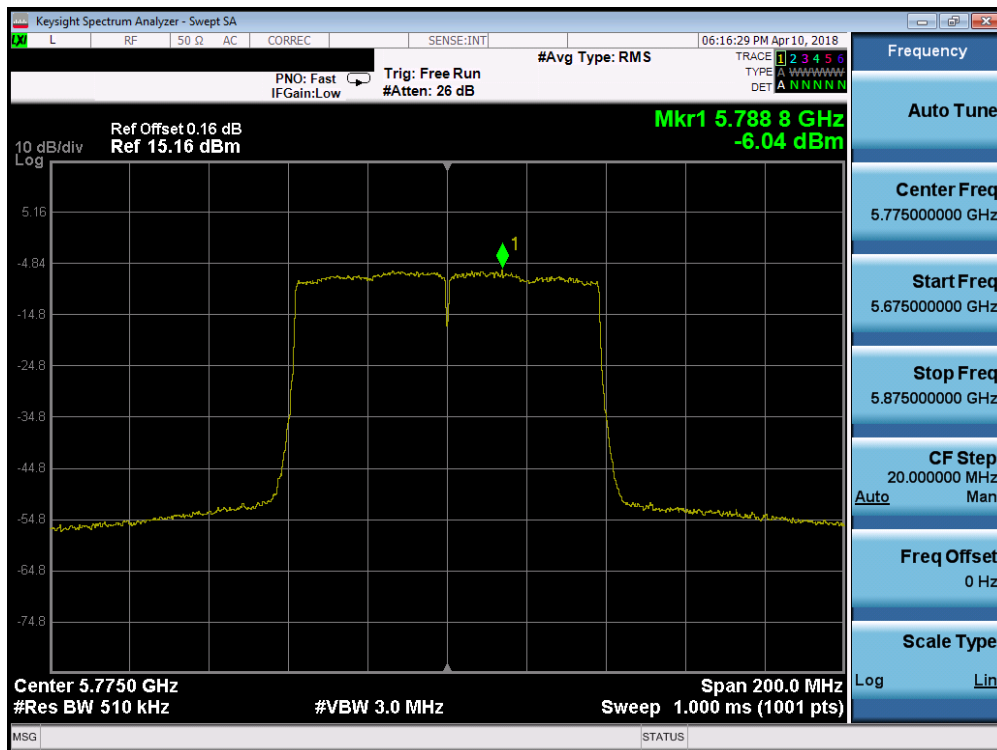


Plot 7-116. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 159)



Plot 7-117. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

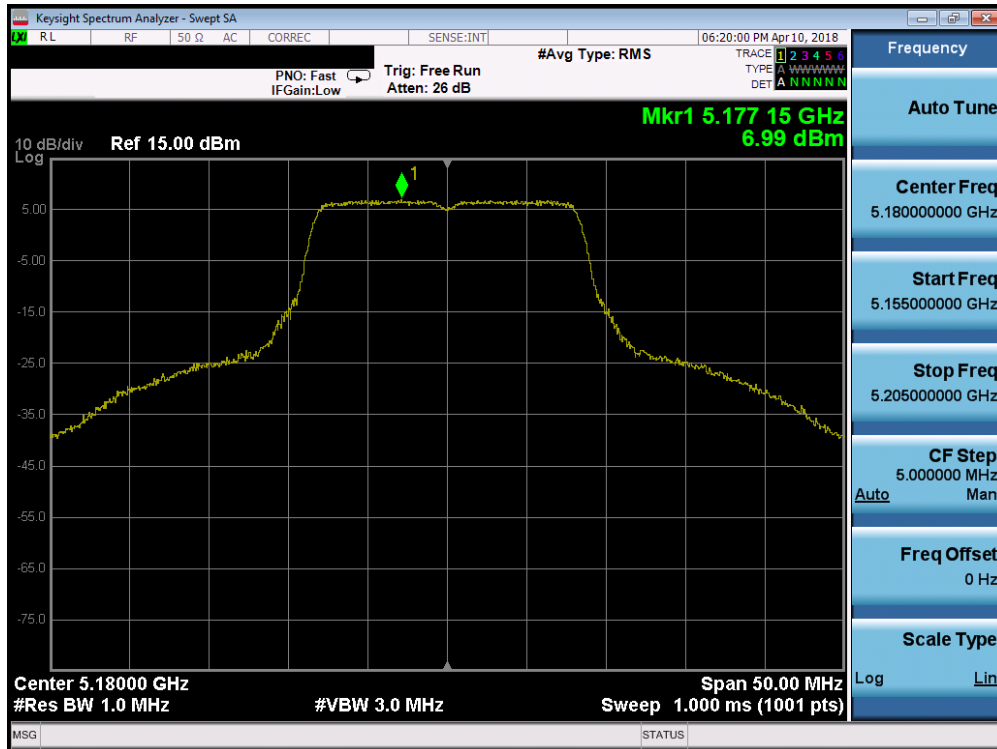
FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 88 of 189

Antenna-2 Power Spectral Density Measurements

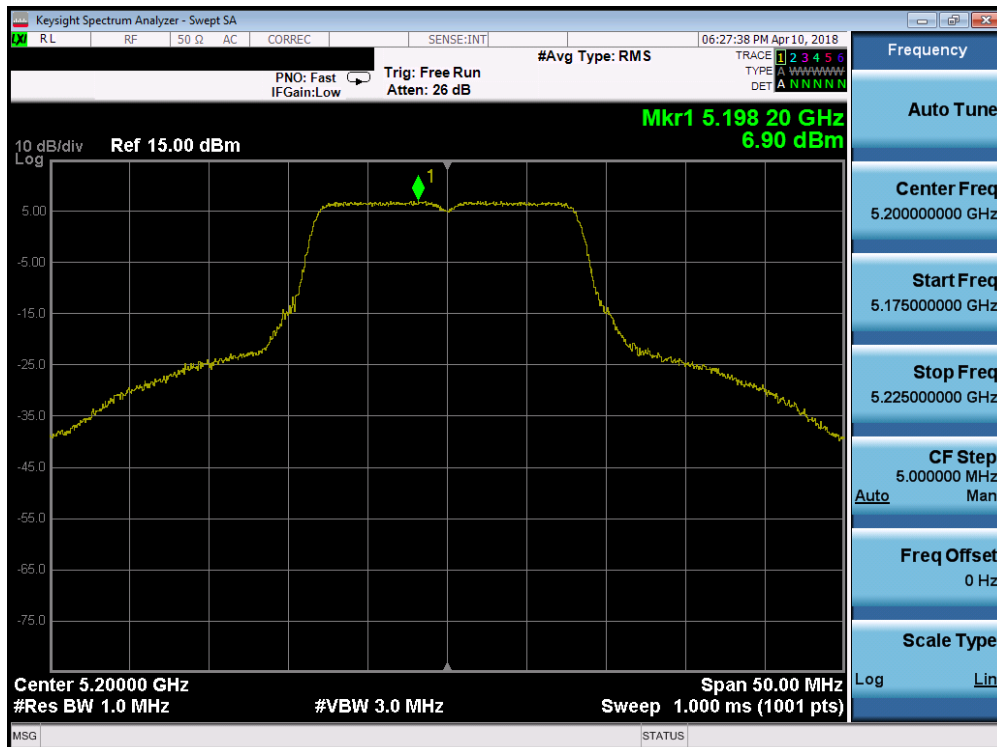
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	6.99	11.0	-4.01
	5200	40	a	6	6.90	11.0	-4.10
	5240	48	a	6	6.94	11.0	-4.06
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	6.34	11.0	-4.66
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	6.54	11.0	-4.46
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.47	11.0	-4.53
	5190	38	n (40MHz)	13.5/15 (MCS0)	0.97	11.0	-10.03
	5230	46	n (40MHz)	13.5/15 (MCS0)	0.96	11.0	-10.04
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-4.03	11.0	-15.03
Band 2A	5260	52	a	6	6.35	11.0	-4.65
	5280	56	a	6	6.13	11.0	-4.87
	5320	64	a	6	6.25	11.0	-4.75
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	5.86	11.0	-5.14
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	5.88	11.0	-5.12
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	5.73	11.0	-5.28
	5270	54	n (40MHz)	13.5/15 (MCS0)	1.42	11.0	-9.58
	5310	62	n (40MHz)	13.5/15 (MCS0)	1.20	11.0	-9.80
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-3.31	11.0	-14.31
Band 2C	5500	100	a	6	6.15	11.0	-4.85
	5600	120	a	6	5.29	11.0	-5.71
	5720	144	a	6	4.92	11.0	-6.08
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	4.73	11.0	-6.27
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	5.04	11.0	-5.96
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	4.64	11.0	-6.36
	5510	102	n (40MHz)	13.5/15 (MCS0)	0.35	11.0	-10.65
	5590	118	n (40MHz)	13.5/15 (MCS0)	-1.06	11.0	-12.06
	5710	142	n (40MHz)	13.5/15 (MCS0)	0.22	11.0	-10.78
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-4.12	11.0	-15.12
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-4.48	11.0	-15.48
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-8.37	11.0	-19.37

Table 7-20. Conducted Power Spectral Density Measurements

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 89 of 189

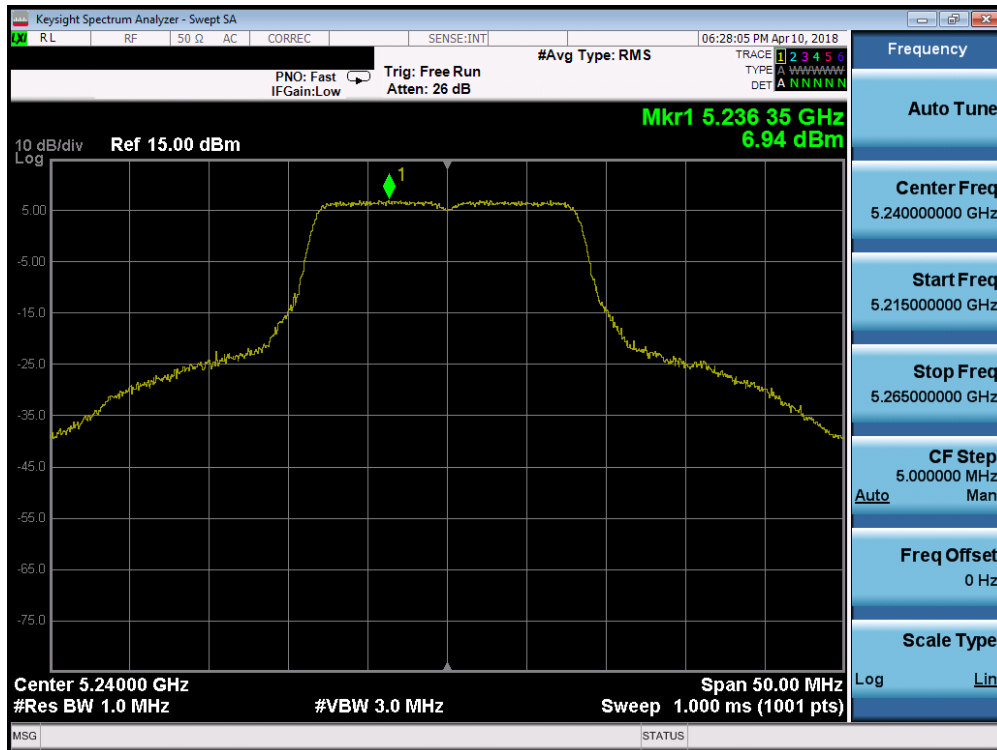


Plot 7-118. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 36)

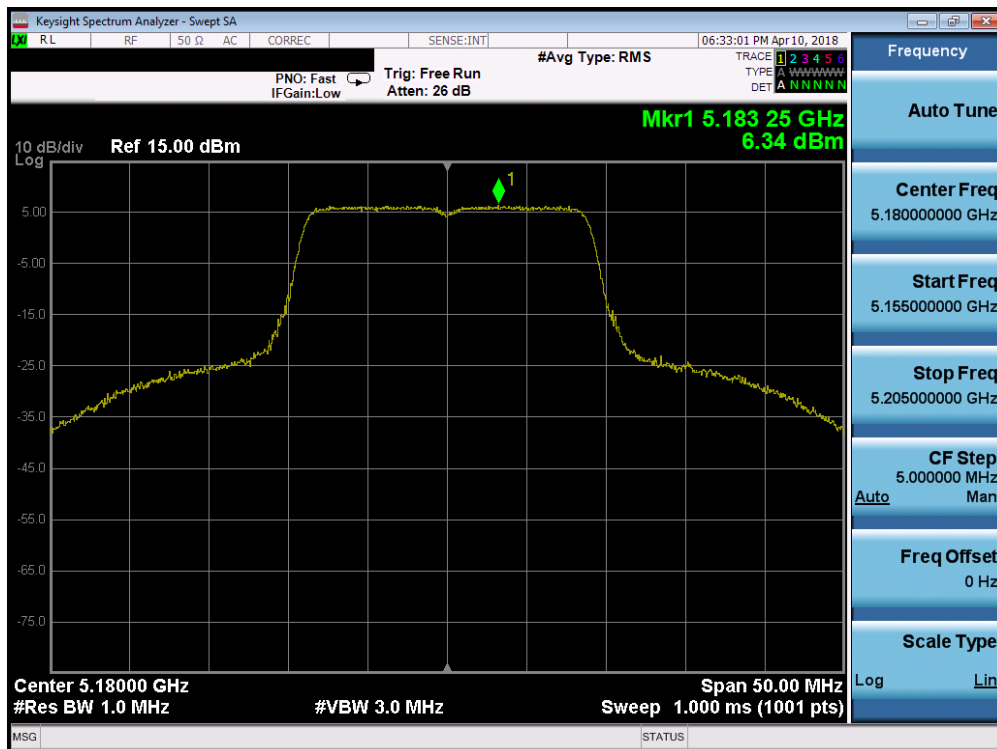


Plot 7-119. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 40)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 90 of 189

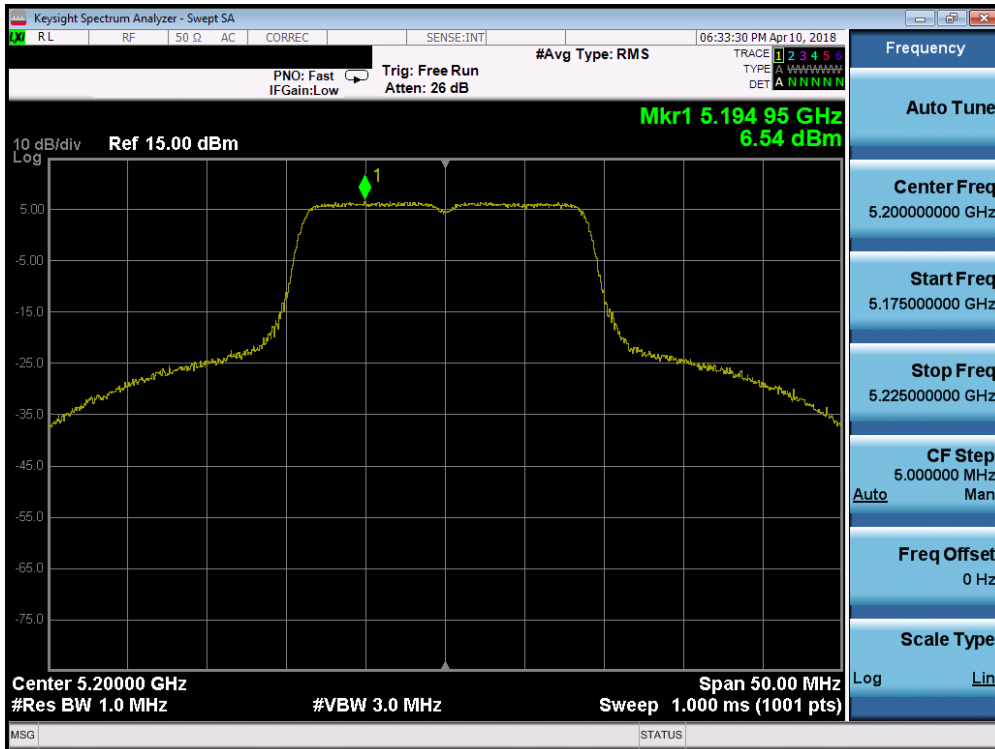


Plot 7-120. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 48)

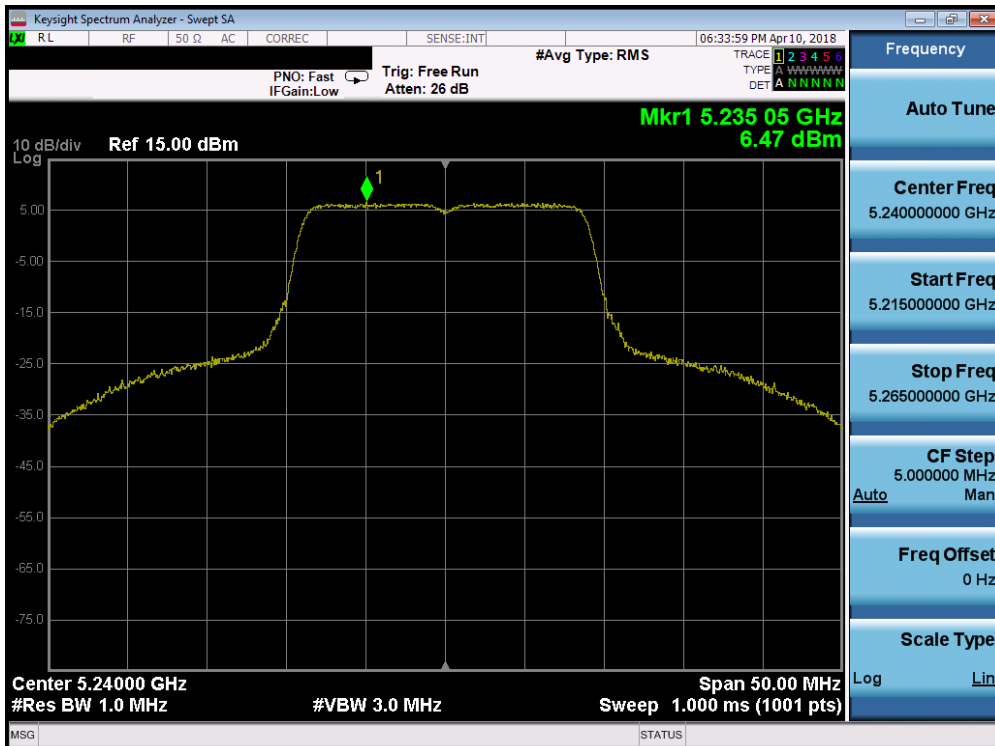


Plot 7-121. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 91 of 189

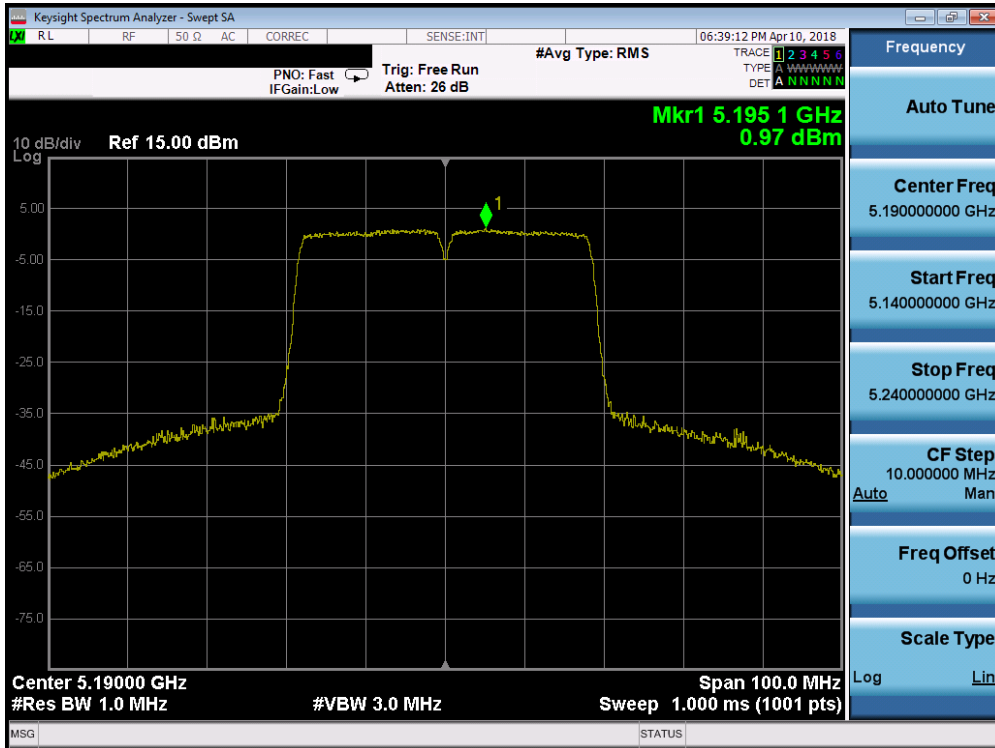


Plot 7-122. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

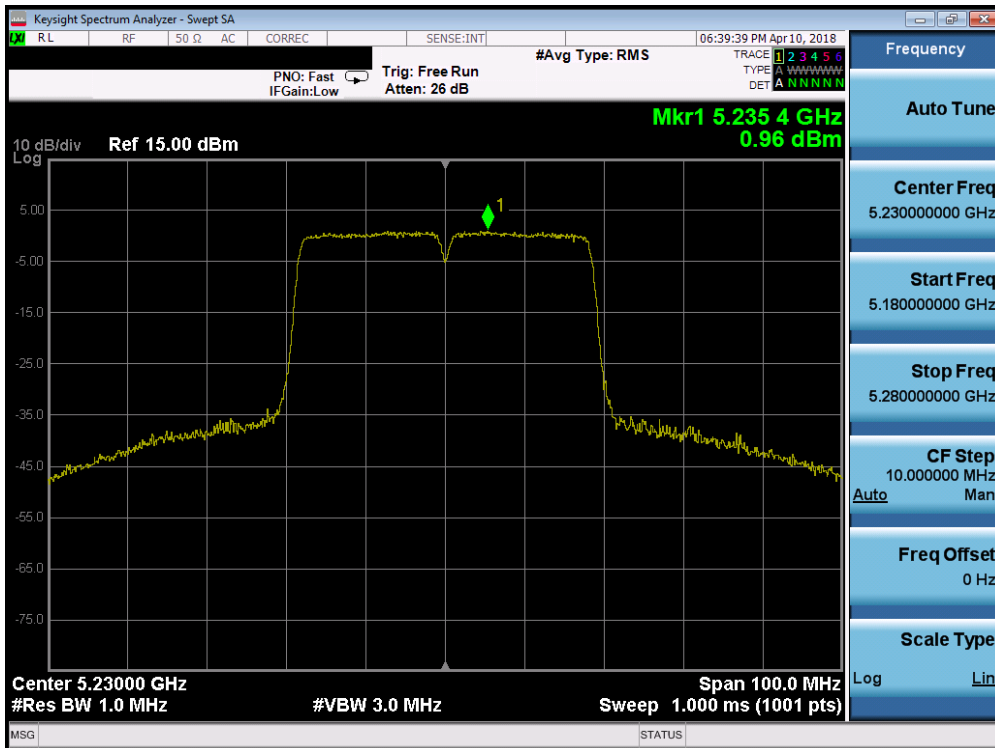


Plot 7-123. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 92 of 189

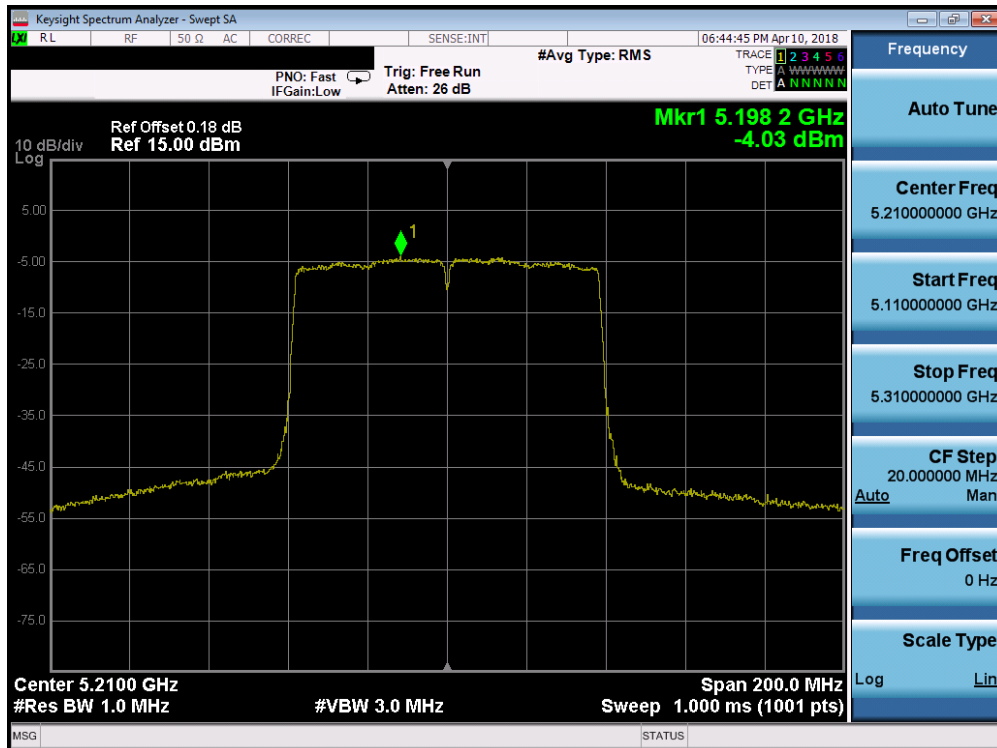


Plot 7-124. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

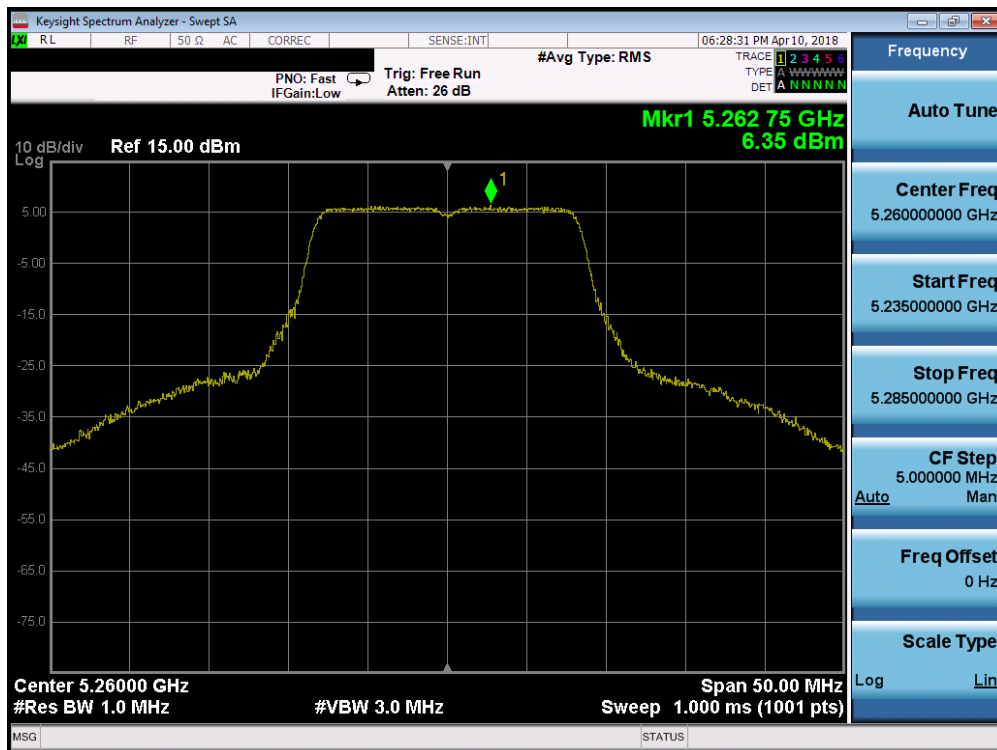


Plot 7-125. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: A3LSMN960KOR	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 93 of 189	

