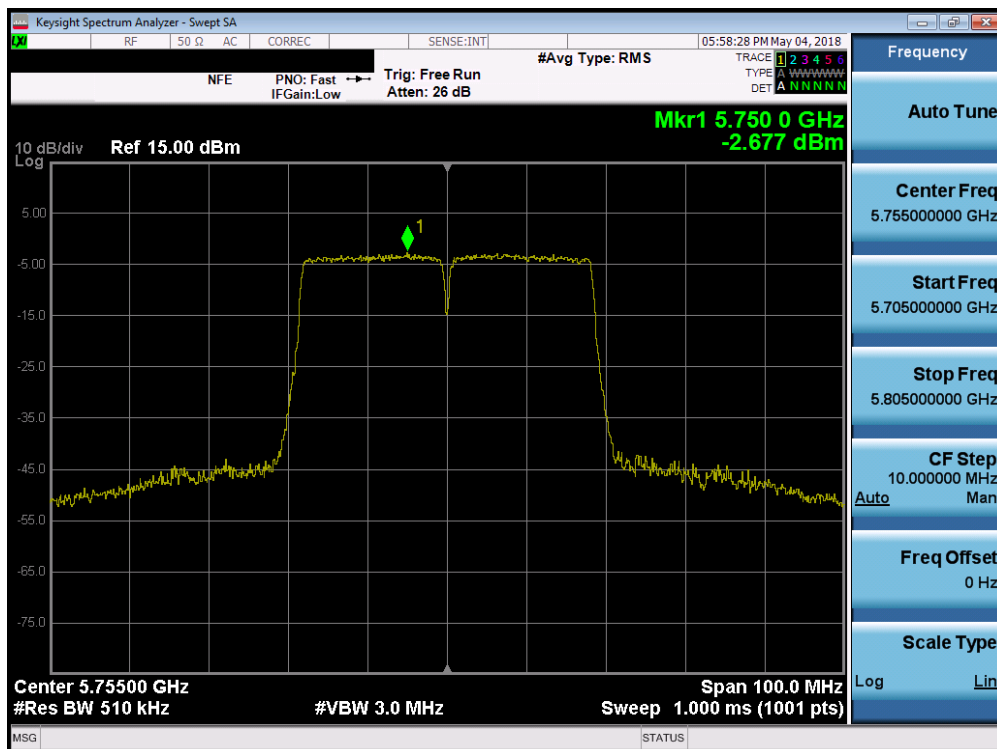


Plot 7-148. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 105 of 197

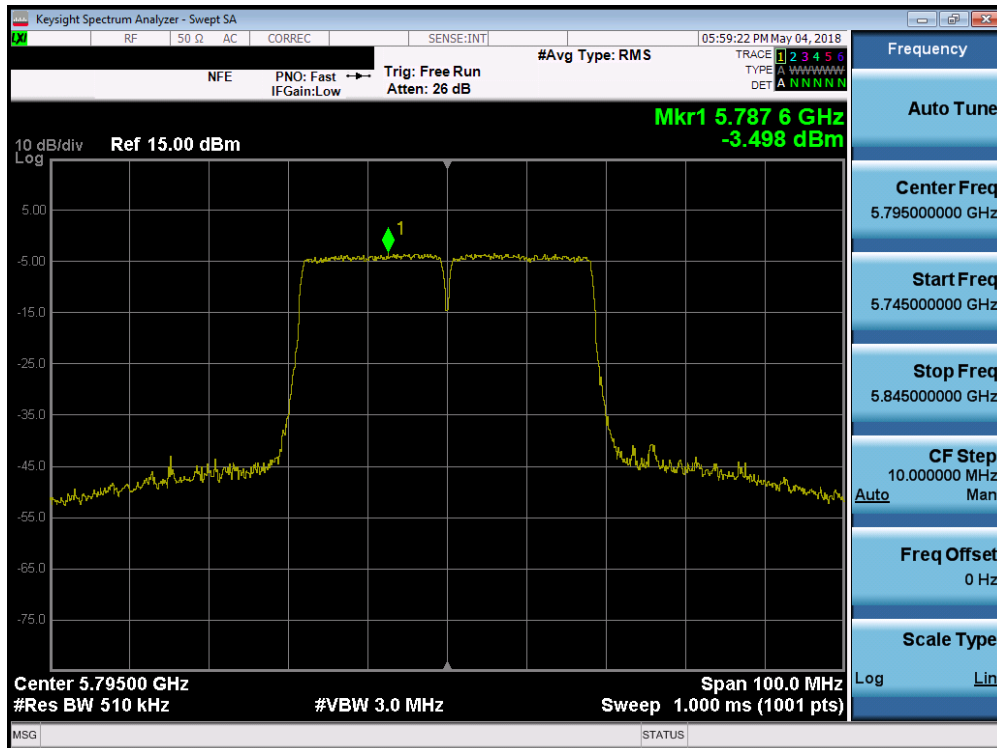


Plot 7-149. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

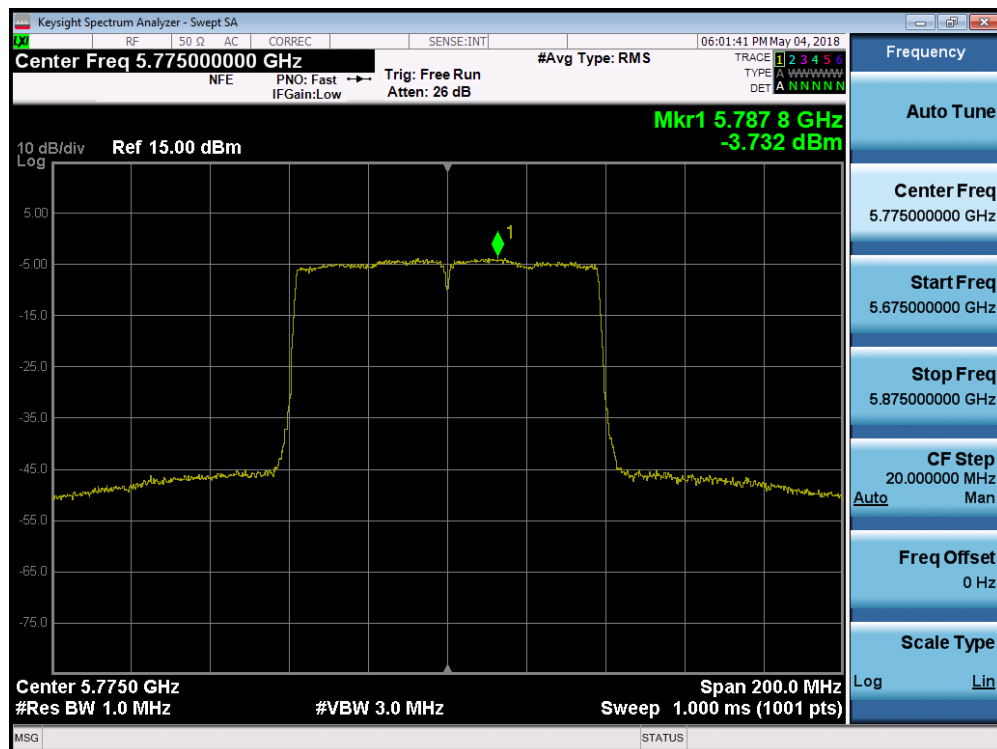


Plot 7-150. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 106 of 197



Plot 7-151. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 159)



Plot 7-152. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 107 of 197

## Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6.5/7.2 (MCS0)	3.66	2.77	6.25	11.0	-4.75
	5200	40	a	6.5/7.2 (MCS0)	4.18	3.84	7.02	11.0	-3.98
	5240	48	a	6.5/7.2 (MCS0)	4.70	4.29	7.51	11.0	-3.49
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	3.53	3.63	6.59	11.0	-4.41
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	3.69	3.70	6.71	11.0	-4.29
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	4.25	4.01	7.14	11.0	-3.86
	5190	38	n (40MHz)	13.5/15 (MCS0)	-0.82	-0.01	2.62	11.0	-8.38
	5230	46	n (40MHz)	13.5/15 (MCS0)	-0.49	0.56	3.08	11.0	-7.92
5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-4.76	-4.50	-1.62	11.0	-12.62	
Band 2A	5260	52	a	6.5/7.2 (MCS0)	4.38	3.90	7.15	11.0	-3.85
	5280	56	a	6.5/7.2 (MCS0)	4.18	3.66	6.93	11.0	-4.07
	5320	64	a	6.5/7.2 (MCS0)	4.29	4.13	7.22	11.0	-3.78
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	2.87	3.69	6.31	11.0	-4.69
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	2.89	3.71	6.33	11.0	-4.67
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	2.67	3.69	6.22	11.0	-4.78
	5270	54	n (40MHz)	13.5/15 (MCS0)	-0.13	-0.31	2.79	11.0	-8.21
	5310	62	n (40MHz)	13.5/15 (MCS0)	-0.25	-0.50	2.64	11.0	-8.36
5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-4.28	-4.44	-1.35	11.0	-12.35	
Band 2C	5500	100	a	6.5/7.2 (MCS0)	5.18	4.92	8.06	11.0	-2.94
	5600	120	a	6.5/7.2 (MCS0)	4.38	4.20	7.30	11.0	-3.70
	5720	144	a	6.5/7.2 (MCS0)	5.02	4.23	7.65	11.0	-3.35
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	4.87	4.38	7.64	11.0	-3.36
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	3.71	3.97	6.85	11.0	-4.15
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	5.02	3.79	7.46	11.0	-3.54
	5510	102	n (40MHz)	13.5/15 (MCS0)	0.80	-0.08	3.39	11.0	-7.61
	5590	118	n (40MHz)	13.5/15 (MCS0)	0.98	0.90	3.95	11.0	-7.05
	5710	142	n (40MHz)	13.5/15 (MCS0)	-0.06	-0.59	2.69	11.0	-8.31
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-3.97	-3.48	-0.71	11.0	-11.71
5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-4.03	-3.81	-0.91	11.0	-11.91	

Table 7-24. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6.5/7.2 (MCS0)	3.66	2.77	6.25	-5.06	1.19	10.0	-8.81
	5200	40	a	6.5/7.2 (MCS0)	4.18	3.84	7.02	-5.06	1.96	10.0	-8.04
	5240	48	a	6.5/7.2 (MCS0)	4.70	4.29	7.51	-4.32	3.18	10.0	-6.82
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	3.53	3.63	6.59	-5.06	1.53	10.0	-8.47
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	3.69	3.70	6.71	-5.06	1.65	10.0	-8.35
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	4.25	4.01	7.14	-4.32	2.82	10.0	-7.18
	5190	38	n (40MHz)	13.5/15 (MCS0)	-0.82	-0.01	2.62	-5.06	-2.44	10.0	-12.44
	5230	46	n (40MHz)	13.5/15 (MCS0)	-0.49	0.56	3.08	-4.32	-1.24	10.0	-11.24
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-4.76	-4.50	-1.62	-5.06	-6.68	10.0	-16.68

Table 7-25. Band 1 MIMO e.i.r.p. Conducted Power Spectral Density Measurements (ISED)

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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]	Antenn-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
<b>Band 3</b>	5745	149	a	6.5/7.2 (MCS0)	1.35	0.98	4.18	30.0	-25.82
	5785	157	a	6.5/7.2 (MCS0)	1.22	1.19	4.21	30.0	-25.79
	5825	165	a	6.5/7.2 (MCS0)	1.18	1.04	4.12	30.0	-25.88
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	0.93	0.63	3.79	30.0	-26.21
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	0.96	0.93	3.95	30.0	-26.05
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	1.17	1.05	4.12	30.0	-25.88
	5755	151	n (40MHz)	13.5/15 (MCS0)	-2.66	-2.68	0.34	30.0	-29.66
	5795	159	n (40MHz)	13.5/15 (MCS0)	-2.83	-3.50	-0.14	30.0	-30.14
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-6.47	-3.73	-1.88	30.0	-31.88

**Table 7-26. Band 3 MIMO Conducted Power Spectral Density Measurements**

**Note:**

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

**Sample MIMO Calculation:**

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 3.53 dBm for Antenna-1 and 3.63 dBm for Antenna-2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(3.53 \text{ dBm} + 3.63 \text{ dBm}) = (2.25 \text{ mW} + 2.31 \text{ mW}) = 4.56 \text{ mW} = 6.59 \text{ dBm}$$

**Sample e.i.r.p Power Spectral Density Calculation:**

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO power density was calculated to be 6.59 dBm with directional gain of -5.06 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{Directional Gain (dBi)}$$

$$6.59 \text{ dBm} + -5.06 \text{ dBi} = 1.53 \text{ dBm}$$

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## 7.6 Radiated Spurious Emission Measurements – Above 1GHz

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

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.***

***For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.***

***For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.***

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-27 per Section 15.209 and RSS-Gen (8.9).***

Frequency	Field Strength [ $\mu\text{V/m}$ ]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-27. Radiated Limits

### Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5  
KDB 789033 D02 v02r01 – Section G

### Test Settings

#### Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

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### Peak Measurements above 1GHz

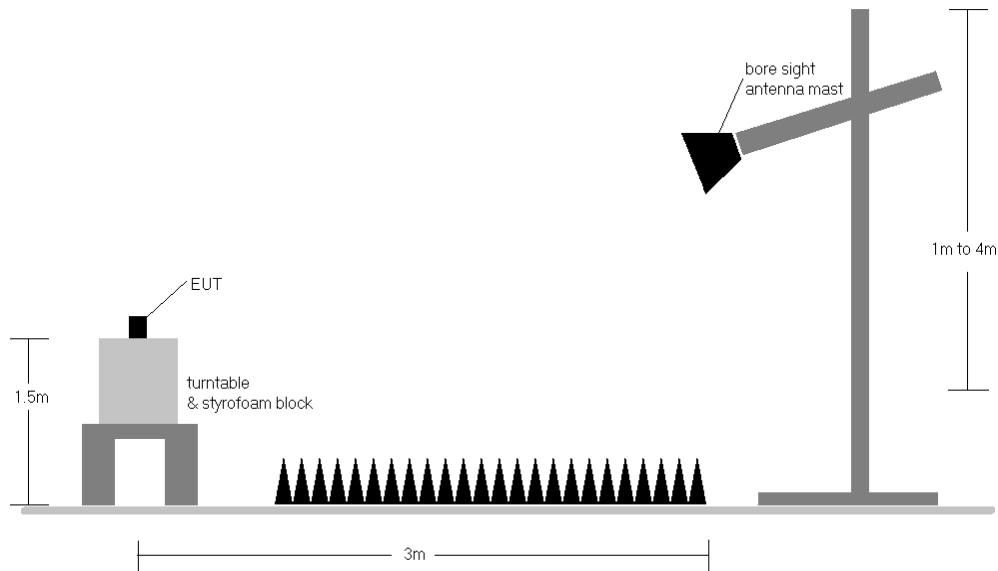
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

### Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-5. Test Instrument & Measurement Setup**

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**Test Notes**

1. All emissions that lie in the restricted bands (denoted by a \* next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-27.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-27. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

**Sample Calculations**

**Determining Spurious Emissions Levels**

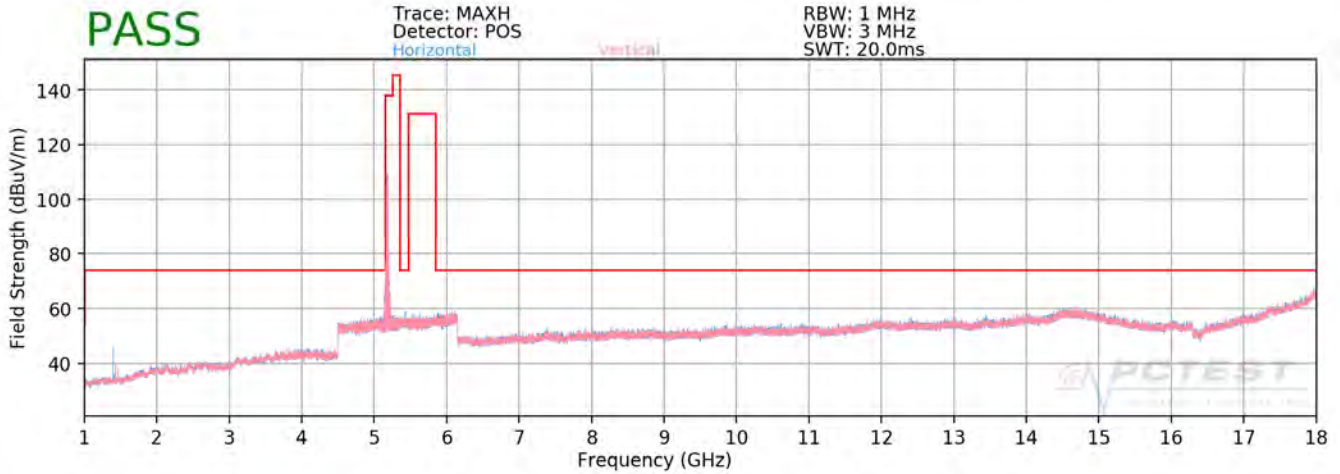
- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

**Radiated Band Edge Measurement Offset**

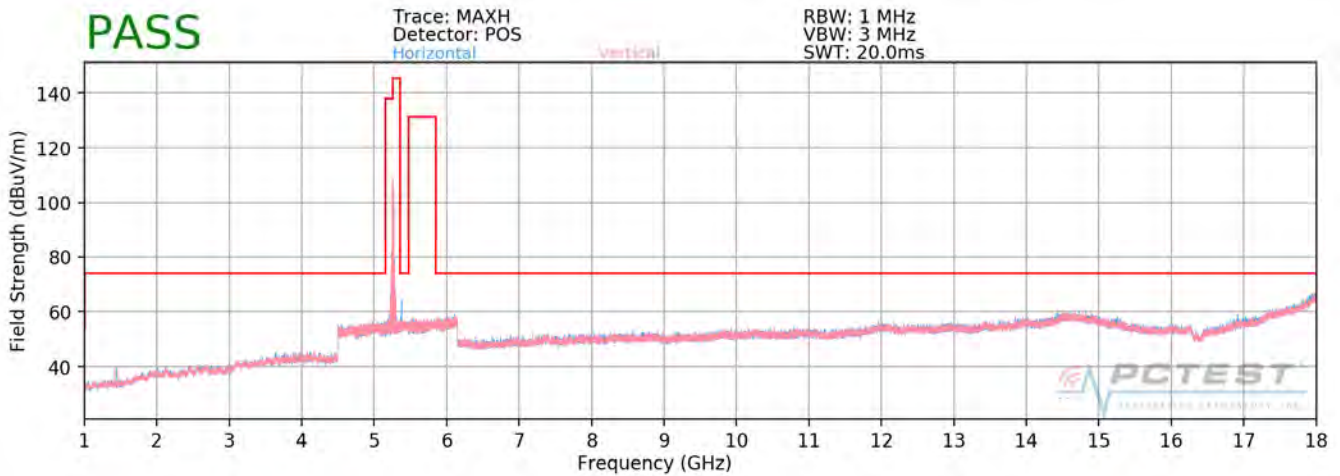
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:  
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Pre-amplifier Gain

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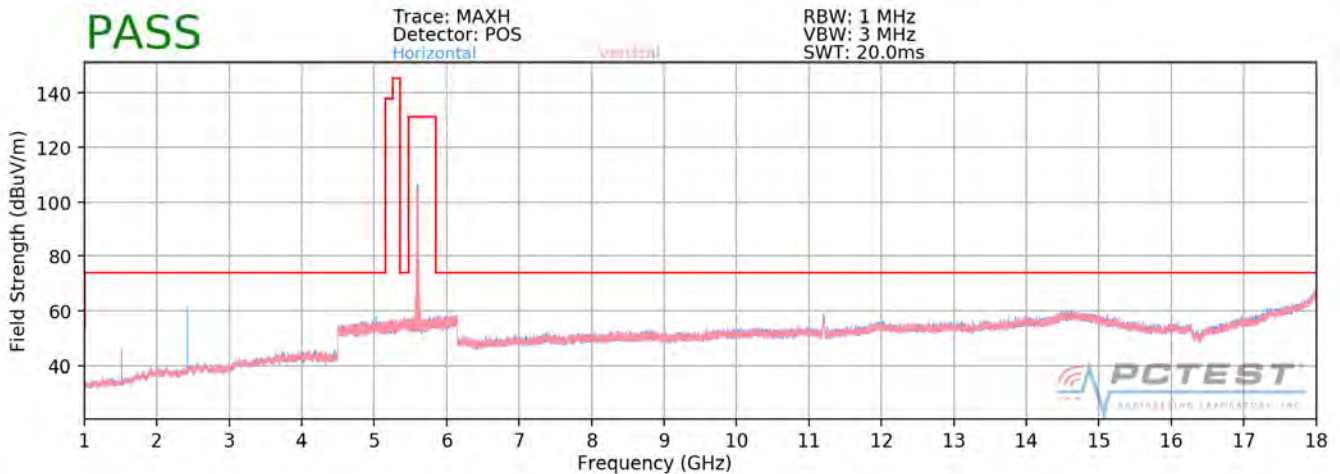
### 7.6.1 Antenna-1 Radiated Spurious Emission Measurements



Plot 7-153. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40)

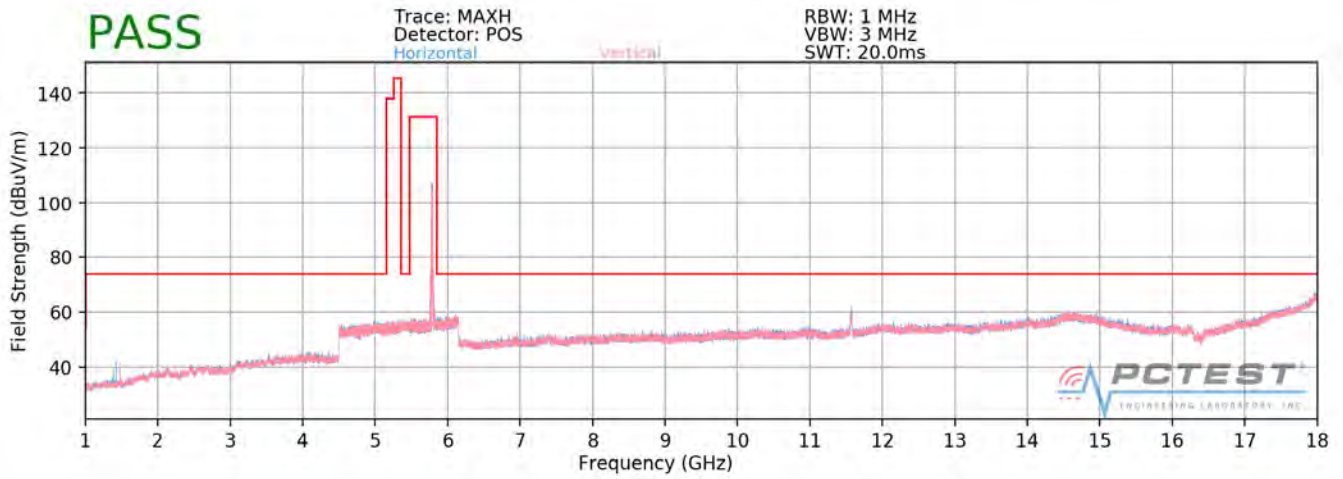


Plot 7-154. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56)



Plot 7-155. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120)

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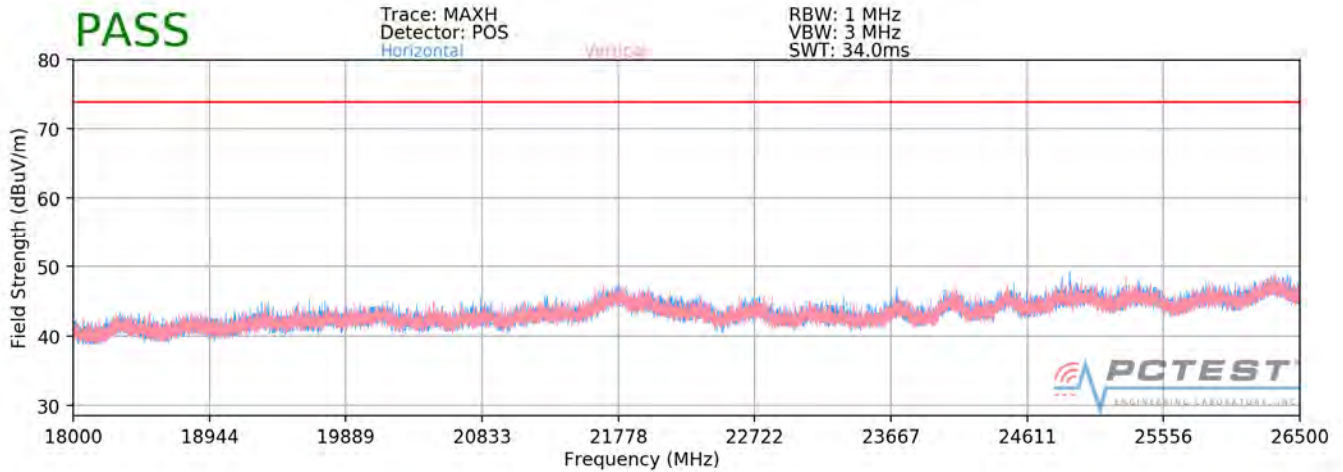


**Plot 7-156. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157)**

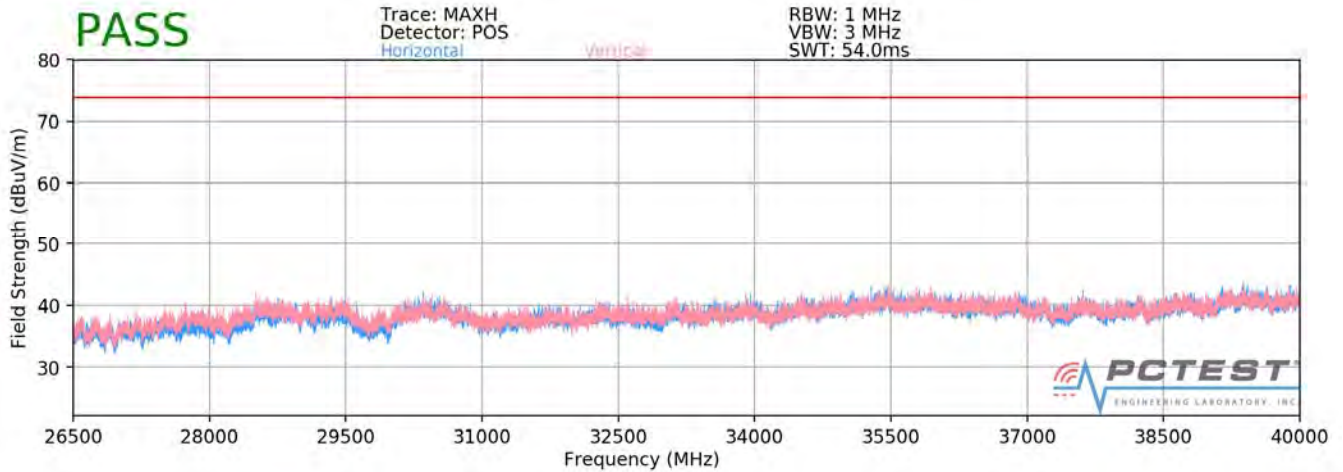
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### Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