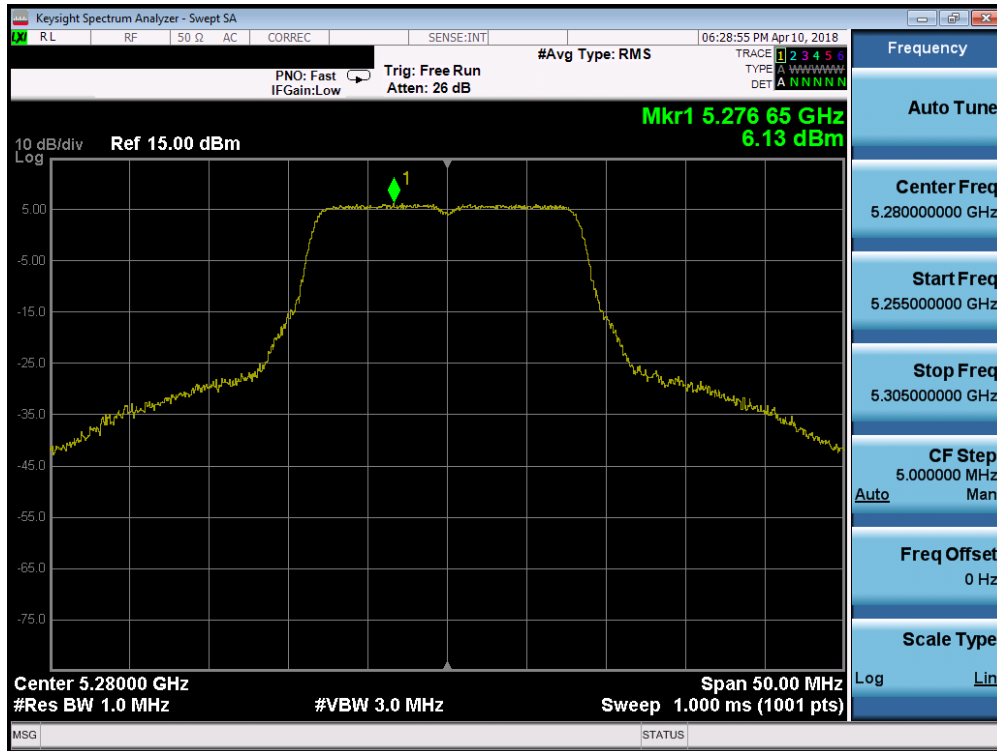


Plot 7-126. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

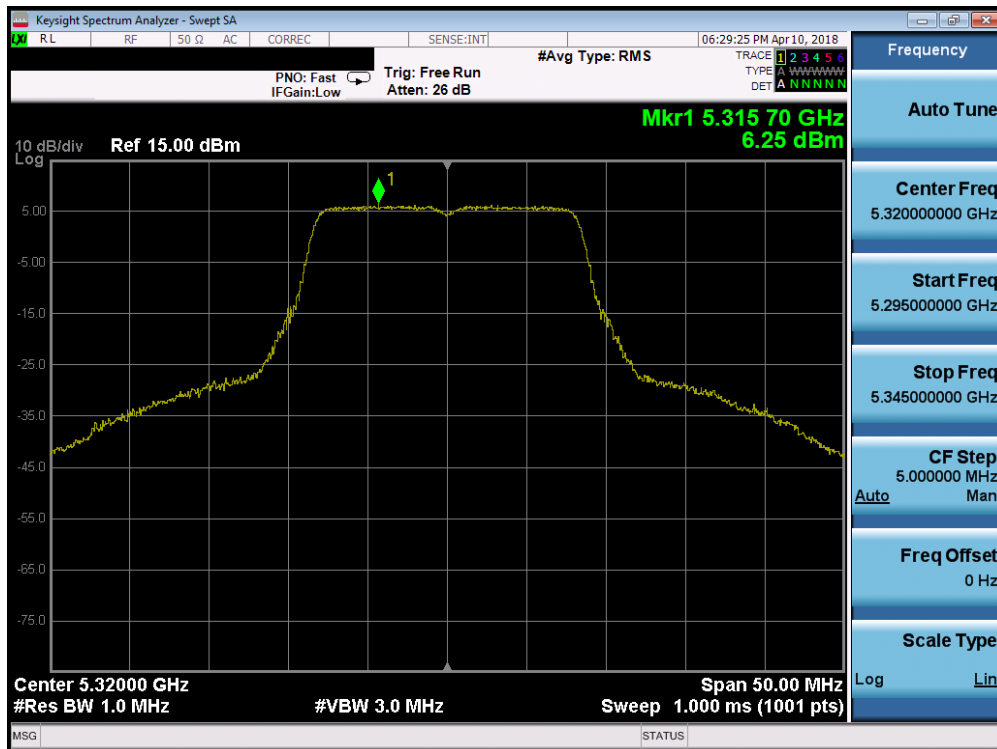


Plot 7-127. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 94 of 189

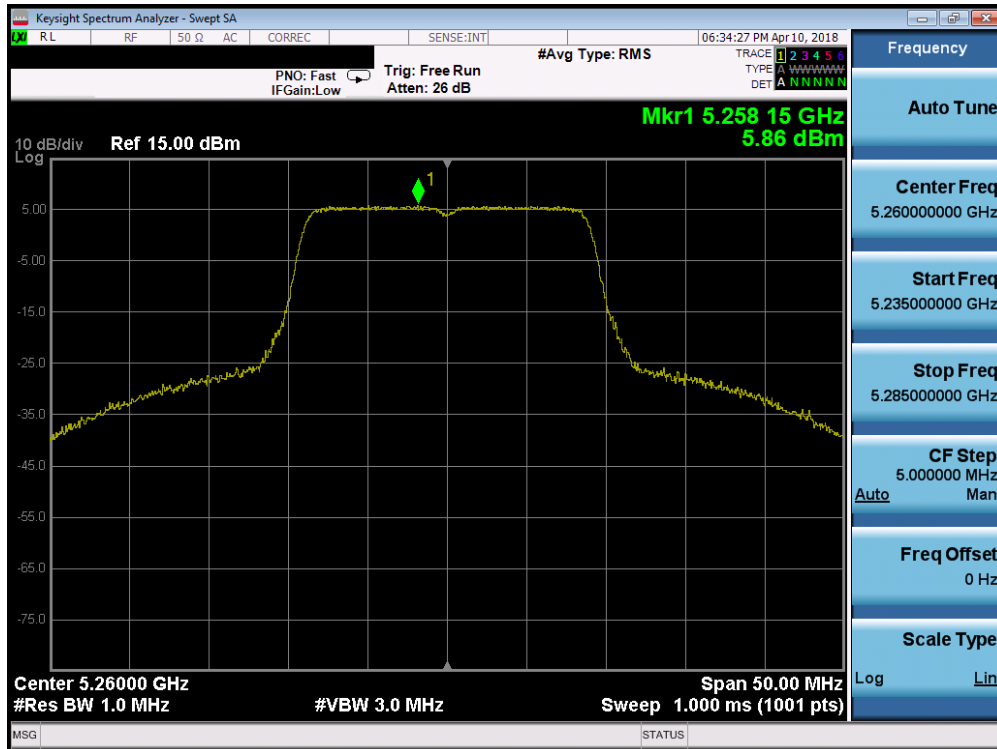


Plot 7-128. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 56)

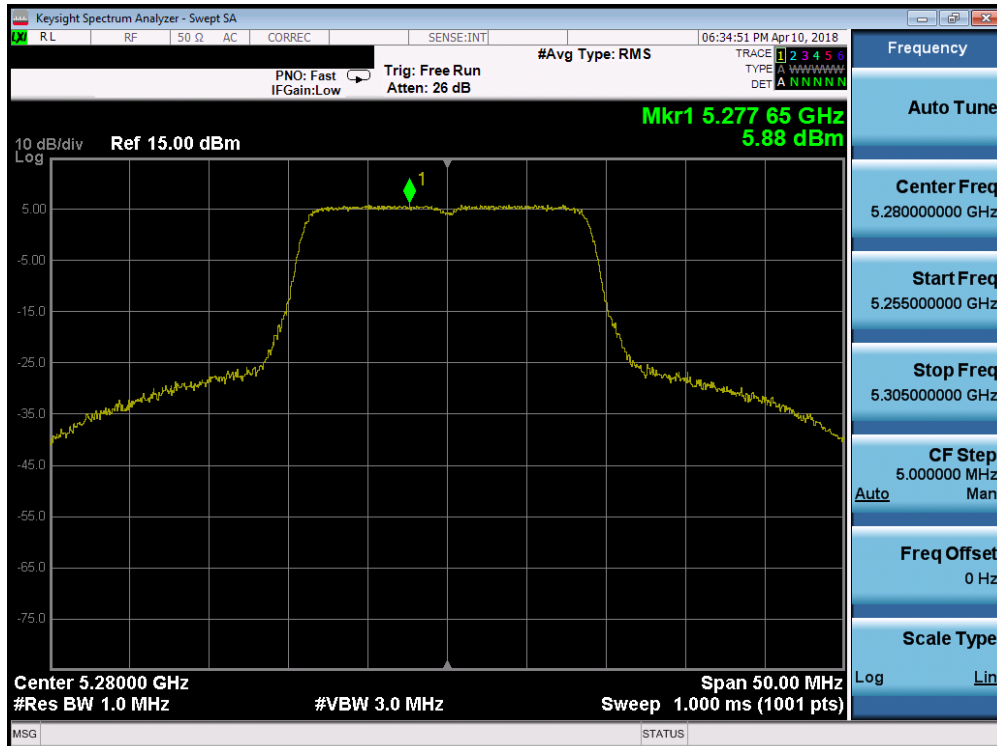


Plot 7-129. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 95 of 189

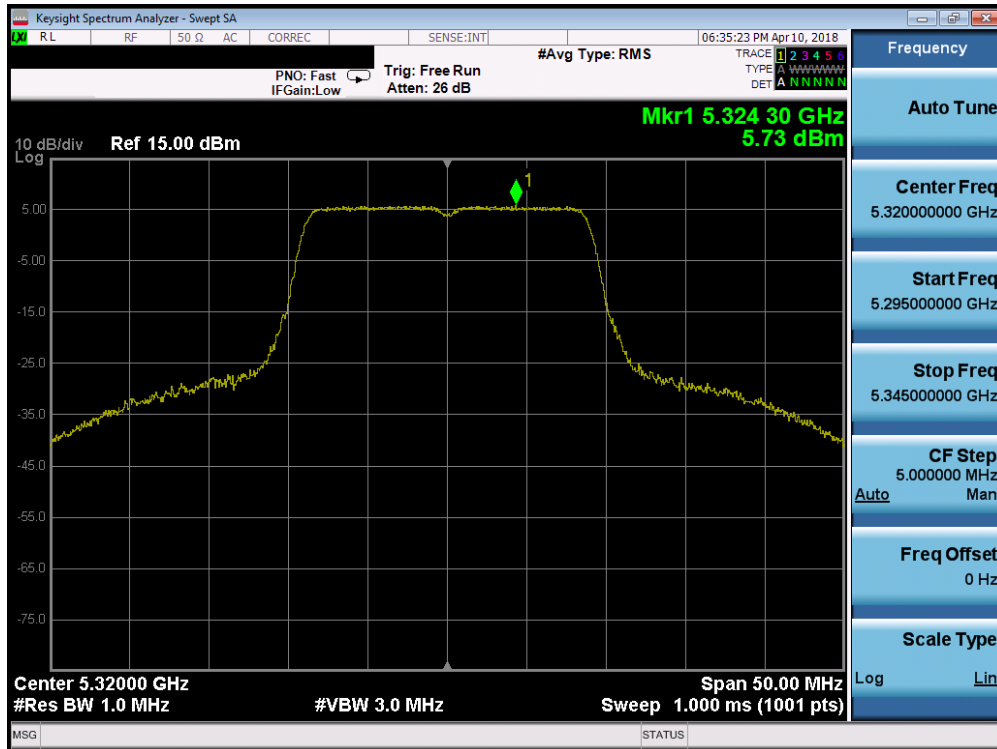


Plot 7-130. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

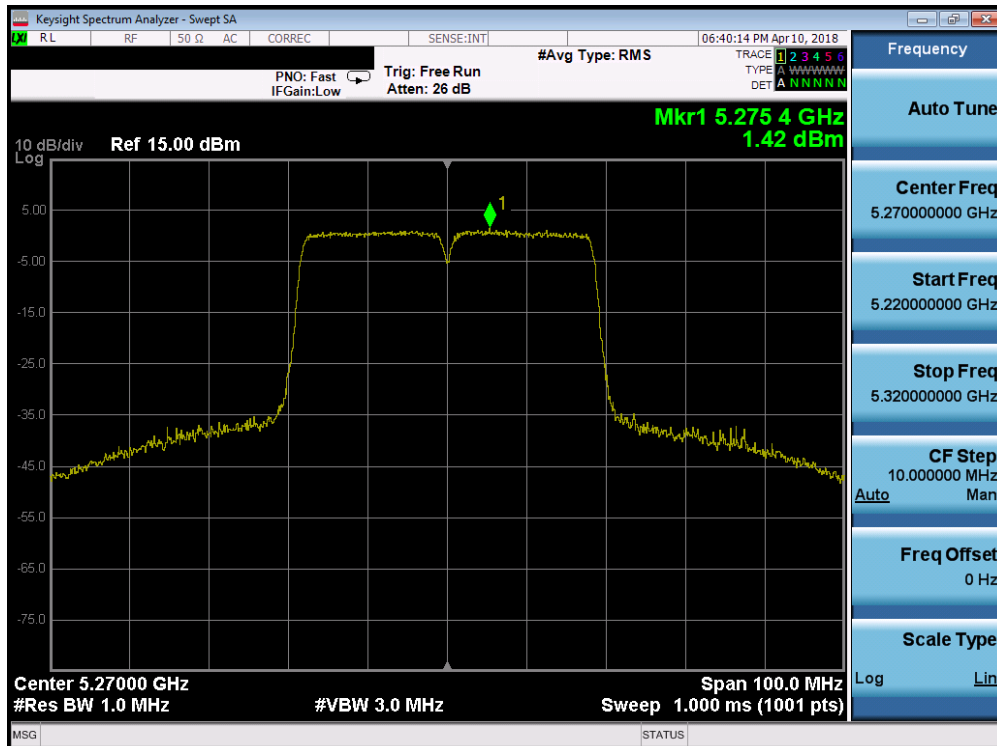


Plot 7-131. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 96 of 189

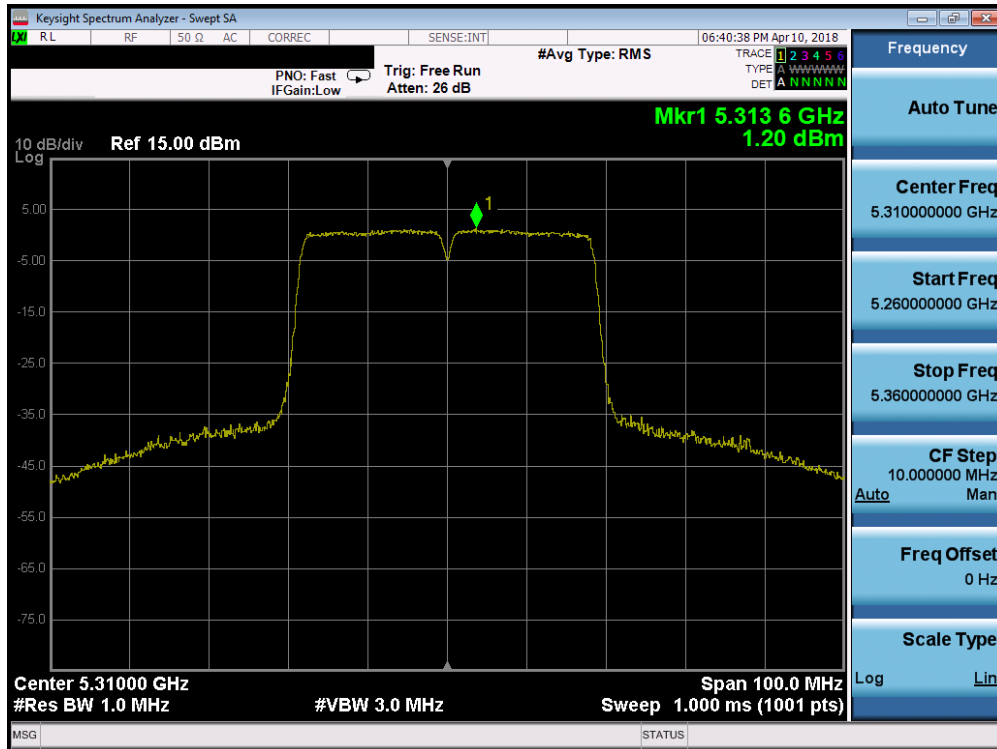


Plot 7-132. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

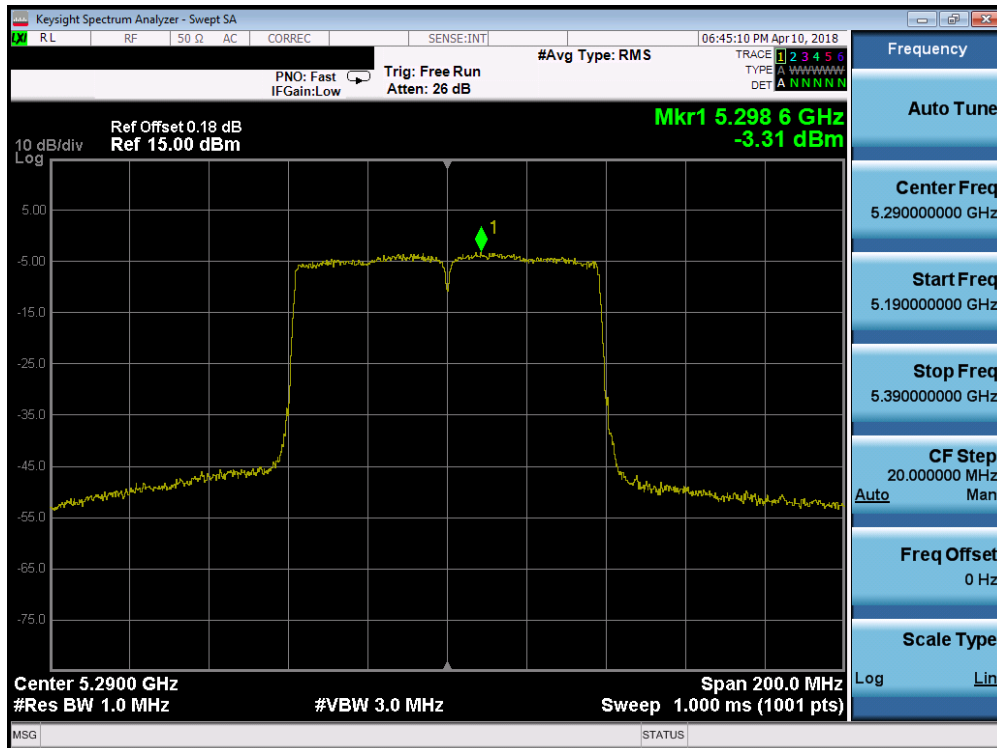


Plot 7-133. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 97 of 189

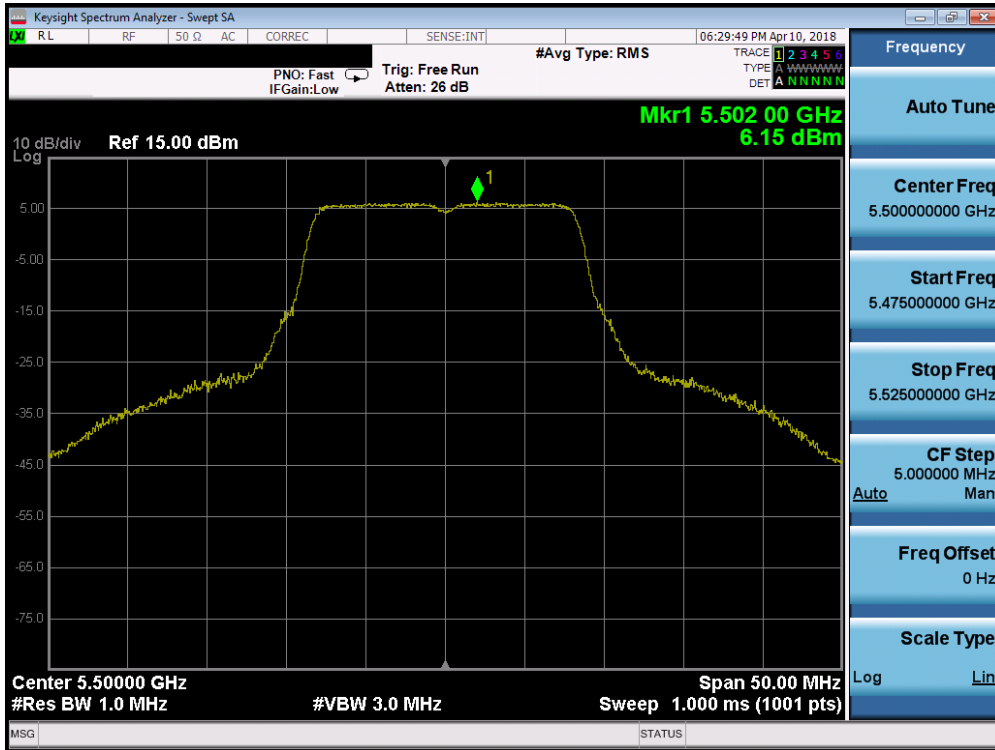


Plot 7-134. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

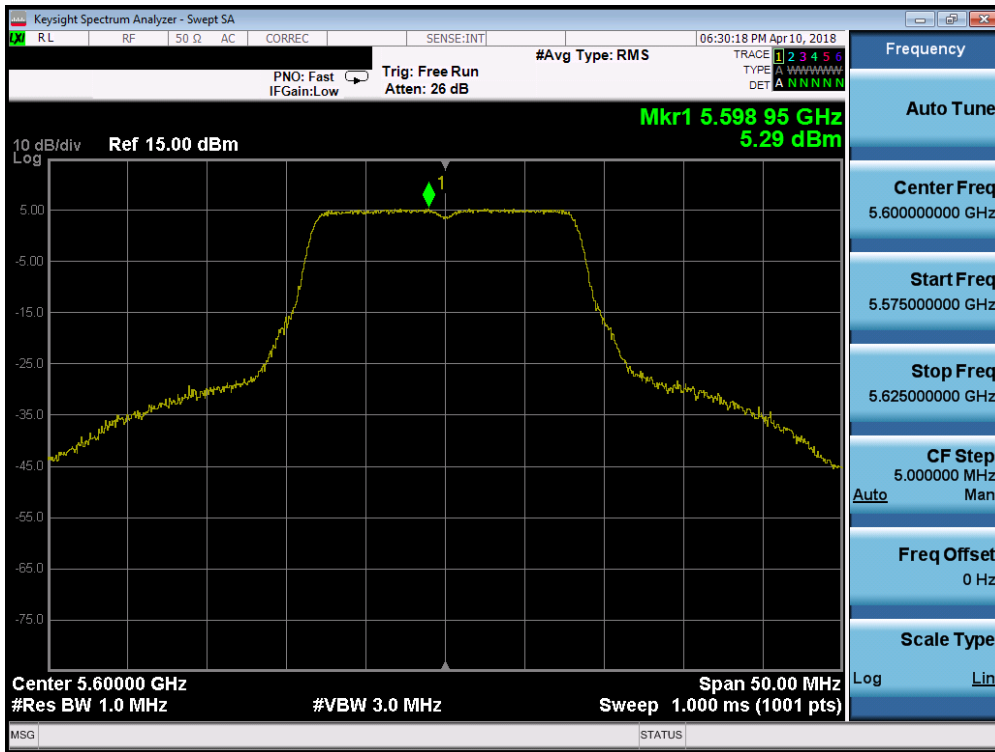


Plot 7-135. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 98 of 189

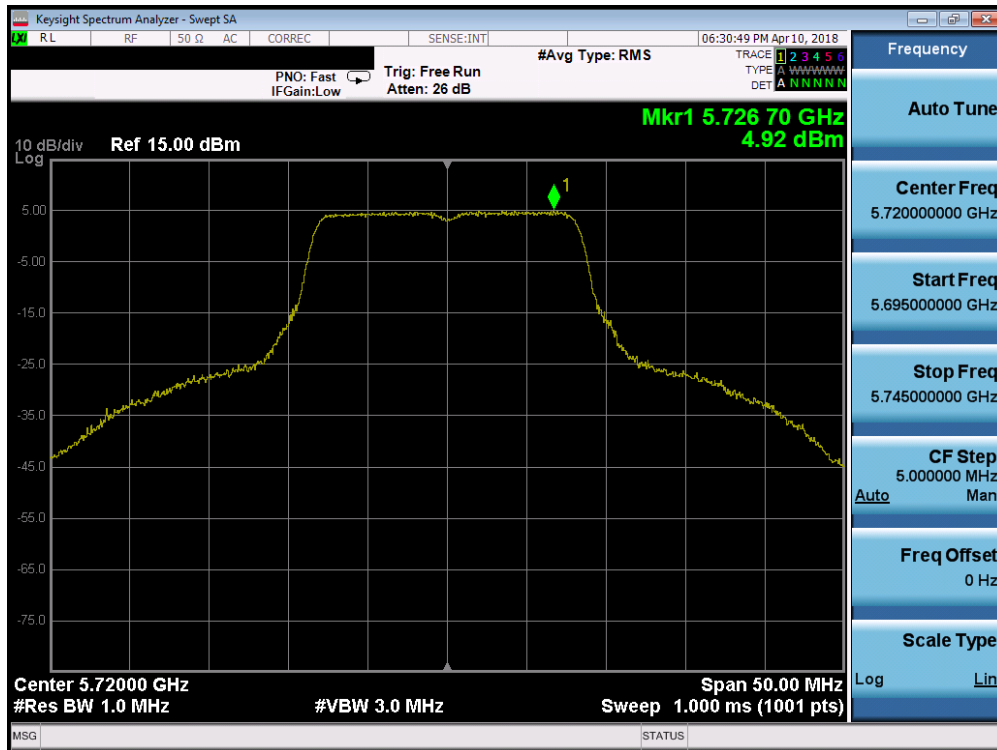


Plot 7-136. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

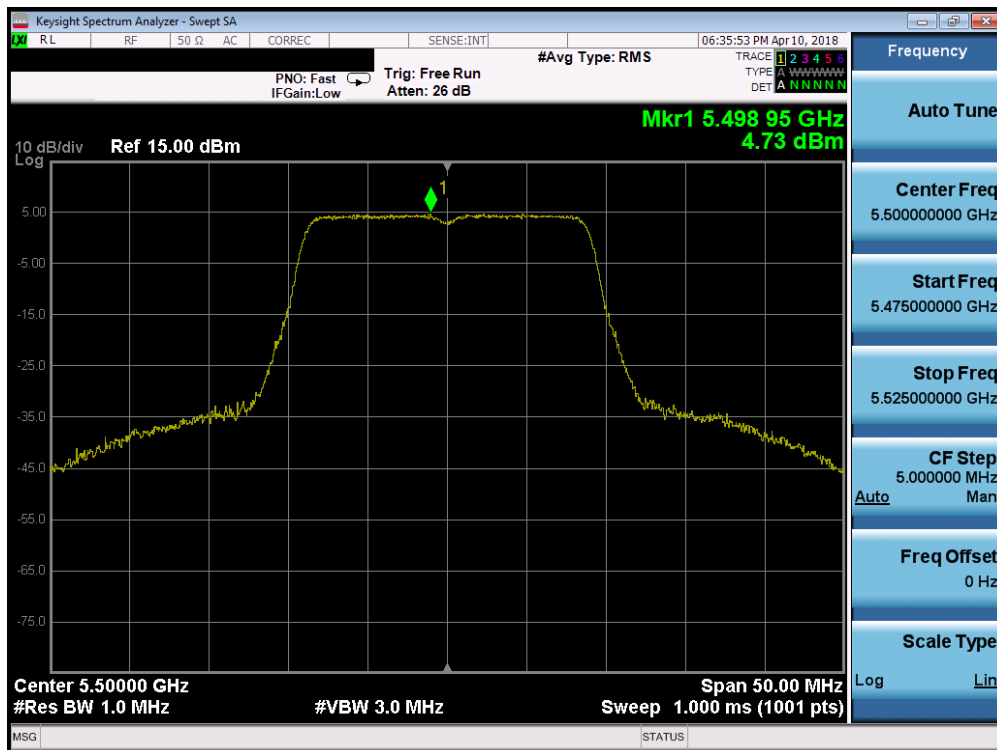


Plot 7-137. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 99 of 189

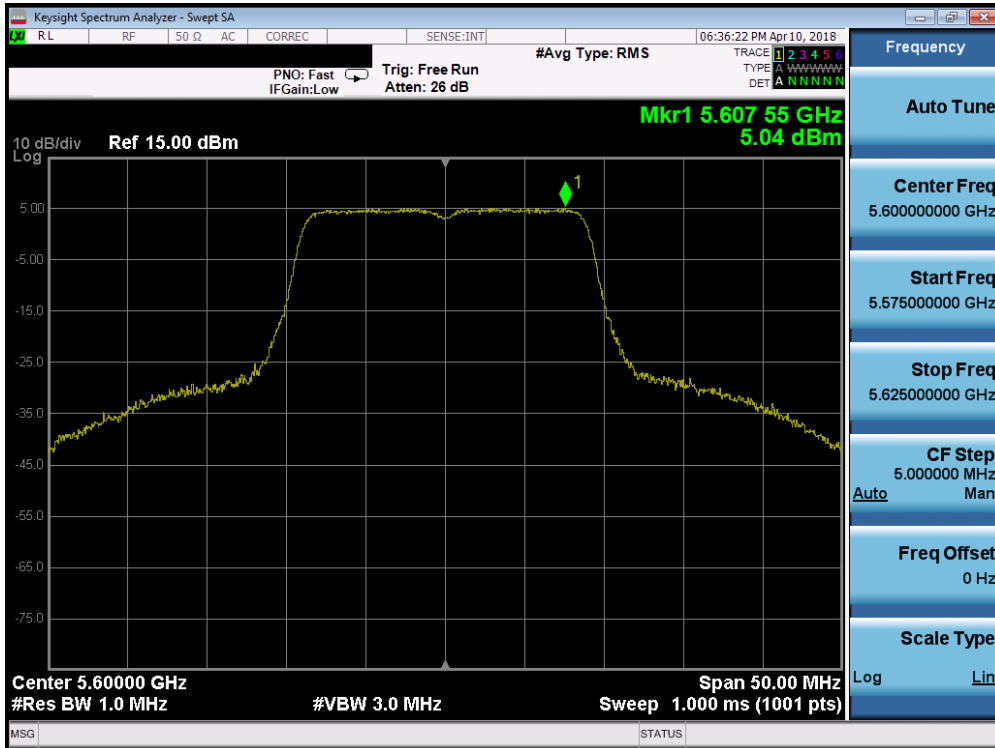


Plot 7-138. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 144)

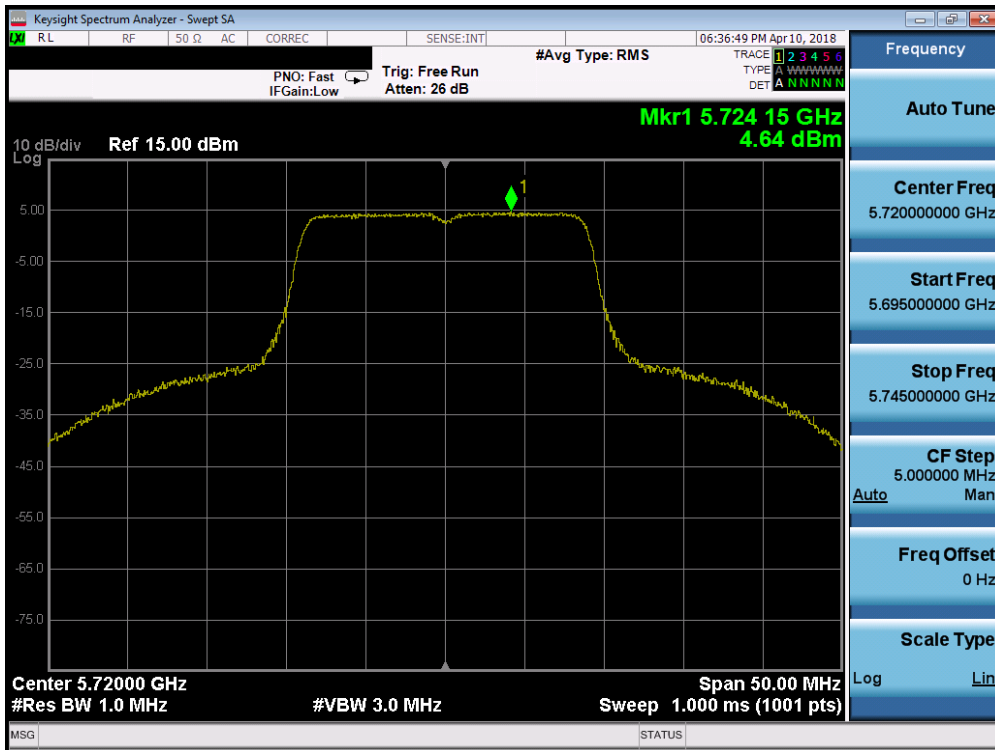


Plot 7-139. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 100 of 189

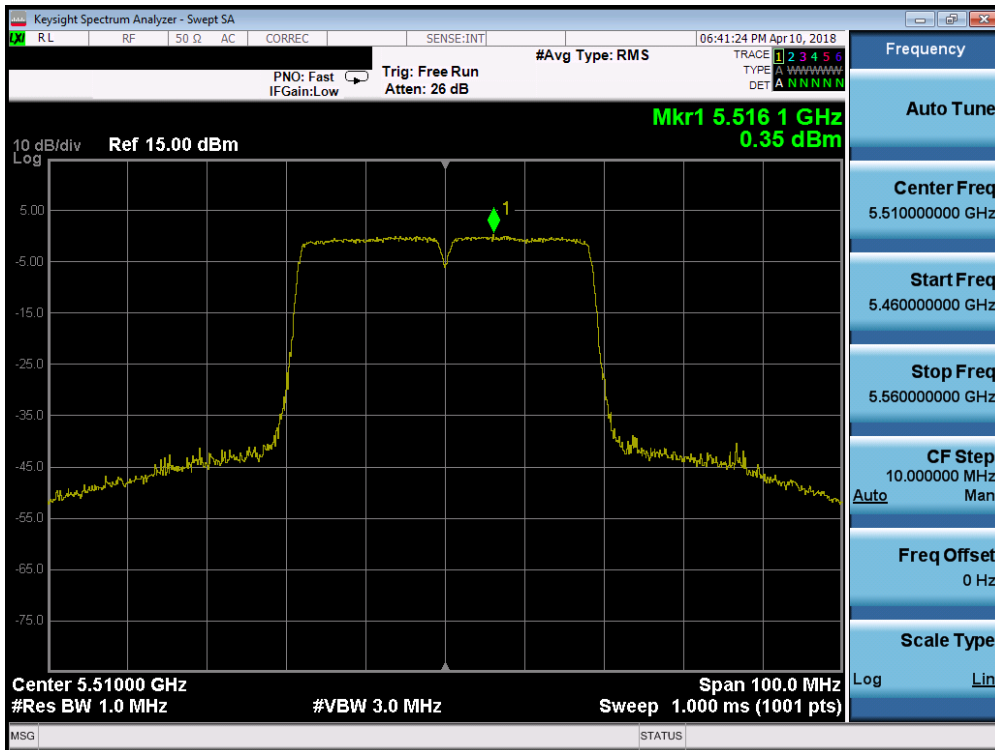


Plot 7-140. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

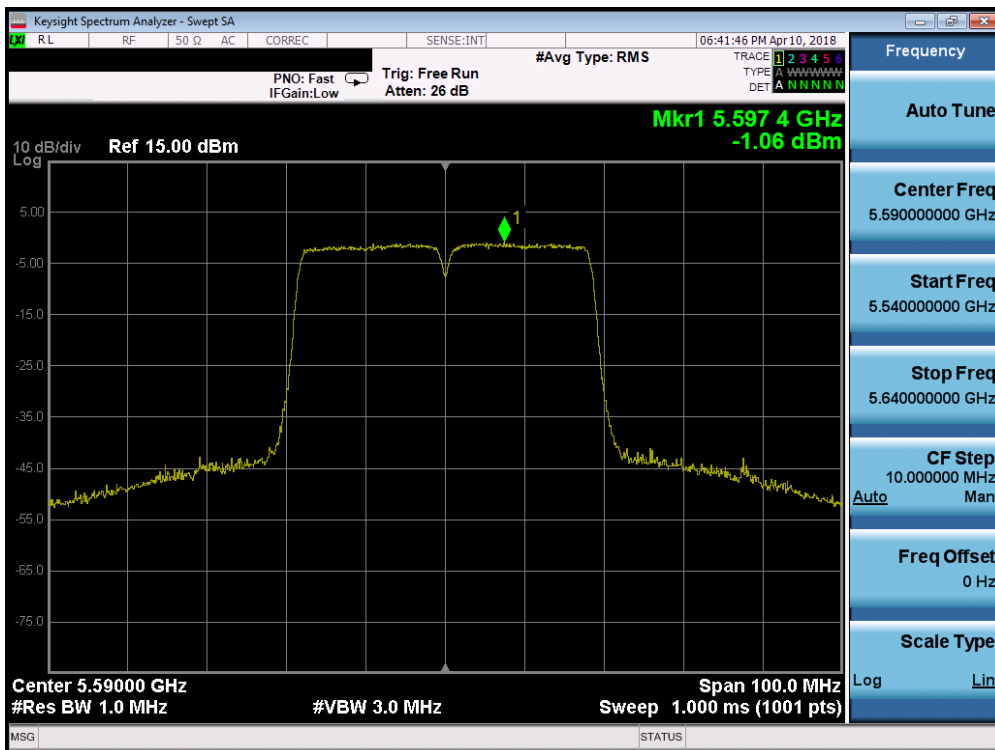


Plot 7-141. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 101 of 189

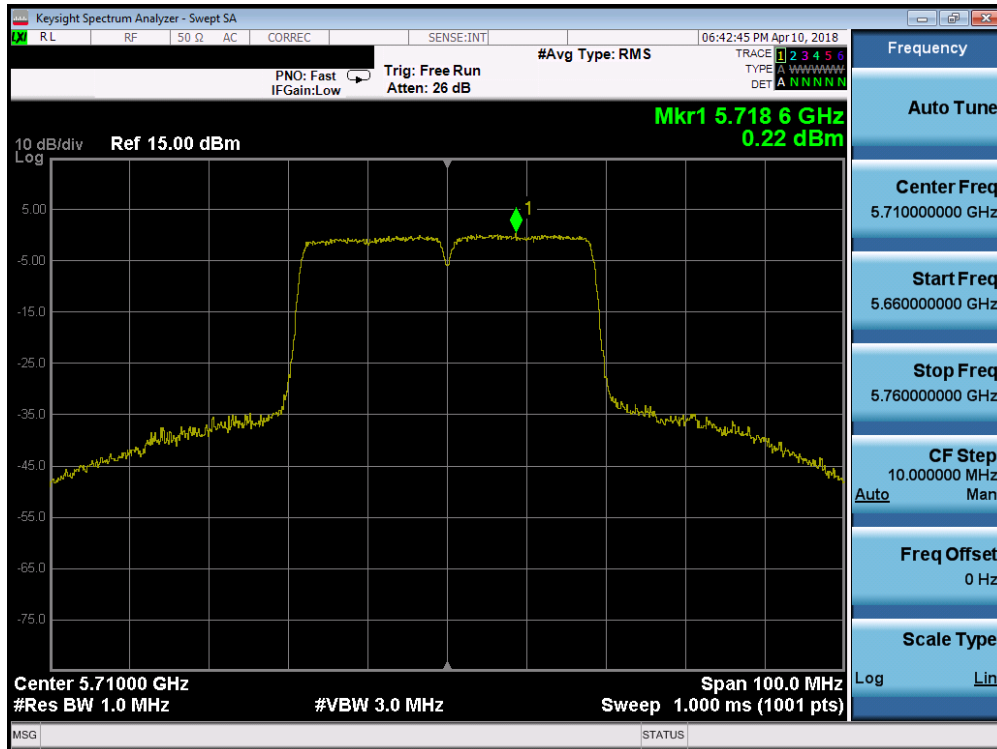


Plot 7-142. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

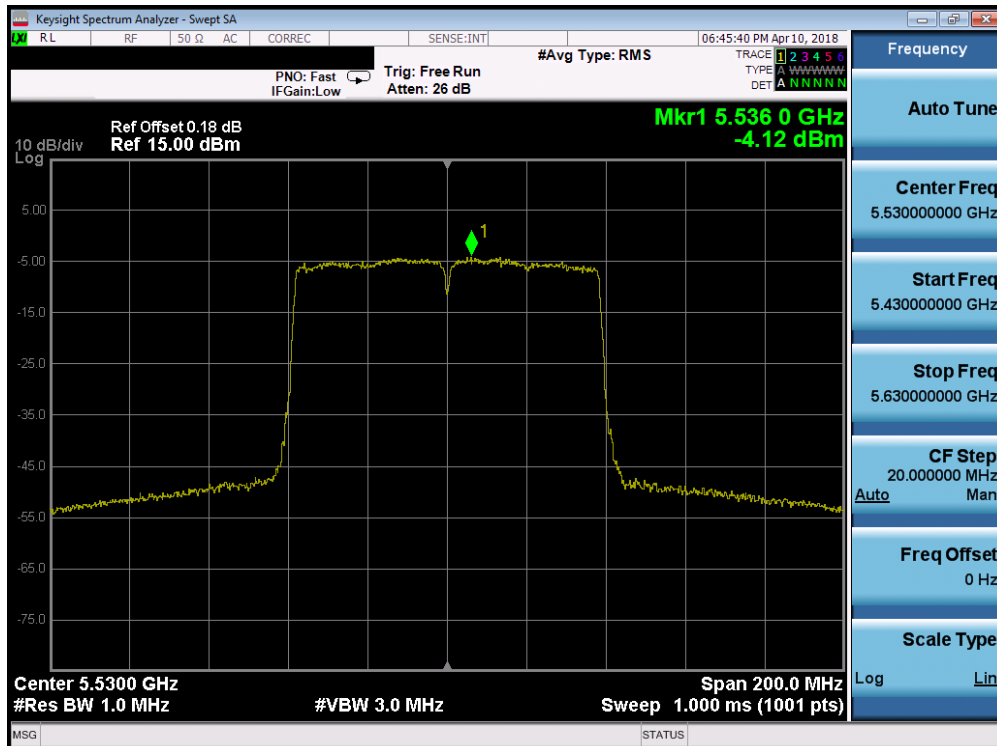


Plot 7-143. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 102 of 189

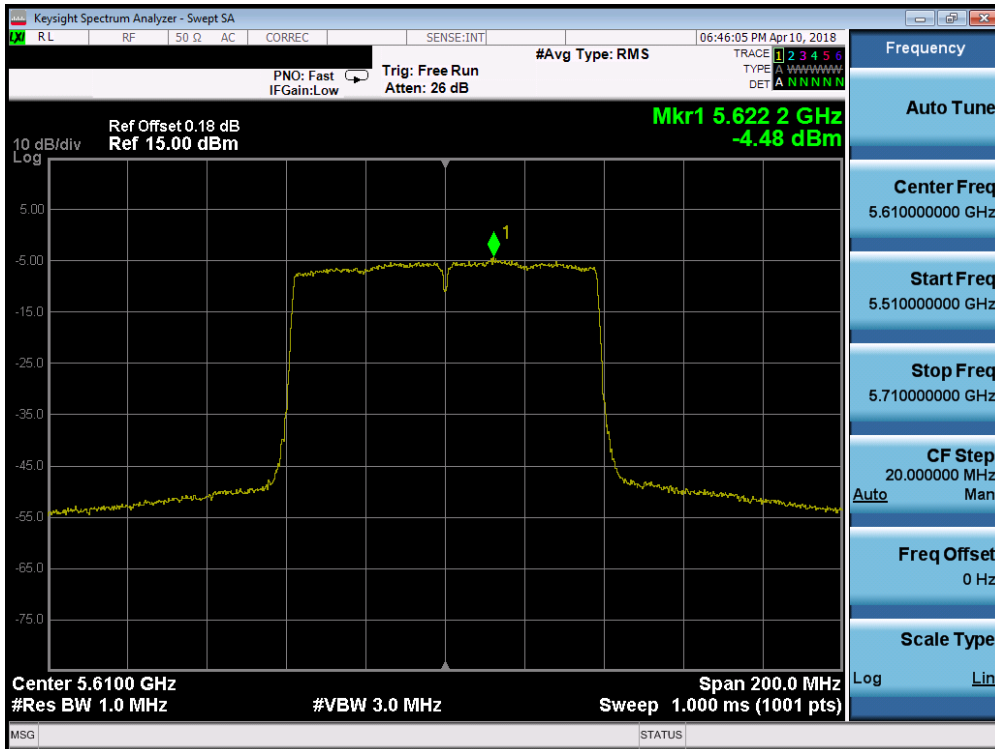


Plot 7-144. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

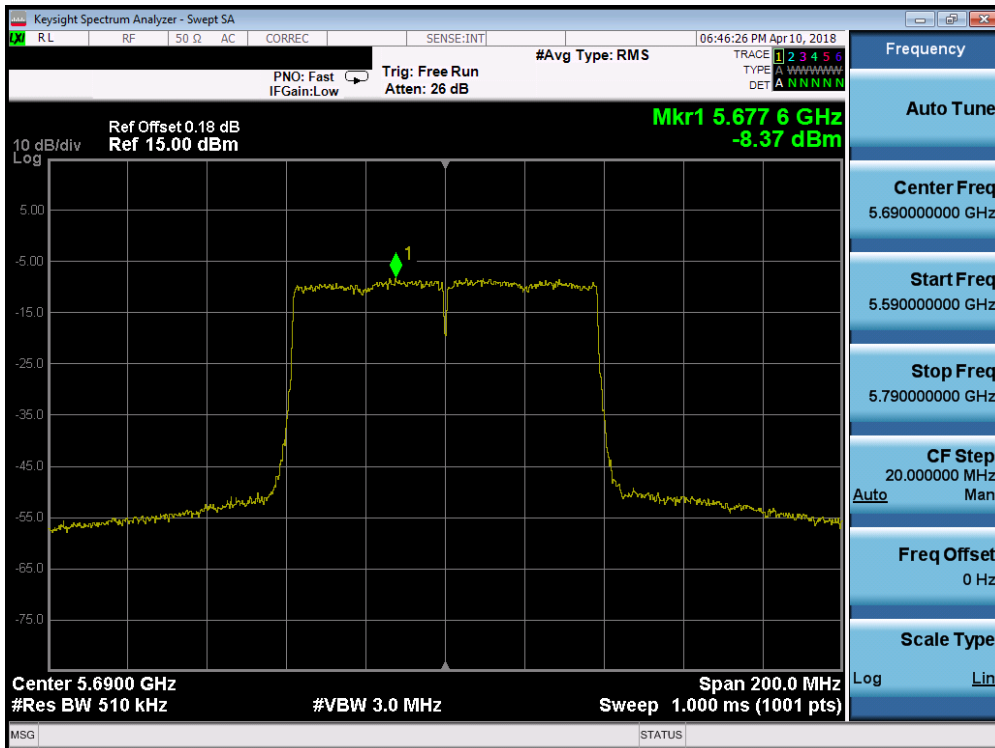


Plot 7-145. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 103 of 189



Plot 7-146. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

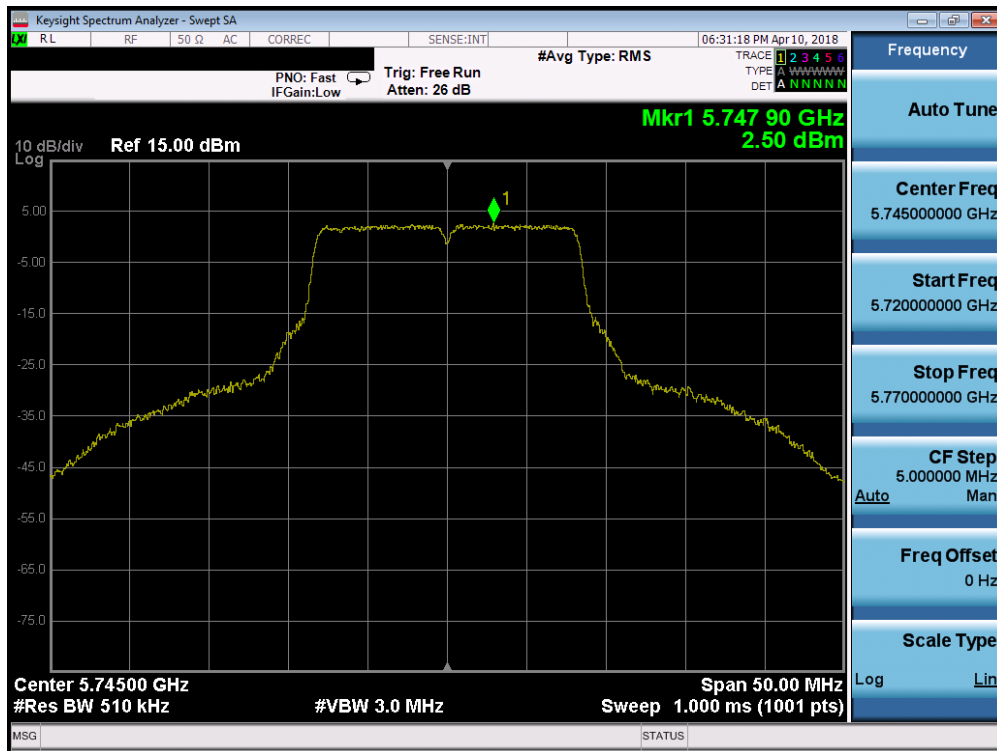


Plot 7-147. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 104 of 189

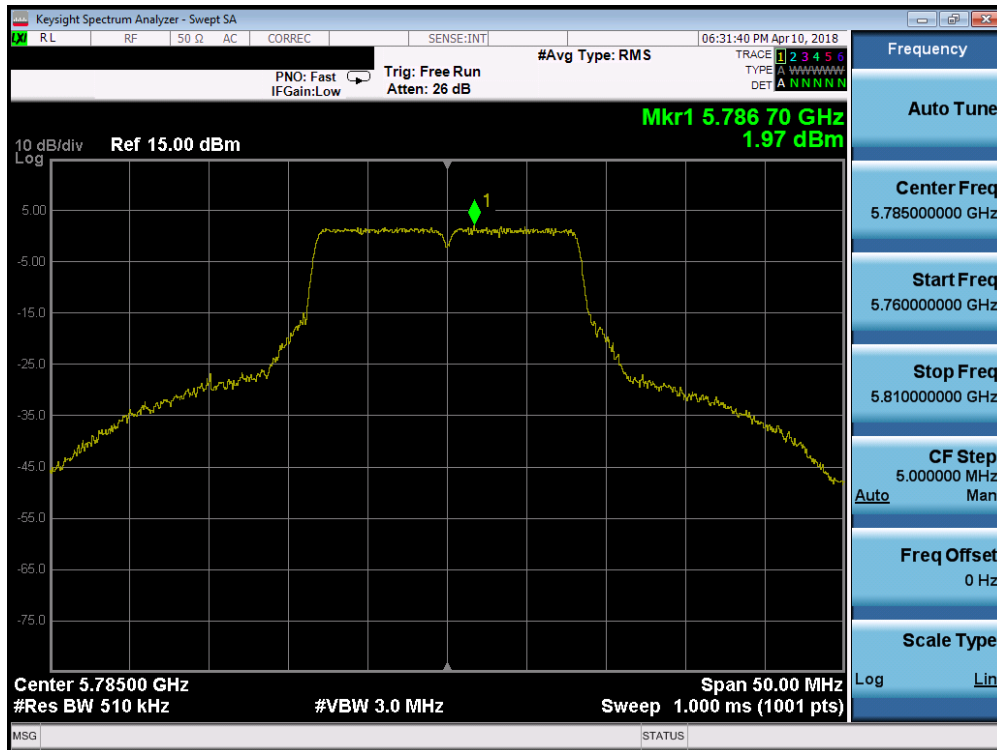
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	2.50	30.0	-27.50
	5785	157	a	6	1.97	30.0	-28.03
	5825	165	a	6	2.00	30.0	-28.00
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	2.45	30.0	-27.55
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	1.70	30.0	-28.30
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	2.20	30.0	-27.80
	5755	151	n (40MHz)	13.5/15 (MCS0)	-2.46	30.0	-32.46
	5795	159	n (40MHz)	13.5/15 (MCS0)	-3.40	30.0	-33.40
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-4.95	30.0	-34.95