**Plot 7-157. Radiated Spurious Plot 18GHz - 26.5GHz (802.11a)**



**Plot 7-158. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a)**

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## Antenna-1 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	112	338	-64.98	11.48	0.00	53.50	68.20	-14.70
* 15540.00	Average	H	107	333	-79.02	13.68	0.00	41.66	53.98	-12.32
* 15540.00	Peak	H	107	333	-67.62	13.68	0.00	53.06	73.98	-20.92
* 20720.00	Average	H	-	-	-71.42	7.94	-9.54	33.98	53.98	-20.00
* 20720.00	Peak	H	-	-	-61.32	7.94	-9.54	44.08	73.98	-29.90
25900.00	Peak	H	-	-	-58.49	8.46	-9.54	47.43	68.20	-20.77

Table 7-28. Radiated Measurements

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	100	10	-66.77	11.67	0.00	51.90	68.20	-16.30
* 15600.00	Average	H	343	16	-79.13	13.27	0.00	41.14	53.98	-12.84
* 15600.00	Peak	H	343	16	-67.51	13.27	0.00	52.76	73.98	-21.22
* 20800.00	Average	H	-	-	-71.37	7.95	-9.54	34.04	53.98	-19.94
* 20800.00	Peak	H	-	-	-60.97	7.95	-9.54	44.44	73.98	-29.54
26000.00	Peak	H	-	-	-58.57	8.60	-9.54	47.49	68.20	-20.71

Table 7-29. Radiated Measurements

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Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	115	368	-66.95	11.70	0.00	51.75	68.20	-16.45
* 15720.00	Average	H	104	32	-79.25	12.83	0.00	40.58	53.98	-13.40
* 15720.00	Peak	H	104	32	-67.52	12.83	0.00	52.31	73.98	-21.67
* 20960.00	Average	H	-	-	-71.80	7.91	-9.54	33.57	53.98	-20.41
* 20960.00	Peak	H	-	-	-61.14	7.91	-9.54	44.23	73.98	-29.75
26200.00	Peak	H	-	-	-57.86	8.62	-9.54	48.22	68.20	-19.98

**Table 7-30. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	131	332	-67.03	11.48	0.00	51.45	68.20	-16.75
* 15540.00	Average	H	265	263	-79.11	13.68	0.00	41.57	53.98	-12.41
* 15540.00	Peak	H	265	263	-66.47	13.68	0.00	54.21	73.98	-19.77
* 20720.00	Average	H	-	-	-71.66	7.94	-9.54	33.74	53.98	-20.24
* 20720.00	Peak	H	-	-	-60.17	7.94	-9.54	45.23	73.98	-28.75
25900.00	Peak	H	-	-	-57.98	8.46	-9.54	47.94	68.20	-20.26

**Table 7-31. Radiated Measurements with WCP**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
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Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	104	4	-66.96	11.68	0.00	51.72	68.20	-16.48
* 15780.00	Average	H	-	-	-79.66	12.91	0.00	40.25	53.98	-13.73
* 15780.00	Peak	H	-	-	-68.07	12.91	0.00	51.84	73.98	-22.14
* 21040.00	Average	H	-	-	-71.39	7.92	-9.54	33.99	53.98	-19.99
* 21040.00	Peak	H	-	-	-61.21	7.92	-9.54	44.17	73.98	-29.81
26300.00	Peak	H	-	-	-57.53	8.73	-9.54	48.66	68.20	-19.54

**Table 7-32. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	177	4	-66.57	11.56	0.00	51.99	68.20	-16.21
* 15840.00	Average	H	-	-	-79.81	12.86	0.00	40.05	53.98	-13.93
* 15840.00	Peak	H	-	-	-68.60	12.86	0.00	51.26	73.98	-22.72
* 21120.00	Average	H	-	-	-71.09	7.96	-9.54	34.33	53.98	-19.65
* 21120.00	Peak	H	-	-	-59.54	7.96	-9.54	45.88	73.98	-28.10
26400.00	Peak	H	-	-	-58.62	8.94	-9.54	47.78	68.20	-20.42

**Table 7-33. Radiated Measurements**

FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 118 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	-	-	-79.69	11.80	0.00	39.11	53.98	-14.87
* 10640.00	Peak	H	-	-	-67.73	11.80	0.00	51.07	73.98	-22.91
* 15960.00	Average	H	100	334	-79.10	13.23	0.00	41.13	53.98	-12.84
* 15960.00	Peak	H	100	334	-66.90	13.23	0.00	53.33	73.98	-20.64
* 21280.00	Average	H	-	-	-70.58	8.04	-9.54	34.92	53.98	-19.06
* 21280.00	Peak	H	-	-	-59.40	8.04	-9.54	46.10	73.98	-27.88
26600.00	Peak	H	-	-	-49.95	-8.30	-9.54	39.20	68.20	-29.00

**Table 7-34. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	-	-	-79.98	11.80	0.00	38.82	53.98	-15.16
* 10640.00	Peak	H	-	-	-68.15	11.80	0.00	50.65	73.98	-23.33
* 15960.00	Average	H	-	-	-79.28	13.23	0.00	40.95	53.98	-13.02
* 15960.00	Peak	H	-	-	-66.34	13.23	0.00	53.89	73.98	-20.08
* 21280.00	Average	H	-	-	-70.61	8.04	-9.54	34.89	53.98	-19.09
* 21280.00	Peak	H	-	-	-59.57	8.04	-9.54	45.93	73.98	-28.05
26600.00	Peak	H	-	-	-48.82	-8.30	-9.54	40.33	68.20	-27.87

**Table 7-35. Radiated Measurements with WCP**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 119 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	159	4	-73.14	12.04	0.00	45.90	53.98	-8.08
* 11000.00	Peak	H	159	4	-59.37	12.04	0.00	59.67	73.98	-14.31
16500.00	Peak	H	199	368	-67.29	12.28	0.00	51.99	68.20	-16.21
22000.00	Peak	H	-	-	-59.40	8.43	-9.54	46.48	68.20	-21.72
27500.00	Peak	H	-	-	-48.38	-8.80	-9.54	40.28	68.20	-27.92

**Table 7-36. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	144	7	-68.86	11.28	0.00	49.42	53.98	-4.56
* 11200.00	Peak	H	144	7	-56.58	11.28	0.00	61.70	73.98	-12.28
16800.00	Peak	H	-	-	-66.82	13.32	0.00	53.50	68.20	-14.70
* 22400.00	Average	H	-	-	-70.82	8.11	-9.54	34.75	53.98	-19.23
* 22400.00	Peak	H	-	-	-60.63	8.11	-9.54	44.94	73.98	-29.04
28000.00	Peak	H	-	-	-48.08	-9.26	-9.54	40.12	68.20	-28.08

**Table 7-37. Radiated Measurements**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 120 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	109	11	-68.24	11.68	0.00	50.44	53.98	-3.54
* 11440.00	Peak	H	109	11	-56.22	11.68	0.00	62.46	73.98	-11.52
17160.00	Peak	H	-	-	-67.62	15.62	0.00	55.00	68.20	-13.20
* 22880.00	Average	H	-	-	-71.70	8.28	-9.54	34.04	53.98	-19.94
* 22880.00	Peak	H	-	-	-60.99	8.28	-9.54	44.75	73.98	-29.23
28600.00	Peak	H	-	-	-46.59	-9.08	-9.54	41.79	68.20	-26.41

**Table 7-38. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	126	332	-71.63	11.68	0.00	47.05	53.98	-6.93
* 11440.00	Peak	H	126	332	-58.93	11.68	0.00	59.75	73.98	-14.23
17160.00	Peak	H	-	-	-68.27	15.62	0.00	54.35	68.20	-13.85
* 22880.00	Average	H	-	-	-70.72	8.28	-9.54	35.02	53.98	-18.96
* 22880.00	Peak	H	-	-	-59.25	8.28	-9.54	46.49	73.98	-27.49
28600.00	Peak	H	-	-	-45.92	-9.08	-9.54	42.46	68.20	-25.74

**Table 7-39. Radiated Measurements with WCP**

FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 121 of 197	

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
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	115	6	-69.41	11.70	0.00	49.29	53.98	-4.69
* 11490.00	Peak	H	115	6	-56.74	11.70	0.00	61.96	73.98	-12.02
17235.00	Peak	H	-	-	-67.91	17.09	0.00	56.18	68.20	-12.02
* 22980.00	Average	H	-	-	-71.50	8.16	-9.54	34.12	53.98	-19.86
* 22980.00	Peak	H	-	-	-61.46	8.16	-9.54	44.16	73.98	-29.82
28725.00	Peak	H	-	-	-48.05	-9.24	-9.54	40.17	68.20	-28.03

**Table 7-40. Radiated Measurements**

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
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	109	4	-69.11	11.91	0.00	49.80	53.98	-4.18
* 11570.00	Peak	H	109	4	-56.83	11.91	0.00	62.08	73.98	-11.90
17355.00	Peak	H	-	-	-68.04	18.72	0.00	57.68	68.20	-10.52
23140.00	Peak	H	-	-	-60.82	8.37	-9.54	45.01	68.20	-23.19
28925.00	Peak	H	-	-	-47.65	-9.65	-9.54	40.16	68.20	-28.04

**Table 7-41. Radiated Measurements**

FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 122 of 197	



Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	100	10	-70.41	12.16	0.00	48.75	53.98	-5.23
* 11650.00	Peak	H	100	10	-58.47	12.16	0.00	60.69	73.98	-13.29
17475.00	Peak	H	-	-	-68.31	18.73	0.00	57.42	68.20	-10.78
23300.00	Peak	H	-	-	-60.67	8.50	-9.54	45.29	68.20	-22.91
29125.00	Peak	H	-	-	-46.22	-9.87	-9.54	41.37	68.20	-26.83

**Table 7-42. Radiated Measurements**

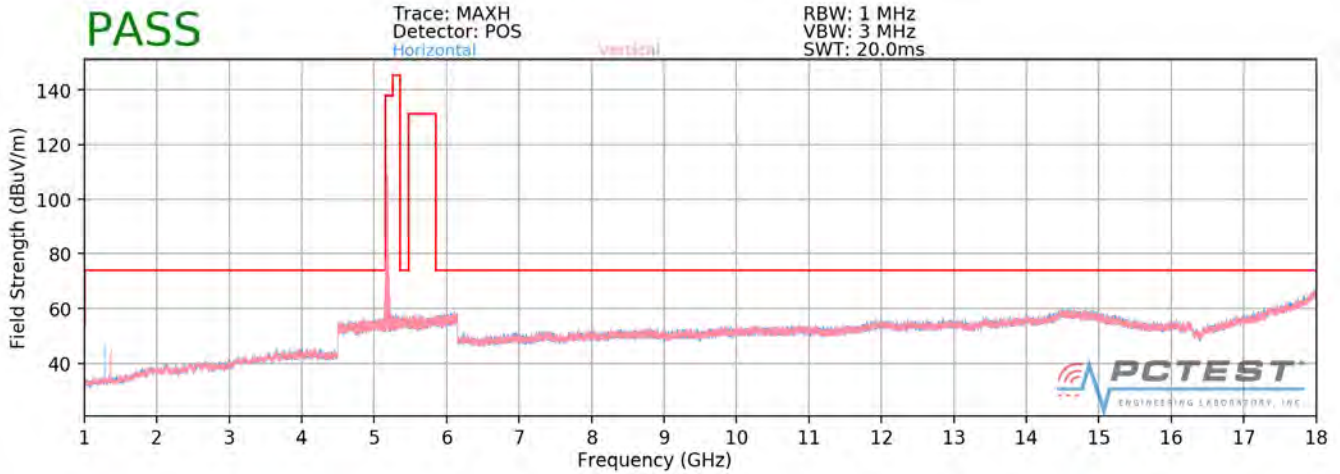
Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5785MHz  
 Channel: 157

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	102	334	-70.18	11.91	0.00	48.73	53.98	-5.25
* 11570.00	Peak	H	102	334	-56.97	11.91	0.00	61.94	73.98	-12.04
17355.00	Peak	H	-	-	-67.73	18.72	0.00	57.99	68.20	-10.21
23140.00	Peak	H	-	-	-60.43	8.37	-9.54	45.40	68.20	-22.80
28925.00	Peak	H	-	-	-46.48	-9.65	-9.54	41.33	68.20	-26.87

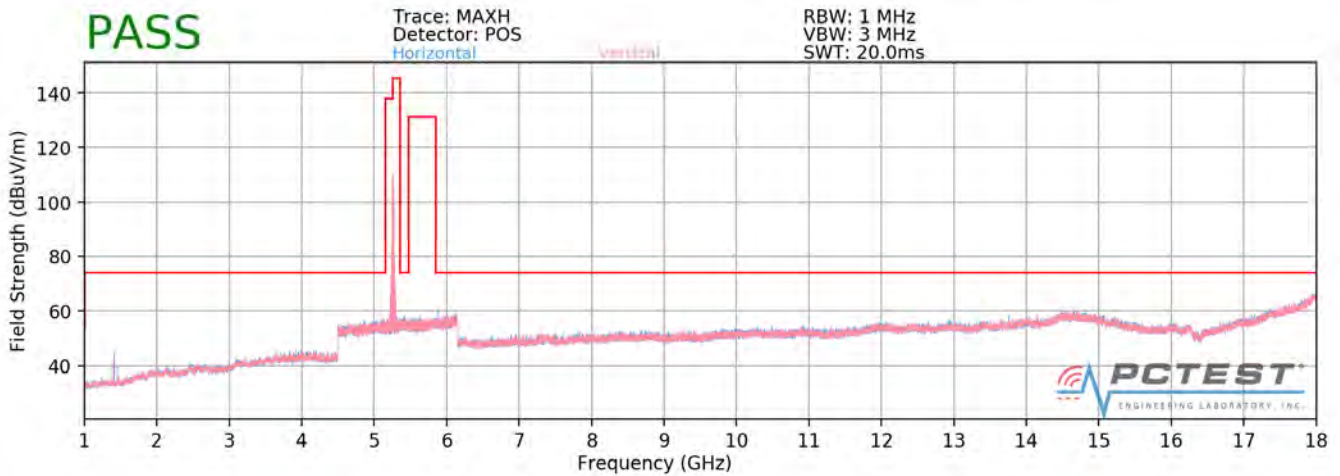
**Table 7-43. Radiated Measurements with WCP**

FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 123 of 197

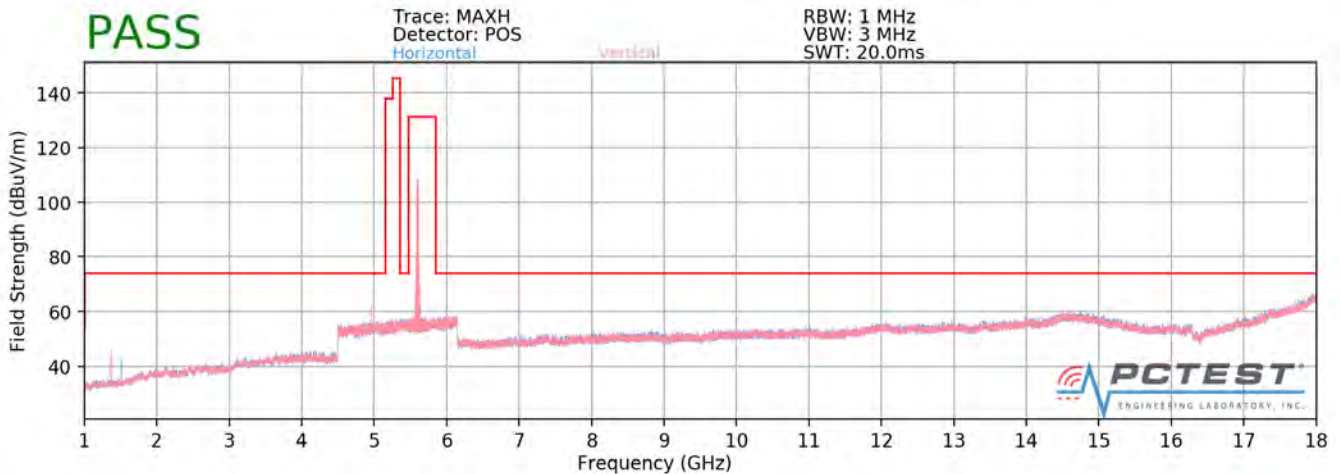
## 7.6.2 Antenna-2 Radiated Spurious Emission Measurements



Plot 7-159. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40)

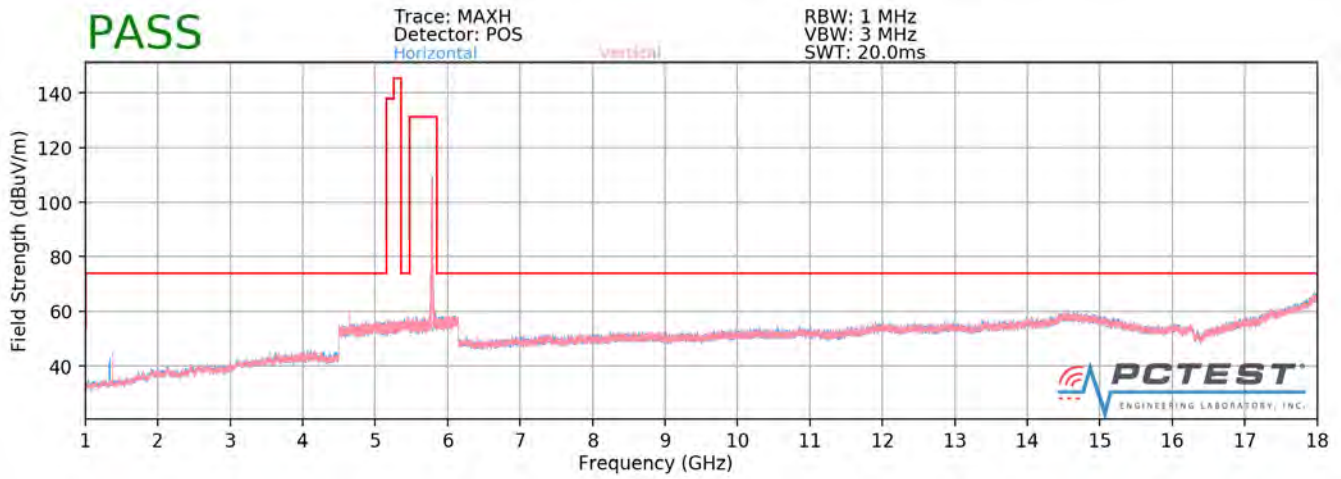


Plot 7-160. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56)



Plot 7-161. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120)

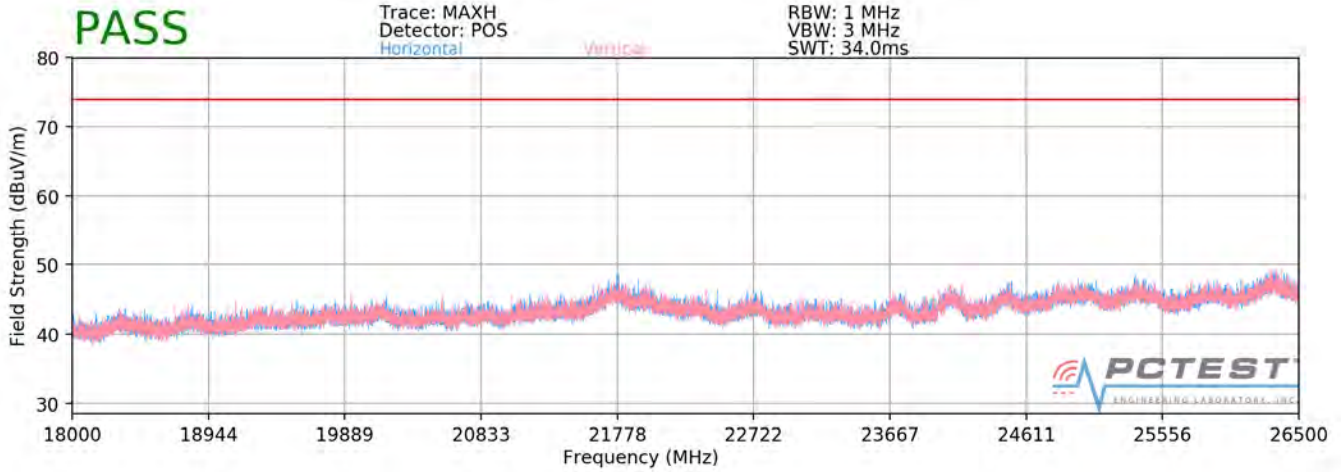
FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 124 of 197



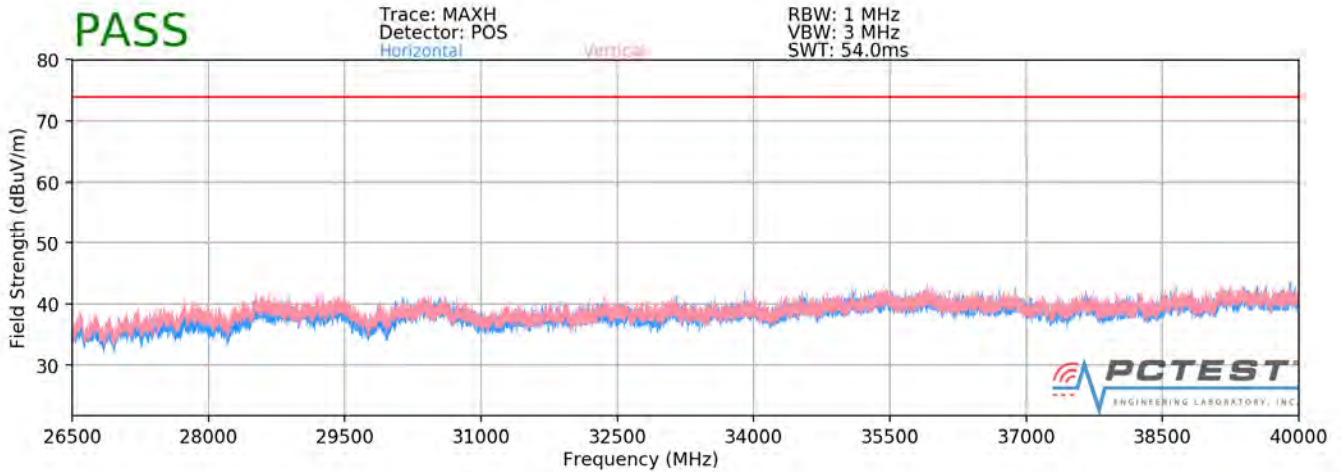
**Plot 7-162. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157)**

FCC ID: A3LSMN960U	<b>PCTEST</b> ENGINEERING LABORATORY, INC.		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset			Page 125 of 197

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



Plot 7-163. Radiated Spurious Plot above 18GHz - 26.5GHz (802.11a)



Plot 7-164. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a)

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 126 of 197	

## Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	204	357	-67.59	11.48	0.00	50.89	68.20	-17.31
* 15540.00	Average	H	320	332	-79.05	13.68	0.00	41.63	53.98	-12.35
* 15540.00	Peak	H	320	332	-67.52	13.68	0.00	53.16	73.98	-20.82
* 20720.00	Average	H	-	-	-70.72	7.94	-9.54	34.68	53.98	-19.30
* 20720.00	Peak	H	-	-	-60.43	7.94	-9.54	44.97	73.98	-29.01
25900.00	Peak	H	-	-	-58.59	8.46	-9.54	47.33	68.20	-20.87

**Table 7-44. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	163	358	-66.87	11.67	0.00	51.80	68.20	-16.40
* 15600.00	Average	H	-	-	-79.30	13.27	0.00	40.97	53.98	-13.01
* 15600.00	Peak	H	-	-	-67.23	13.27	0.00	53.04	73.98	-20.94
* 20800.00	Average	H	-	-	-70.71	7.95	-9.54	34.70	53.98	-19.28
* 20800.00	Peak	H	-	-	-60.34	7.95	-9.54	45.07	73.98	-28.91
26000.00	Peak	H	-	-	-58.49	8.60	-9.54	47.57	68.20	-20.63

**Table 7-45. Radiated Measurements**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 127 of 197	

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
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	139	15	-67.53	11.70	0.00	51.17	68.20	-17.03
* 15720.00	Average	H	103	338	-77.74	12.83	0.00	42.09	53.98	-11.89
* 15720.00	Peak	H	103	338	-65.79	12.83	0.00	54.04	73.98	-19.94
* 20960.00	Average	H	-	-	-71.44	7.91	-9.54	33.93	53.98	-20.05
* 20960.00	Peak	H	-	-	-60.69	7.91	-9.54	44.68	73.98	-29.30
26200.00	Peak	H	-	-	-58.67	8.62	-9.54	47.41	68.20	-20.79

**Table 7-46. Radiated Measurements**

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
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	-	-	-68.07	11.70	0.00	50.63	68.20	-17.57
* 15720.00	Average	H	113	344	-78.40	12.83	0.00	41.43	53.98	-12.55
* 15720.00	Peak	H	113	344	-65.36	12.83	0.00	54.47	73.98	-19.51
* 20960.00	Average	H	-	-	-71.87	7.91	-9.54	33.50	53.98	-20.48
* 20960.00	Peak	H	-	-	-60.72	7.91	-9.54	44.65	73.98	-29.33
26200.00	Peak	H	-	-	-57.49	8.62	-9.54	48.59	68.20	-19.61

**Table 7-47. Radiated Measurements with WCP**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 128 of 197	



Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	158	23	-67.67	11.68	0.00	51.01	68.20	-17.19
* 15780.00	Average	H	-	-	-79.71	12.91	0.00	40.20	53.98	-13.78
* 15780.00	Peak	H	-	-	-68.35	12.91	0.00	51.56	73.98	-22.42
* 21040.00	Average	H	-	-	-71.25	7.92	-9.54	34.13	53.98	-19.85
* 21040.00	Peak	H	-	-	-60.75	7.92	-9.54	44.63	73.98	-29.35
26300.00	Peak	H	-	-	-56.97	8.73	-9.54	49.22	68.20	-18.98

**Table 7-48. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	315	30	-67.91	11.56	0.00	50.65	68.20	-17.55
* 15840.00	Average	H	107	329	-78.89	12.86	0.00	40.97	53.98	-13.01
* 15840.00	Peak	H	107	329	-65.38	12.86	0.00	54.48	73.98	-19.50
* 21120.00	Average	H	-	-	-70.99	7.96	-9.54	34.43	53.98	-19.55
* 21120.00	Peak	H	-	-	-59.78	7.96	-9.54	45.64	73.98	-28.34
26400.00	Peak	H	-	-	-57.76	8.94	-9.54	48.64	68.20	-19.56

**Table 7-49. Radiated Measurements**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	-	-	-79.69	11.80	0.00	39.11	53.98	-14.87
* 10640.00	Peak	H	-	-	-67.89	11.80	0.00	50.91	73.98	-23.07
* 15960.00	Average	H	109	328	-78.70	13.23	0.00	41.53	53.98	-12.44
* 15960.00	Peak	H	109	328	-65.63	13.23	0.00	54.60	73.98	-19.37
* 21280.00	Average	H	-	-	-70.33	8.04	-9.54	35.17	53.98	-18.81
* 21280.00	Peak	H	-	-	-60.40	8.04	-9.54	45.10	73.98	-28.88
26600.00	Peak	H	-	-	-50.10	-8.30	-9.54	39.05	68.20	-29.15

**Table 7-50. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	-	-	-79.69	11.80	0.00	39.11	53.98	-14.87
* 10640.00	Peak	H	-	-	-68.34	11.80	0.00	50.46	73.98	-23.52
* 15960.00	Average	H	118	346	-78.74	13.23	0.00	41.49	53.98	-12.48
* 15960.00	Peak	H	118	346	-65.75	13.23	0.00	54.48	73.98	-19.49
* 21280.00	Average	H	-	-	-70.47	8.04	-9.54	35.03	53.98	-18.95
* 21280.00	Peak	H	-	-	-59.30	8.04	-9.54	46.20	73.98	-27.78
26600.00	Peak	H	-	-	-50.47	-8.30	-9.54	38.68	68.20	-29.52

**Table 7-51. Radiated Measurements with WCP**

FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 130 of 197	



Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	227	20	-78.00	12.04	0.00	41.04	53.98	-12.94
* 11000.00	Peak	H	227	20	-66.77	12.04	0.00	52.27	73.98	-21.71
16500.00	Peak	H	104	27	-63.78	12.28	0.00	55.50	68.20	-12.70
22000.00	Peak	H	-	-	-58.98	8.43	-9.54	46.90	68.20	-21.30
27500.00	Peak	H	-	-	-47.33	-8.80	-9.54	41.33	68.20	-26.87

**Table 7-52. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	120	17	-76.84	11.28	0.00	41.44	53.98	-12.54
* 11200.00	Peak	H	120	17	-65.14	11.28	0.00	53.14	73.98	-20.84
16800.00	Peak	H	100	3	-66.43	13.32	0.00	53.89	68.20	-14.31
* 22400.00	Average	H	-	-	-70.77	8.11	-9.54	34.80	53.98	-19.18
* 22400.00	Peak	H	-	-	-60.88	8.11	-9.54	44.69	73.98	-29.29
28000.00	Peak	H	-	-	-48.31	-9.26	-9.54	39.89	68.20	-28.31

**Table 7-53. Radiated Measurements**

FCC ID: A3LSMN960U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 131 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	116	302	-76.93	11.68	0.00	41.75	53.98	-12.23
* 11440.00	Peak	H	116	302	-65.05	11.68	0.00	53.63	73.98	-20.35
17160.00	Peak	H	144	1	-65.60	15.62	0.00	57.02	68.20	-11.18
* 22880.00	Average	H	-	-	-71.54	8.28	-9.54	34.20	53.98	-19.78
* 22880.00	Peak	H	-	-	-60.83	8.28	-9.54	44.91	73.98	-29.07
28600.00	Peak	H	-	-	-47.33	-9.08	-9.54	41.05	68.20	-27.15

**Table 7-54. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	144	316	-77.52	11.68	0.00	41.16	53.98	-12.82
* 11440.00	Peak	H	144	316	-66.34	11.68	0.00	52.34	73.98	-21.64
17160.00	Peak	H	168	106	-67.78	15.62	0.00	54.84	68.20	-13.36
* 22880.00	Average	H	-	-	-71.51	8.28	-9.54	34.23	53.98	-19.75
* 22880.00	Peak	H	-	-	-60.62	8.28	-9.54	45.12	73.98	-28.86
28600.00	Peak	H	-	-	-46.30	-9.08	-9.54	42.08	68.20	-26.12

**Table 7-55. Radiated Measurements with WCP**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 132 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	237	27	-77.94	11.70	0.00	40.76	53.98	-13.22
* 11490.00	Peak	H	237	27	-66.13	11.70	0.00	52.57	73.98	-21.41
17235.00	Peak	H	135	360	-65.83	17.09	0.00	58.26	68.20	-9.94
* 22980.00	Average	H	-	-	-71.63	8.16	-9.54	33.99	53.98	-19.99
* 22980.00	Peak	H	-	-	-60.79	8.16	-9.54	44.83	73.98	-29.15
28725.00	Peak	H	-	-	-47.65	-9.24	-9.54	40.57	68.20	-27.63

**Table 7-56. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	208	308	-77.25	11.91	0.00	41.66	53.98	-12.32
* 11570.00	Peak	H	208	308	-64.89	11.91	0.00	54.02	73.98	-19.96
17355.00	Peak	H	177	1	-67.90	18.72	0.00	57.82	68.20	-10.38
23140.00	Peak	H	-	-	-59.48	8.37	-9.54	46.35	68.20	-21.85
28925.00	Peak	H	-	-	-47.80	-9.65	-9.54	40.01	68.20	-28.19

**Table 7-57. Radiated Measurements**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 133 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	204	310	-77.63	12.16	0.00	41.53	53.98	-12.45
* 11650.00	Peak	H	204	310	-65.32	12.16	0.00	53.84	73.98	-20.14
17475.00	Peak	H	237	20	-67.68	18.73	0.00	58.05	68.20	-10.15
23300.00	Peak	H	-	-	-60.63	8.50	-9.54	45.33	68.20	-22.87
29125.00	Peak	H	-	-	-46.69	-9.87	-9.54	40.90	68.20	-27.30

**Table 7-58. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	135	316	-77.88	11.91	0.00	41.03	53.98	-12.95
* 11570.00	Peak	H	135	316	-66.06	11.91	0.00	52.85	73.98	-21.13
17355.00	Peak	H	-	-	-68.25	18.72	0.00	57.47	68.20	-10.73
23140.00	Peak	H	-	-	-60.15	8.37	-9.54	45.68	68.20	-22.52
28925.00	Peak	H	-	-	-47.06	-9.65	-9.54	40.75	68.20	-27.45

**Table 7-59. Radiated Measurements with WCP**

FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 134 of 197	

### CDD Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	149	327	-65.52	11.48	0.00	52.96	68.20	-15.24
* 15540.00	Average	H	120	209	-79.57	13.68	0.00	41.11	53.98	-12.87
* 15540.00	Peak	H	120	209	-67.66	13.68	0.00	53.02	73.98	-20.96
* 20720.00	Average	H	-	-	-71.31	7.94	-9.54	34.09	53.98	-19.89
* 20720.00	Peak	H	-	-	-60.83	7.94	-9.54	44.57	73.98	-29.41
25900.00	Peak	H	-	-	-58.47	8.46	-9.54	47.45	68.20	-20.75

**Table 7-60. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	140	313	-67.57	11.67	0.00	51.10	68.20	-17.10
* 15600.00	Average	H	104	322	-78.09	13.27	0.00	42.18	53.98	-11.80
* 15600.00	Peak	H	104	322	-63.89	13.27	0.00	56.38	73.98	-17.60
* 20800.00	Average	H	-	-	-71.55	7.95	-9.54	33.86	53.98	-20.12
* 20800.00	Peak	H	-	-	-61.08	7.95	-9.54	44.33	73.98	-29.65
26000.00	Peak	H	-	-	-58.23	8.60	-9.54	47.83	68.20	-20.37

**Table 7-61. Radiated Measurements**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	100	9	-64.85	11.70	0.00	53.85	68.20	-14.35
* 15720.00	Average	H	104	335	-77.03	12.83	0.00	42.80	53.98	-11.18
* 15720.00	Peak	H	104	335	-63.01	12.83	0.00	56.82	73.98	-17.16
* 20960.00	Average	H	-	-	-71.76	7.91	-9.54	33.61	53.98	-20.37
* 20960.00	Peak	H	-	-	-61.77	7.91	-9.54	43.60	73.98	-30.38
26200.00	Peak	H	-	-	-58.27	8.62	-9.54	47.81	68.20	-20.39

**Table 7-62. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	117	322	-67.78	11.70	0.00	50.92	68.20	-17.28
* 15720.00	Average	H	102	322	-78.01	12.83	0.00	41.82	53.98	-12.16
* 15720.00	Peak	H	102	322	-63.87	12.83	0.00	55.96	73.98	-18.02
* 20960.00	Average	H	-	-	-71.92	7.91	-9.54	33.45	53.98	-20.53
* 20960.00	Peak	H	-	-	-60.11	7.91	-9.54	45.26	73.98	-28.72
26200.00	Peak	H	-	-	-58.04	8.62	-9.54	48.04	68.20	-20.16

**Table 7-63. Radiated Measurements with WCP**

FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 136 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	181	12	-66.48	11.68	0.00	52.20	68.20	-16.00
* 15780.00	Average	H	109	335	-78.19	12.91	0.00	41.72	53.98	-12.26
* 15780.00	Peak	H	109	335	-64.98	12.91	0.00	54.93	73.98	-19.05
* 21040.00	Average	H	-	-	-71.31	7.92	-9.54	34.07	53.98	-19.91
* 21040.00	Peak	H	-	-	-60.68	7.92	-9.54	44.70	73.98	-29.28
26300.00	Peak	H	-	-	-57.22	8.73	-9.54	48.97	68.20	-19.23

**Table 7-64. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	107	6	-65.46	11.56	0.00	53.10	68.20	-15.10
* 15840.00	Average	H	113	336	-77.53	12.86	0.00	42.33	53.98	-11.65
* 15840.00	Peak	H	113	336	-63.98	12.86	0.00	55.88	73.98	-18.10
* 21120.00	Average	H	-	-	-70.81	7.96	-9.54	34.61	53.98	-19.37
* 21120.00	Peak	H	-	-	-60.35	7.96	-9.54	45.07	73.98	-28.91
26400.00	Peak	H	-	-	-57.46	8.94	-9.54	48.94	68.20	-19.26

**Table 7-65. Radiated Measurements**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 137 of 197	



Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	190	6	-77.49	11.80	0.00	41.31	53.98	-12.67
* 10640.00	Peak	H	190	6	-65.16	11.80	0.00	53.64	73.98	-20.34
* 15960.00	Average	H	107	335	-77.34	13.23	0.00	42.89	53.98	-11.08
* 15960.00	Peak	H	107	335	-64.11	13.23	0.00	56.12	73.98	-17.85
* 21280.00	Average	H	-	-	-70.38	8.04	-9.54	35.12	53.98	-18.86
* 21280.00	Peak	H	-	-	-59.88	8.04	-9.54	45.62	73.98	-28.36
26600.00	Peak	H	-	-	-51.06	-8.30	-9.54	38.09	68.20	-30.11

**Table 7-66. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	-	-	-79.49	11.80	0.00	39.31	53.98	-14.67
* 10640.00	Peak	H	-	-	-68.38	11.80	0.00	50.42	73.98	-23.56
* 15960.00	Average	H	102	358	-78.09	13.23	0.00	42.14	53.98	-11.83
* 15960.00	Peak	H	102	358	-64.56	13.23	0.00	55.67	73.98	-18.30
* 21280.00	Average	H	-	-	-70.69	8.04	-9.54	34.81	53.98	-19.17
* 21280.00	Peak	H	-	-	-58.67	8.04	-9.54	46.83	73.98	-27.15
26600.00	Peak	H	-	-	-49.55	-8.30	-9.54	39.60	68.20	-28.60

**Table 7-67. Radiated Measurements with WCP**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 138 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	144	9	-72.95	12.04	0.00	46.09	53.98	-7.89
* 11000.00	Peak	H	144	9	-55.89	12.04	0.00	63.15	73.98	-10.83
16500.00	Peak	H	109	14	-65.44	12.28	0.00	53.84	68.20	-14.36
22000.00	Peak	H	-	-	-59.44	8.43	-9.54	46.44	68.20	-21.76
27500.00	Peak	H	-	-	-48.22	-8.80	-9.54	40.44	68.20	-27.76

**Table 7-68. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	103	14	-69.17	11.28	0.00	49.11	53.98	-4.87
* 11200.00	Peak	H	103	14	-53.88	11.28	0.00	64.40	73.98	-9.58
16800.00	Peak	H	131	25	-67.01	13.32	0.00	53.31	68.20	-14.89
* 22400.00	Average	H	-	-	-70.73	8.11	-9.54	34.84	53.98	-19.14
* 22400.00	Peak	H	-	-	-60.14	8.11	-9.54	45.43	73.98	-28.55
28000.00	Peak	H	-	-	-47.28	-9.26	-9.54	40.92	68.20	-27.28

**Table 7-69. Radiated Measurements**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 139 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	109	7	-68.60	11.68	0.00	50.08	53.98	-3.90
* 11440.00	Peak	H	109	7	-54.25	11.68	0.00	64.43	73.98	-9.55
17160.00	Peak	H	149	7	-65.00	15.62	0.00	57.62	68.20	-10.58
* 22880.00	Average	H	-	-	-71.71	8.28	-9.54	34.03	53.98	-19.95
* 22880.00	Peak	H	-	-	-61.63	8.28	-9.54	44.11	73.98	-29.87
28600.00	Peak	H	-	-	-47.60	-9.08	-9.54	40.78	68.20	-27.42

**Table 7-70. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	106	349	-70.81	11.68	0.00	47.87	53.98	-6.11
* 11440.00	Peak	H	106	349	-57.61	11.68	0.00	61.07	73.98	-12.91
17160.00	Peak	H	-	-	-68.06	15.62	0.00	54.56	68.20	-13.64
* 22880.00	Average	H	-	-	-71.73	8.28	-9.54	34.01	53.98	-19.97
* 22880.00	Peak	H	-	-	-60.57	8.28	-9.54	45.17	73.98	-28.81
28600.00	Peak	H	-	-	-46.01	-9.08	-9.54	42.37	68.20	-25.83

**Table 7-71. Radiated Measurements with WCP**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 140 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	104	15	-69.21	11.70	0.00	49.49	53.98	-4.49
* 11490.00	Peak	H	104	15	-57.65	11.70	0.00	61.05	73.98	-12.93
17235.00	Peak	H	140	7	-64.14	17.09	0.00	59.95	68.20	-8.25
* 22980.00	Average	H	-	-	-71.31	8.16	-9.54	34.31	53.98	-19.67
* 22980.00	Peak	H	-	-	-60.87	8.16	-9.54	44.75	73.98	-29.23
28725.00	Peak	H	-	-	-46.48	-9.24	-9.54	41.74	69.20	-27.46

**Table 7-72. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	100	11	-68.83	11.91	0.00	50.08	53.98	-3.90
* 11570.00	Peak	H	100	11	-57.11	11.91	0.00	61.80	73.98	-12.18
17355.00	Peak	H	158	10	-66.53	18.72	0.00	59.19	68.20	-9.01
23140.00	Peak	H	-	-	-60.77	8.37	-9.54	45.06	68.20	-23.14
28925.00	Peak	H	-	-	-46.62	-9.65	-9.54	41.19	68.20	-27.01

**Table 7-73. Radiated Measurements**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 141 of 197	

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	104	11	-70.66	12.16	0.00	48.50	53.98	-5.48
* 11650.00	Peak	H	104	11	-58.67	12.16	0.00	60.49	73.98	-13.49
17475.00	Peak	H	154	27	-64.78	18.73	0.00	60.95	68.20	-7.25
23300.00	Peak	H	-	-	-61.01	8.50	-9.54	44.95	68.20	-23.25
29125.00	Peak	H	-	-	-44.95	-9.87	-9.54	42.64	68.20	-25.56

**Table 7-74. Radiated Measurements**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 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	120	344	-70.75	11.91	0.00	48.16	53.98	-5.82
* 11570.00	Peak	H	120	344	-57.05	11.91	0.00	61.86	73.98	-12.12
17355.00	Peak	H	-	-	-68.56	18.72	0.00	57.16	68.20	-11.04
23140.00	Peak	H	-	-	-60.68	8.37	-9.54	45.15	68.20	-23.05
28925.00	Peak	H	-	-	-45.34	-9.65	-9.54	42.47	68.20	-25.73

**Table 7-75. Radiated Measurements with WCP**

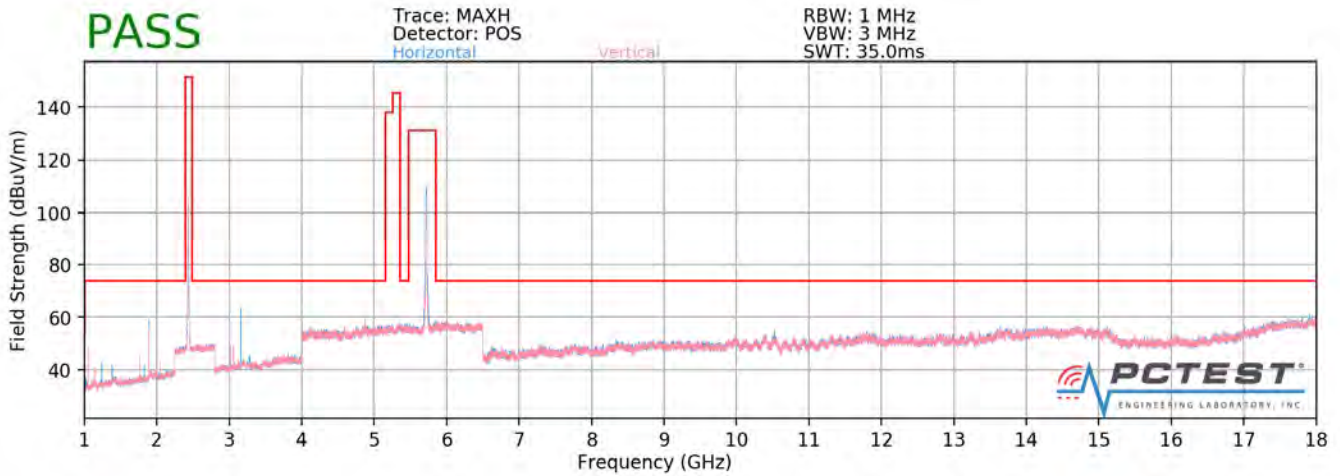
FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 142 of 197	

### 7.6.3 Simultaneous Tx Radiated Spurious Emissions Measurements

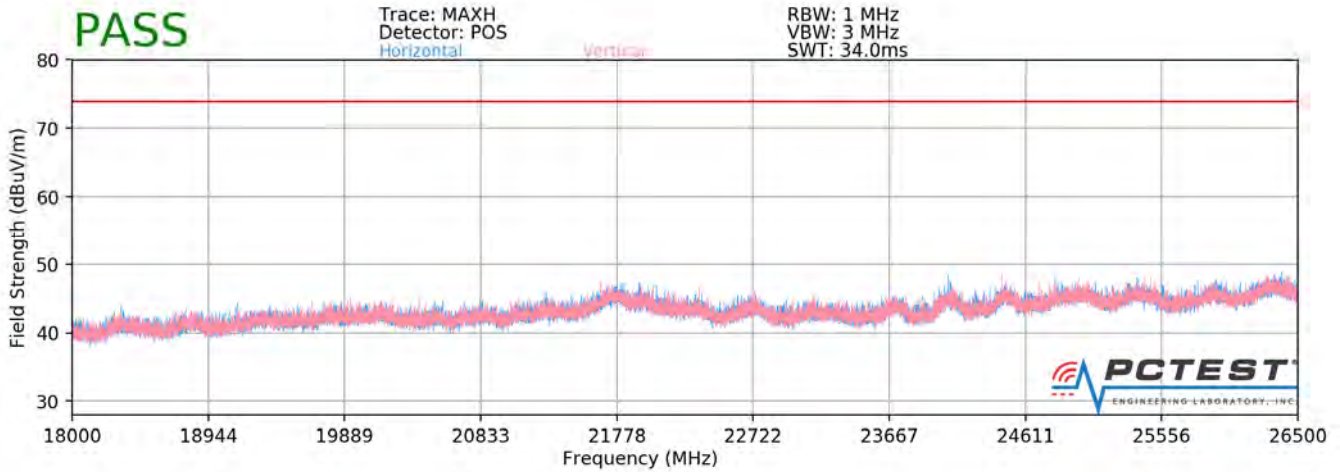
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1	2
Channel	6	144
Operating Frequency (MHz)	2437	5720
Data Rate (Mbps)	1	6
Mode	802.11b	802.11a

**Table 7-76. Simultaneous Transmission Config-1**

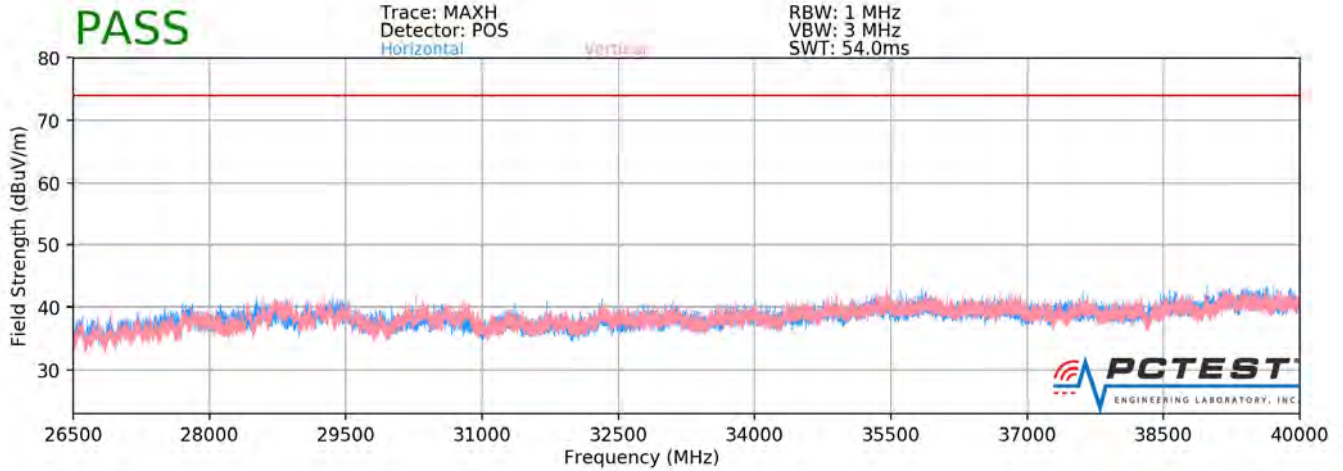


**Plot 7-165. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)**



**Plot 7-166. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 5GHz)**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 143 of 197	



**Plot 7-167. Radiated Spurious Plot above 26.5GHz (2.4GHz – 5GHz)**

FCC ID: A3LSMN960U	<b>PCTEST</b> ENGINEERING LABORATORY, INC.		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 144 of 197		



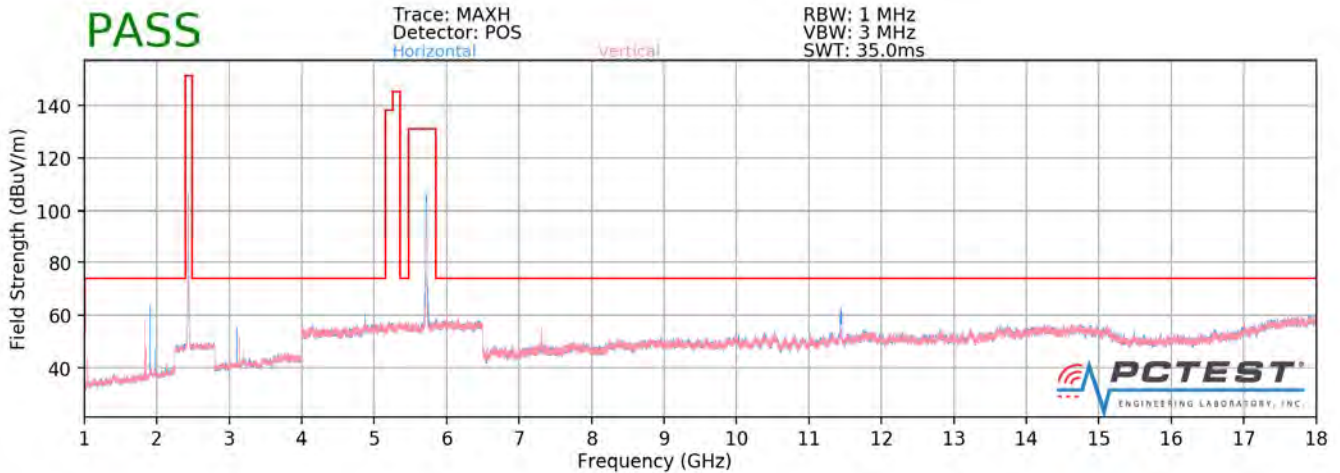
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	4129.00	Average	H	-	-	-77.42	3.50	33.08	53.98	-20.90
*	4129.00	Peak	H	-	-	-65.65	3.50	44.85	73.98	-29.13
*	4874.00	Average	H	171	19	-71.65	4.71	40.06	53.98	-13.92
*	4874.00	Peak	H	171	19	-61.67	4.71	50.04	73.98	-23.94
*	7412.00	Average	H	-	-	-78.56	9.42	37.86	53.98	-16.12
*	7412.00	Peak	H	-	-	-67.10	9.42	49.32	73.98	-24.66
*	9003.00	Average	H	-	-	-79.10	12.59	40.49	53.98	-13.49
*	9003.00	Peak	H	-	-	-67.90	12.59	51.69	73.98	-22.29
*	10695.00	Average	H	-	-	-79.41	13.28	40.87	53.98	-13.11
*	10695.00	Peak	H	-	-	-68.64	13.28	51.64	73.98	-22.34
*	12286.00	Average	H	-	-	-79.64	15.98	43.34	53.98	-10.64
*	12286.00	Peak	H	-	-	-68.86	15.98	54.12	73.98	-19.86
*	15569.00	Average	H	-	-	-79.65	14.05	41.40	53.98	-12.58
*	15569.00	Peak	H	-	-	-68.92	14.05	52.13	73.98	-21.85