Table 7-21. Band 3 Conducted Power Spectral Density Measurements

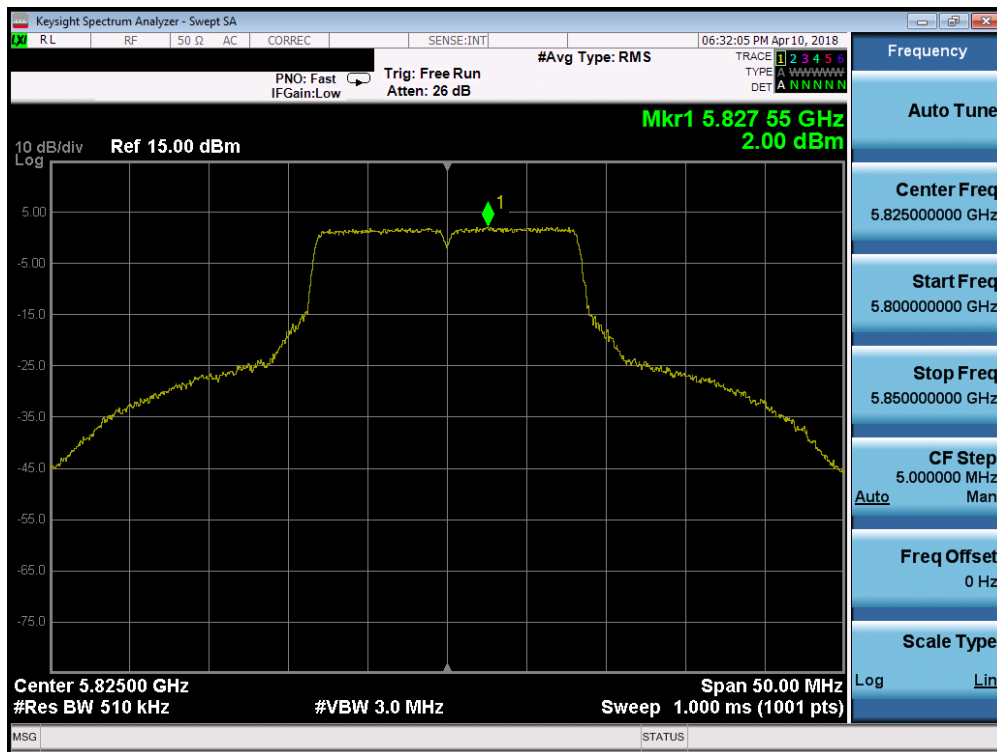


Plot 7-148. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 149)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 105 of 189

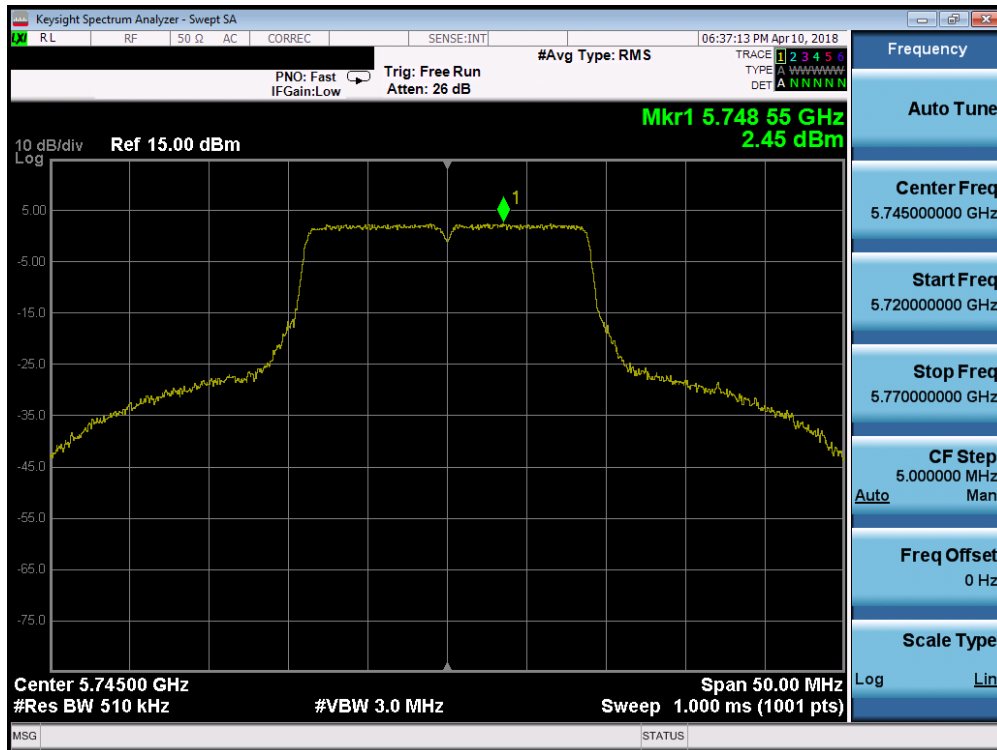


Plot 7-149. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 157)

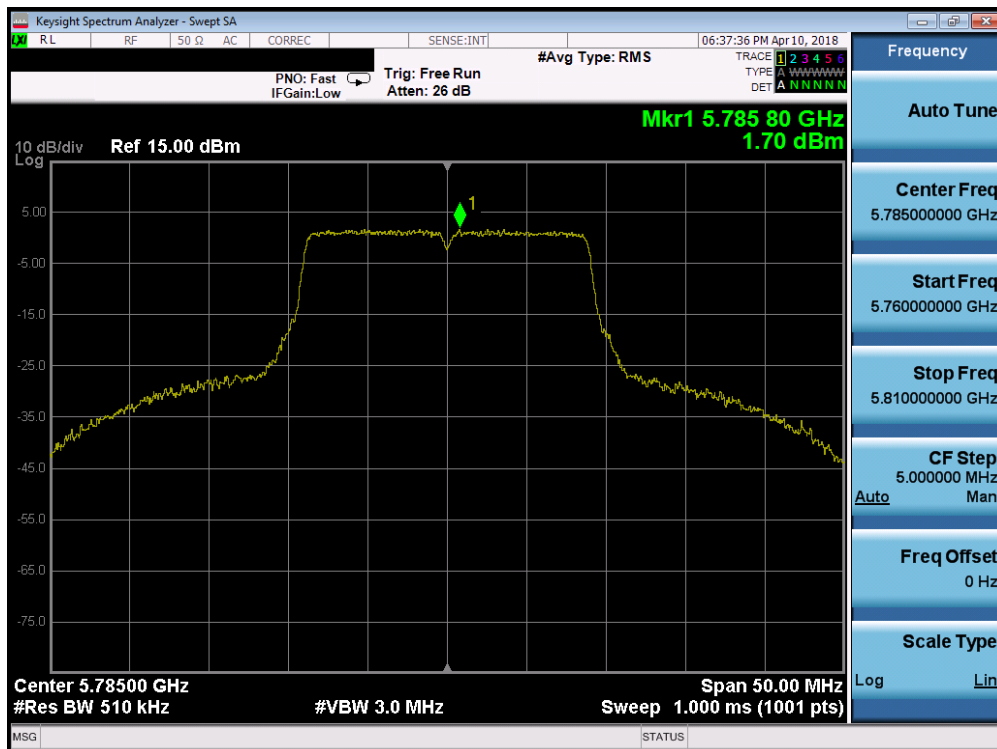


Plot 7-150. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMN960KOR	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 106 of 189

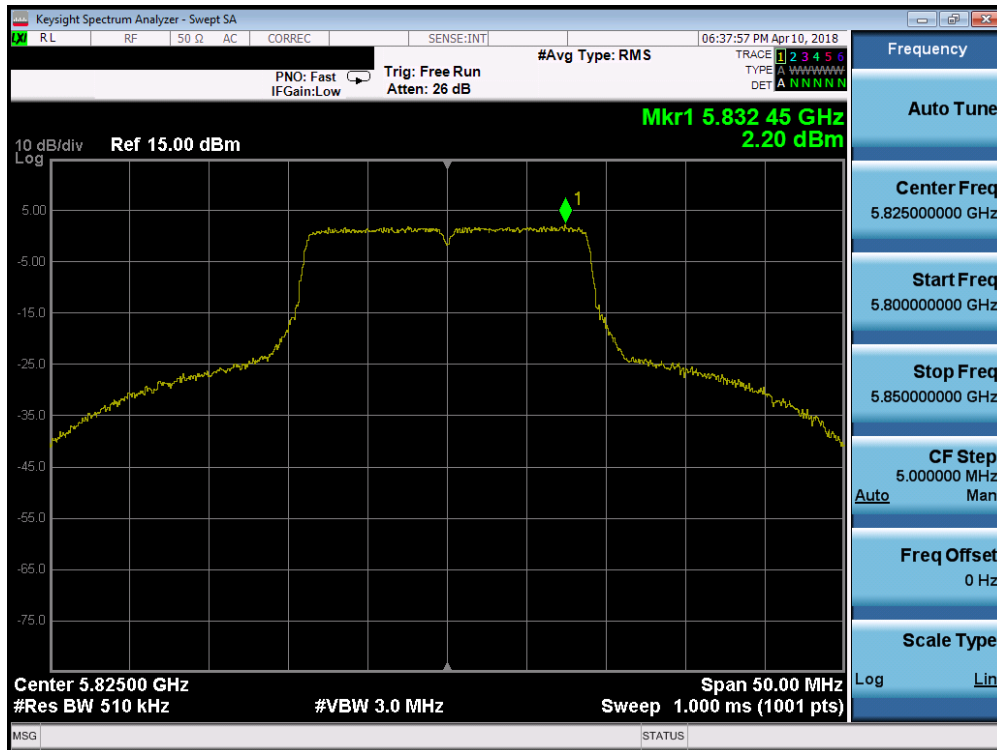


Plot 7-151. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

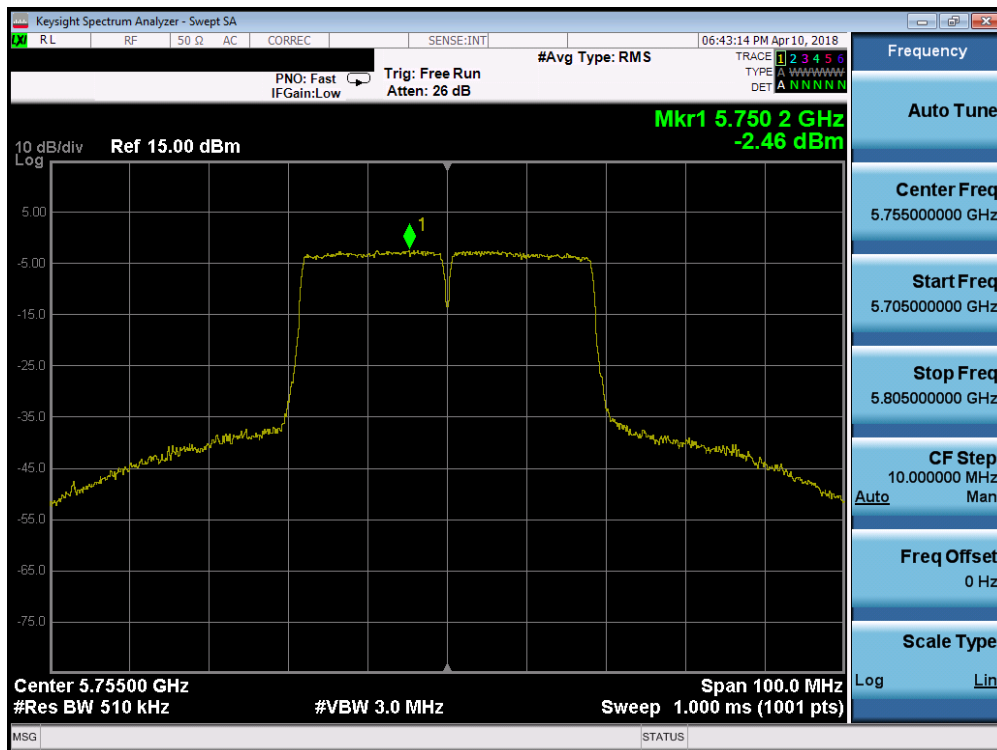


Plot 7-152. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 107 of 189

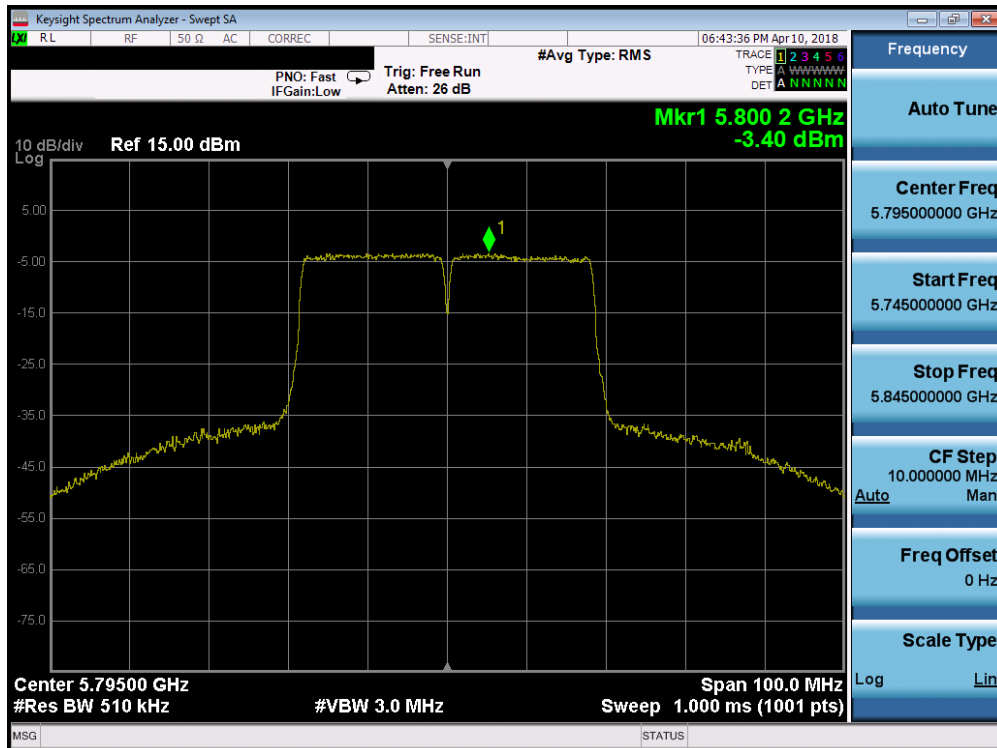


Plot 7-153. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

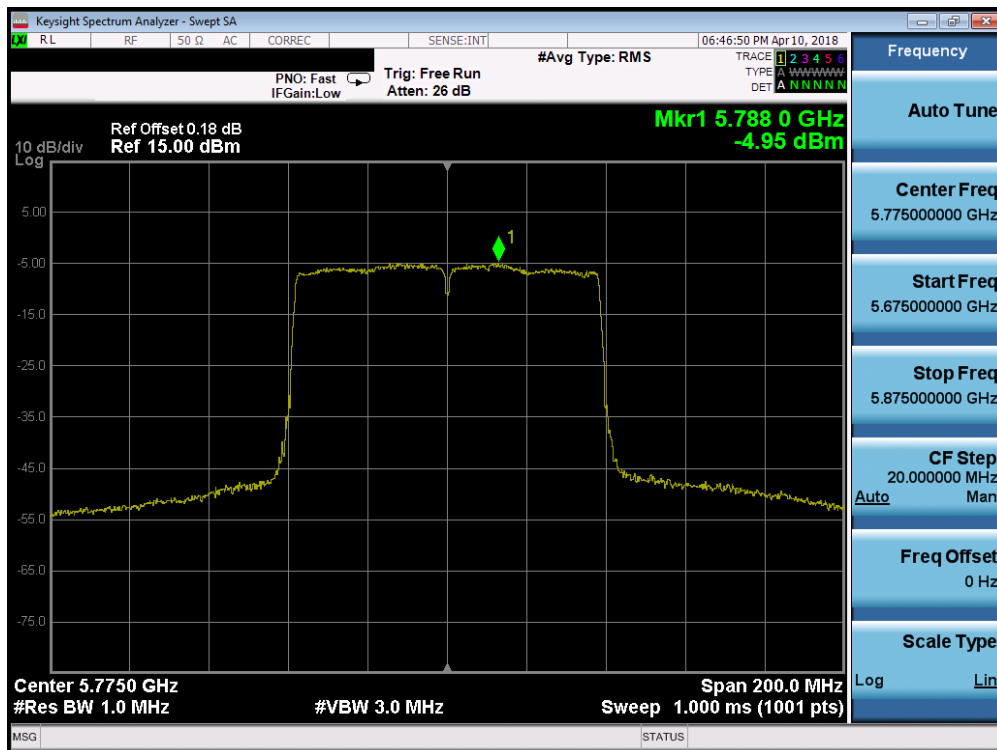


Plot 7-154. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 108 of 189



Plot 7-155. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 159)



Plot 7-156. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 109 of 189

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)	5.79	6.99	9.44	11.0	-1.56
	5200	40	a	6.5/7.2 (MCS0)	5.80	6.90	9.39	11.0	-1.61
	5240	48	a	6.5/7.2 (MCS0)	5.80	6.94	9.42	11.0	-1.58
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	5.54	6.34	8.97	11.0	-2.03
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	6.27	6.54	9.42	11.0	-1.58
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	5.82	6.47	9.17	11.0	-1.83
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.68	0.97	4.35	11.0	-6.65
	5230	46	n (40MHz)	13.5/15 (MCS0)	1.46	0.96	4.23	11.0	-6.77
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-3.24	-4.03	-0.61	11.0	-11.61
Band 2A	5260	52	a	6.5/7.2 (MCS0)	5.94	6.35	9.16	11.0	-1.84
	5280	56	a	6.5/7.2 (MCS0)	6.12	6.13	9.13	11.0	-1.87
	5320	64	a	6.5/7.2 (MCS0)	5.85	6.25	9.06	11.0	-1.94
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	5.83	5.86	8.85	11.0	-2.15
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	6.13	5.88	9.02	11.0	-1.98
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.16	5.73	8.96	11.0	-2.04
	5270	54	n (40MHz)	13.5/15 (MCS0)	0.36	1.42	3.93	11.0	-7.07
	5310	62	n (40MHz)	13.5/15 (MCS0)	0.86	1.20	4.04	11.0	-6.96
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-3.02	-3.31	-0.15	11.0	-11.15
Band 2C	5500	100	a	6.5/7.2 (MCS0)	5.60	6.15	8.89	11.0	-2.11
	5600	120	a	6.5/7.2 (MCS0)	5.90	5.29	8.61	11.0	-2.39
	5720	144	a	6.5/7.2 (MCS0)	5.86	4.92	8.43	11.0	-2.57
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.64	4.73	8.80	11.0	-2.20
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	6.88	5.04	9.07	11.0	-1.93
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.67	4.64	8.78	11.0	-2.22
	5510	102	n (40MHz)	13.5/15 (MCS0)	0.78	0.35	3.58	11.0	-7.42
	5590	118	n (40MHz)	13.5/15 (MCS0)	1.41	-1.06	3.36	11.0	-7.64
	5710	142	n (40MHz)	13.5/15 (MCS0)	1.35	0.22	3.83	11.0	-7.17
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-3.23	-4.12	-0.64	11.0	-11.64
5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-4.23	-4.48	-1.34	11.0	-12.34	
5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-6.85	-8.37	-4.53	11.0	-15.53	

Table 7-22. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

	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]
Band 3	5745	149	a	6.5/7.2 (MCS0)	3.05	2.50	5.79	30.0	-24.21
	5785	157	a	6.5/7.2 (MCS0)	2.66	1.97	5.34	30.0	-24.66
	5825	165	a	6.5/7.2 (MCS0)	2.75	2.00	5.40	30.0	-24.60
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	3.76	2.45	6.16	30.0	-23.84
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	3.79	1.70	5.88	30.0	-24.12
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	3.12	2.20	5.69	30.0	-24.31
	5755	151	n (40MHz)	13.5/15 (MCS0)	-1.36	-2.46	1.13	30.0	-28.87
	5795	159	n (40MHz)	13.5/15 (MCS0)	-1.63	-3.40	0.58	30.0	-29.42
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-6.04	-4.95	-2.45	30.0	-32.45

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

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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 5.54 dBm for Antenna-1 and 6.34 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

$$(5.54 \text{ dBm} + 6.34 \text{ dBm}) = (3.58 \text{ mW} + 4.30 \text{ mW}) = 7.88 \text{ mW} = 8.97 \text{ dBm}$$

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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 7-24 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 7-24. 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.

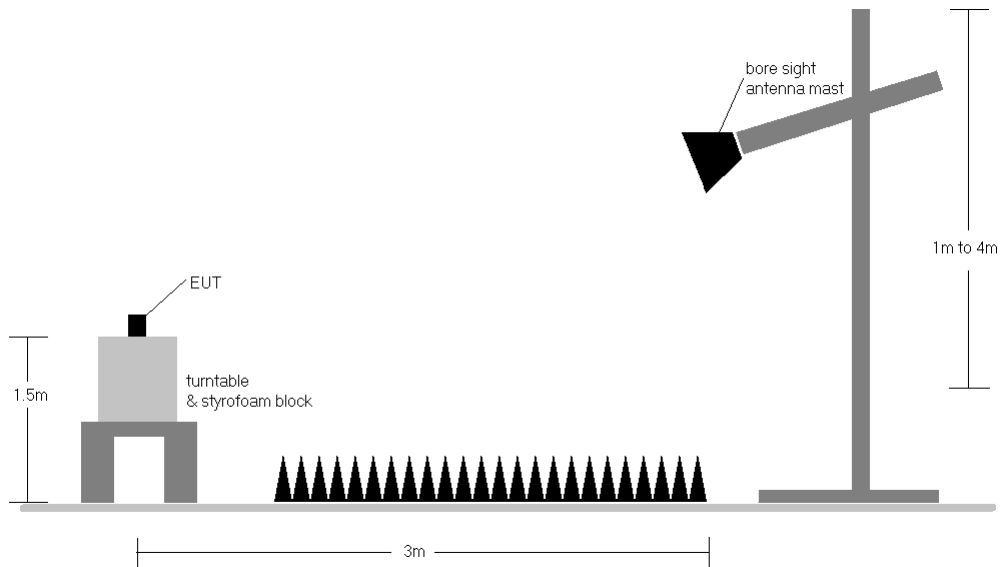


Figure 7-5. Test Instrument & Measurement Setup

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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 7-24.
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 7-24. 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

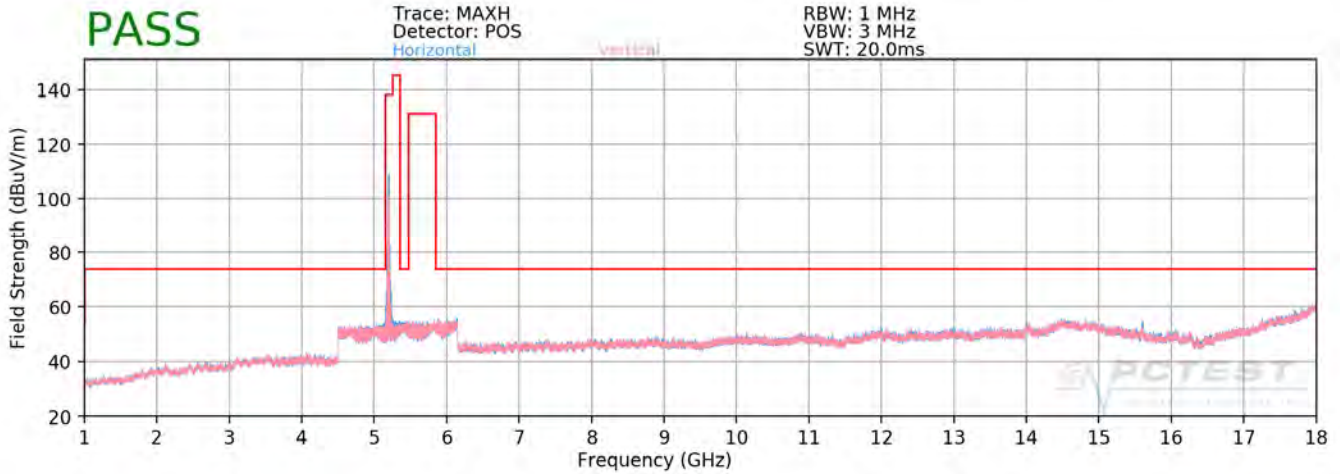
- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

Radiated Band Edge Measurement Offset

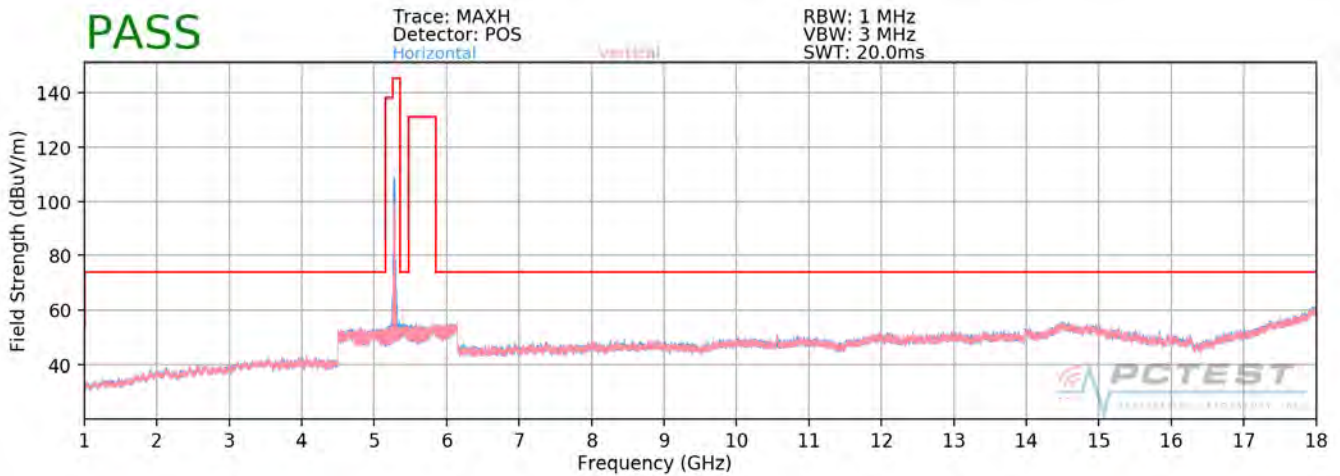
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Pre-amplifier Gain

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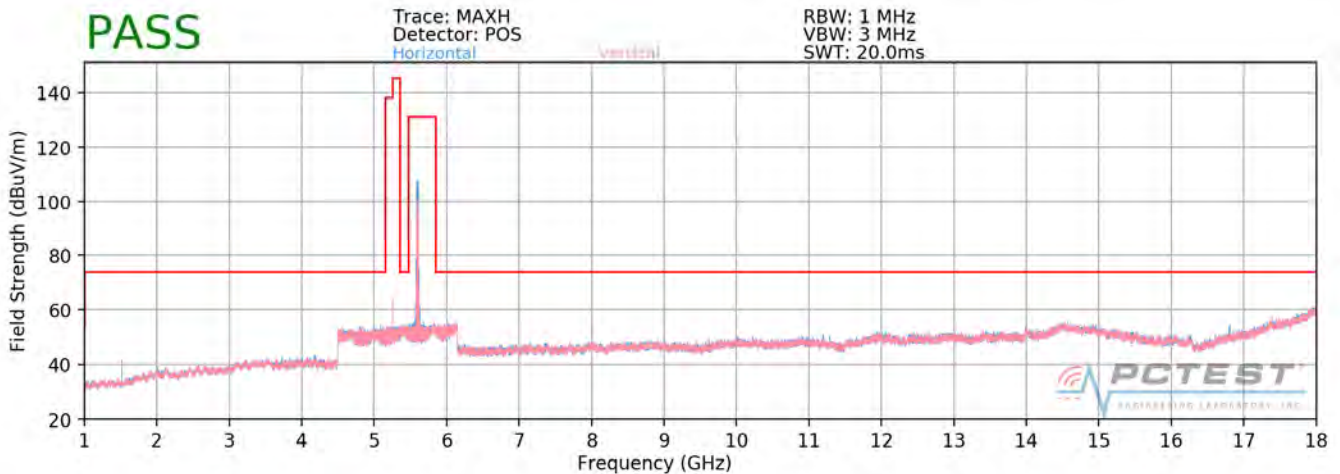
7.6.1 Antenna-1 Radiated Spurious Emission Measurements



Plot 7-157. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40)

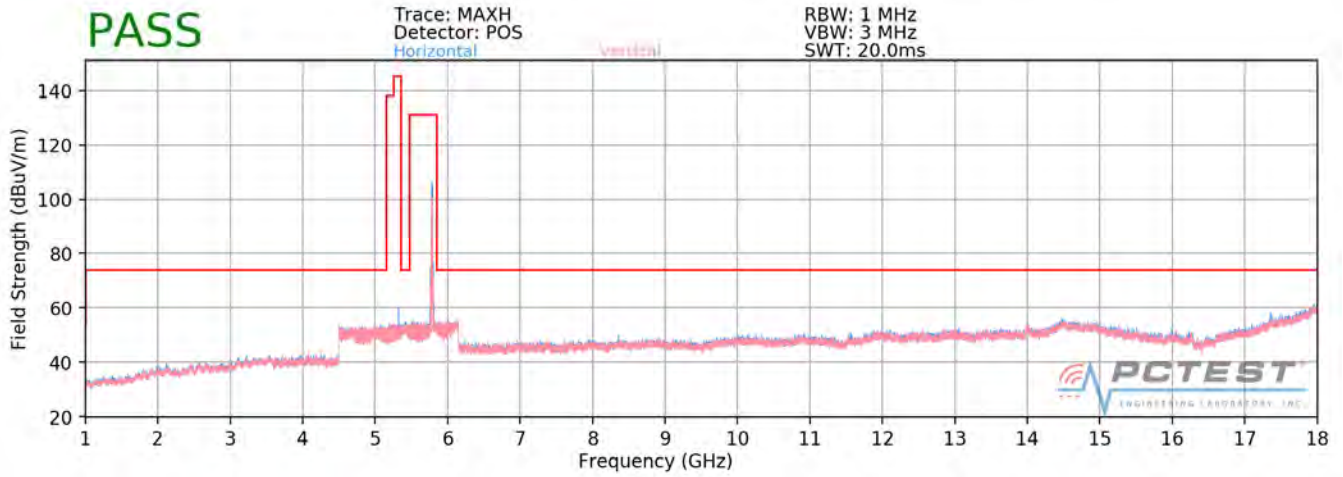


Plot 7-158. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56)



Plot 7-159. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120)

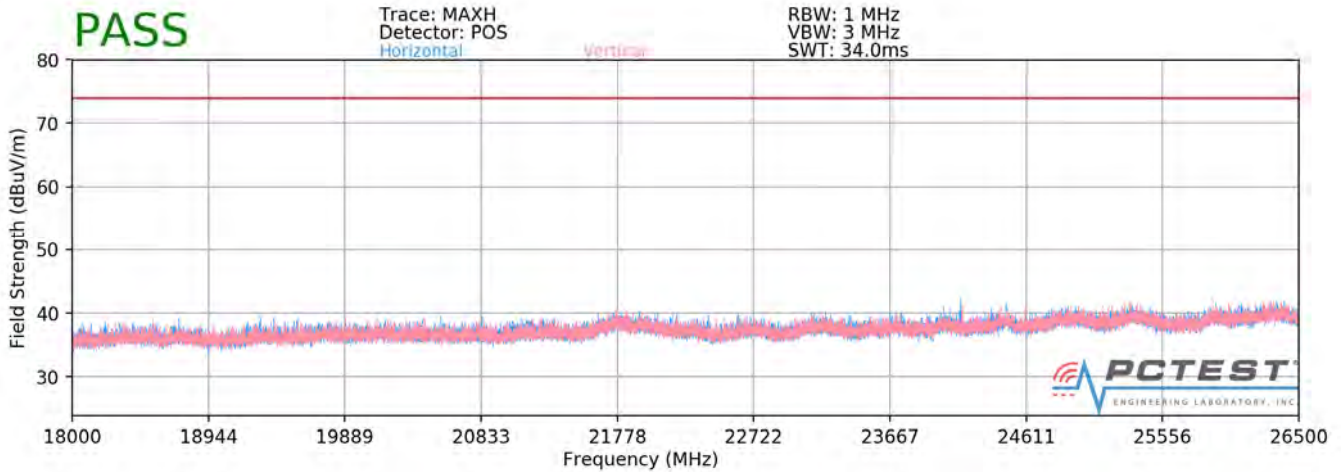
FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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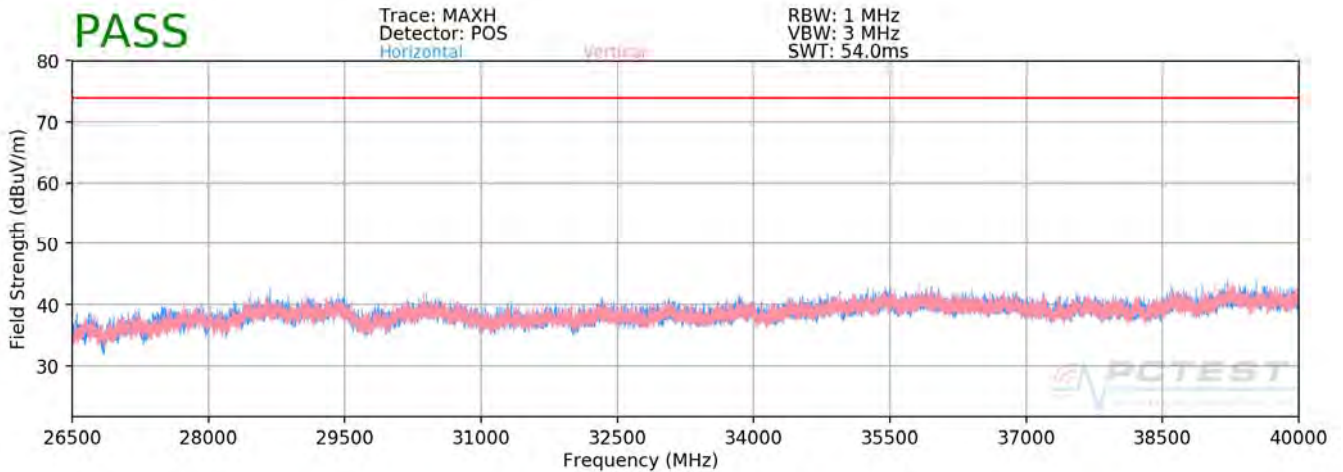
Plot 7-160. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157)

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



Plot 7-161. Radiated Spurious Plot 18GHz - 26.5GHz (802.11a)



Plot 7-162. 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	V	-	-	-59.30	11.49	0.00	50.64	68.20	-17.56
* 15540.00	Average	V	288	255	-78.37	13.64	0.00	42.27	53.98	-11.71
* 15540.00	Peak	V	288	255	-67.61	13.64	0.00	53.03	73.98	-20.95
* 20720.00	Average	V	-	-	-77.01	7.94	-9.54	28.39	53.98	-25.59
* 20720.00	Peak	V	-	-	-66.24	7.94	-9.54	39.16	73.98	-34.82
25900.00	Peak	V	-	-	-65.05	8.46	-9.54	40.87	68.20	-27.33

Table 7-25. 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	V	-	-	-67.98	11.65	0.00	50.67	68.20	-17.53
* 15600.00	Average	V	-	-	-79.18	13.30	0.00	41.12	53.98	-12.86
* 15600.00	Peak	V	-	-	-66.75	13.30	0.00	53.55	73.98	-20.43
* 20800.00	Average	V	-	-	-77.26	7.95	-9.54	28.15	53.98	-25.82
* 20800.00	Peak	V	-	-	-65.46	7.95	-9.54	39.95	73.98	-34.02
26000.00	Peak	V	-	-	-64.46	8.60	-9.54	41.60	68.20	-26.60

Table 7-26. 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	V	109	370	-67.41	11.69	0.00	51.28	68.20	-16.92
* 15720.00	Average	V	104	346	-79.08	12.81	0.00	40.73	53.98	-13.25
* 15720.00	Peak	V	104	346	-66.98	12.81	0.00	52.83	73.98	-21.15
* 20960.00	Average	V	-	-	-77.22	7.91	-9.54	28.15	53.98	-25.83
* 20960.00	Peak	V	-	-	-66.63	7.91	-9.54	38.74	73.98	-35.24
26200.00	Peak	V	-	-	-64.81	8.62	-9.54	41.27	68.20	-26.93

Table 7-27. 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	V	-	-	-69.23	13.17	0.00	50.94	68.20	-17.26
* 15540.00	Average	V	-	-	-81.91	14.08	0.00	39.17	53.98	-14.81
* 15540.00	Peak	V	-	-	-70.15	14.08	0.00	50.93	73.98	-23.05
* 20720.00	Average	V	100	19	-76.09	7.94	-9.54	29.31	53.98	-24.67
* 20720.00	Peak	V	100	19	-65.82	7.94	-9.54	39.58	73.98	-34.40
25900.00	Peak	V	-	-	-63.80	8.46	-9.54	42.12	68.20	-26.08

Table 7-28. Radiated Measurements with WCP

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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	V	400	1	-67.25	11.69	0.00	51.44	68.20	-16.76
* 15780.00	Average	V	111	345	-79.02	12.87	0.00	40.85	53.98	-13.12
* 15780.00	Peak	V	111	345	-67.65	12.87	0.00	52.22	73.98	-21.75
* 21040.00	Average	V	-	-	-77.07	7.92	-9.54	28.31	53.98	-25.67
* 21040.00	Peak	V	-	-	-66.43	7.92	-9.54	38.95	73.98	-35.03
26300.00	Peak	V	-	-	-64.11	8.73	-9.54	42.08	68.20	-26.12

Table 7-29. 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	V	113	4	-66.97	11.55	0.00	51.58	68.20	-16.62
* 15840.00	Average	V	109	359	-78.95	12.86	0.00	40.91	53.98	-13.07
* 15840.00	Peak	V	109	359	-66.69	12.86	0.00	53.17	73.98	-20.81
* 21120.00	Average	V	-	-	-76.70	7.96	-9.54	28.72	53.98	-25.26
* 21120.00	Peak	V	-	-	-65.91	7.96	-9.54	39.51	73.98	-34.47
26400.00	Peak	V	-	-	-64.95	8.94	-9.54	41.45	68.20	-26.75

Table 7-30. Radiated Measurements

FCC ID: A3LSMN960KOR		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	V	174	24	-78.11	11.81	0.00	40.70	53.98	-13.28
* 10640.00	Peak	V	174	24	-66.72	11.81	0.00	52.09	73.98	-21.89
* 15960.00	Average	V	105	359	-78.91	13.29	0.00	41.38	53.98	-12.60
* 15960.00	Peak	V	105	359	-66.21	13.29	0.00	54.08	73.98	-19.90
* 21280.00	Average	V	-	-	-76.60	8.04	-9.54	28.90	53.98	-25.08
* 21280.00	Peak	V	-	-	-66.04	8.04	-9.54	39.46	73.98	-34.52
26600.00	Peak	V	-	-	-47.34	-8.30	-9.54	41.82	68.20	-26.38

Table 7-31. 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	V	110	353	-80.02	13.53	0.00	40.51	53.98	-13.47
* 10640.00	Peak	V	110	353	-68.80	13.53	0.00	51.73	73.98	-22.25
* 15960.00	Average	V	121	316	-81.53	15.18	0.00	40.65	53.98	-13.33
* 15960.00	Peak	V	121	316	-69.99	15.18	0.00	52.19	73.98	-21.79
* 21280.00	Average	V	100	313	-76.36	8.04	-9.54	29.14	53.98	-24.84
* 21280.00	Peak	V	100	313	-65.31	8.04	-9.54	40.19	73.98	-33.79
26600.00	Peak	V	-	-	-47.98	-8.30	-9.54	41.18	68.20	-27.02

Table 7-32. Radiated Measurements with WCP

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 121 of 189	

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	V	132	32	-76.94	12.00	0.00	42.06	53.98	-11.92
* 11000.00	Peak	V	132	32	-65.42	12.00	0.00	53.58	73.98	-20.40
16500.00	Peak	V	105	1	-65.77	12.13	0.00	53.36	68.20	-14.84
22000.00	Peak	V	-	-	-65.35	8.43	-9.54	40.54	68.20	-27.66
27500.00	Peak	V	-	-	-45.70	-8.80	-9.54	42.96	68.20	-25.24

Table 7-33. 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	V	160	20	-76.15	11.34	0.00	42.19	53.98	-11.79
* 11200.00	Peak	V	160	20	-64.51	11.34	0.00	53.83	73.98	-20.15
16800.00	Peak	V	132	0	-66.42	13.98	0.00	54.56	68.20	-13.64
* 22400.00	Average	V	-	-	-77.18	8.11	-9.54	28.39	53.98	-25.59
* 22400.00	Peak	V	-	-	-66.96	8.11	-9.54	38.61	73.98	-35.37
28000.00	Peak	V	-	-	-46.45	-9.26	-9.54	41.75	68.20	-26.45

Table 7-34. Radiated Measurements

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 122 of 189	

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	V	105	20	-77.17	11.69	0.00	41.52	53.98	-12.46
* 11440.00	Peak	V	105	20	-65.18	11.69	0.00	53.51	73.98	-20.47
17160.00	Peak	V	-	-	-67.21	15.49	0.00	55.28	68.20	-12.92
* 22880.00	Average	V	-	-	-77.23	8.28	-9.54	28.51	53.98	-25.47
* 22880.00	Peak	V	-	-	-66.90	8.28	-9.54	38.84	73.98	-35.14
28600.00	Peak	V	-	-	-46.86	-9.08	-9.54	41.52	68.20	-26.68

Table 7-35. 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	V	119	348	-79.57	14.64	0.00	42.07	53.98	-11.91
* 11200.00	Peak	V	119	348	-67.84	14.64	0.00	53.80	73.98	-20.18
16800.00	Peak	V	112	302	-70.67	16.54	0.00	52.87	68.20	-15.33
* 22400.00	Average	V	100	339	-75.96	8.11	-9.54	29.61	53.98	-24.37
* 22400.00	Peak	V	100	339	-65.60	8.11	-9.54	39.97	73.98	-34.01
28000.00	Peak	V	100	320	-47.19	-9.26	-9.54	41.01	68.20	-27.19

Table 7-36. Radiated Measurements with WCP

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 123 of 189	

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	V	105	24	-77.89	11.71	0.00	40.82	53.98	-13.16
* 11490.00	Peak	V	105	24	-66.52	11.71	0.00	52.19	73.98	-21.79
17235.00	Peak	V	100	336	-67.27	16.95	0.00	56.68	68.20	-11.52
* 22980.00	Average	V	-	-	-76.89	8.16	-9.54	28.73	53.98	-25.25
* 22980.00	Peak	V	-	-	-66.48	8.16	-9.54	39.14	73.98	-34.84
28725.00	Peak	V	-	-	-46.04	-9.24	-9.54	42.18	68.20	-26.02

Table 7-37. 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	V	110	314	-80.87	14.64	0.00	40.77	53.98	-13.21
* 11570.00	Peak	V	110	314	-68.76	14.64	0.00	52.88	73.98	-21.10
17355.00	Peak	V	-	-	-73.11	23.38	0.00	57.27	68.20	-10.93
23140.00	Peak	V	-	-	-65.94	8.37	-9.54	39.89	68.20	-28.31
28925.00	Peak	V	-	-	-45.23	-9.65	-9.54	42.58	68.20	-25.62

Table 7-38. Radiated Measurements

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 124 of 189	

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	V	117	303	-79.96	16.13	0.00	43.17	53.98	-10.81
* 11650.00	Peak	V	117	303	-68.85	16.13	0.00	54.28	73.98	-19.70
17475.00	Peak	V	-	-	-70.81	22.25	0.00	58.44	68.20	-9.76
23300.00	Peak	V	-	-	-66.04	8.50	-9.54	39.92	68.20	-28.28
29125.00	Peak	V	-	-	-44.74	-9.87	-9.54	42.85	68.20	-25.35

Table 7-39. Radiated Measurements

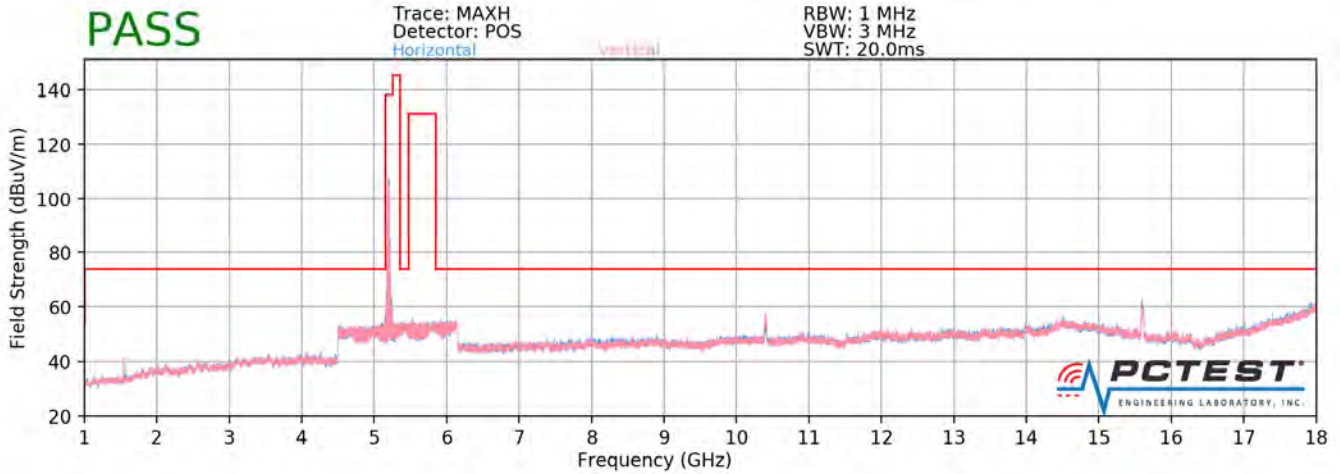
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

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	V	169	308	-80.48	16.13	0.00	42.65	53.98	-11.33
* 11650.00	Peak	V	169	308	-70.04	16.13	0.00	53.09	73.98	-20.89
17475.00	Peak	V	-	-	-72.00	22.25	0.00	57.25	68.20	-10.95
23300.00	Peak	V	100	301	-61.53	8.50	-9.54	44.43	68.20	-23.77
29125.00	Peak	V	-	-	-44.41	-9.87	-9.54	43.18	68.20	-25.02

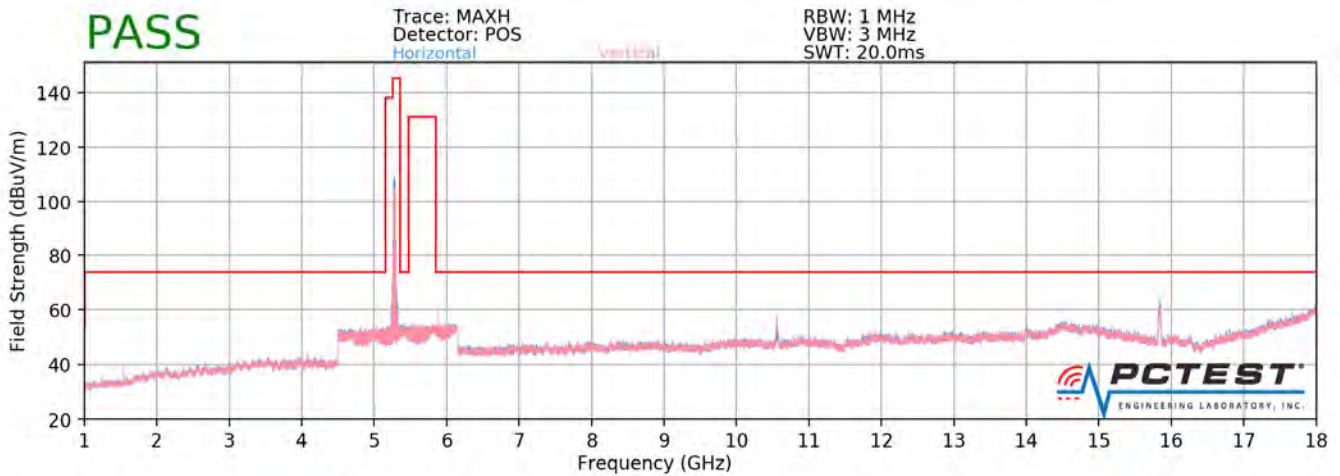
Table 7-40. Radiated Measurements with WCP