**Table 7-77. Radiated Measurements (ANT1 2.4GHz – ANT2 5GHz)**

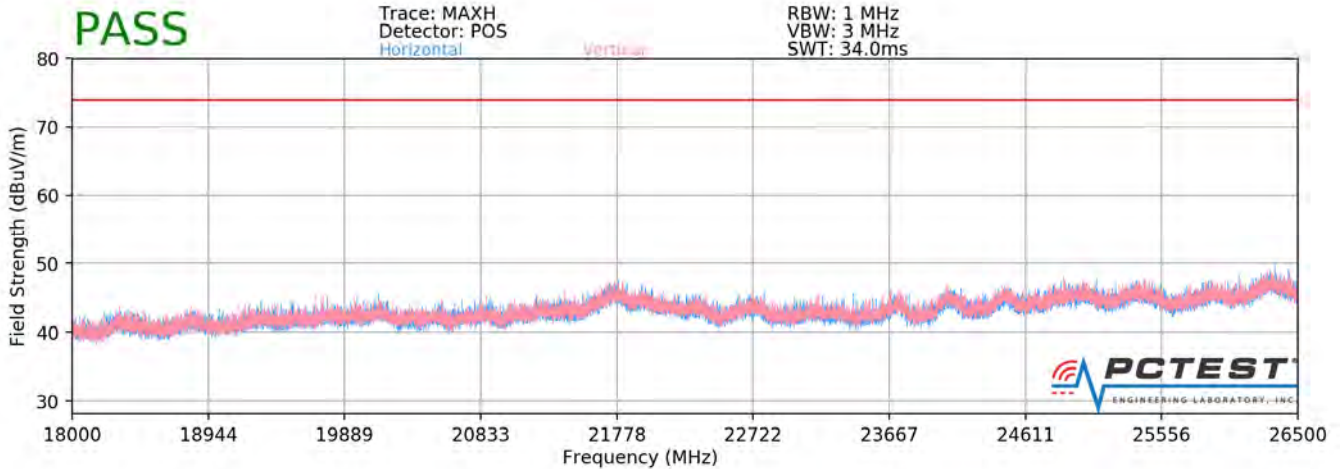
FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 145 of 197

Description	2.4 GHz Emission	5 GHz Emission
Antenna	2	1
Channel	6	144
Operating Frequency (MHz)	2437	5720
Data Rate (Mbps)	1	6
Mode	802.11b	802.11a

**Table 7-78. Simultaneous Transmission Config-2**

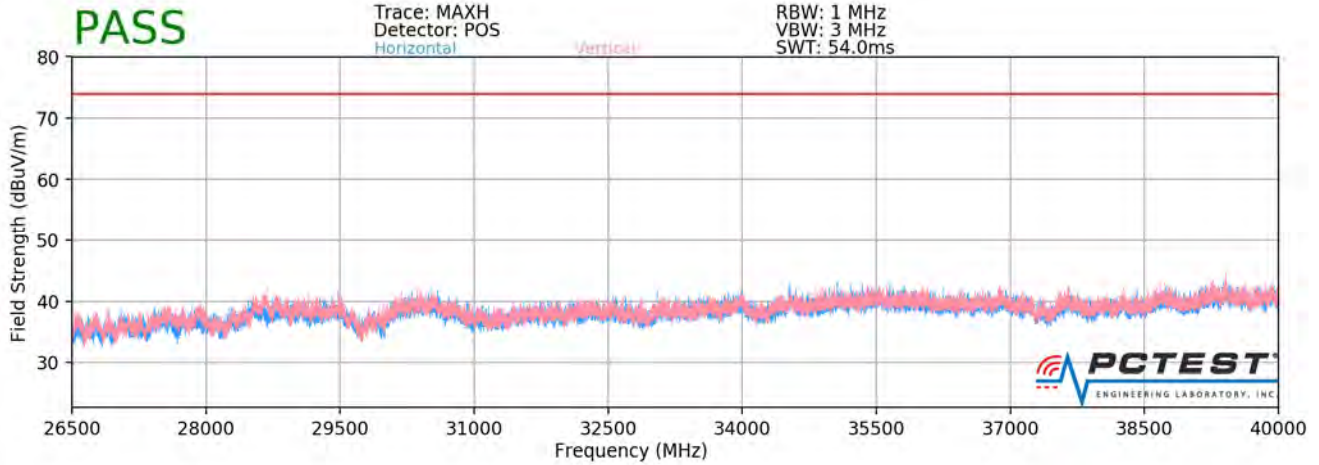


**Plot 7-168. Radiated Spurious Plot above 1GHz (5GHz – 2.4 GHz)**



**Plot 7-169. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4 GHz)**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 146 of 197	



**Plot 7-170. Radiated Spurious Plot above 26.5GHz (5GHz – 2.4 GHz)**

FCC ID: A3LSMN960U	<b>PCTEST</b> ENGINEERING LABORATORY, INC.		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset			Page 147 of 197

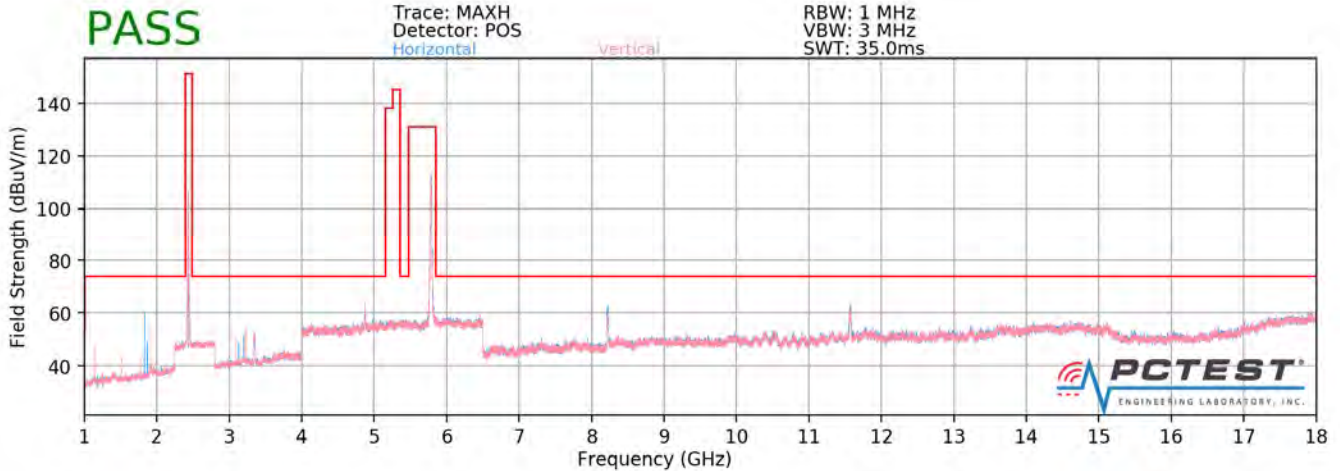
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	4129.00	Average	H	-	-	-77.21	3.50	33.29	53.98	-20.69
*	4129.00	Peak	H	-	-	-64.83	3.50	45.67	73.98	-28.31
*	4874.00	Average	H	164	308	-73.46	4.71	38.25	53.98	-15.73
*	4874.00	Peak	H	164	308	-62.94	4.71	48.77	73.98	-25.21
*	7412.00	Average	H	-	-	-78.51	9.42	37.91	53.98	-16.07
*	7412.00	Peak	H	-	-	-67.17	9.42	49.25	73.98	-24.73
*	9003.00	Average	H	-	-	-79.17	12.59	40.42	53.98	-13.56
*	9003.00	Peak	H	-	-	-68.71	12.59	50.88	73.98	-23.10
*	10695.00	Average	H	-	-	-79.47	13.28	40.81	53.98	-13.17
*	10695.00	Peak	H	-	-	-68.13	13.28	52.15	73.98	-21.83
*	11440.00	Average	H	113	6	-72.53	15.15	49.62	53.98	-4.36
*	11440.00	Peak	H	113	6	-59.61	15.15	62.54	73.98	-11.44
*	12286.00	Average	H	-	-	-79.64	15.98	43.34	53.98	-10.64
*	12286.00	Peak	H	-	-	-68.24	15.98	54.74	73.98	-19.24
	15569.00	Average	H	-	-	-79.62	14.05	41.43	53.98	-12.55
	15569.00	Peak	H	-	-	-68.84	14.05	52.21	73.98	-21.77

**Table 7-79. Radiated Measurements (ANT1 5GHz – ANT2 2.4GHz)**

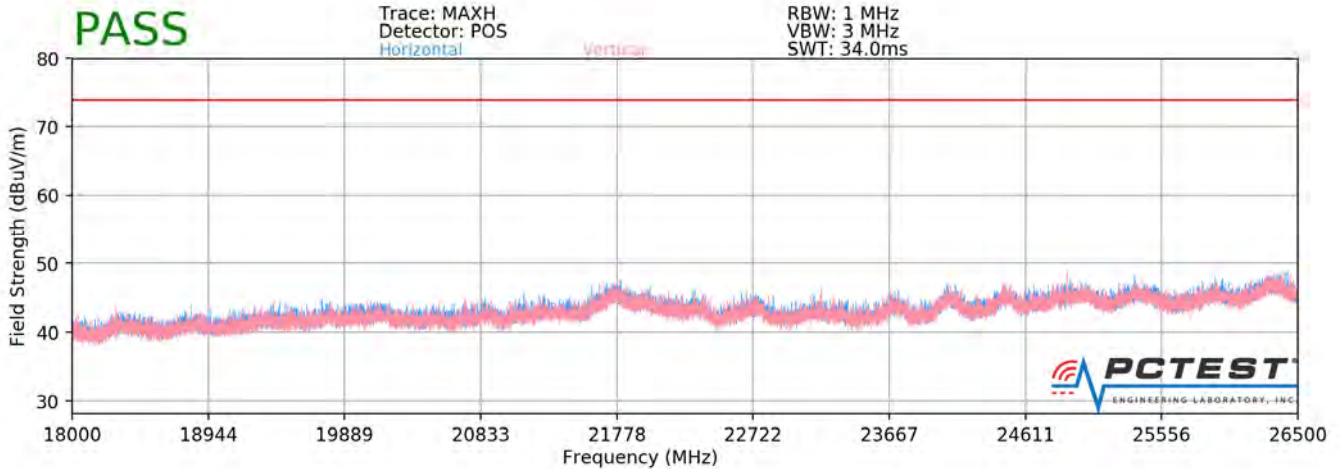
FCC ID: A3LSMN960U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset			Page 148 of 197

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	6	157
Operating Frequency (MHz)	2437	5785
Data Rate (Mbps)	6	6
Mode	802.11g	802.11a

Table 7-80. Dual Band Simultaneous Transmission

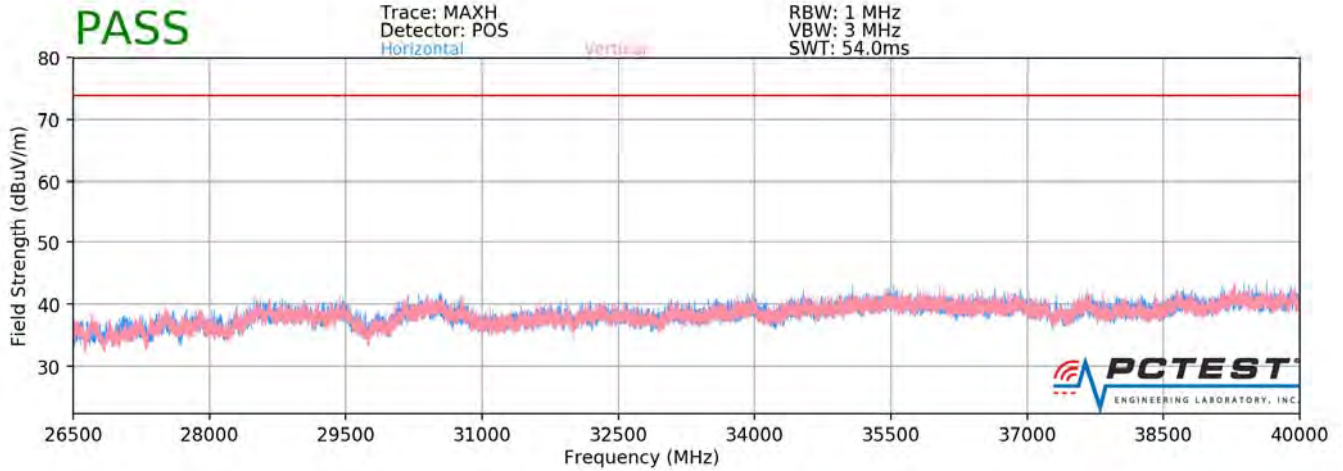


Plot 7-171. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx)



Plot 7-172. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx)

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 149 of 197



**Plot 7-173. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx)**

<b>FCC ID:</b> A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset	Page 150 of 197



	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]
*	4259.00	Average	H	-	-	-77.24	2.94	32.70	53.98	-21.28
*	4259.00	Peak	H	-	-	-66.27	2.94	43.67	73.98	-30.31
*	4874.00	Average	H	129	14	-68.78	4.71	42.93	53.98	-11.05
*	4874.00	Peak	H	129	14	-57.82	4.71	53.89	73.98	-20.09
*	7607.00	Average	H	-	-	-78.40	9.78	38.38	53.98	-15.60
*	7607.00	Peak	H	-	-	-66.90	9.78	49.88	73.98	-24.10
*	9133.00	Average	H	-	-	-78.67	11.70	40.03	53.98	-13.95
*	9133.00	Peak	H	-	-	-67.15	11.70	51.55	73.98	-22.43
*	10955.00	Average	H	-	-	-79.59	12.94	40.35	53.98	-13.63
*	10955.00	Peak	H	-	-	-68.00	12.94	51.94	73.98	-22.04
*	11570.00	Average	H	111	3	-73.90	14.70	47.80	53.98	-6.18
*	11570.00	Peak	H	111	3	-60.42	14.70	61.28	73.98	-12.70
*	12481.00	Average	H	-	-	-79.73	15.84	43.11	53.98	-10.87
*	12481.00	Peak	H	-	-	-68.57	15.84	54.27	73.98	-19.71
*	15829.00	Average	H	-	-	-79.74	15.12	42.38	53.98	-11.60
*	15829.00	Peak	H	-	-	-69.39	15.12	52.73	73.98	-21.25

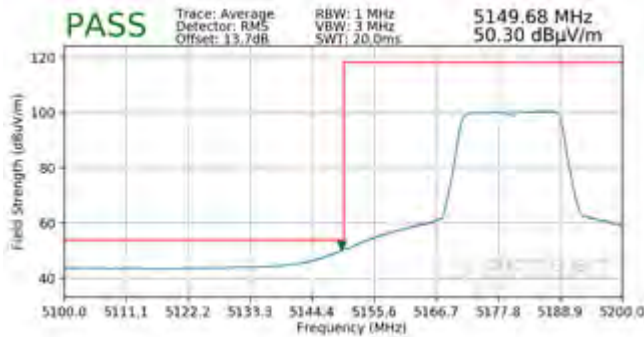
**Table 7-81. Radiated Measurements (Dual Band Simult. Tx)**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 151 of 197	

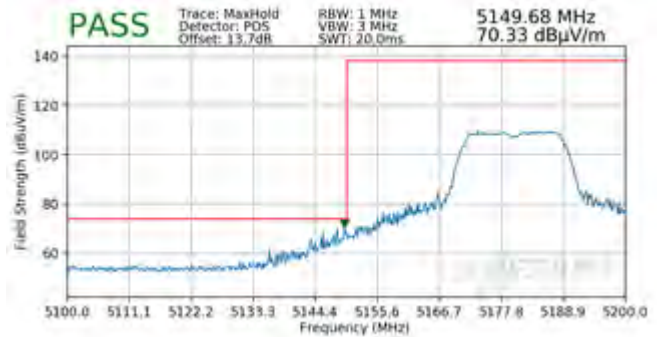


### 7.6.4 Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36



**Plot 7-174. Radiated Lower Band Edge Plot (Average – UNII Band 1)**



**Plot 7-175. Radiated Lower Band Edge Plot (Peak – UNII Band 1)**

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



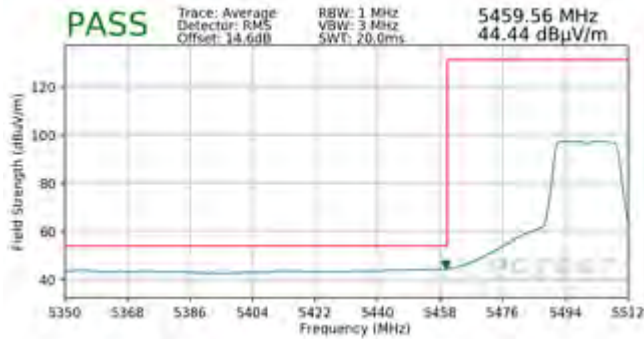
**Plot 7-176. Radiated Upper Band Edge Plot (Average – UNII Band 2A)**



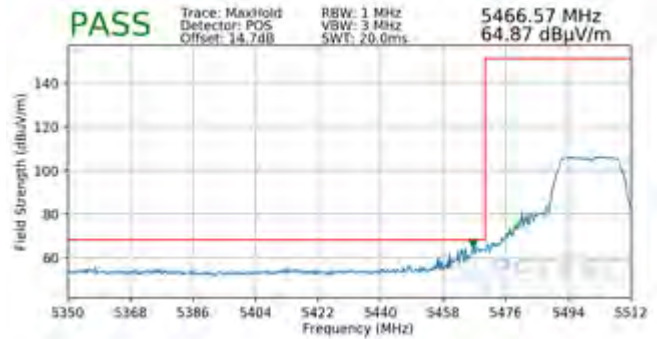
**Plot 7-177. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 152 of 197

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

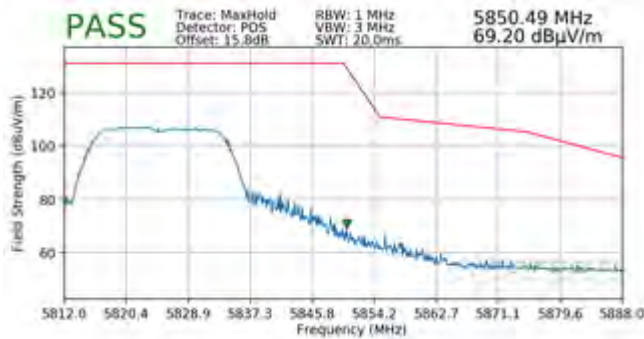


**Plot 7-178. Radiated Lower Band Edge Plot (Average – UNII Band 2C)**



**Plot 7-179. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)**

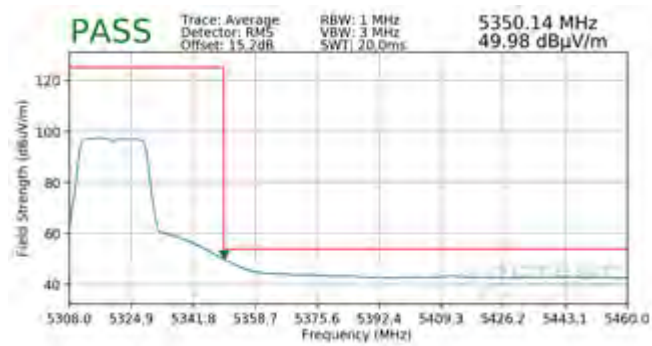
Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165



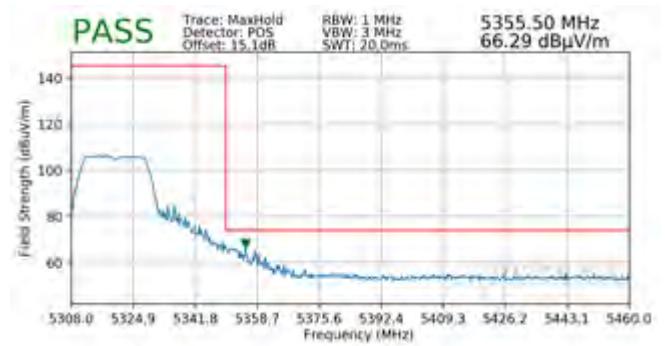
**Plot 7-180. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 153 of 197	

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



**Plot 7-181. Radiated Band Edge Plot (Average – WCP)**

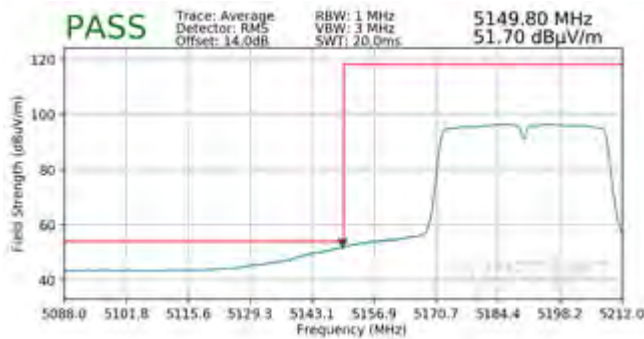


**Plot 7-182. Radiated Band Edge Plot (Peak – WCP)**

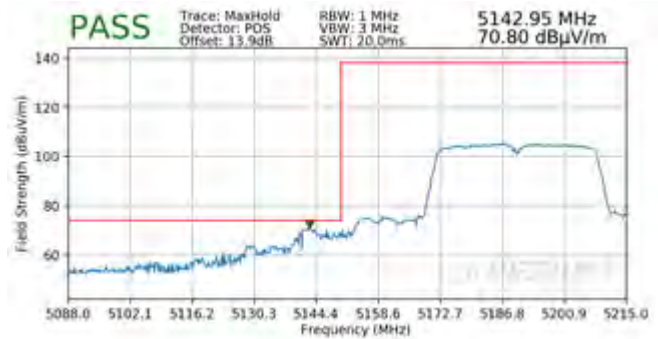
FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset	Page 154 of 197	

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

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

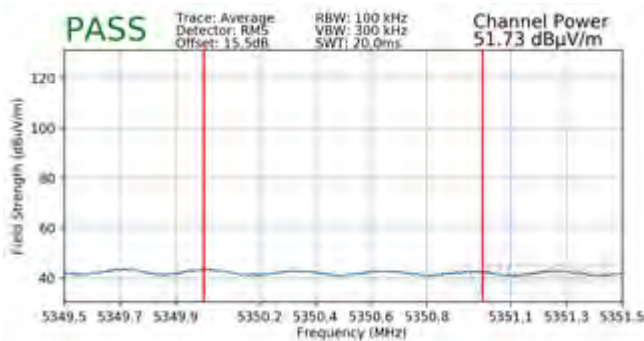


**Plot 7-183. Radiated Lower Band Edge Plot (Average – UNII Band 1)**

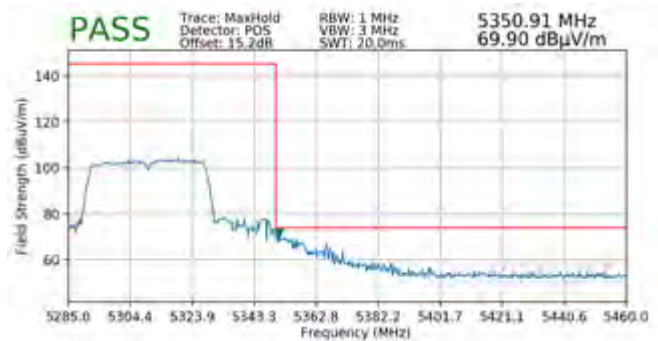


**Plot 7-184. Radiated Lower Band Edge Plot (Peak – UNII Band 1)**

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



**Plot 7-185. Radiated Upper Band Edge Plot (Average – UNII Band 2A)**



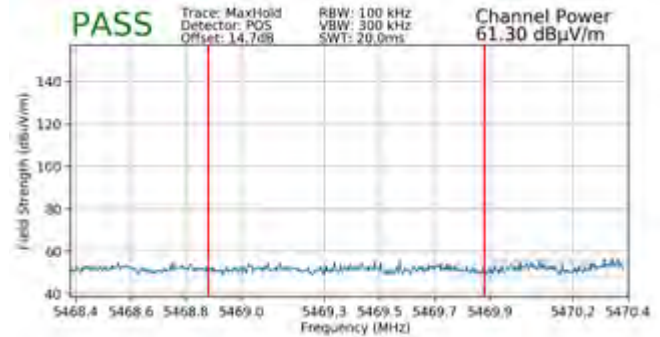
**Plot 7-186. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset			Page 155 of 197

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102

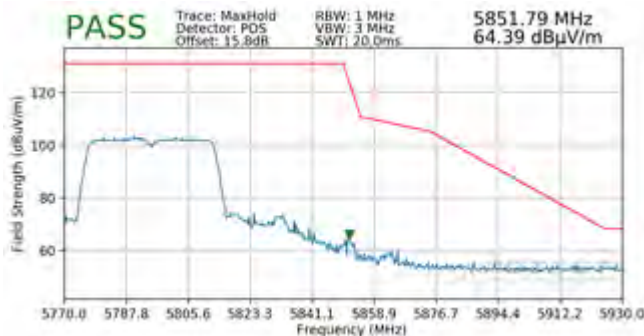


**Plot 7-187. Radiated Lower Band Edge Plot (Average – UNII Band 2C)**



**Plot 7-188. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)**

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5795MHz  
 Channel: 159

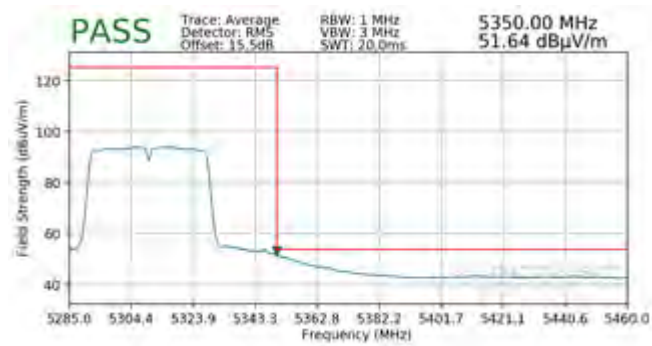


**Plot 7-189. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

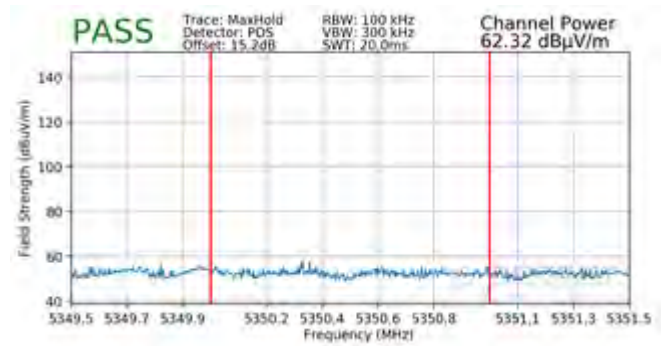
FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 156 of 197	



Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5310MHz  
 Channel: 62



**Plot 7-190. Radiated Band Edge Plot (Average – WCP)**

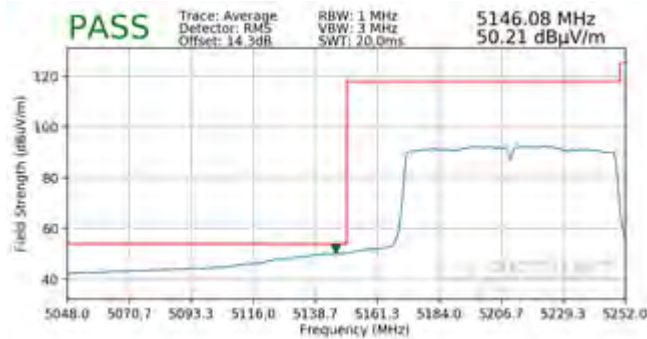


**Plot 7-191. Radiated Band Edge Plot (Peak – WCP)**

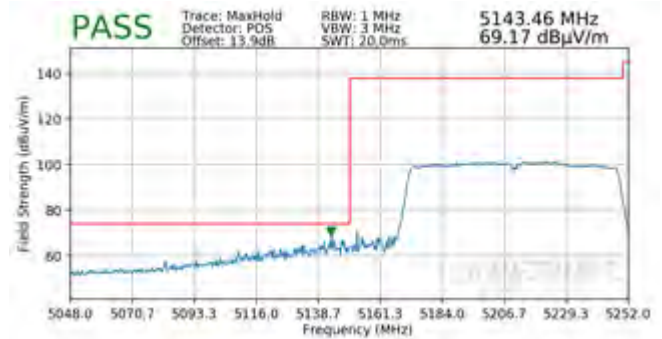
FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset	Page 157 of 197	

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

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

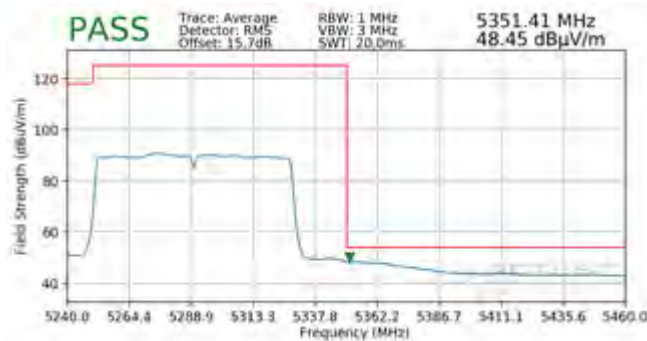


**Plot 7-192. Radiated Lower Band Edge Plot (Average – UNII Band 1)**

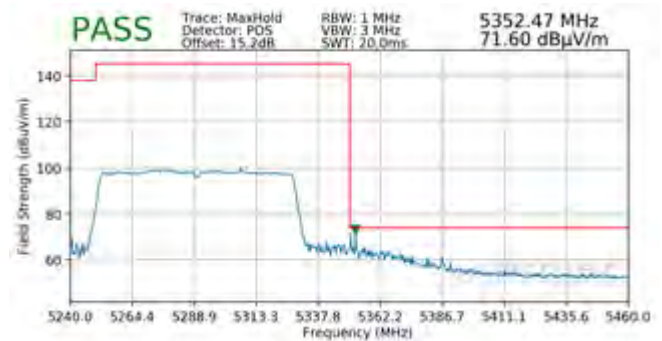


**Plot 7-193. Radiated Lower Band Edge Plot (Peak – UNII Band 1)**

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



**Plot 7-194. Radiated Upper Band Edge Plot (Average – UNII Band 2A)**

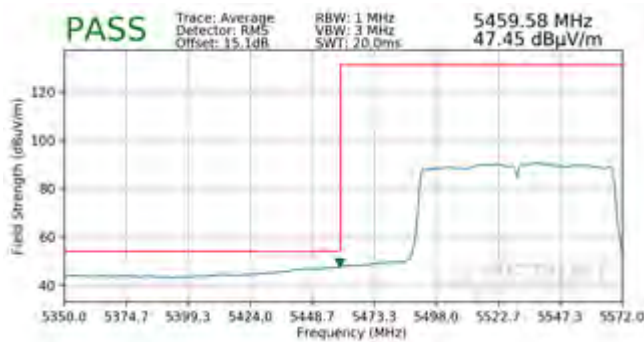


**Plot 7-195. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)**

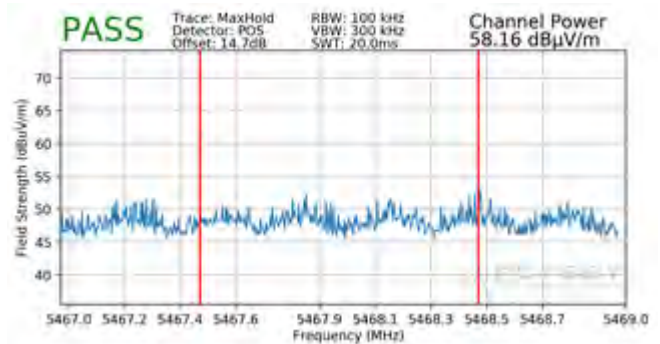
FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 158 of 197



Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106

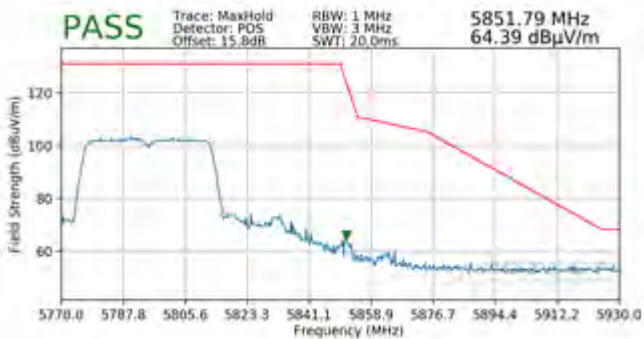


**Plot 7-196. Radiated Lower Band Edge Plot (Average – UNII Band 2C)**



**Plot 7-197. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)**

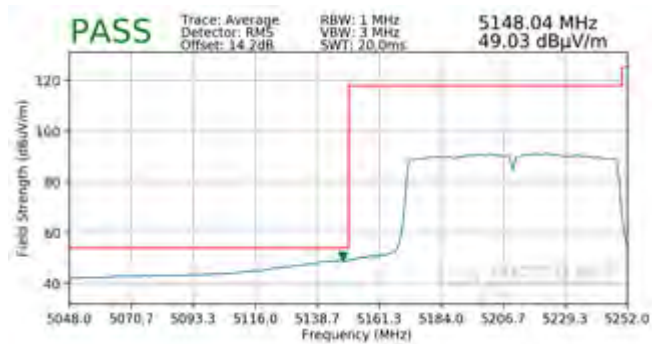
Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5775MHz  
 Channel: 155



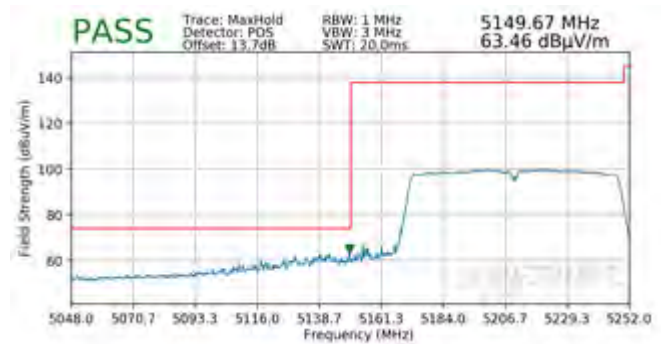
**Plot 7-198. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 159 of 197	

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5210MHz  
 Channel: 42



**Plot 7-199. Radiated Band Edge Plot (Average – WCP)**

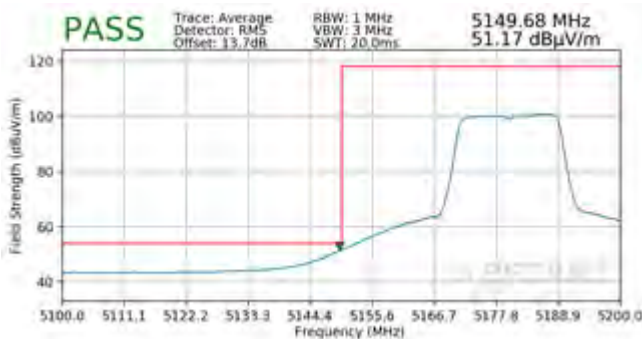


**Plot 7-200. Radiated Band Edge Plot (Peak – WCP)**

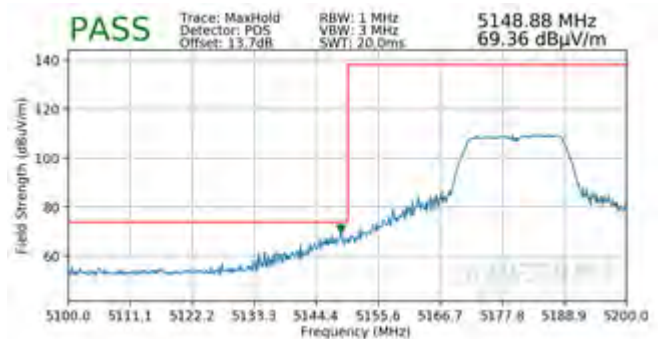
FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 160 of 197	

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

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36

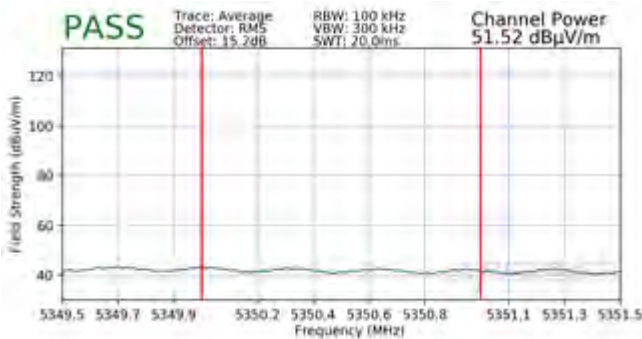


**Plot 7-201. Radiated Lower Band Edge Plot (Average – UNII Band 1)**



**Plot 7-202. Radiated Lower Band Edge Plot (Peak – UNII Band 1)**

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



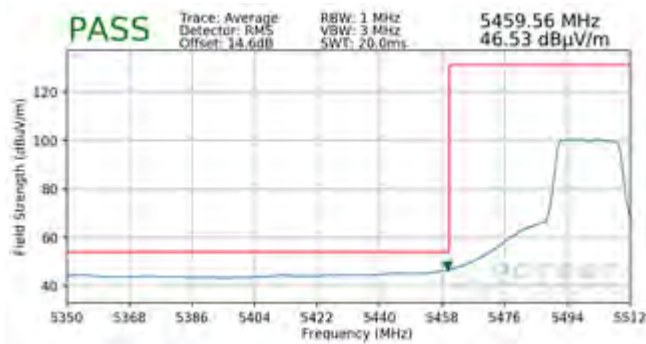
**Plot 7-203. Radiated Upper Band Edge Plot (Average – UNII Band 2A)**



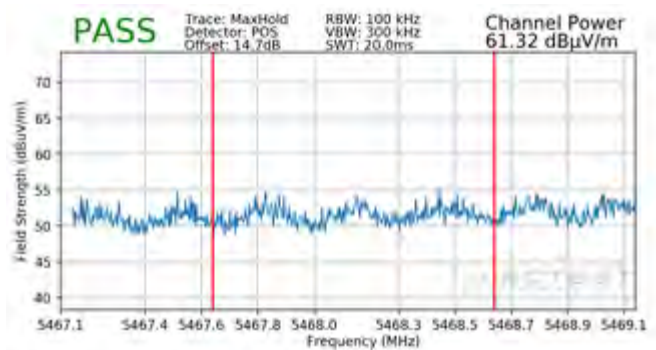
**Plot 7-204. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMN960U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 161 of 197	

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

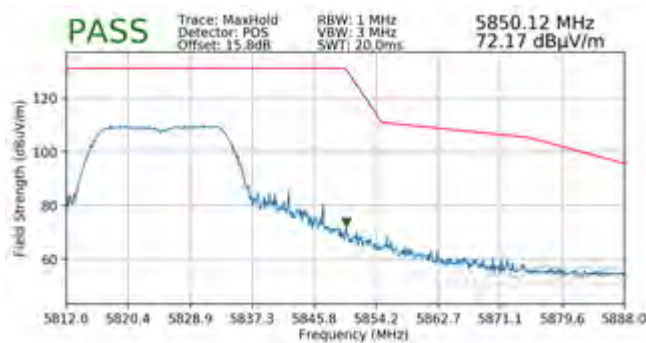


**Plot 7-205. Radiated Lower Band Edge Plot (Average – UNII Band 2C)**



**Plot 7-206. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)**

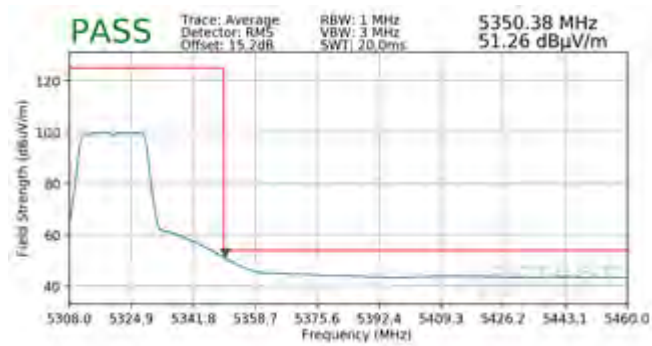
Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165



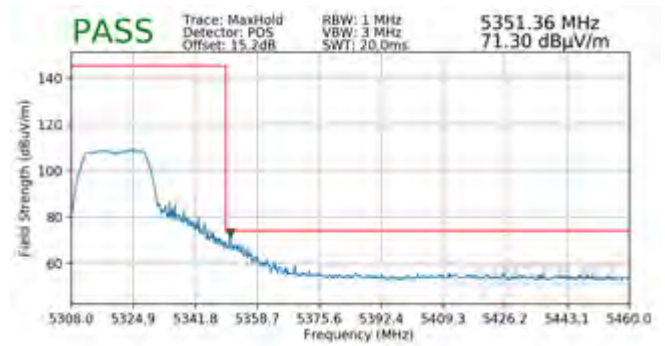
**Plot 7-207. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSMN960U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset			Page 162 of 197

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



**Plot 7-208. Radiated Band Edge Plot (Average – WCP)**



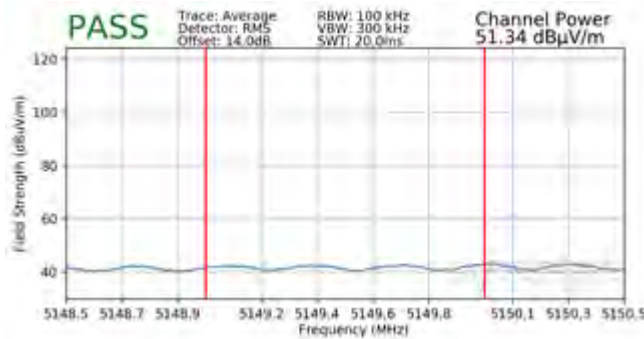
**Plot 7-209. Radiated Band Edge Plot (Peak – WCP)**

FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset	Page 163 of 197	

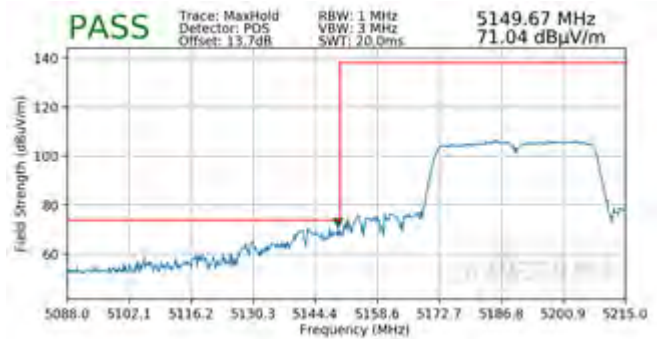


### 7.6.8 Antenna-2 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

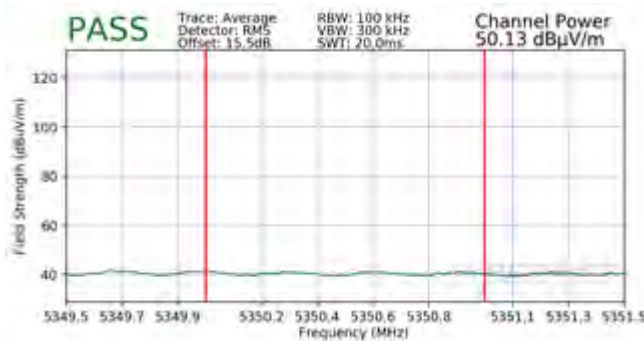


**Plot 7-210. Radiated Lower Band Edge Plot (Average – UNII Band 1)**

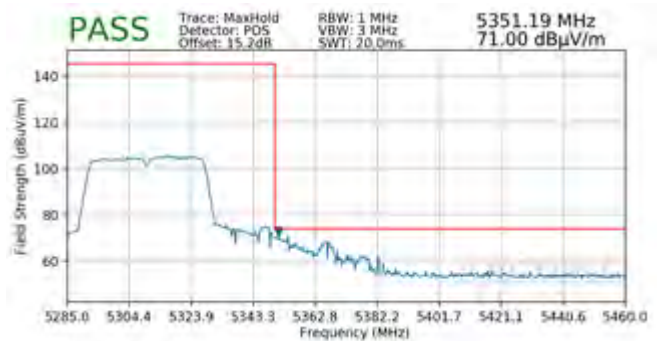


**Plot 7-211. Radiated Lower Band Edge Plot (Peak – UNII Band 1)**

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



**Plot 7-212. Radiated Upper Band Edge Plot (Average – UNII Band 2A)**



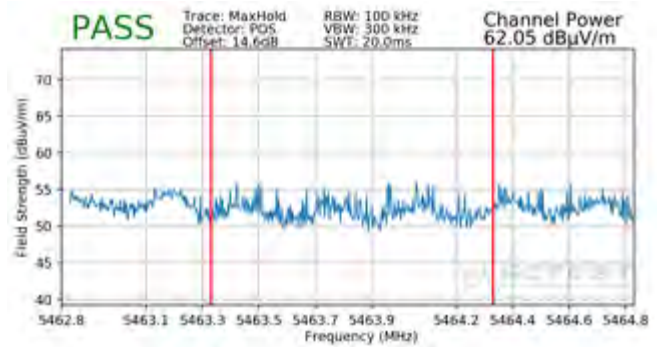
**Plot 7-213. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 164 of 197

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102

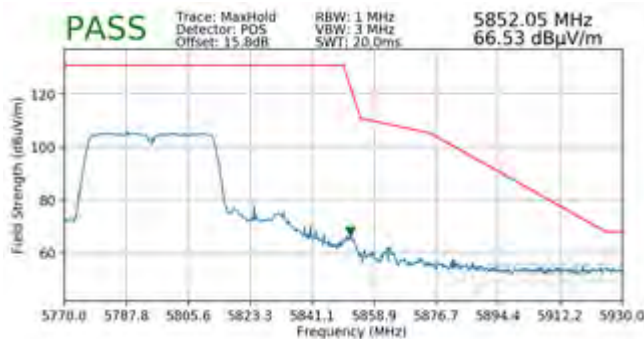


**Plot 7-214. Radiated Lower Band Edge Plot (Average – UNII Band 2C)**



**Plot 7-215. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)**

Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5795MHz  
 Channel: 159

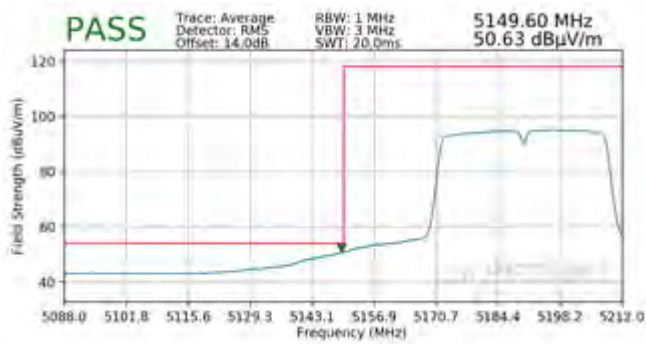


**Plot 7-216. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

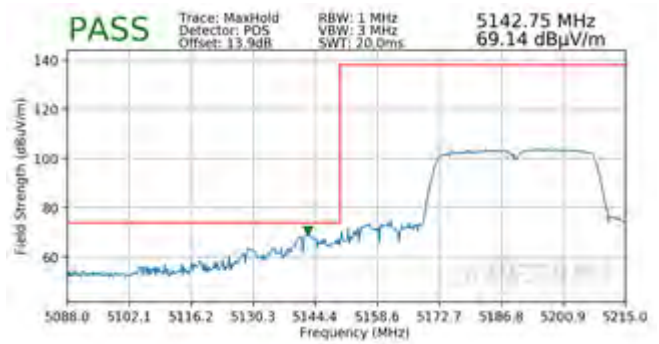
FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset			Page 165 of 197



Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5190MHz  
 Channel: 38



**Plot 7-217. Radiated Band Edge Plot (Average – WCP)**

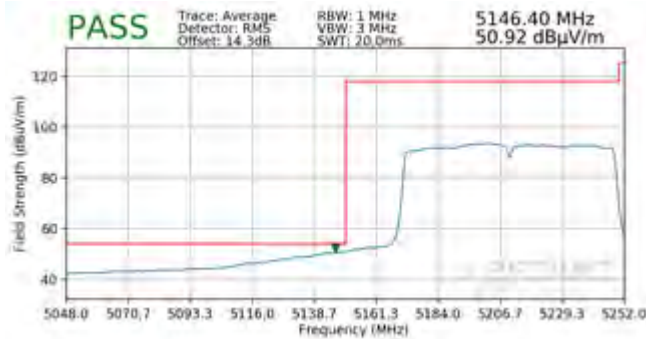


**Plot 7-218. Radiated Band Edge Plot (Peak – WCP)**

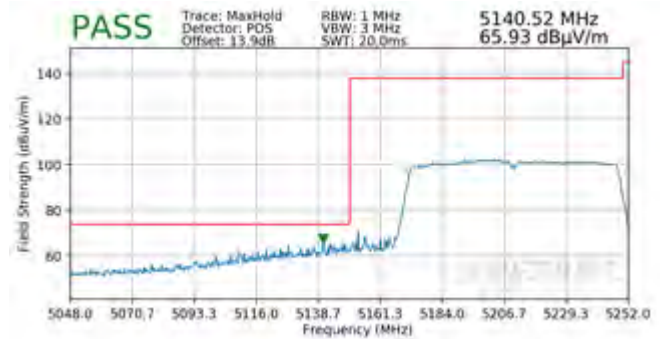
FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 166 of 197	

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

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5210MHz  
 Channel: 42

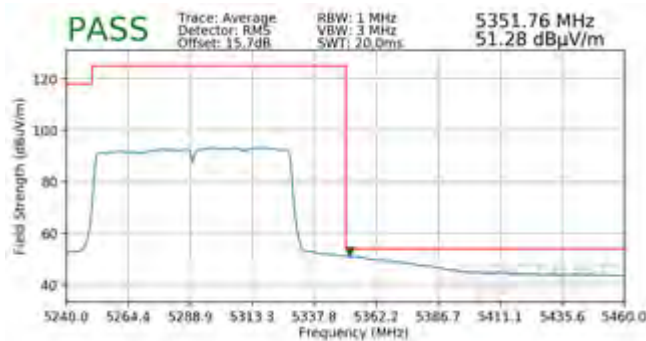


**Plot 7-219. Radiated Lower Band Edge Plot (Average – UNII Band 1)**

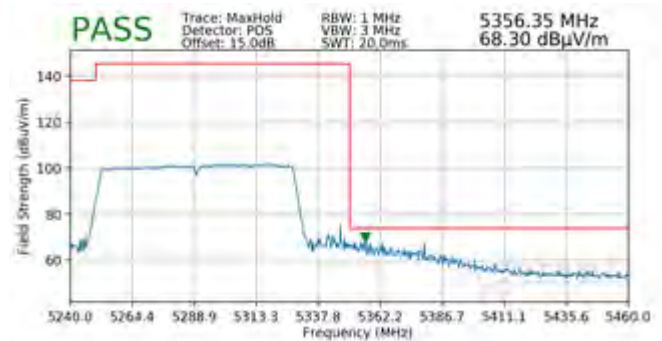


**Plot 7-220. Radiated Lower Band Edge Plot (Peak – UNII Band 1)**

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5290MHz  
 Channel: 58



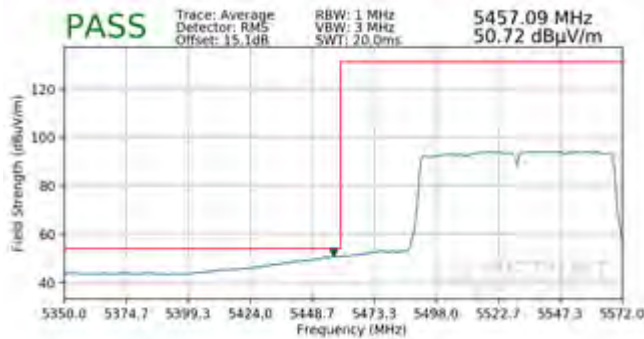
**Plot 7-221. Radiated Upper Band Edge Plot (Average – UNII Band 2A)**



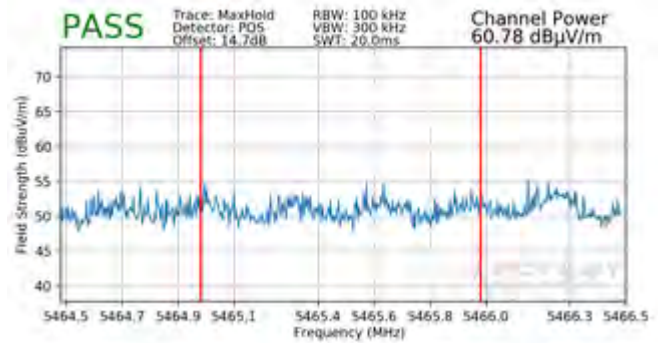
**Plot 7-222. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 167 of 197

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106

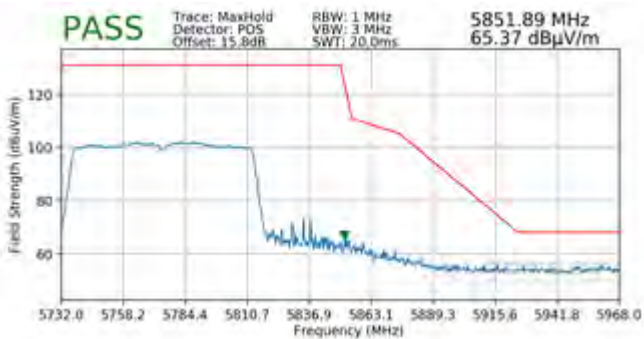


**Plot 7-223. Radiated Lower Band Edge Plot (Average – UNII Band 2C)**



**Plot 7-224. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)**

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5775MHz  
 Channel: 155



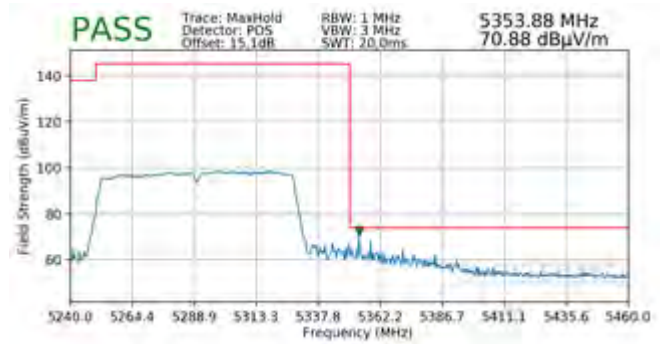
**Plot 7-225. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset	Page 168 of 197	

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5290MHz  
 Channel: 58



**Plot 7-226. Radiated Band Edge Plot (Average – WCP)**

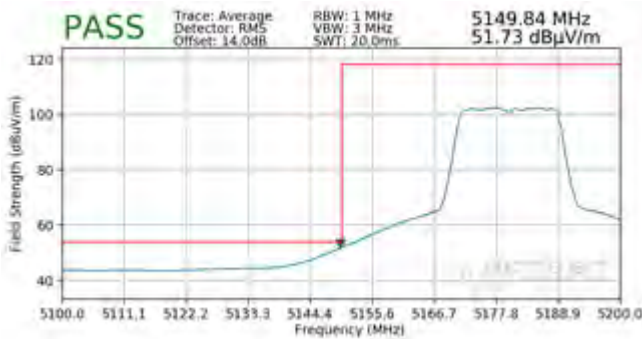


**Plot 7-227. Radiated Band Edge Plot (Peak – WCP)**

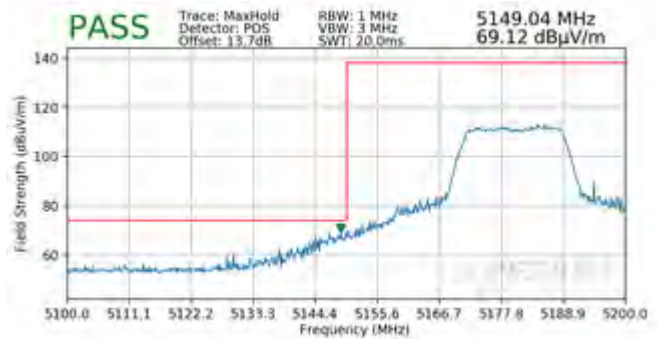
FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 169 of 197

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

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36

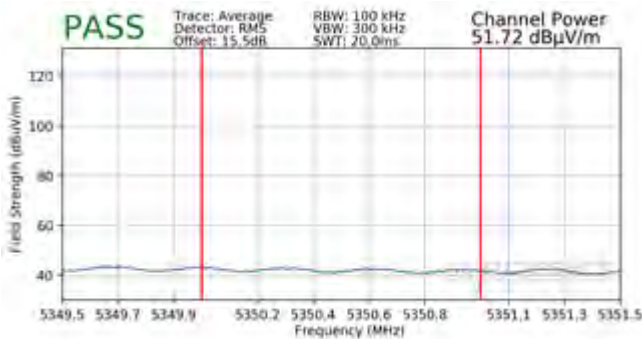


**Plot 7-228. Radiated Lower Band Edge Plot (Average – UNII Band 1)**

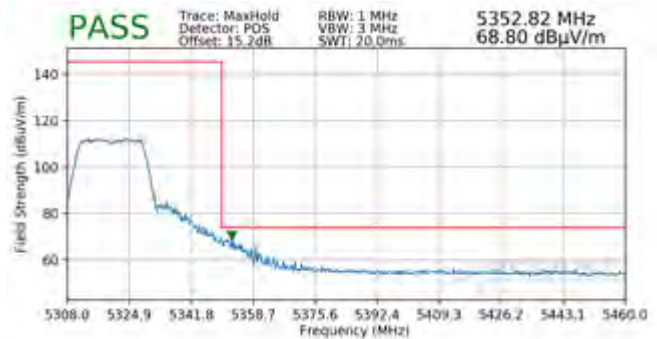


**Plot 7-229. Radiated Lower Band Edge Plot (Peak – UNII Band 1)**

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



**Plot 7-230. Radiated Upper Band Edge Plot (Average – UNII Band 2A)**

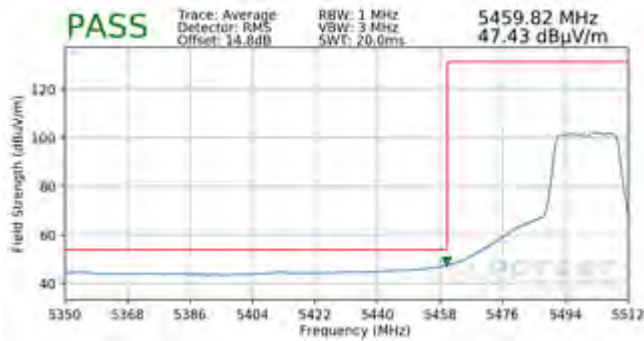


**Plot 7-231. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)**

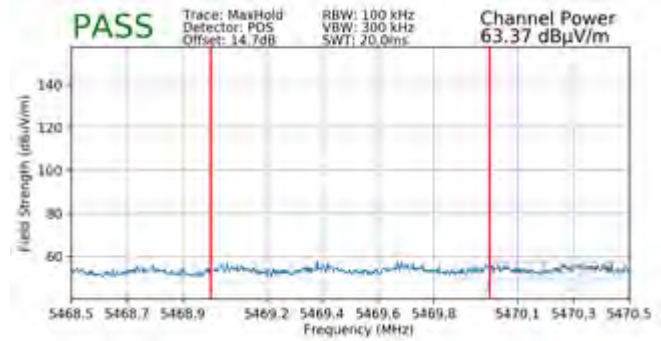
FCC ID: A3LSMN960U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 170 of 197	



Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

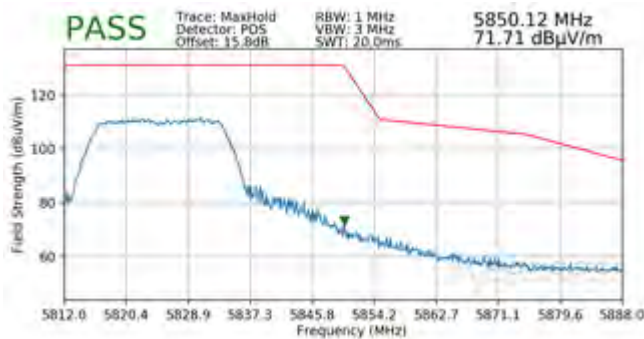


**Plot 7-232. Radiated Upper Band Edge Plot (Average – UNII Band 2C)**



**Plot 7-233. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

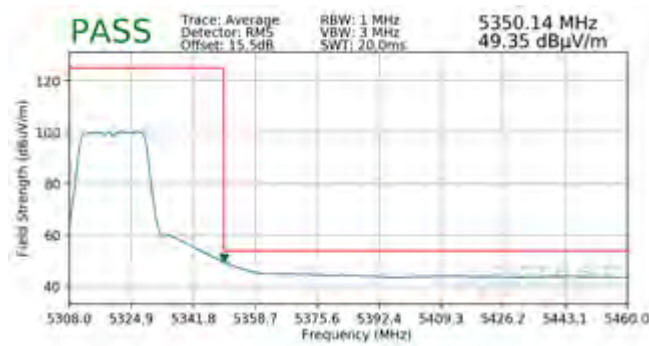
Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165



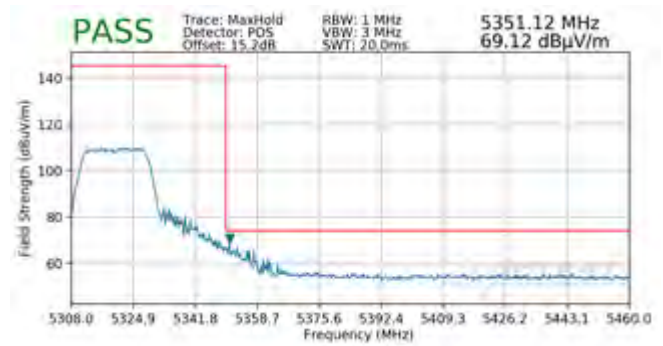
**Plot 7-234. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset		Page 171 of 197

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



**Plot 7-235. Radiated Band Edge Plot (Average – WCP)**



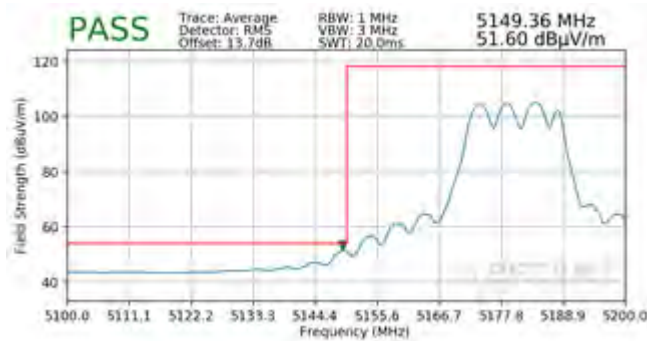
**Plot 7-236. Radiated Band Edge Plot (Peak – WCP)**

FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>		 <b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset	Page 172 of 197

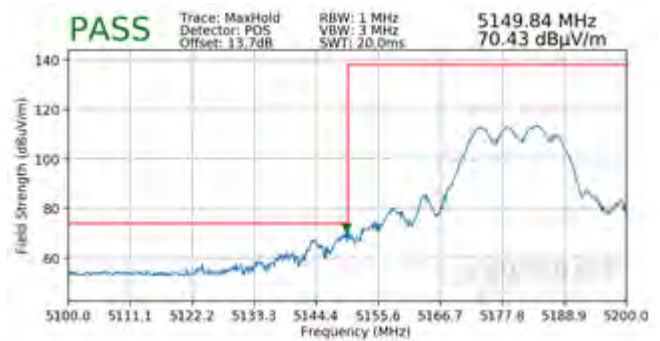


### 7.6.11 CDD Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11g  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5180MHz  
 Channel: 36



**Plot 7-237. Radiated Lower Band Edge Plot (Average – UNII Band 1)**

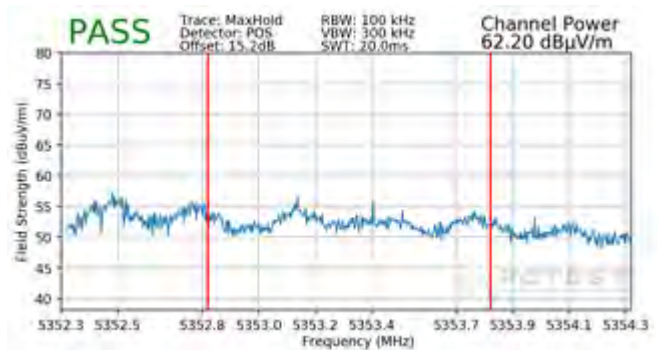


**Plot 7-238. Radiated Lower Band Edge Plot (Peak – UNII Band 1)**

Worst Case Mode: 802.11g  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



**Plot 7-239. Radiated Upper Band Edge Plot (Average – UNII Band 2A)**



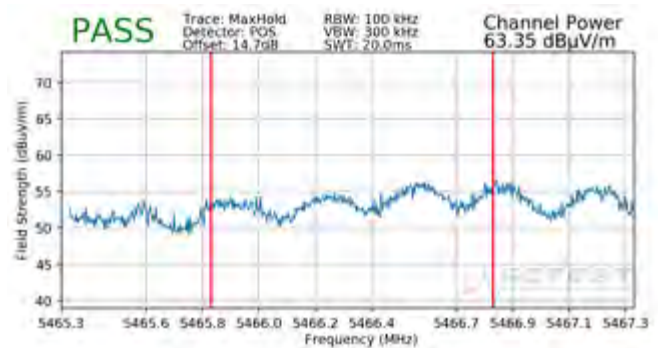
**Plot 7-240. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMN960U			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset			Page 173 of 197

Worst Case Mode: 802.11g  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5500MHz  
 Channel: 100

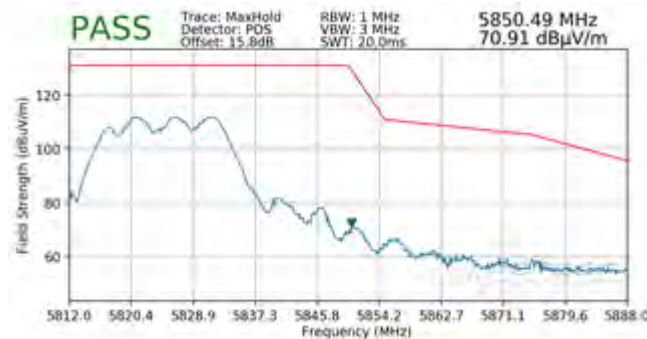


**Plot 7-241. Radiated Upper Band Edge Plot (Average – UNII Band 2C)**



**Plot 7-242. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

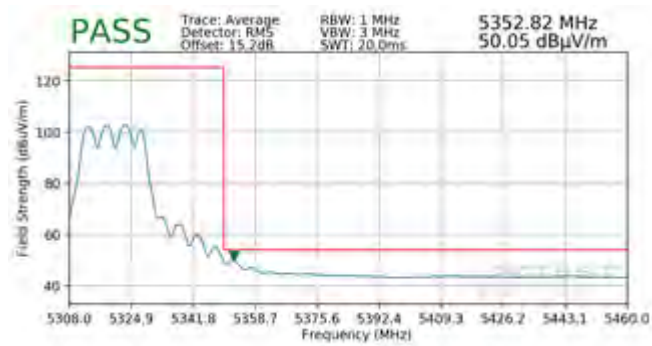
Worst Case Mode: 802.11g  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5825MHz  
 Channel: 165



**Plot 7-243. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSMN960U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 174 of 197	

Worst Case Mode: 802.11g  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5320MHz  
 Channel: 64



**Plot 7-244. Radiated Band Edge Plot (Average – WCP)**

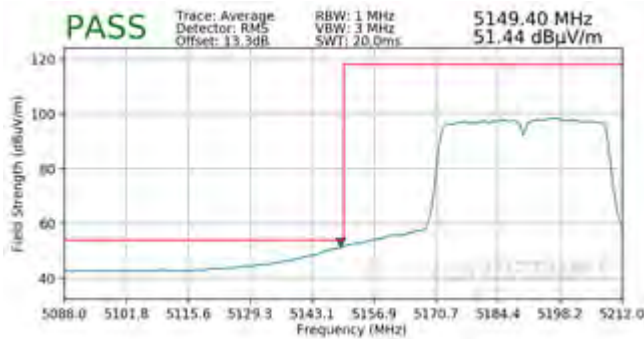


**Plot 7-245. Radiated Band Edge Plot (Peak – WCP)**

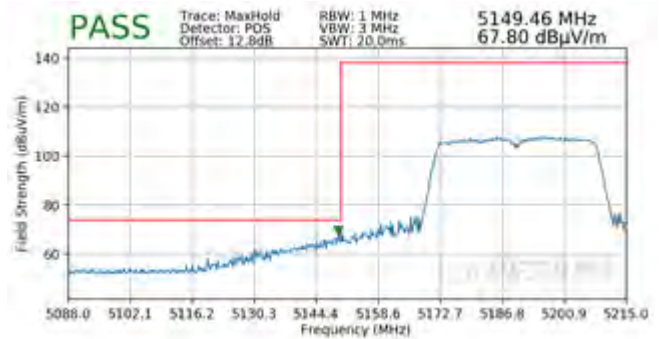
FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset	Page 175 of 197	

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

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38



**Plot 7-246. Radiated Lower Band Edge Plot (Average – UNII Band 1)**

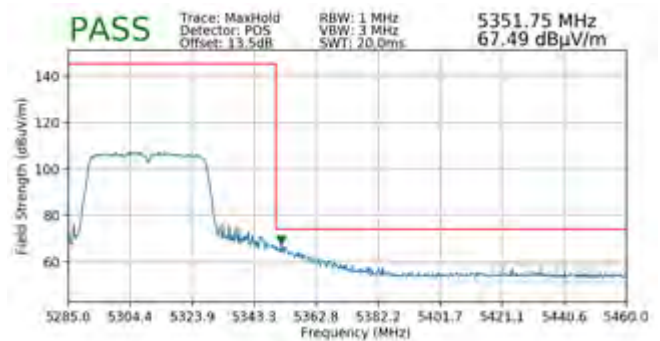


**Plot 7-247. Radiated Lower Band Edge Plot (Peak – UNII Band 1)**

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



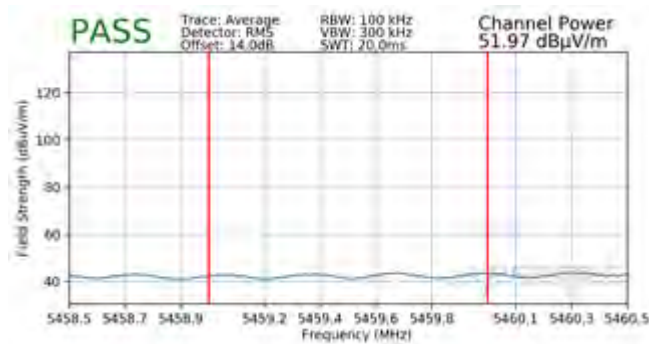
**Plot 7-248. Radiated Upper Band Edge Plot (Average – UNII Band 2A)**



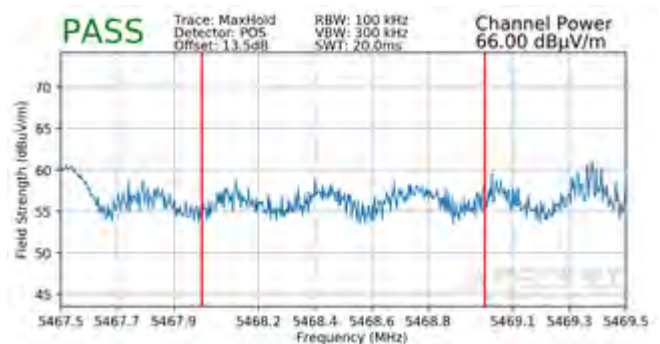
**Plot 7-249. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset	Page 176 of 197		

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102

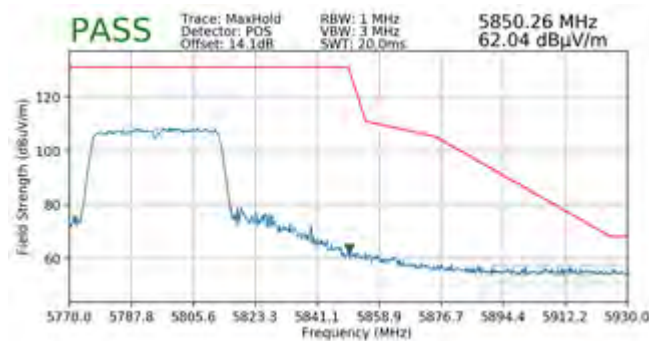


**Plot 7-250. Radiated Lower Band Edge Plot (Average – UNII Band 2C)**



**Plot 7-251. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)**

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5795MHz  
 Channel: 159



**Plot 7-252. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

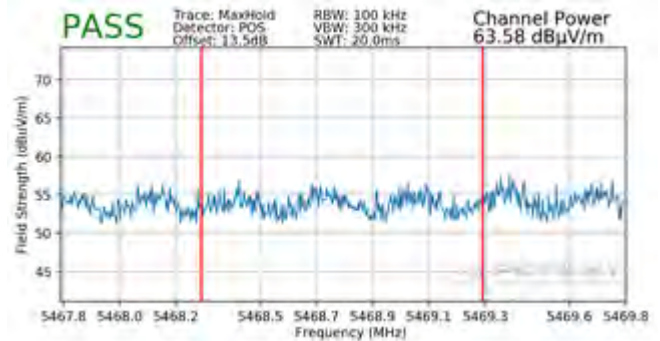
FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 177 of 197	



Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5510MHz  
 Channel: 102



**Plot 7-253. Radiated Band Edge Plot (Average – WCP)**

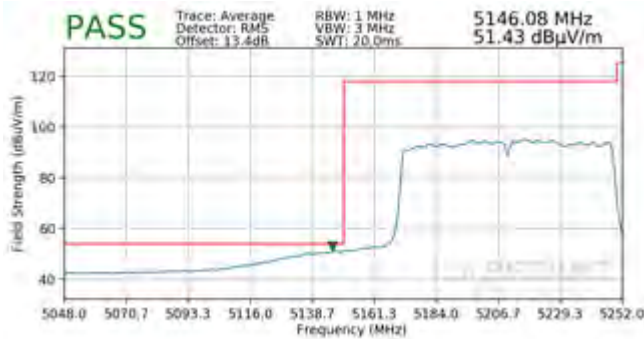


**Plot 7-254. Radiated Band Edge Plot (Peak – WCP)**

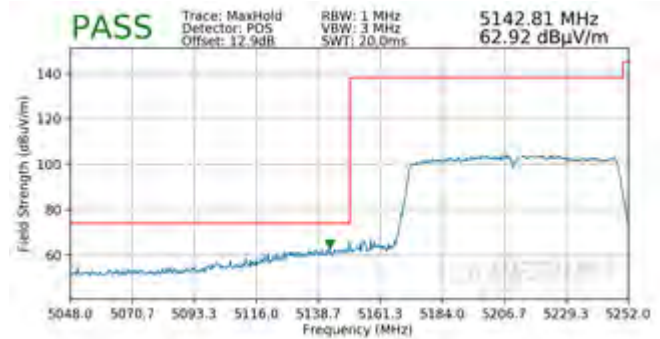
FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 178 of 197	

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

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5210MHz  
 Channel: 42

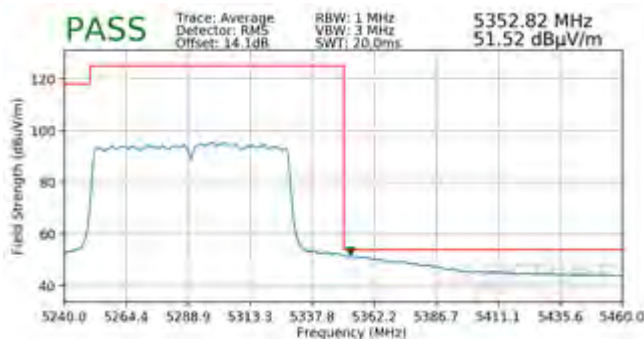


**Plot 7-255. Radiated Lower Band Edge Plot (Average – UNII Band 1)**

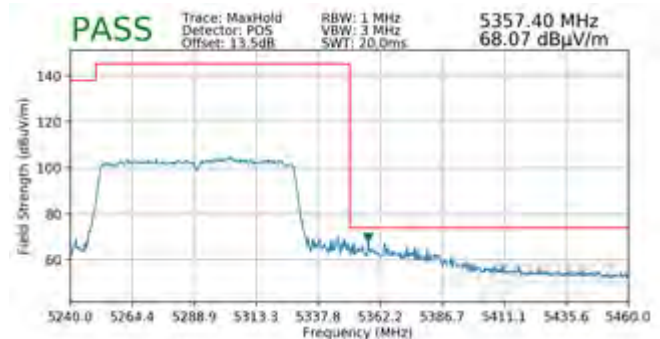


**Plot 7-256. Radiated Lower Band Edge Plot (Peak – UNII Band 1)**

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5290MHz  
 Channel: 58



**Plot 7-257. Radiated Upper Band Edge Plot (Average – UNII Band 2A)**



**Plot 7-258. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)**

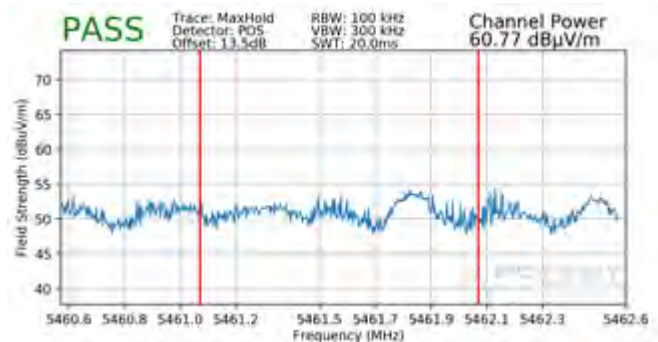
FCC ID: A3LSMN960U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 179 of 197	



Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5530MHz  
 Channel: 106

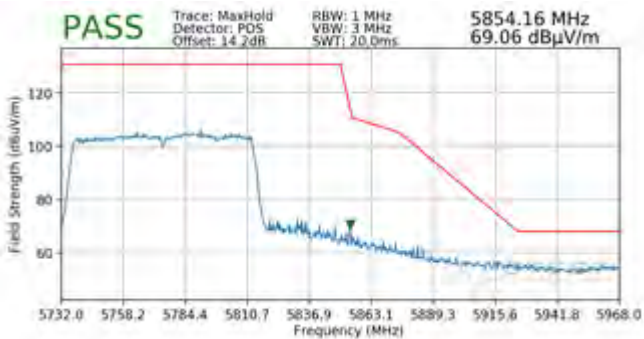


**Plot 7-259. Radiated Lower Band Edge Plot (Average – UNII Band 2C)**



**Plot 7-260. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)**

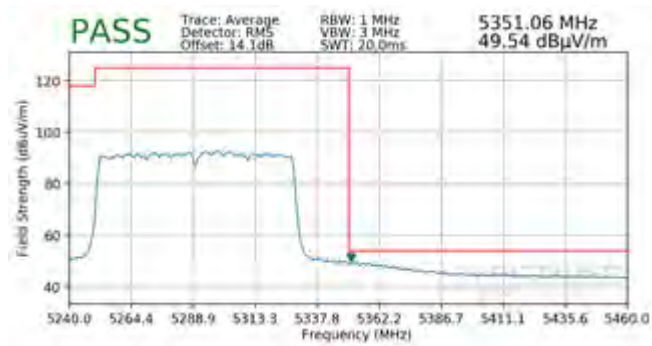
Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5775MHz  
 Channel: 155