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 125 of 189	

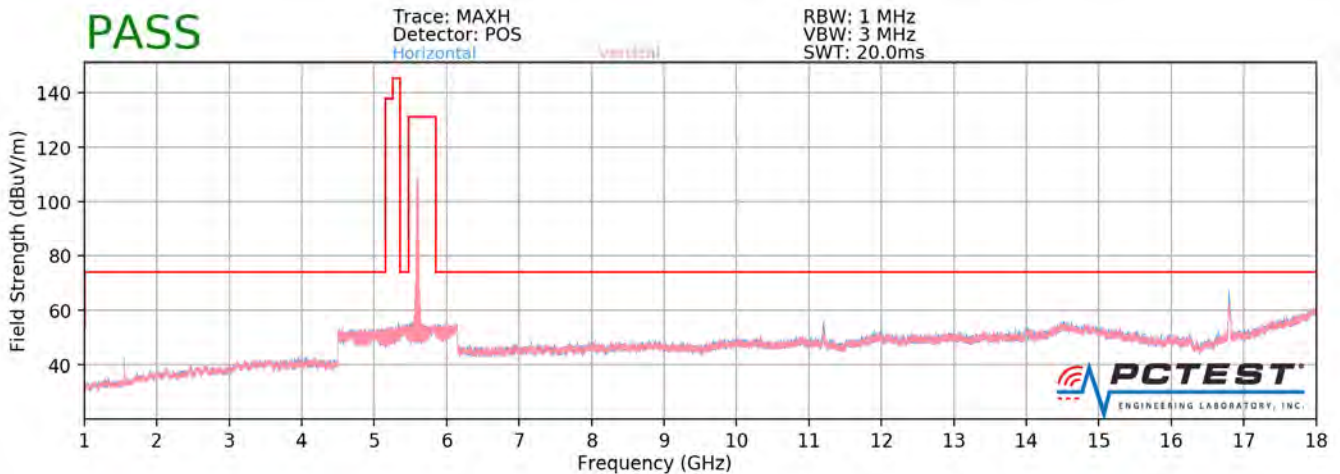
7.6.2 Antenna-2 Radiated Spurious Emission Measurements



Plot 7-163. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40)

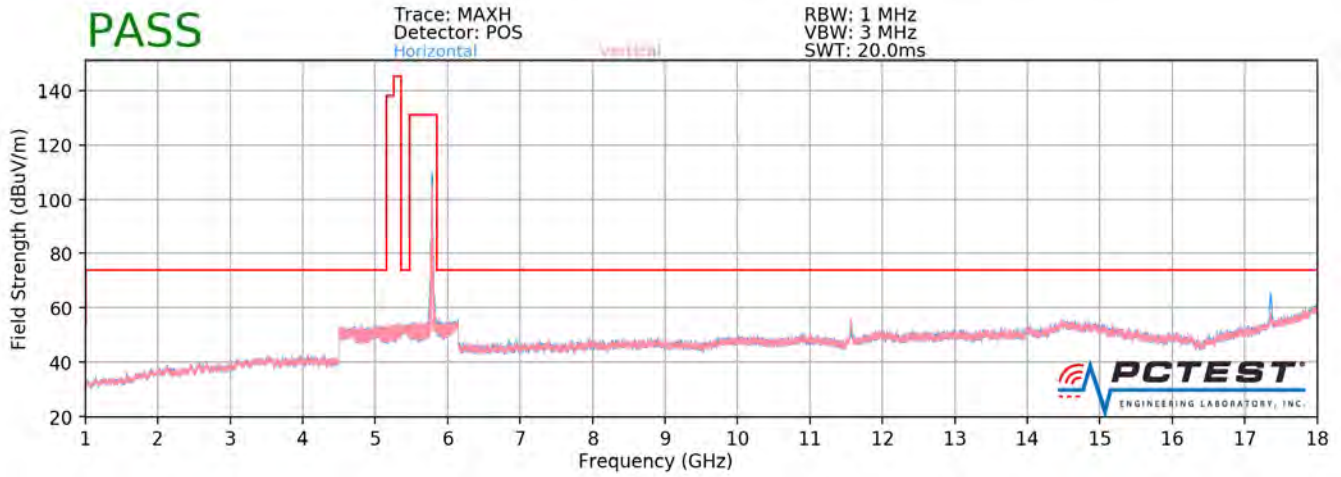


Plot 7-164. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56)



Plot 7-165. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 126 of 189



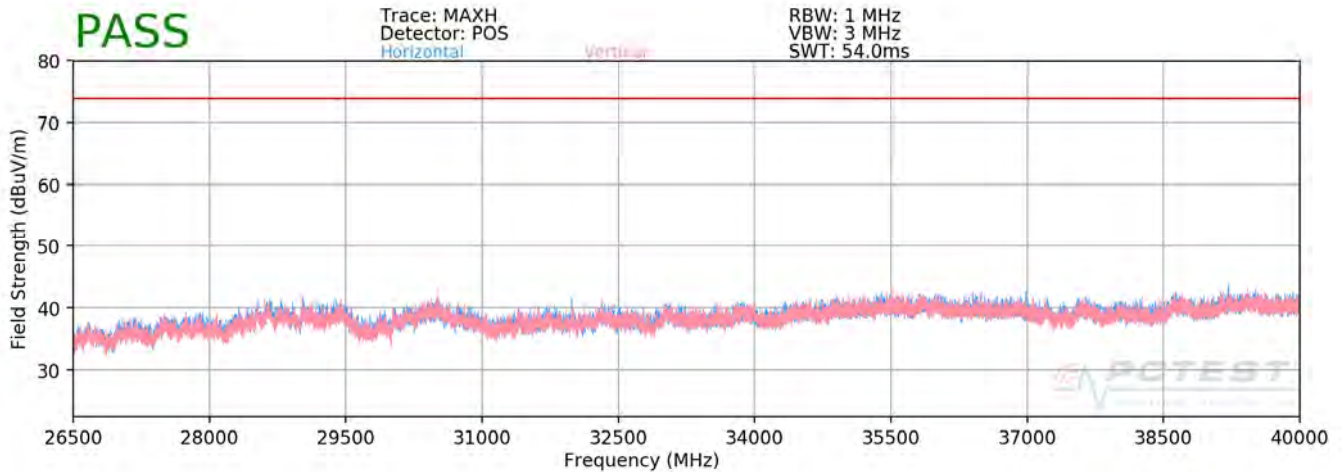
Plot 7-166. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 127 of 189	

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



Plot 7-167. Radiated Spurious Plot above 18GHz - 26.5GHz (802.11a)



Plot 7-168. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a)

FCC ID: A3LSMN960KOR	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 128 of 189	

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	V	-	-	-68.29	11.49	0.00	50.20	68.20	-18.00
* 15540.00	Average	V	149	341	-76.76	13.64	0.00	43.88	53.98	-10.10
* 15540.00	Peak	V	149	341	-63.93	13.64	0.00	56.71	73.98	-17.27
* 20720.00	Average	V	-	-	-77.11	7.94	-9.54	28.29	53.98	-25.69
* 20720.00	Peak	V	-	-	-68.58	7.94	-9.54	36.82	73.98	-37.16
25900.00	Peak	V	-	-	-66.27	8.46	-9.54	39.65	68.20	-28.55

Table 7-41. 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	V	-	-	-67.51	11.65	0.00	51.14	68.20	-17.06
* 15600.00	Average	V	145	341	-75.28	13.30	0.00	45.02	53.98	-8.96
* 15600.00	Peak	V	145	341	-61.45	13.30	0.00	58.85	73.98	-15.13
* 20800.00	Average	V	-	-	-76.90	7.95	-9.54	28.51	53.98	-25.46
* 20800.00	Peak	V	-	-	-68.34	7.95	-9.54	37.07	73.98	-36.90
26000.00	Peak	V	-	-	-63.61	8.60	-9.54	42.45	68.20	-25.75

Table 7-42. Radiated Measurements

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 129 of 189	

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	V	-	-	-67.99	11.69	0.00	50.70	68.20	-17.50
* 15720.00	Average	V	131	340	-74.41	12.81	0.00	45.40	53.98	-8.58
* 15720.00	Peak	V	131	340	-60.85	12.81	0.00	58.96	73.98	-15.02
* 20960.00	Average	V	-	-	-77.40	7.91	-9.54	27.97	53.98	-26.01
* 20960.00	Peak	V	-	-	-66.59	7.91	-9.54	38.78	73.98	-35.20
26200.00	Peak	V	-	-	-64.78	8.62	-9.54	41.30	68.20	-26.90

Table 7-43. 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	V	-	-	-69.50	12.01	0.00	49.51	68.20	-18.69
* 15720.00	Average	V	113	329	-79.17	15.79	0.00	43.62	53.98	-10.36
* 15720.00	Peak	V	113	329	-65.98	15.79	0.00	56.81	73.98	-17.17
* 20960.00	Average	V	-	-	-76.90	7.91	-9.54	28.47	53.98	-25.51
* 20960.00	Peak	V	-	-	-65.54	7.91	-9.54	39.84	73.98	-34.14
26200.00	Peak	V	-	-	-64.26	8.62	-9.54	41.82	68.20	-26.38

Table 7-44. Radiated Measurements with WCP

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 130 of 189	

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	V	-	-	-67.79	11.69	0.00	50.90	68.20	-17.30
* 15780.00	Average	V	112	344	-74.87	12.87	0.00	45.00	53.98	-8.97
* 15780.00	Peak	V	112	344	-61.66	12.87	0.00	58.21	73.98	-15.76
* 21040.00	Average	V	-	-	-77.20	7.92	-9.54	28.18	53.98	-25.80
* 21040.00	Peak	V	-	-	-66.83	7.92	-9.54	38.55	73.98	-35.43
26300.00	Peak	V	-	-	-64.38	8.73	-9.54	41.81	68.20	-26.39

Table 7-45. 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	V	-	-	-68.32	11.55	0.00	50.23	68.20	-17.97
* 15840.00	Average	V	113	356	-74.66	12.86	0.00	45.20	53.98	-8.78
* 15840.00	Peak	V	113	356	-61.01	12.86	0.00	58.85	73.98	-15.13
* 21120.00	Average	V	-	-	-76.77	7.96	-9.54	28.65	53.98	-25.33
* 21120.00	Peak	V	-	-	-66.12	7.96	-9.54	39.30	73.98	-34.68
26400.00	Peak	V	-	-	-64.76	8.94	-9.54	41.64	68.20	-26.56

Table 7-46. Radiated Measurements

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 131 of 189	

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	V	-	-	-79.59	11.81	0.00	39.22	53.98	-14.76
* 10640.00	Peak	V	-	-	-67.78	11.81	0.00	51.03	73.98	-22.95
* 15960.00	Average	V	117	360	-73.92	13.29	0.00	46.37	53.98	-7.61
* 15960.00	Peak	V	117	360	-60.05	13.29	0.00	60.24	73.98	-13.74
* 21280.00	Average	V	-	-	-76.49	8.04	-9.54	29.01	53.98	-24.97
* 21280.00	Peak	V	-	-	-66.09	8.04	-9.54	39.41	73.98	-34.57
26600.00	Peak	V	-	-	-47.01	-8.30	-9.54	42.15	68.20	-26.05

Table 7-47. 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	V	-	-	-81.48	11.81	0.00	37.33	53.98	-16.65
* 10640.00	Peak	V	-	-	-68.96	11.81	0.00	49.85	73.98	-24.13
* 15960.00	Average	V	117	322	-76.71	13.29	0.00	43.58	53.98	-10.40
* 15960.00	Peak	V	117	322	-62.92	13.29	0.00	57.37	73.98	-16.61
* 21280.00	Average	V	-	-	-76.42	8.04	-9.54	29.08	53.98	-24.90
* 21280.00	Peak	V	-	-	-65.39	8.04	-9.54	40.11	73.98	-33.87
26600.00	Peak	V	-	-	-48.47	-8.30	-9.54	40.69	68.20	-27.51

Table 7-48. Radiated Measurements with WCP

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 132 of 189	

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	V	241	1	-77.79	12.00	0.00	41.21	53.98	-12.77
* 11000.00	Peak	V	241	1	-66.00	12.00	0.00	53.00	73.98	-20.98
16500.00	Peak	V	139	362	-59.13	12.13	0.00	60.00	68.20	-8.20
22000.00	Peak	V	-	-	-65.70	8.43	-9.54	40.19	68.20	-28.01
27500.00	Peak	V	-	-	-47.14	-8.80	-9.54	41.52	68.20	-26.68

Table 7-49. 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	V	278	192	-78.96	11.34	0.00	39.38	53.98	-14.60
* 11200.00	Peak	V	278	192	-66.56	11.34	0.00	51.78	73.98	-22.20
16800.00	Peak	V	126	358	-64.26	13.98	0.00	56.72	68.20	-11.48
* 22400.00	Average	V	-	-	-77.26	8.11	-9.54	28.31	53.98	-25.67
* 22400.00	Peak	V	-	-	-66.99	8.11	-9.54	38.58	73.98	-35.40
28000.00	Peak	V	-	-	-47.26	-9.26	-9.54	40.94	68.20	-27.26

Table 7-50. Radiated Measurements

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 133 of 189	

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	V	144	9	-78.18	11.69	0.00	40.51	53.98	-13.47
* 11440.00	Peak	V	144	9	-66.62	11.69	0.00	52.07	73.98	-21.91
17160.00	Peak	V	163	287	-68.24	15.49	0.00	54.25	68.20	-13.95
* 22880.00	Average	V	-	-	-77.31	8.28	-9.54	28.43	53.98	-25.55
* 22880.00	Peak	V	-	-	-65.84	8.28	-9.54	39.90	73.98	-34.08
28600.00	Peak	V	-	-	-46.44	-9.08	-9.54	41.94	68.20	-26.26

Table 7-51. Radiated Measurements

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	V	-	-	-81.19	11.69	0.00	37.50	53.98	-16.48
* 11000.00	Peak	V	-	-	-69.21	11.69	0.00	49.48	73.98	-24.50
16500.00	Peak	V	128	321	-64.08	15.49	0.00	58.41	68.20	-9.79
22000.00	Peak	V	-	-	-64.60	8.43	-9.54	41.29	68.20	-26.91
27500.00	Peak	V	-	-	-47.20	-8.80	-9.54	41.46	68.20	-26.74

Table 7-52. Radiated Measurements with WCP

FCC ID: A3LSMN960KOR			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 134 of 189		

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	V	159	9	-78.33	11.71	0.00	40.38	53.98	-13.60
* 11490.00	Peak	V	159	9	-66.36	11.71	0.00	52.35	73.98	-21.63
17235.00	Peak	V	109	356	-66.39	16.95	0.00	57.56	68.20	-10.64
* 22980.00	Average	V	-	-	-77.12	8.16	-9.54	28.50	53.98	-25.48
* 22980.00	Peak	V	-	-	-66.27	8.16	-9.54	39.35	73.98	-34.63
28725.00	Peak	V	-	-	-46.55	-9.24	-9.54	41.67	68.20	-26.53

Table 7-53. 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	V	109	7	-77.81	11.93	0.00	41.12	53.98	-12.86
* 11570.00	Peak	V	109	7	-65.95	11.93	0.00	52.98	73.98	-21.00
17355.00	Peak	V	109	354	-67.17	18.62	0.00	58.45	68.20	-9.75
23140.00	Peak	V	-	-	-66.60	8.37	-9.54	39.23	68.20	-28.97
28925.00	Peak	V	-	-	-45.48	-9.65	-9.54	42.33	68.20	-25.87

Table 7-54. Radiated Measurements

FCC ID: A3LSMN960KOR			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 135 of 189	

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	V	149	4	-78.15	12.15	0.00	41.00	53.98	-12.98
* 11650.00	Peak	V	149	4	-66.23	12.15	0.00	52.92	73.98	-21.06
17475.00	Peak	V	177	149	-67.19	18.61	0.00	58.42	68.20	-9.78
23300.00	Peak	V	-	-	-66.13	8.50	-9.54	39.83	68.20	-28.37
29125.00	Peak	V	-	-	-44.90	-9.87	-9.54	42.69	68.20	-25.51

Table 7-55. 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	V	110	62	-81.33	14.64	0.00	40.31	53.98	-13.67
* 11570.00	Peak	V	110	62	-68.87	14.64	0.00	52.77	73.98	-21.21
17355.00	Peak	V	-	-	-72.18	23.38	0.00	58.20	68.20	-10.00
23140.00	Peak	V	-	-	-65.07	8.37	-9.54	40.76	68.20	-27.44
28925.00	Peak	V	-	-	-50.20	-9.65	-9.54	37.61	68.20	-30.59

Table 7-56. Radiated Measurements with WCP

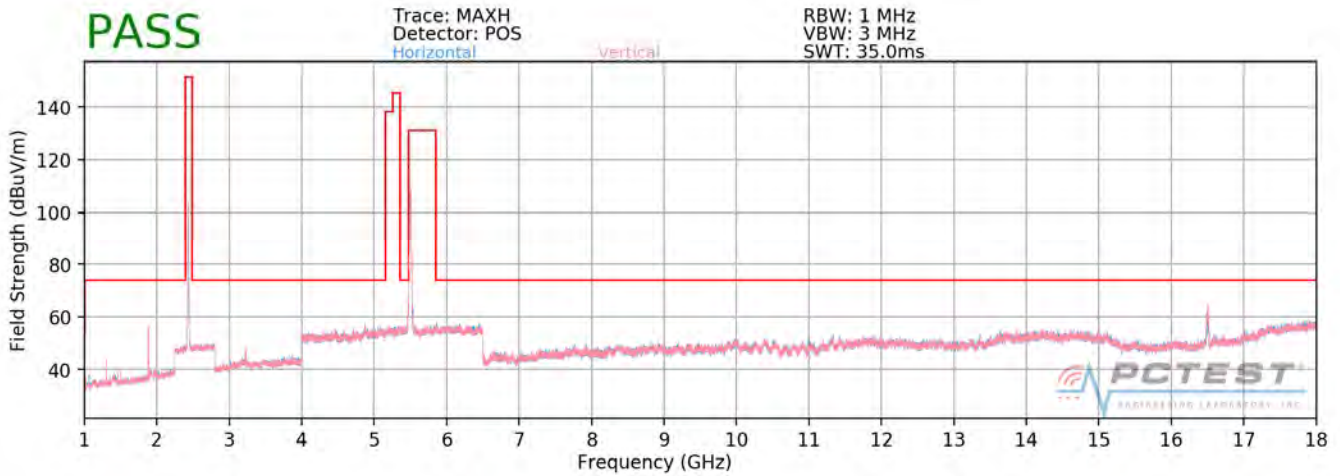
FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 136 of 189	

7.6.3 Simultaneous Tx Radiated Spurious Emissions Measurements

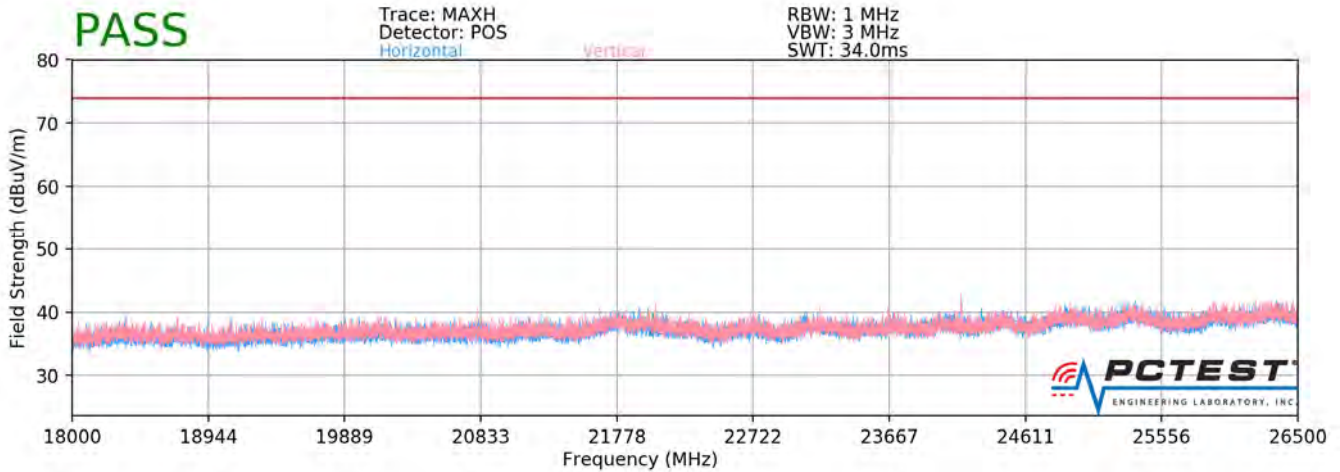
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1	2
Channel	6	100
Operating Frequency (MHz)	2437	5500
Data Rate (Mbps)	1	6
Mode	802.11b	802.11a

Table 7-57. Simultaneous Transmission Config-1

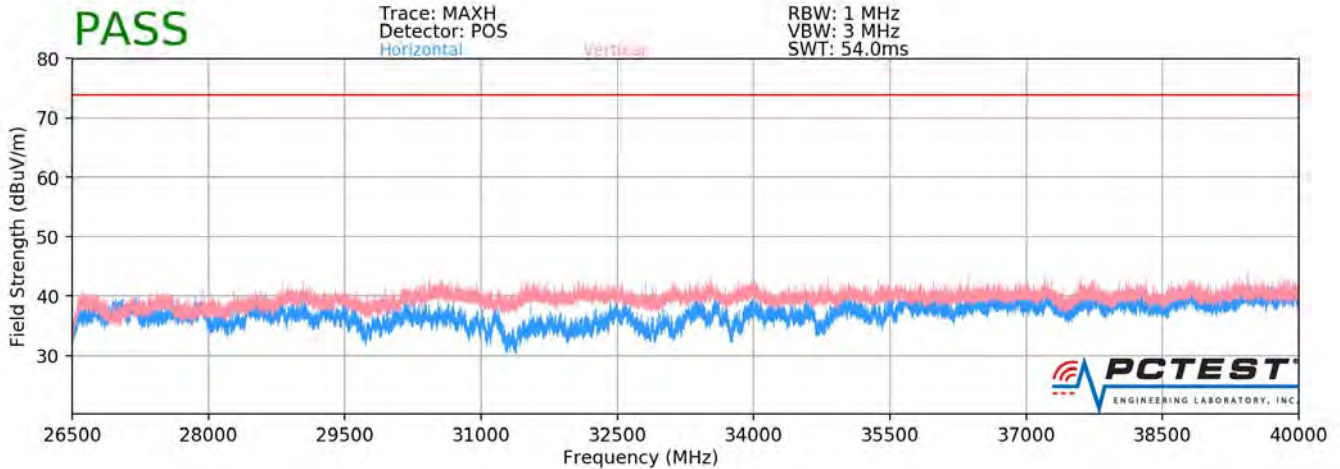


Plot 7-169. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)



Plot 7-170. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 5GHz)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 137 of 189



Plot 7-171. Radiated Spurious Plot above 26.5GHz (2.4GHz – 5GHz)

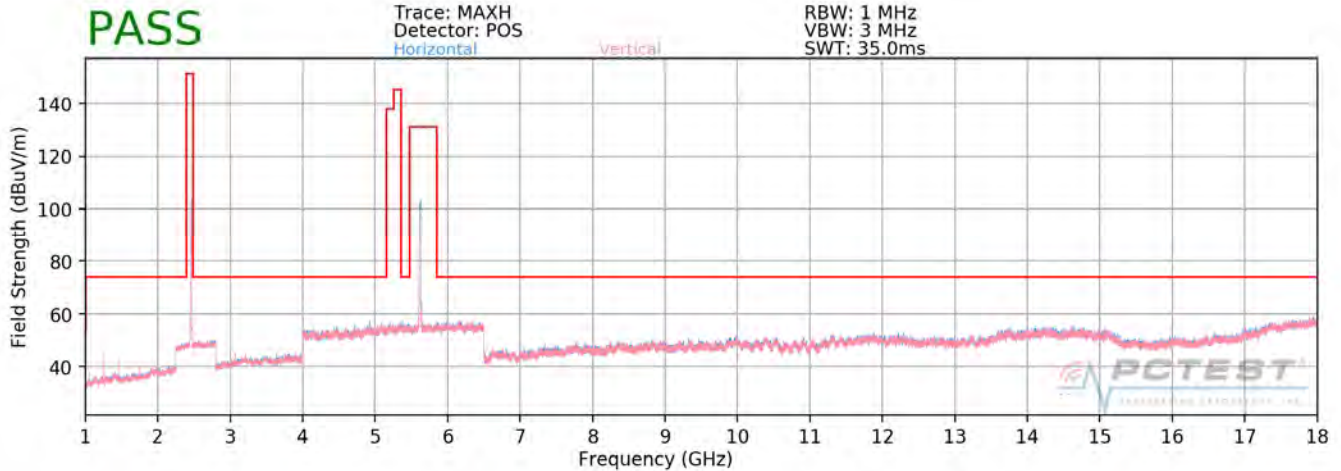
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	3689.00	Average	H	-	-	-77.95	0.90	29.95	53.98	-24.03
*	3689.00	Peak	H	-	-	-66.54	0.90	41.36	73.98	-32.62
*	6752.00	Average	H	-	-	-79.16	7.85	35.69	53.98	-18.29
	6752.00	Peak	H	-	-	-67.95	7.85	46.90	68.20	-21.30
*	8563.00	Average	H	-	-	-80.52	9.78	36.26	53.98	-17.72
	8563.00	Peak	H	-	-	-69.21	9.78	47.57	68.20	-20.63
*	9815.00	Average	H	-	-	-81.03	11.58	37.55	53.98	-16.43
	9815.00	Peak	H	-	-	-69.30	11.58	49.28	68.20	-18.92
*	11626.00	Average	H	-	-	-81.47	12.11	37.64	53.98	-16.34
*	11626.00	Peak	H	-	-	-69.95	12.11	49.16	73.98	-24.82
*	14689.00	Average	H	-	-	-82.03	18.12	43.09	53.98	-10.89
*	14689.00	Peak	H	-	-	-70.91	18.12	54.21	68.20	-13.99
	16500.00	Peak	H	139	340	-59.63	16.06	63.43	68.20	-4.77
*	17752.00	Average	H	-	-	-82.29	21.11	45.82	53.98	-8.16
*	17752.00	Peak	H	-	-	-71.71	21.11	56.40	73.98	-17.58