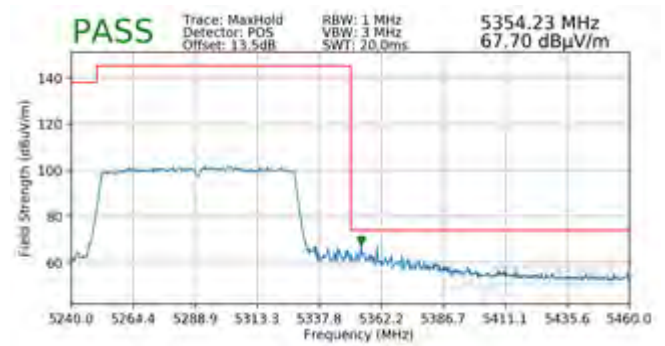
**Plot 7-261. Radiated Upper Band Edge Plot (Peak – UNII Band 3)**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset	Page 180 of 197		

Worst Case Mode: 802.11ac  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5290MHz  
 Channel: 58



**Plot 7-262. Radiated Band Edge Plot (Average – WCP)**



**Plot 7-263. Radiated Band Edge Plot (Peak – WCP)**

FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 181 of 197	

## 7.7 Radiated Spurious Emissions Measurements – Below 1GHz §15.209; RSS-Gen [8.9]

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

**All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-82 per Section 15.209 and RSS-Gen (8.9).**

Frequency	Field Strength [ $\mu\text{V/m}$ ]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

**Table 7-82. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013

### Test Settings

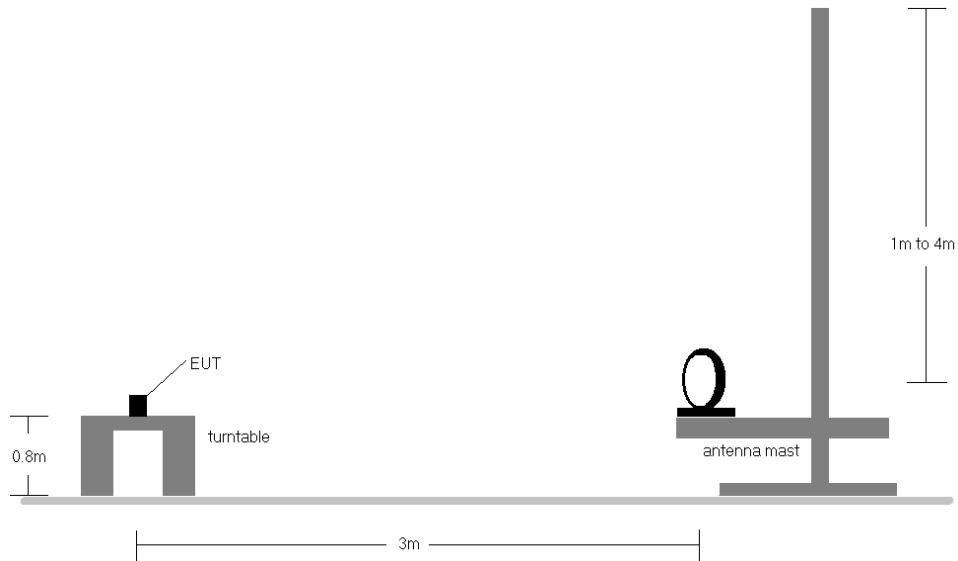
#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

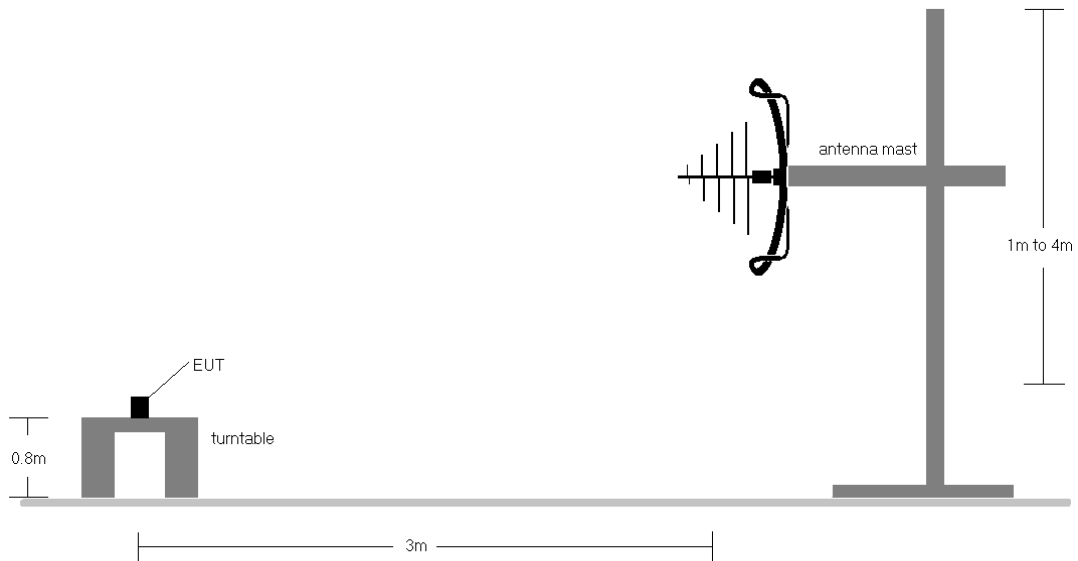
FCC ID: A3LSMN960U			<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset		Page 182 of 197	

### Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.



**Figure 7-6. Radiated Test Setup < 30MHz**



**Figure 7-7. Radiated Test Setup < 1GHz**

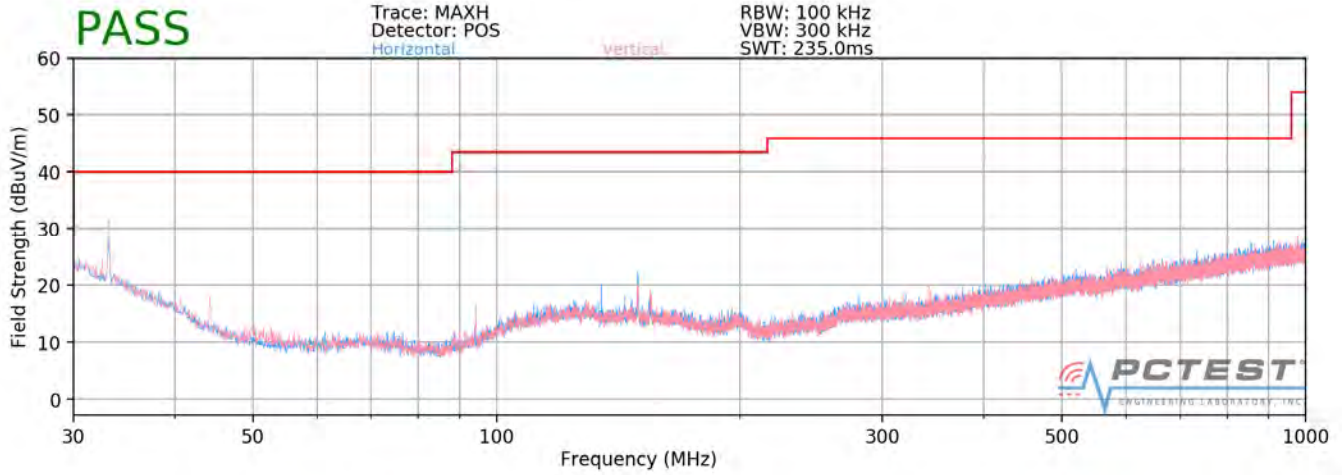
FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 183 of 197

**Test Notes**

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-82.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b> 		Approved by: Quality Manager
Test Report S/N: 1M1804270086-06.A3L	Test Dates: 4/30 - 6/13/2018	EUT Type: Portable Handset	Page 184 of 197

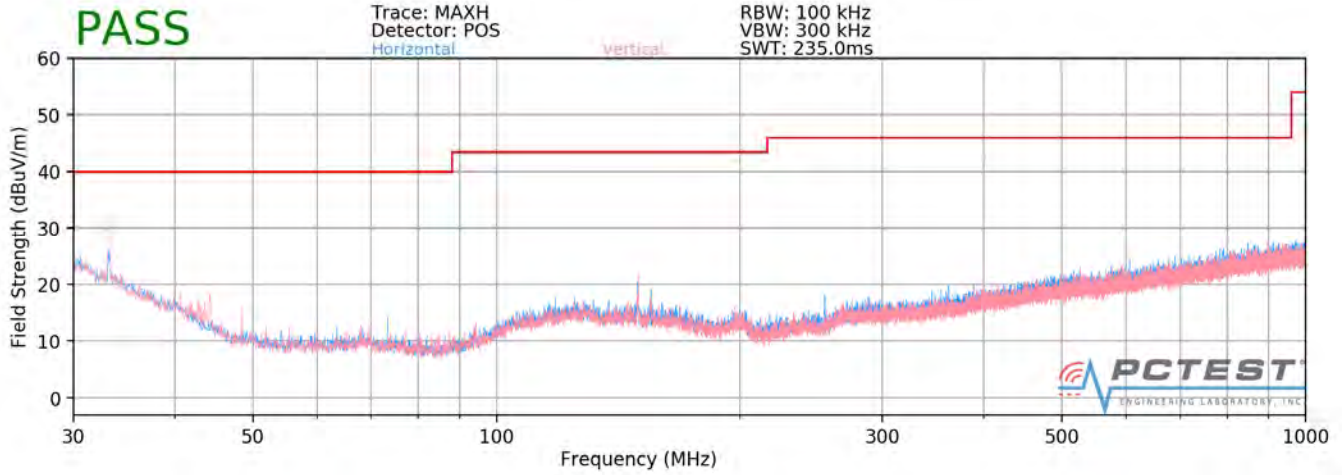
**Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)**  
§15.209; RSS-Gen [8.9]



**Plot 7-264. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157)**

FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1804270086-06.A3L	<b>Test Dates:</b> 4/30 - 6/13/2018	<b>EUT Type:</b> Portable Handset	Page 185 of 197	

**Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz)**  
§15.209; RSS-Gen [8.9]



**Plot 7-265. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157)**

FCC ID: A3LSMN960U	 <b>MEASUREMENT REPORT (CERTIFICATION)</b>			<b>Approved by:</b> Quality Manager
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## 7.8 Line-Conducted Test Data

§15.407; RSS-Gen [8.8]

### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

**All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).**

Frequency of emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-83. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2013, Section 6.2

### Test Settings

#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

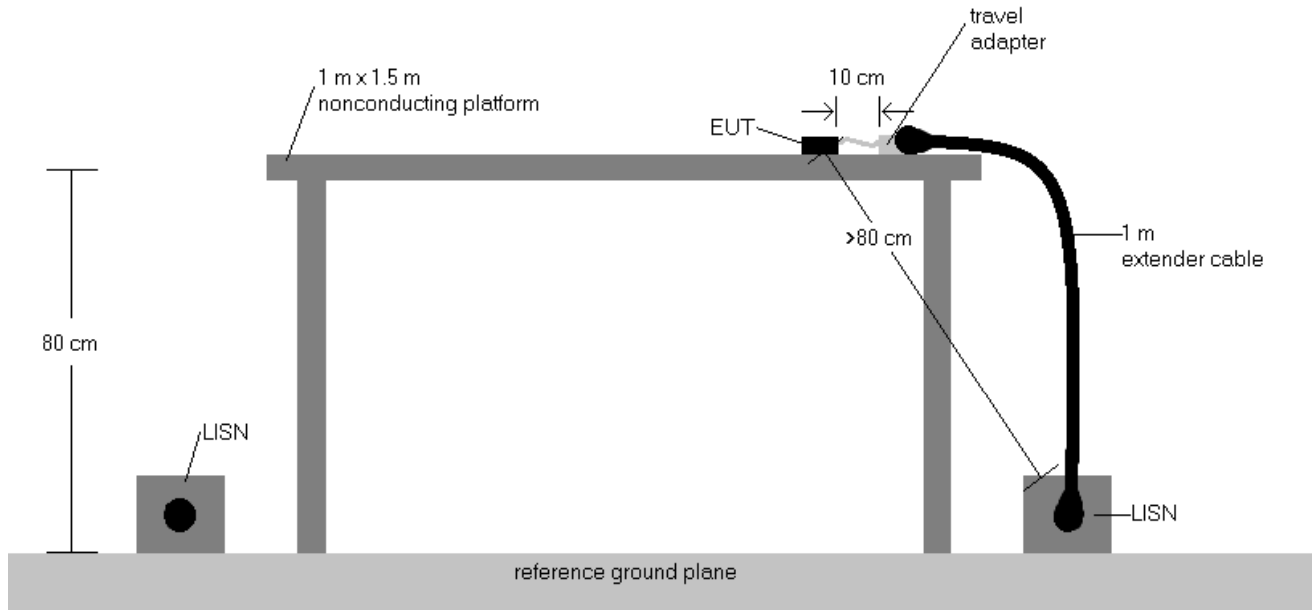
#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

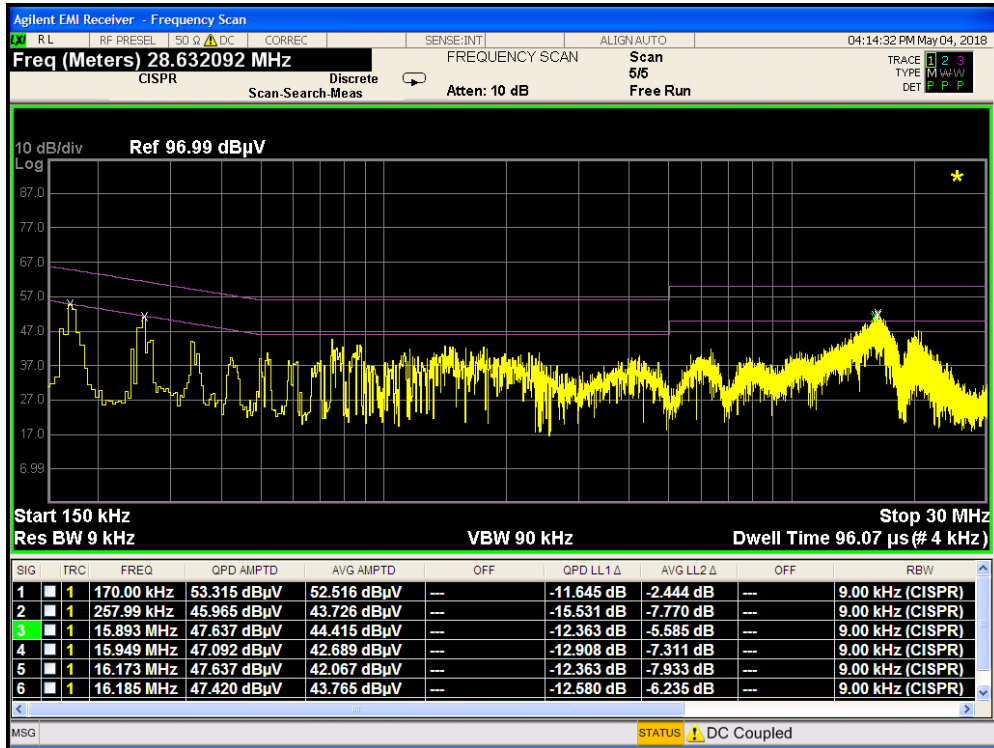


**Figure 7-8. Test Instrument & Measurement Setup**

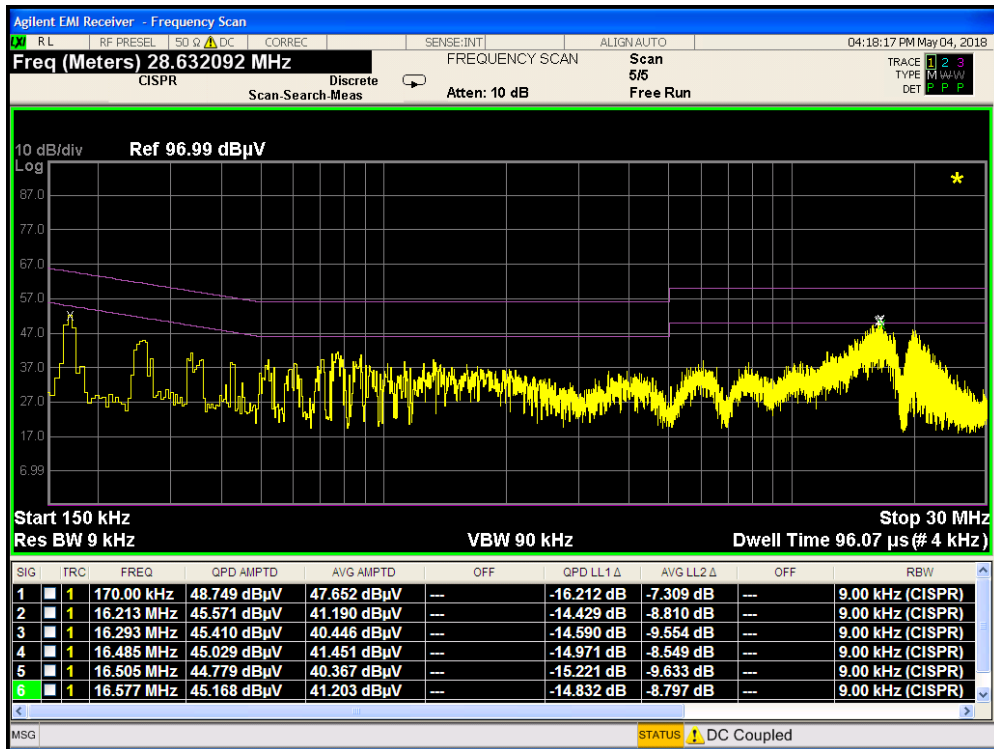
### Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
3.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5.  $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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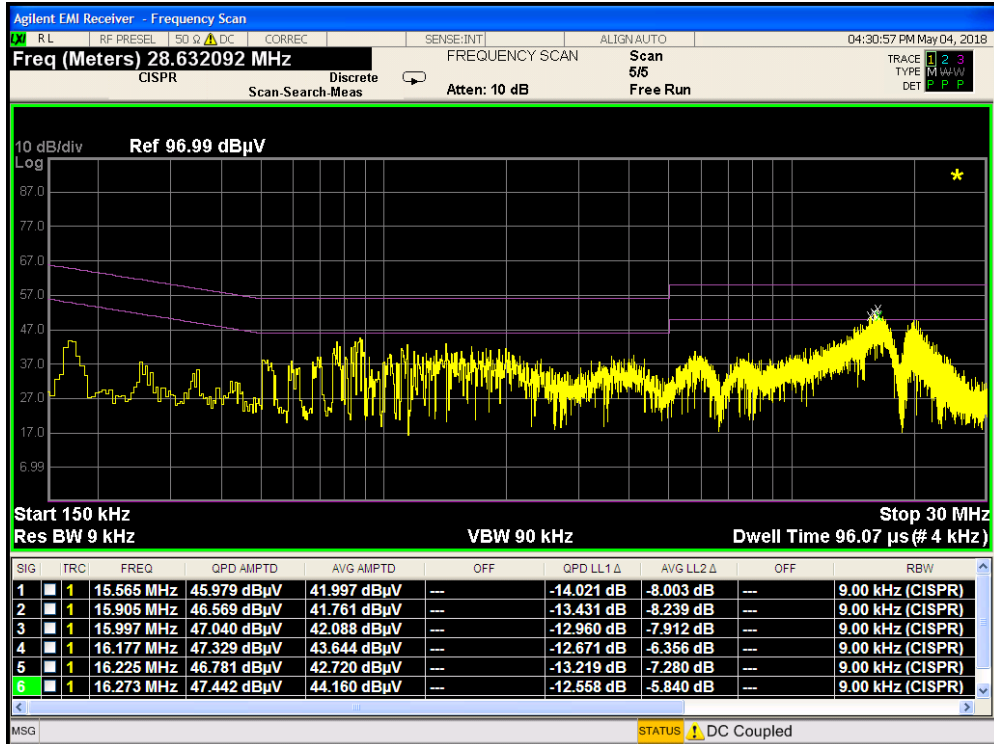


Plot 7-266. Line Conducted Plot with 802.11a UNII Band 1 (L1) with Travel Adapter

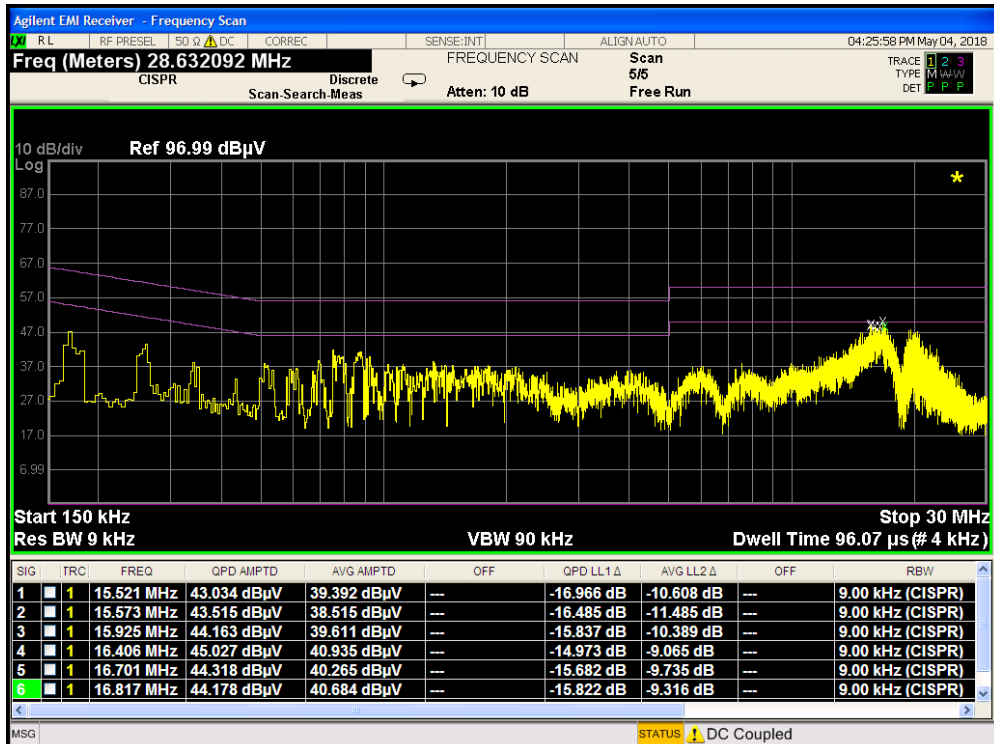


Plot 7-267. Line Conducted Plot with 802.11a UNII Band 1 (N) with Travel Adapter

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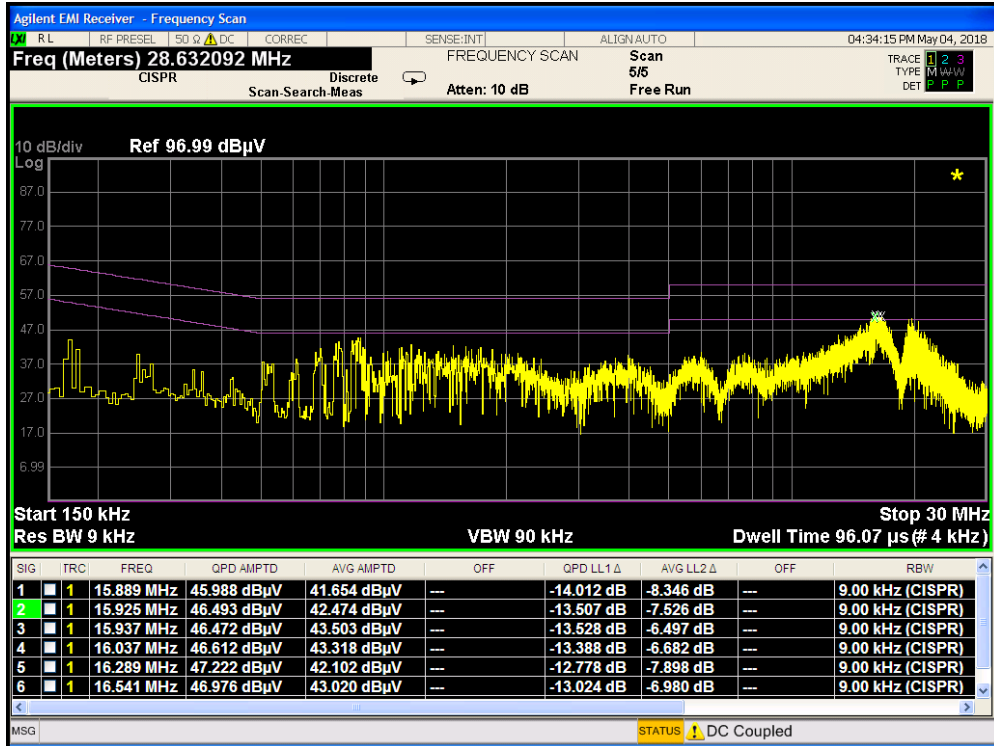


Plot 7-268. Line Conducted Plot with 802.11a UNII Band 2A (L1) with Travel Adapter