Table 7-58. Radiated Measurements (ANT1 2.4GHz – ANT2 5GHz)

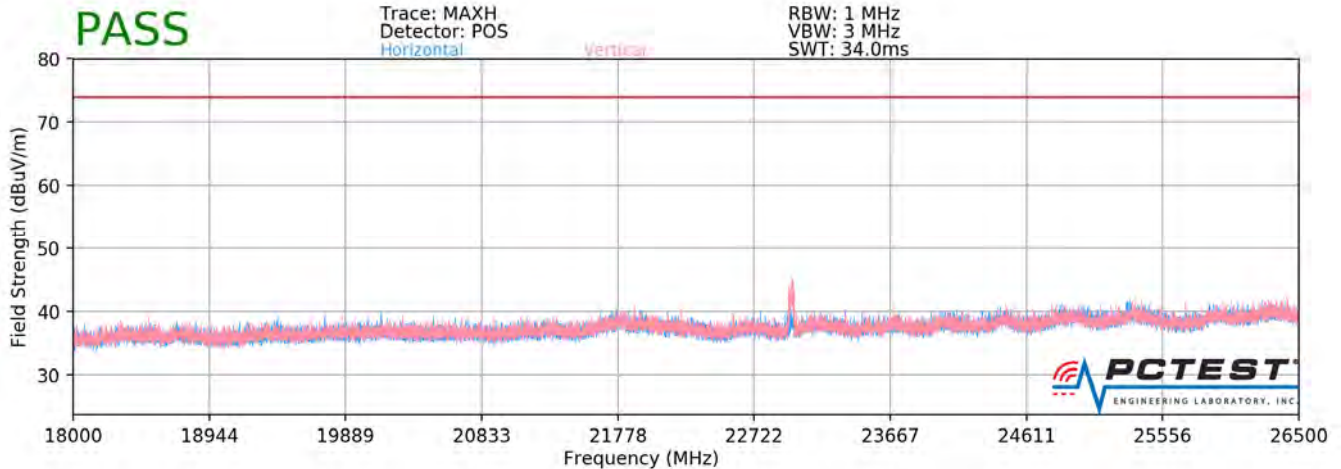
FCC ID: A3LSMN960KOR	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 138 of 189	

Description	2.4 GHz Emission	5 GHz Emission
Antenna	2	1
Channel	11	124
Operating Frequency (MHz)	2462	5620
Data Rate (Mbps)	1	6
Mode	802.11b	802.11a

Table 7-59. Simultaneous Transmission Config-2

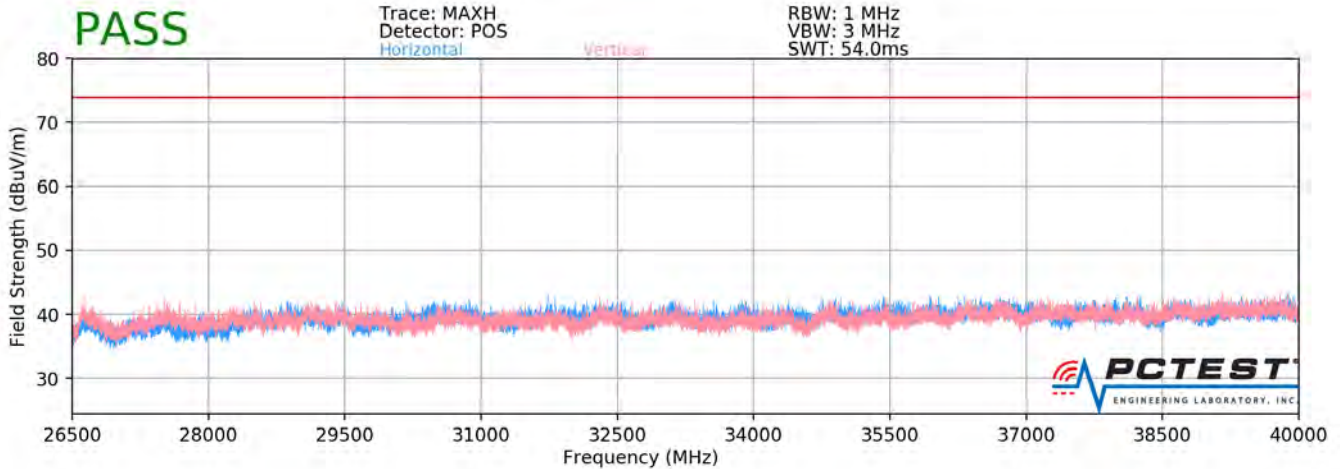


Plot 7-172. Radiated Spurious Plot above 1GHz (5GHz – 2.4 GHz)



Plot 7-173. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4 GHz)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 139 of 189



Plot 7-174. Radiated Spurious Plot above 26.5GHz (5GHz – 2.4 GHz)

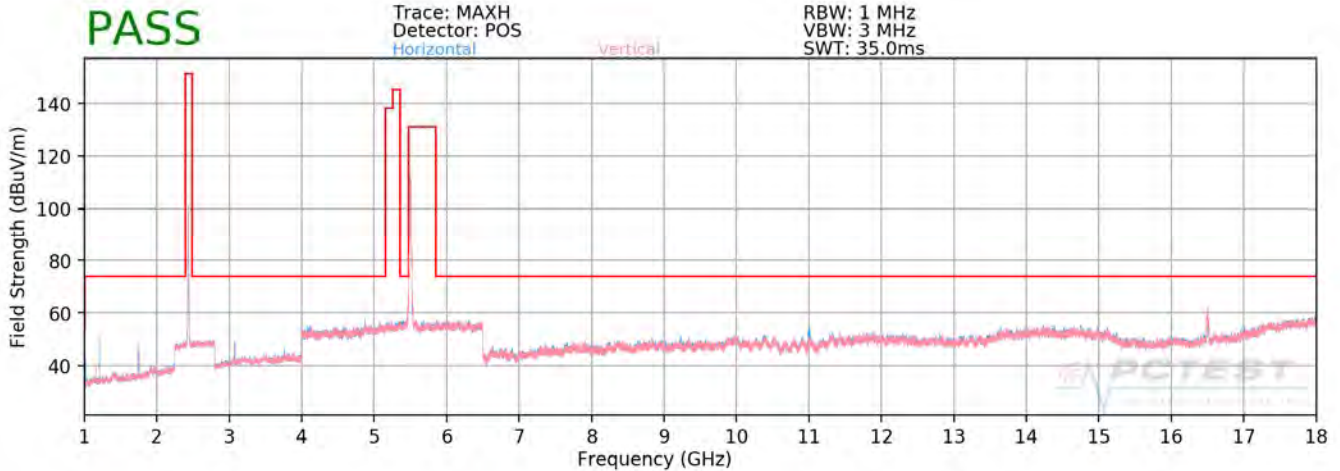
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	3854.00	Average	H	358	298	-77.78	1.89	31.11	53.98	-22.87
*	3854.00	Peak	H	358	298	-65.33	1.89	43.56	73.98	-30.42
	7012.00	Peak	H	-	-	-67.19	8.52	48.33	68.20	-19.87
	8778.00	Peak	H	-	-	-68.11	10.71	49.60	68.20	-18.60
	10170.00	Peak	H	-	-	-69.47	11.67	49.20	68.20	-19.00
*	11936.00	Average	H	-	-	-82.14	13.44	38.30	53.98	-15.68
*	11936.00	Peak	H	-	-	-69.74	13.44	50.70	73.98	-23.28
	15094.00	Peak	H	-	-	-70.22	15.26	52.04	68.20	-16.16

Table 7-60. Radiated Measurements (ANT1 5GHz – ANT2 2.4GHz)

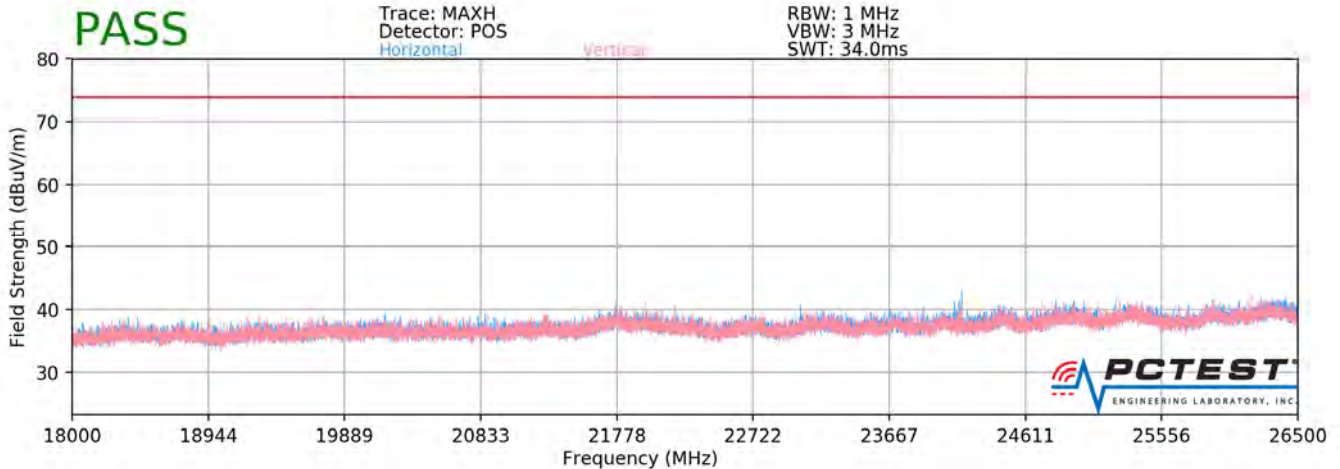
FCC ID: A3LSMN960KOR			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 140 of 189	

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	6	100
Operating Frequency (MHz)	2437	5500
Data Rate (Mbps)	6	6
Mode	802.11g	802.11a

Table 7-61. Dual Band Simultaneous Transmission

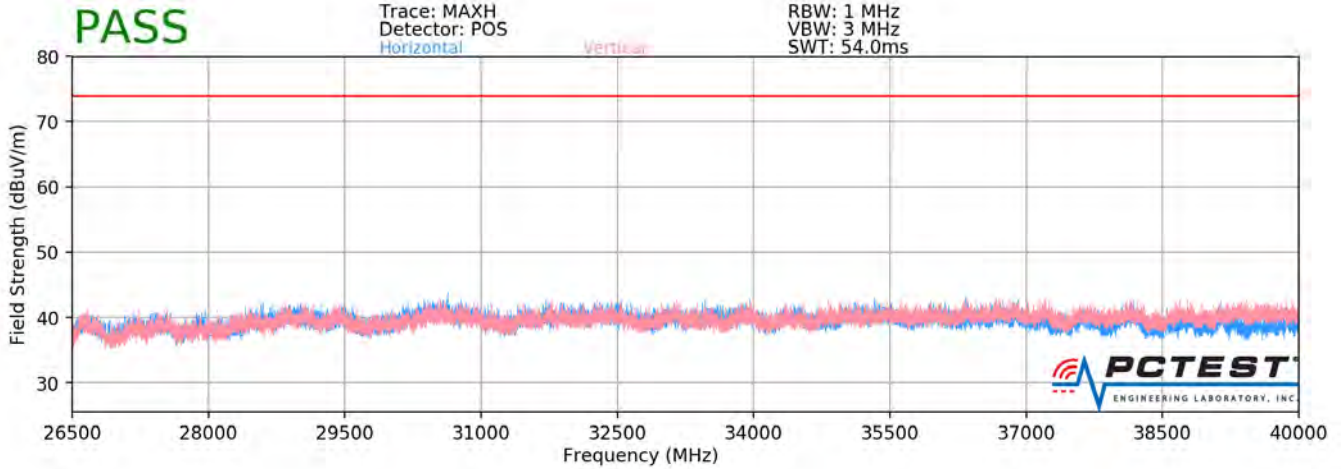


Plot 7-175. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx)



Plot 7-176. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx)

FCC ID: A3LSMN960KOR			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 141 of 189	



Plot 7-177. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx)

FCC ID: A3LSMN960KOR	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 142 of 189		

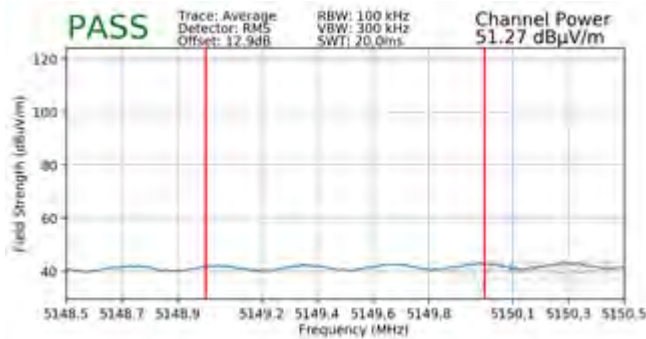
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 3689.00	Average	H	-	-	-78.07	0.90	29.83	53.98	-24.15
* 3689.00	Peak	H	-	-	-65.73	0.90	42.17	73.98	-31.81
* 6752.00	Average	H	-	-	-78.77	7.85	36.08	53.98	-17.90
6752.00	Peak	H	-	-	-66.83	7.85	48.02	68.20	-20.18
* 8563.00	Average	H	-	-	-80.10	9.78	36.68	53.98	-17.30
8563.00	Peak	H	-	-	-67.80	9.78	48.98	68.20	-19.22
* 9815.00	Average	H	-	-	-80.91	11.58	37.67	53.98	-16.31
9815.00	Peak	H	-	-	-68.90	11.58	49.68	68.20	-18.52
* 11626.00	Average	H	-	-	-81.40	12.11	37.71	53.98	-16.27
* 11626.00	Peak	H	-	-	-69.44	12.11	49.67	73.98	-24.31
* 14689.00	Average	H	-	-	-82.31	18.12	42.81	53.98	-11.17
* 14689.00	Peak	H	-	-	-70.97	18.12	54.15	73.98	-19.83
16500.00	Peak	H	140	344	-60.48	16.06	62.58	68.20	-5.62
* 17752.00	Average	H	-	-	-82.35	21.11	45.76	53.98	-8.22
* 17752.00	Peak	H	-	-	-71.02	21.11	57.09	73.98	-16.89

Table 7-62. Radiated Measurements (Dual Band Simult. Tx)

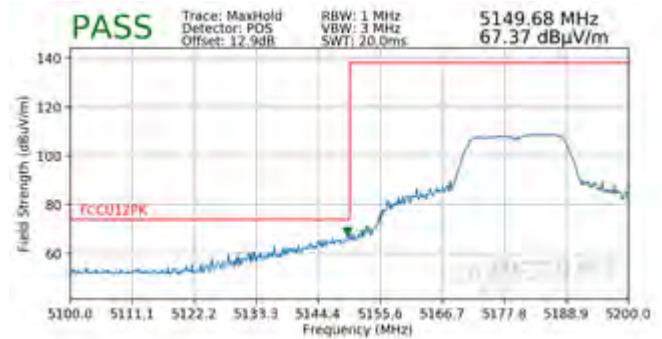
FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset			Page 143 of 189

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 7-178. Radiated Lower Band Edge Plot (Average – UNII Band 1)



Plot 7-179. 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



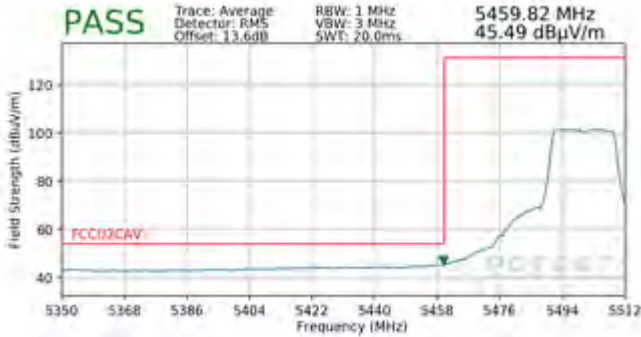
Plot 7-180. Radiated Upper Band Edge Plot (Average – UNII Band 2A)



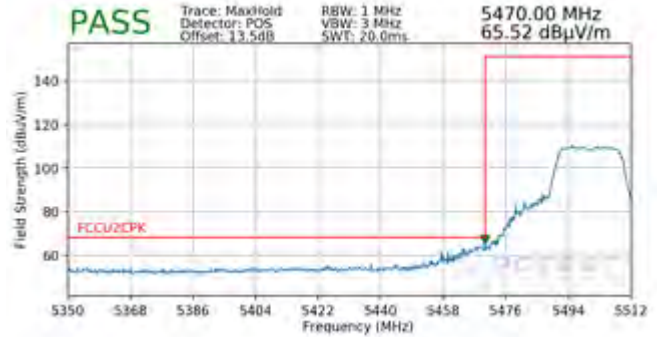
Plot 7-181. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 144 of 189

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

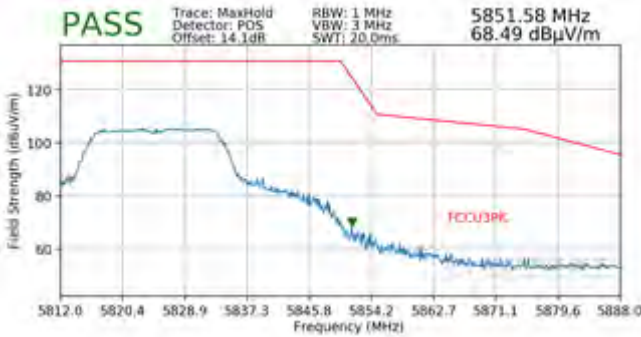


Plot 7-182. Radiated Lower Band Edge Plot (Average – UNII Band 2C)



Plot 7-183. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)

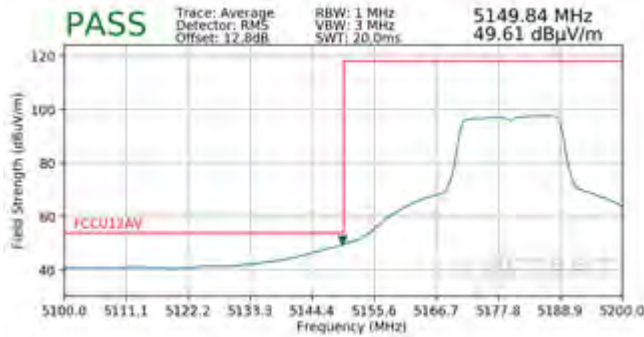
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



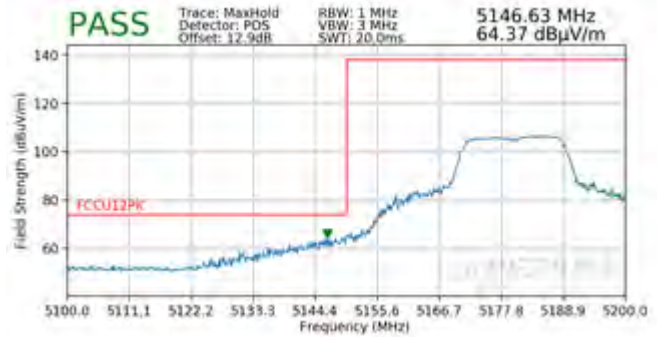
Plot 7-184. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 145 of 189

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



Plot 7-185. Radiated Band Edge Plot (Average – WCP)

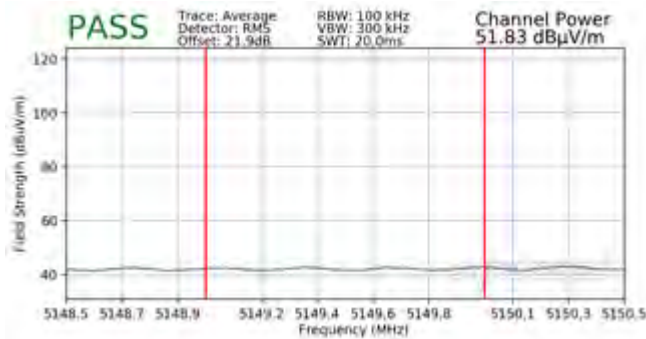


Plot 7-186. Radiated Band Edge Plot (Peak – WCP)

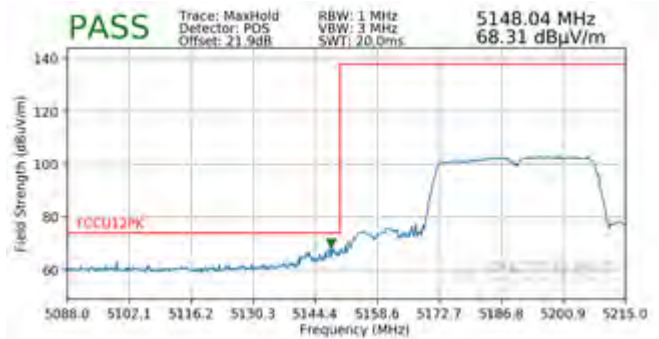
FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 146 of 189

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

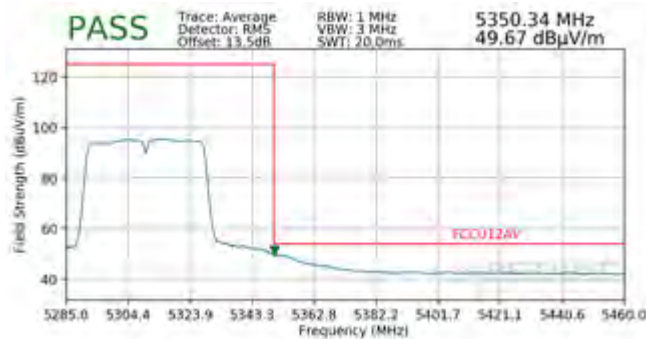


Plot 7-187. Radiated Lower Band Edge Plot (Average – UNII Band 1)

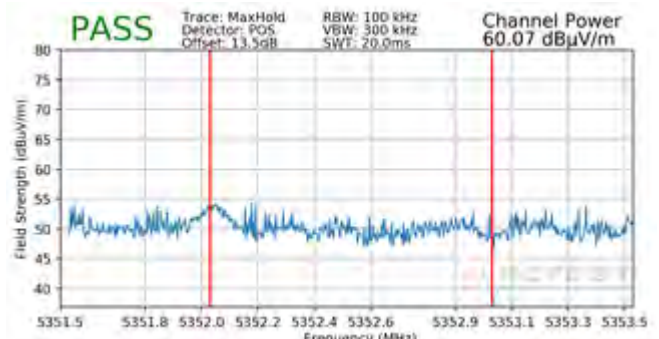


Plot 7-188. Radiated Lower Band Edge Plot (Peak – UNII Band 1)

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



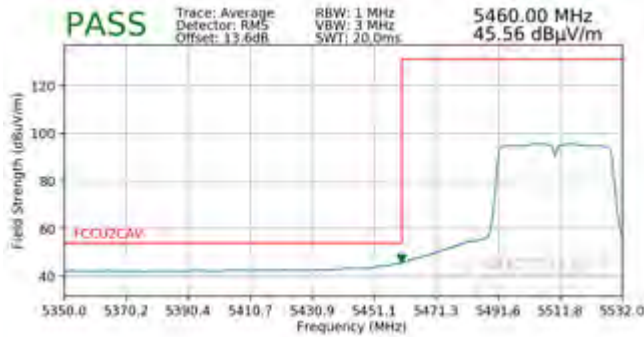
Plot 7-189. Radiated Upper Band Edge Plot (Average – UNII Band 2A)



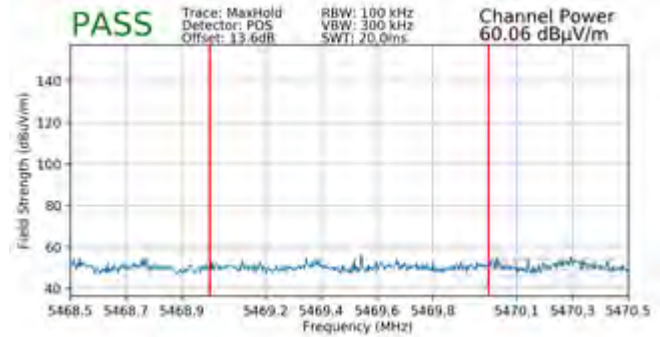
Plot 7-190. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 147 of 189

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

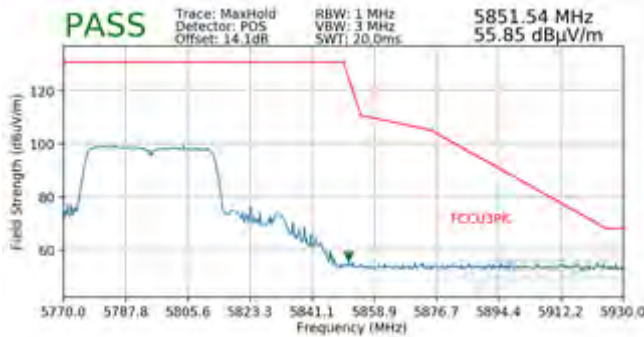


Plot 7-191. Radiated Lower Band Edge Plot (Average – UNII Band 2C)



Plot 7-192. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)

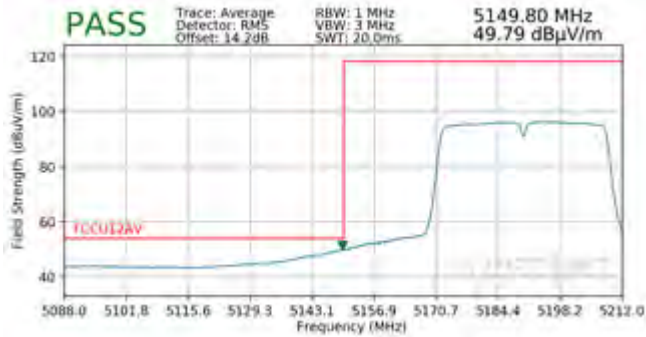
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