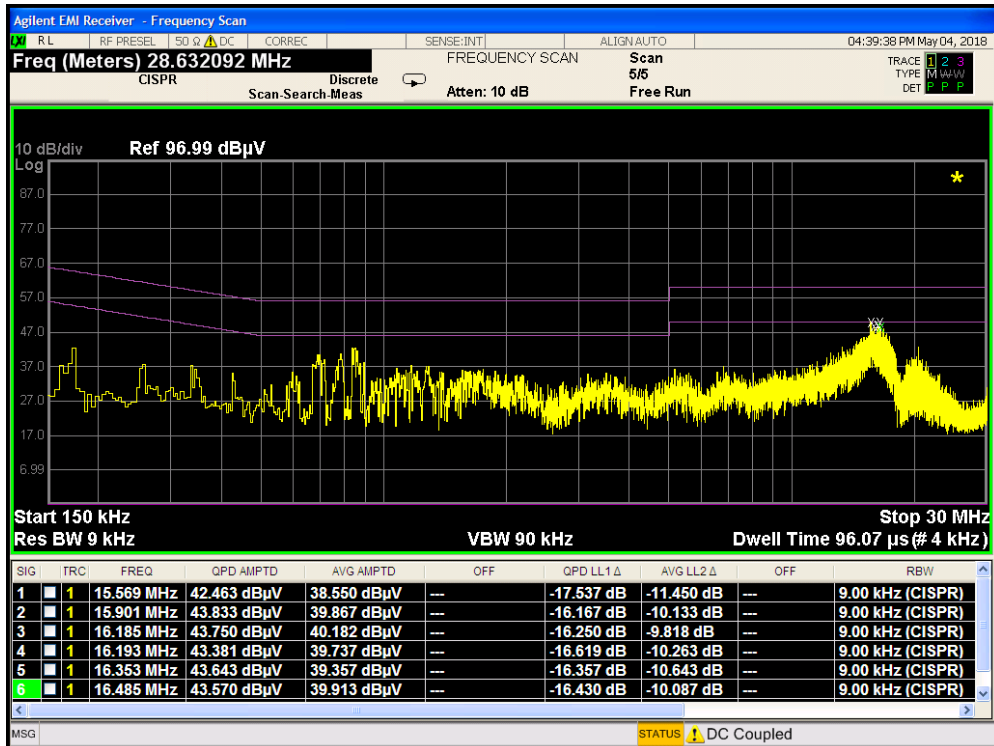


Plot 7-269. Line Conducted Plot with 802.11a UNII Band 2A (N) with Travel Adapter

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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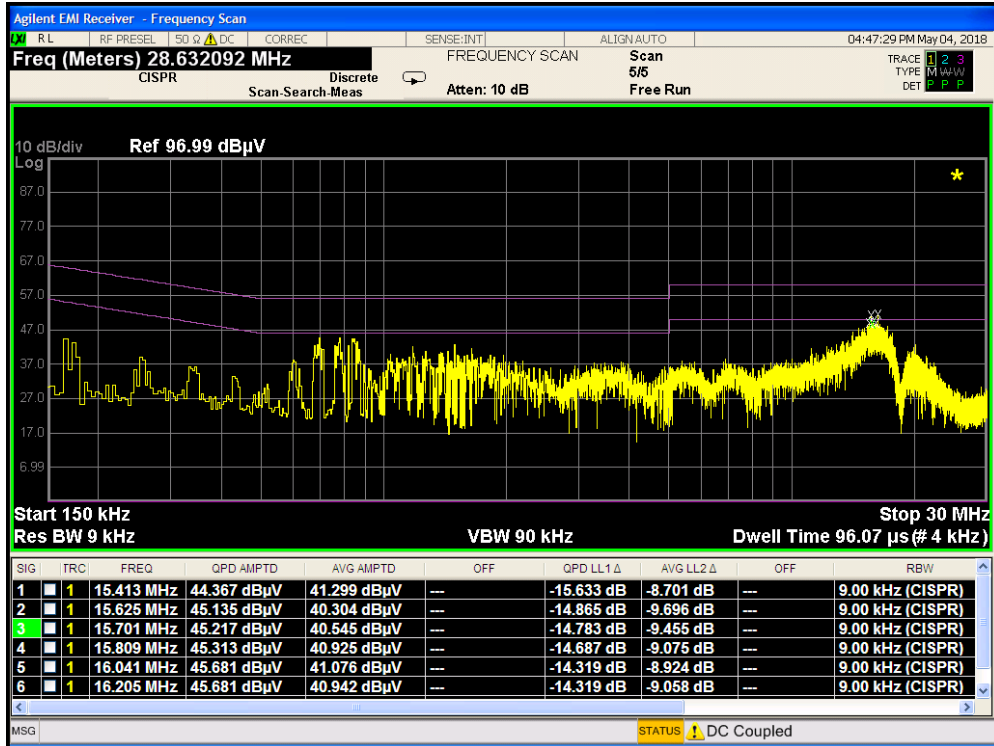


Plot 7-270. Line Conducted Plot with 802.11a UNII Band 2C (L1) with Travel Adapter

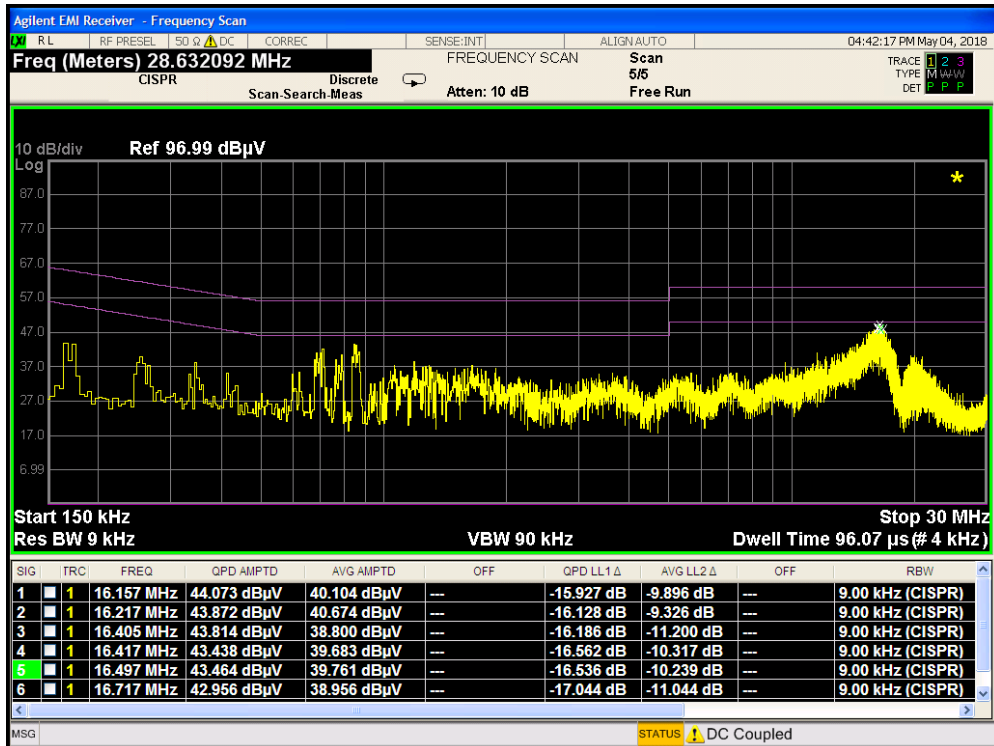


Plot 7-271. Line Conducted Plot with 802.11a UNII Band 2C (N) with Travel Adapter

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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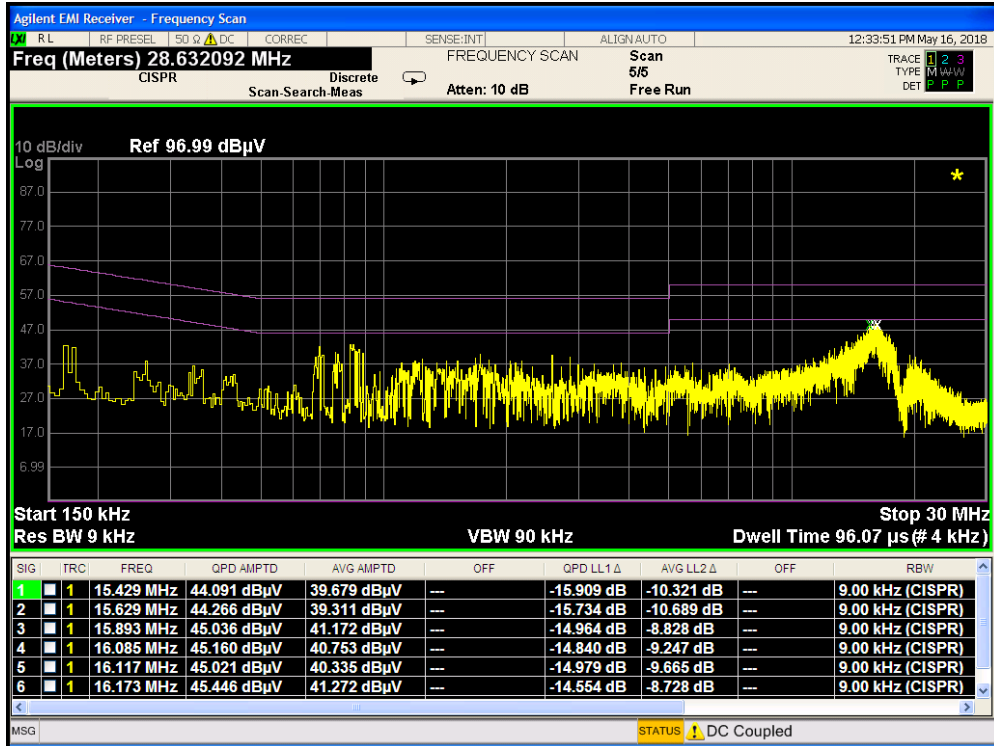


Plot 7-272. Line Conducted Plot with 802.11a UNII Band 3 (L1) with Travel Adapter

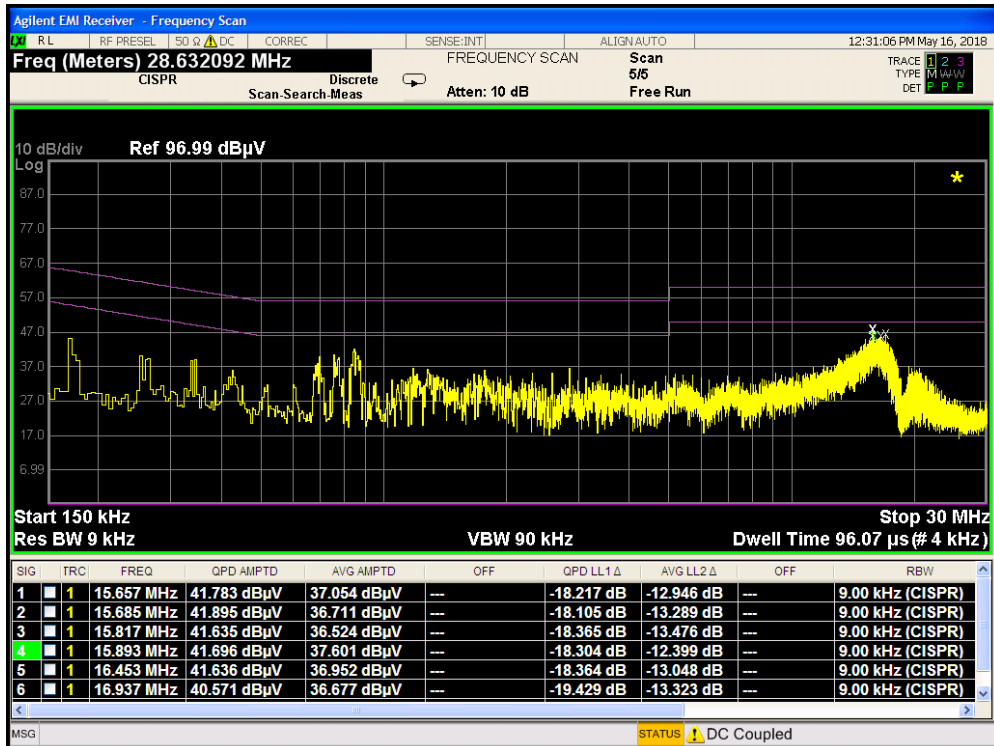


Plot 7-273. Line Conducted Plot with 802.11a UNII Band 3 (N) with Travel Adapter

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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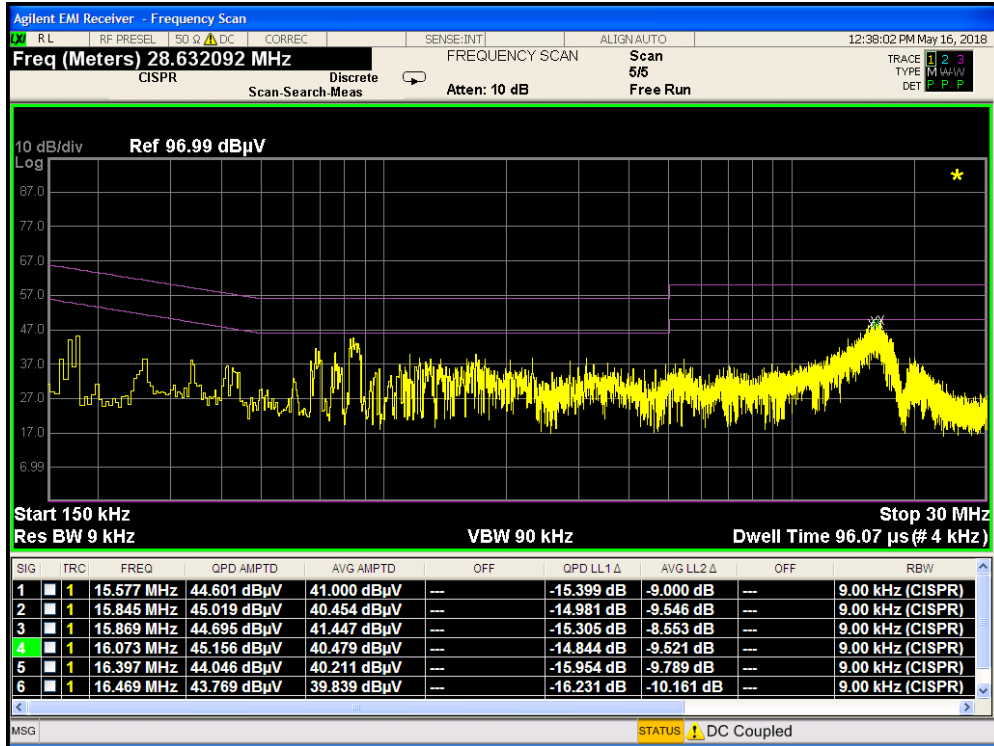
Plot 7-274. Line Conducted Plot with 802.11a UNII Band 1 (L1) with Wireless Charging Pad



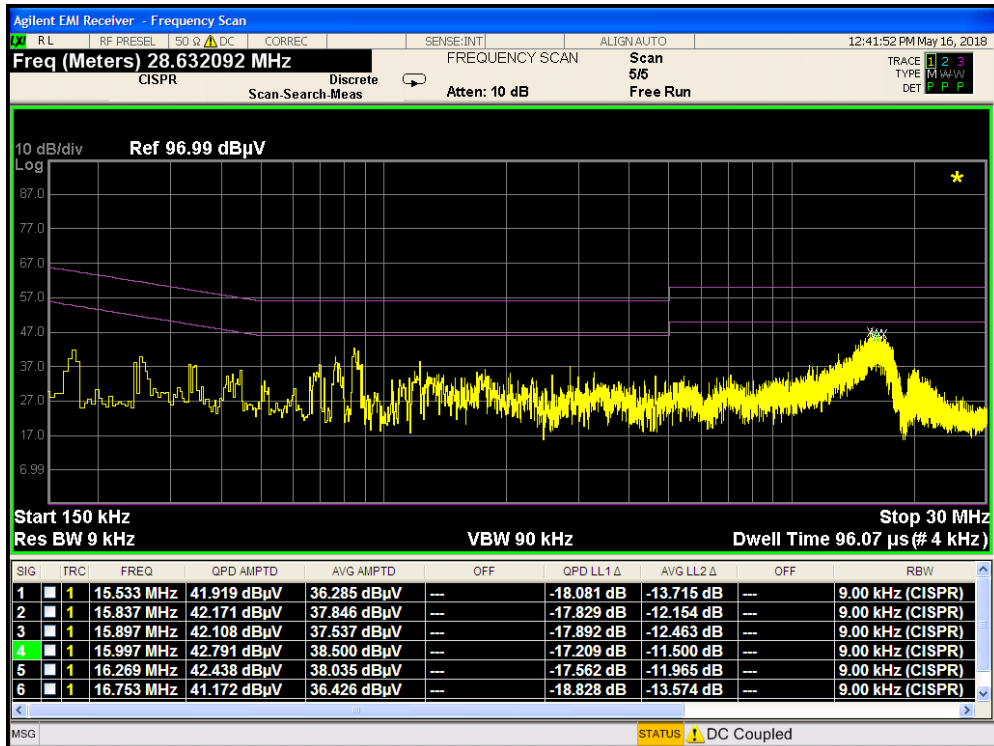
Plot 7-275. Line Conducted Plot with 802.11a UNII Band 1 (N) with Wireless Charging Pad

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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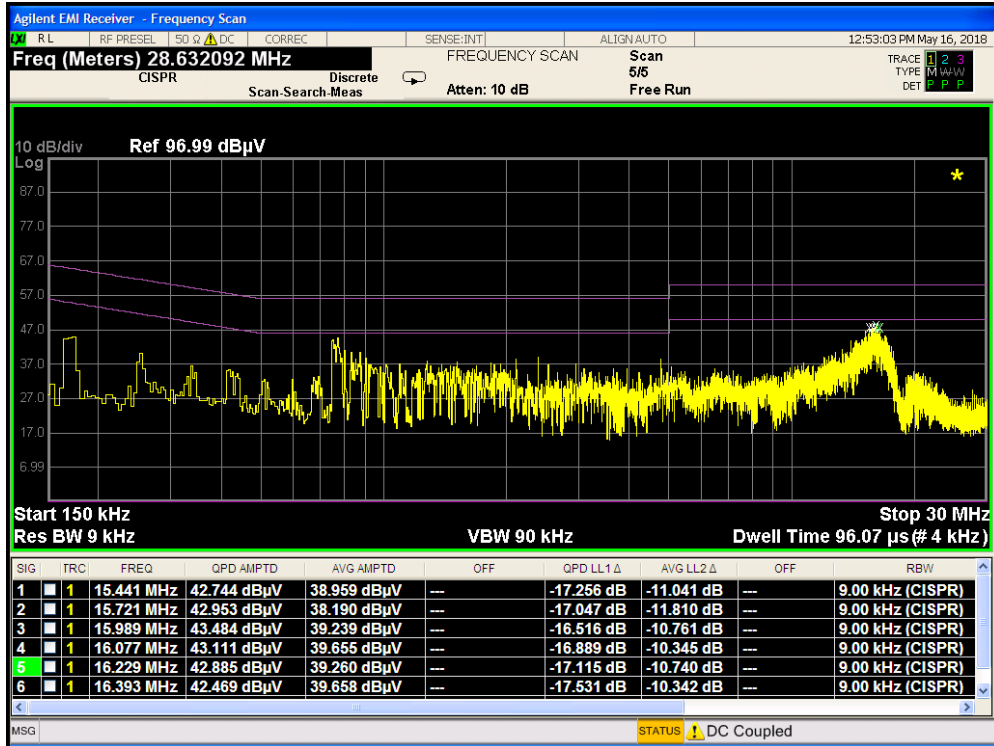


Plot 7-276. Line Conducted Plot with 802.11a UNII Band 2A (L1) with Wireless Charging Pad

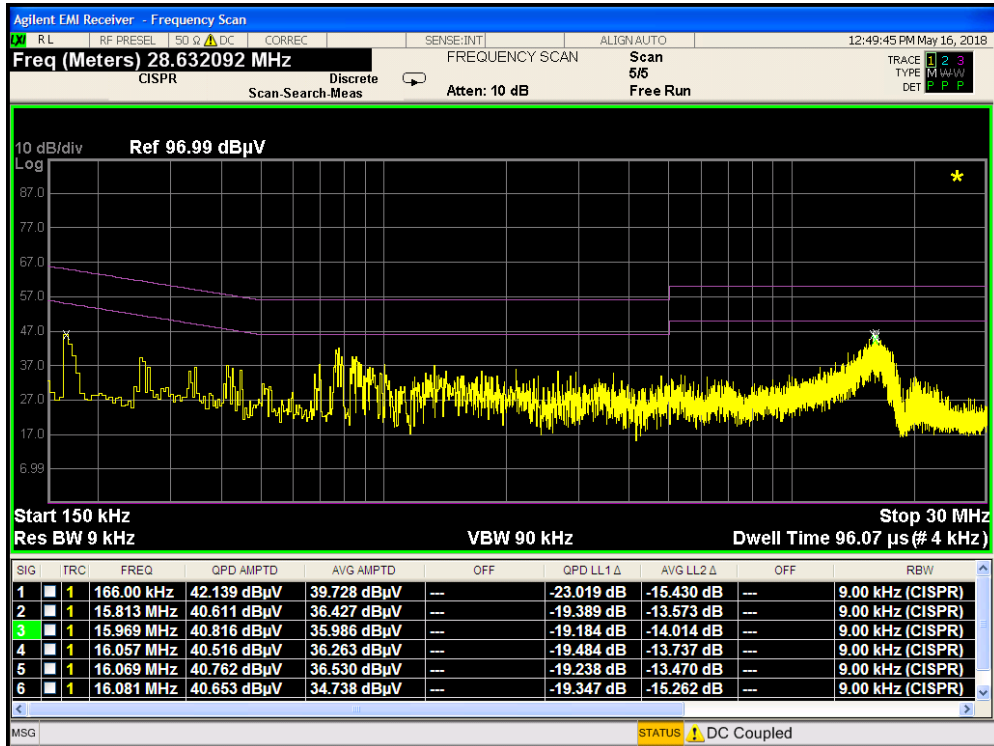


Plot 7-277. Line Conducted Plot with 802.11a UNII Band 2A (N) with Wireless Charging Pad

FCC ID: A3LSMN960U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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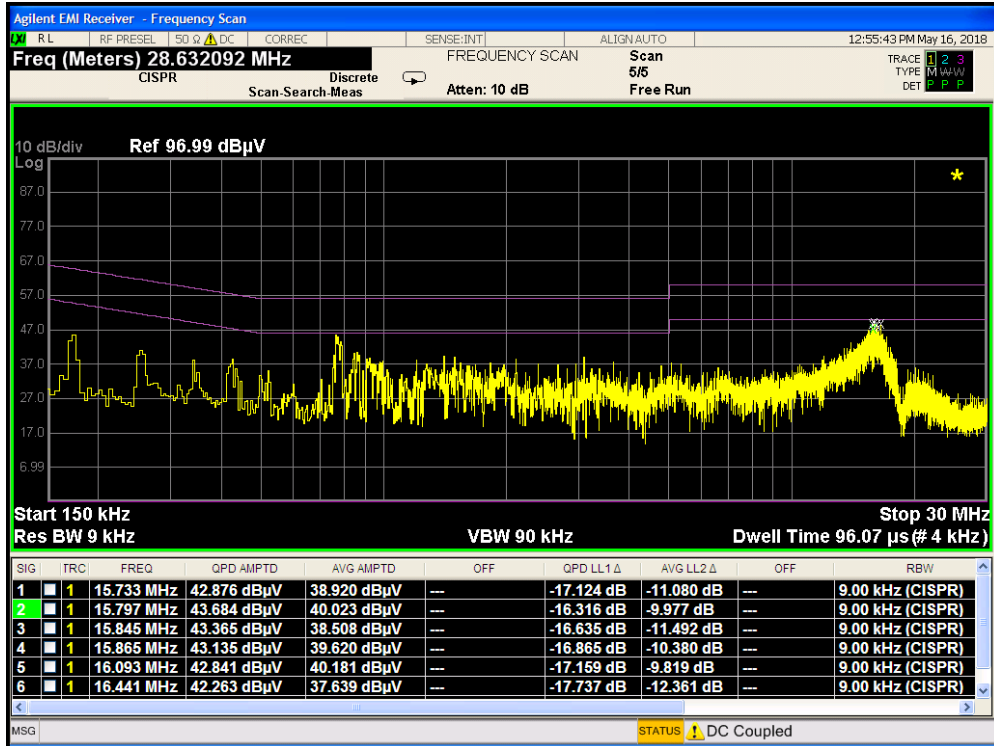


Plot 7-278. Line Conducted Plot with 802.11a UNII Band 2C (L1) with Wireless Charging Pad

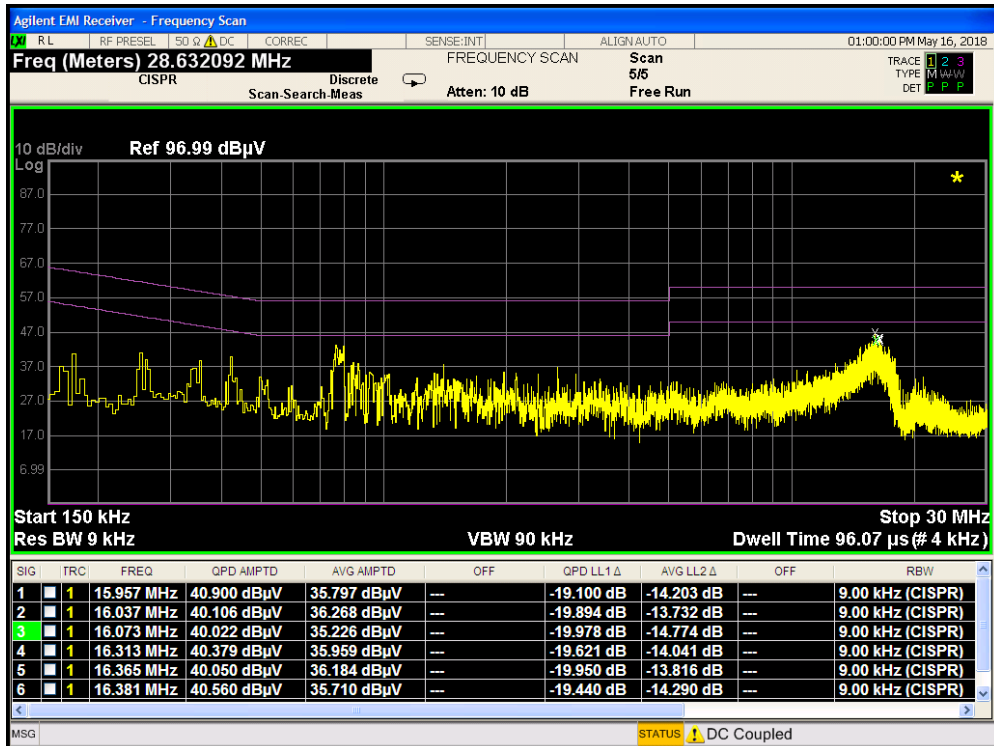


Plot 7-279. Line Conducted Plot with 802.11a UNII Band 2C (N) with Wireless Charging Pad

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Plot 7-280. Line Conducted Plot with 802.11a UNII Band 3 (L1) with Wireless Charging Pad



Plot 7-281. Line Conducted Plot with 802.11a UNII Band 3 (N) with Wireless Charging Pad

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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMN960U** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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