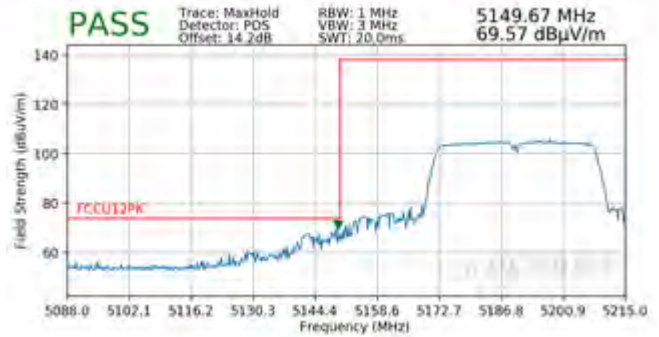
Plot 7-193. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 148 of 189

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



Plot 7-194. Radiated Band Edge Plot (Average – WCP)

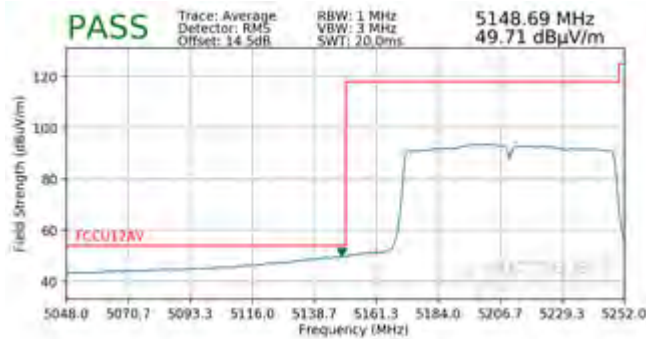


Plot 7-195. Radiated Band Edge Plot (Peak – WCP)

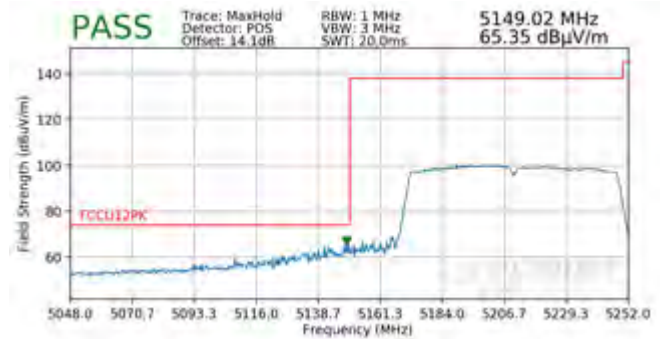
FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 149 of 189

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

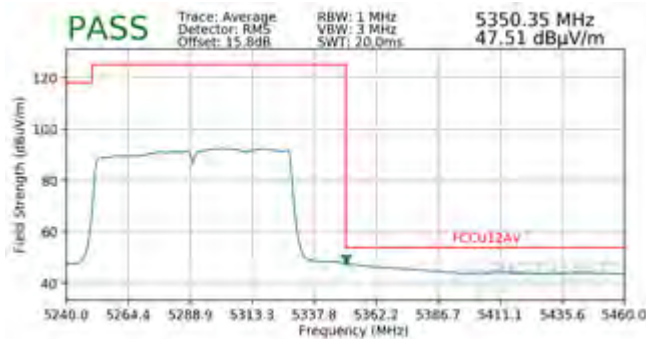


Plot 7-196. Radiated Lower Band Edge Plot (Average – UNII Band 1)

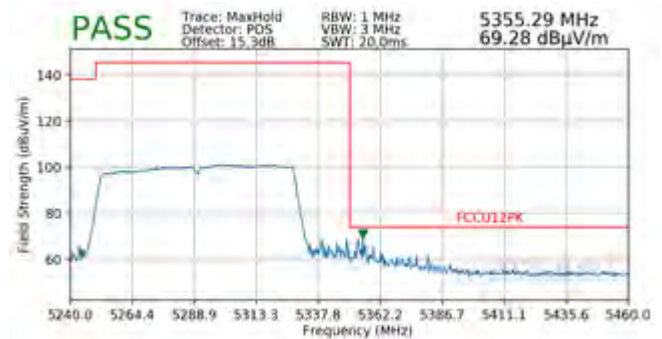


Plot 7-197. Radiated Lower Band Edge Plot (Peak – UNII Band 1)

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



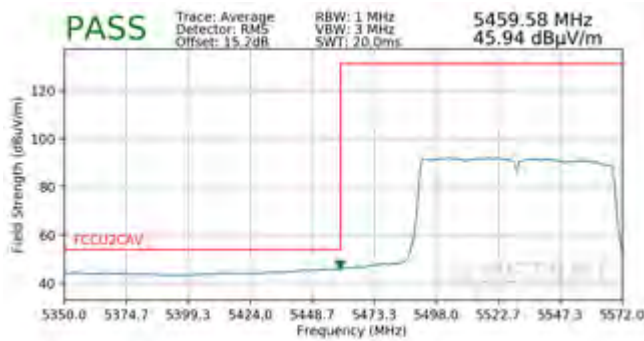
Plot 7-198. Radiated Upper Band Edge Plot (Average – UNII Band 2A)



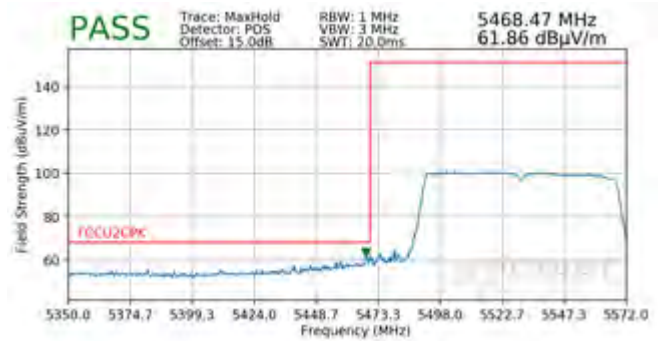
Plot 7-199. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 150 of 189

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

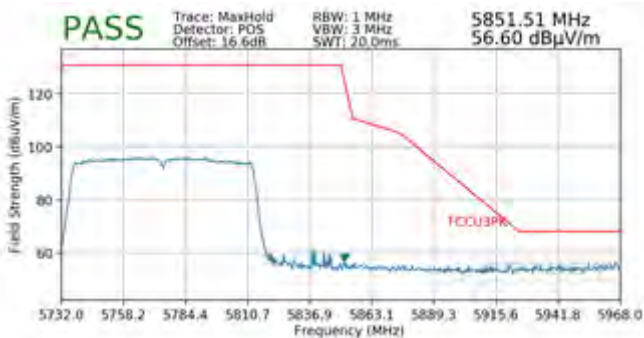


Plot 7-200. Radiated Lower Band Edge Plot (Average – UNII Band 2C)



Plot 7-201. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)

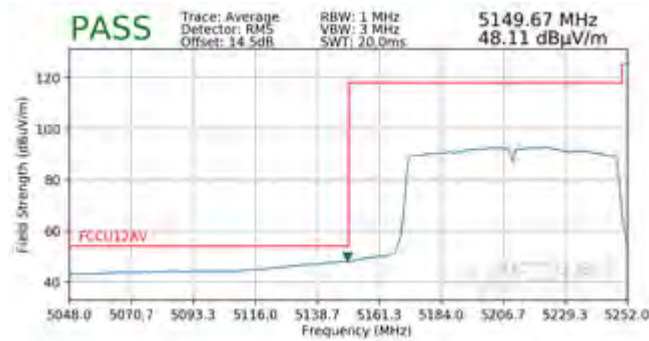
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



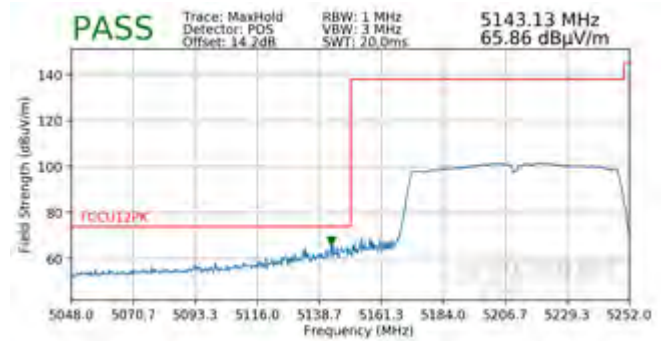
Plot 7-202. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 151 of 189	

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



Plot 7-203. Radiated Band Edge Plot (Average – WCP)

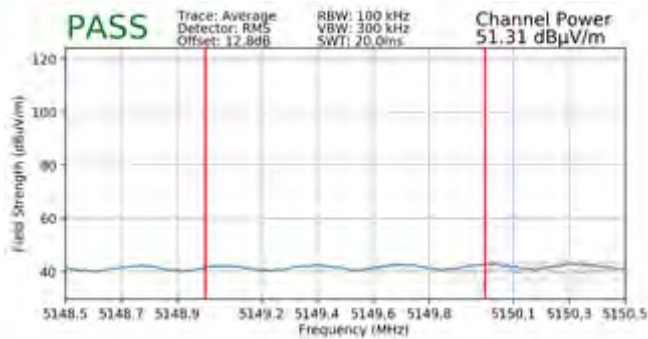


Plot 7-204. Radiated Band Edge Plot (Peak – WCP)

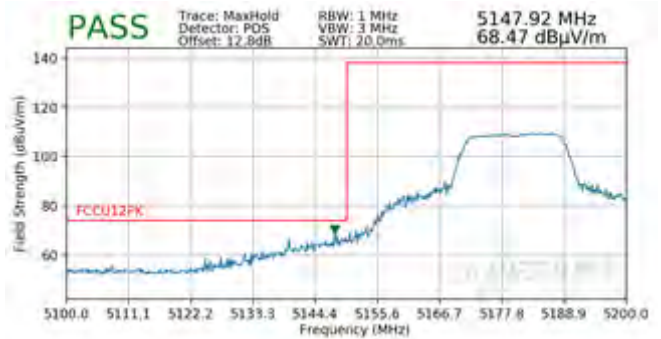
FCC ID: A3LSMN960KOR			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 152 of 189	

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 7-205. Radiated Lower Band Edge Plot (Average – UNII Band 1)



Plot 7-206. 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



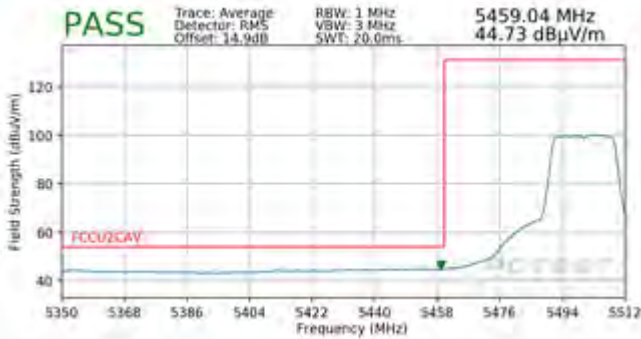
Plot 7-207. Radiated Upper Band Edge Plot (Average – UNII Band 2A)



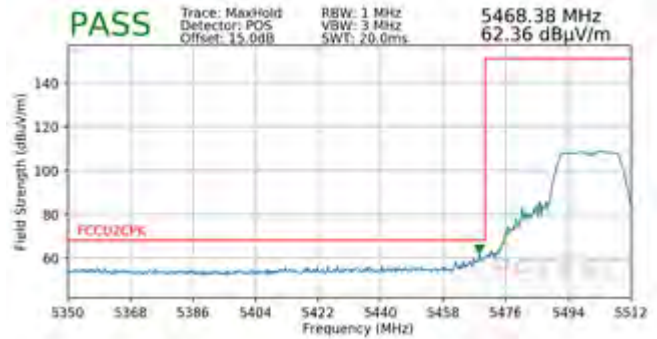
Plot 7-208. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 153 of 189

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

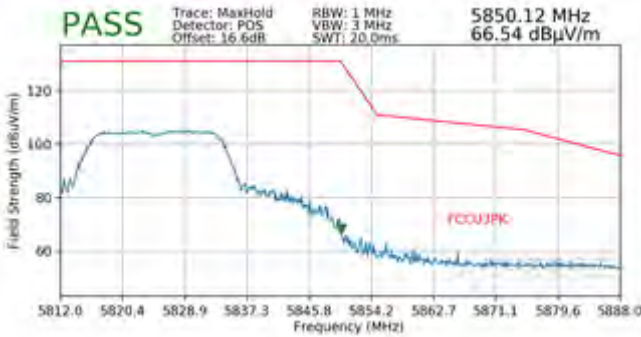


Plot 7-209. Radiated Lower Band Edge Plot (Average – UNII Band 2C)



Plot 7-210. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)

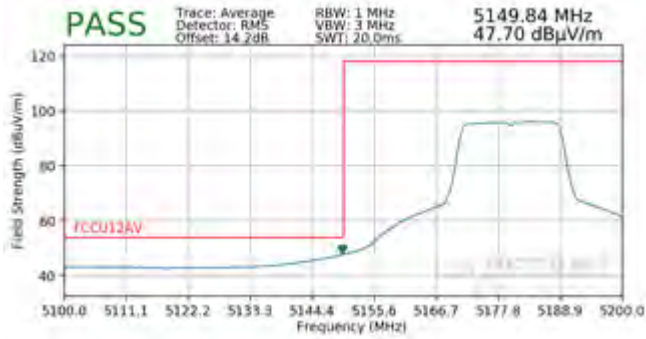
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



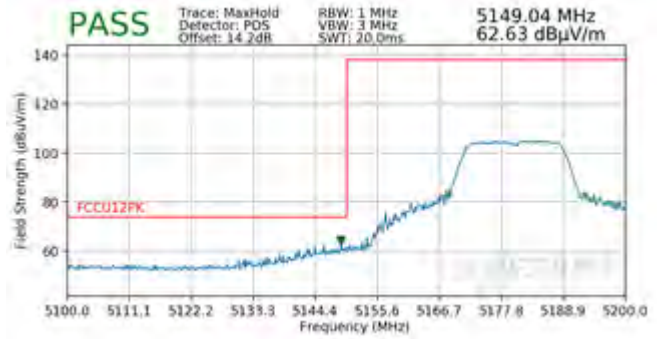
Plot 7-211. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 154 of 189

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



Plot 7-212. Radiated Band Edge Plot (Average – WCP)

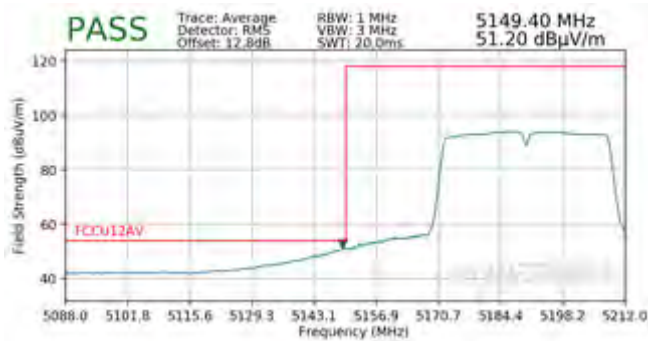


Plot 7-213. Radiated Band Edge Plot (Peak – WCP)

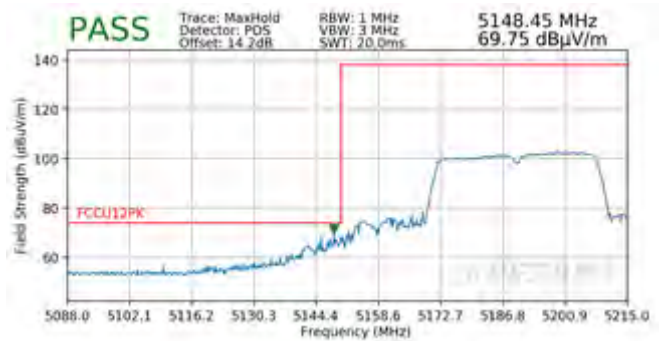
FCC ID: A3LSMN960KOR	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 155 of 189	

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

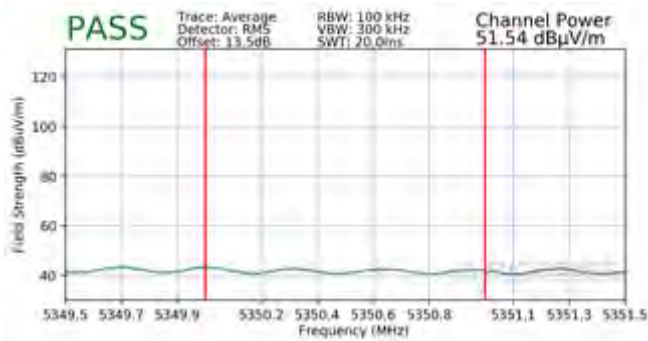


Plot 7-214. Radiated Lower Band Edge Plot (Average – UNII Band 1)

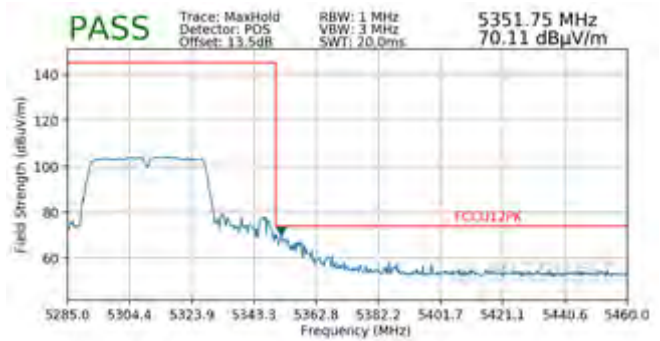


Plot 7-215. Radiated Lower Band Edge Plot (Peak – UNII Band 1)

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



Plot 7-216. Radiated Upper Band Edge Plot (Average – UNII Band 2A)



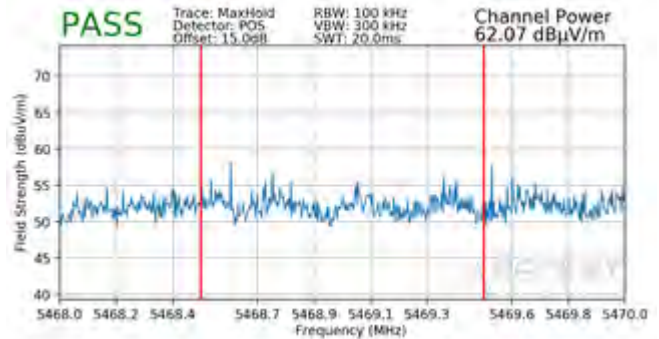
Plot 7-217. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 156 of 189

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

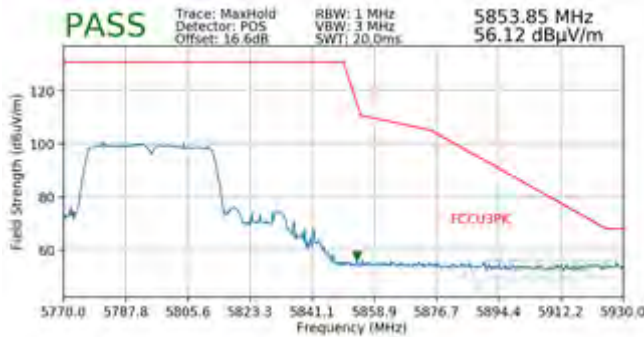


Plot 7-218. Radiated Lower Band Edge Plot (Average – UNII Band 2C)



Plot 7-219. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)

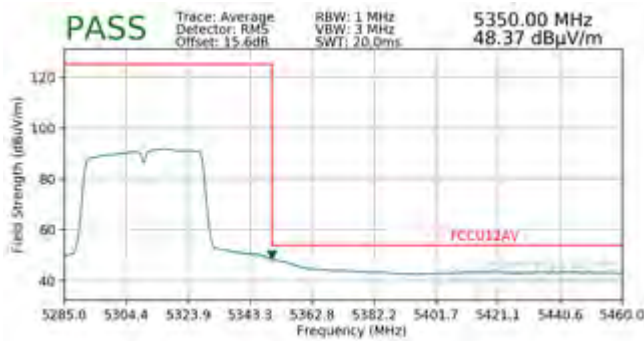
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



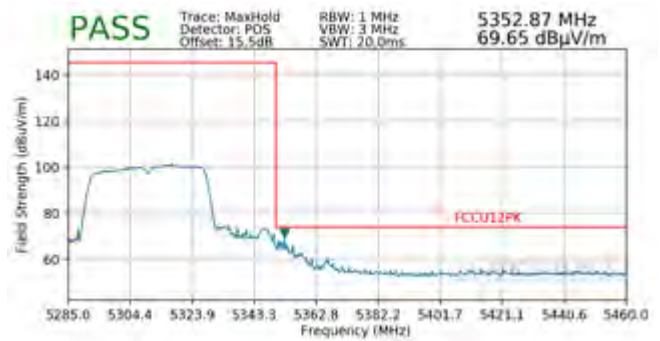
Plot 7-220. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMN960KOR			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 157 of 189	

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



Plot 7-221. Radiated Band Edge Plot (Average – WCP)

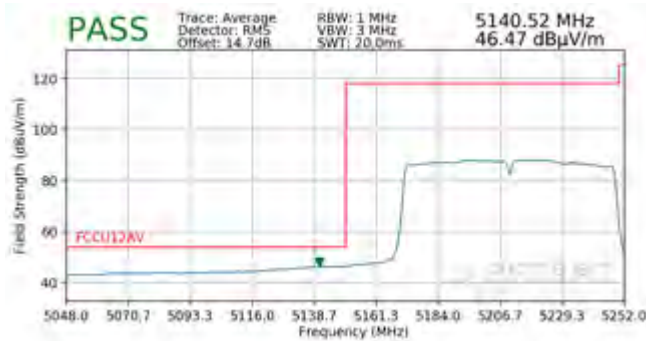


Plot 7-222. Radiated Band Edge Plot (Peak – WCP)

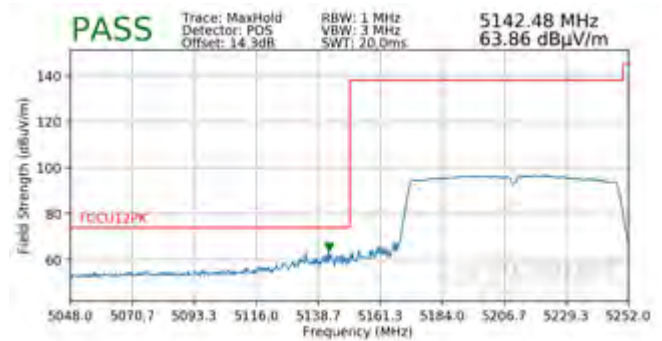
FCC ID: A3LSMN960KOR	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 158 of 189

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

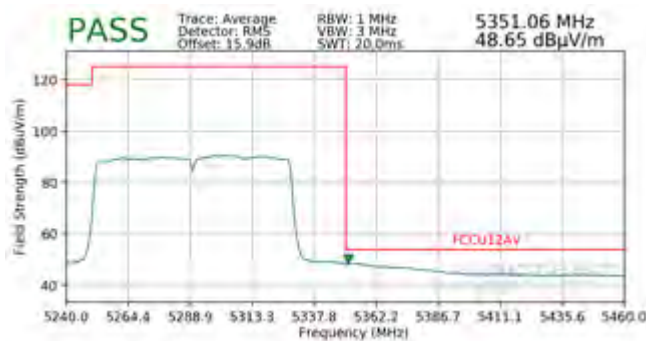


Plot 7-223. Radiated Lower Band Edge Plot (Average – UNII Band 1)

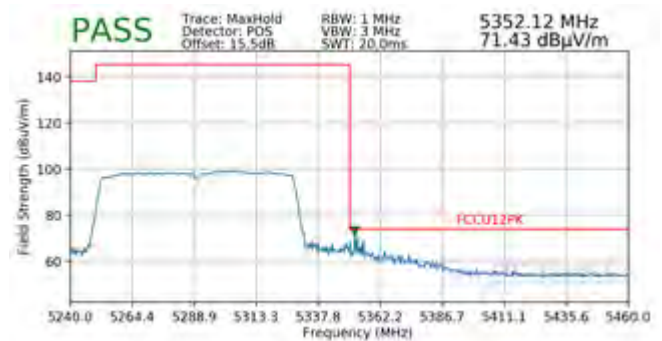


Plot 7-224. Radiated Lower Band Edge Plot (Peak – UNII Band 1)

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



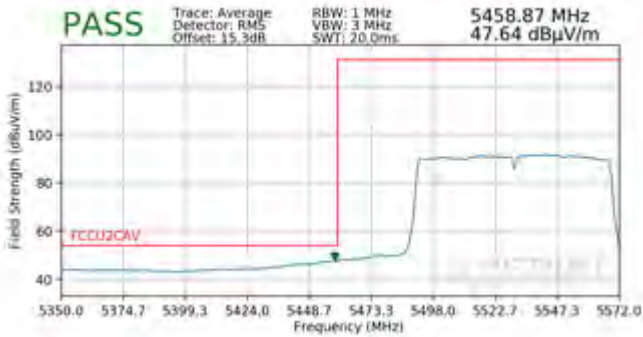
Plot 7-225. Radiated Upper Band Edge Plot (Average – UNII Band 2A)



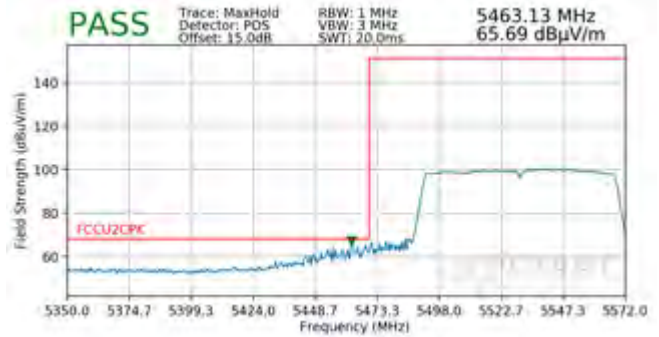
Plot 7-226. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 159 of 189

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

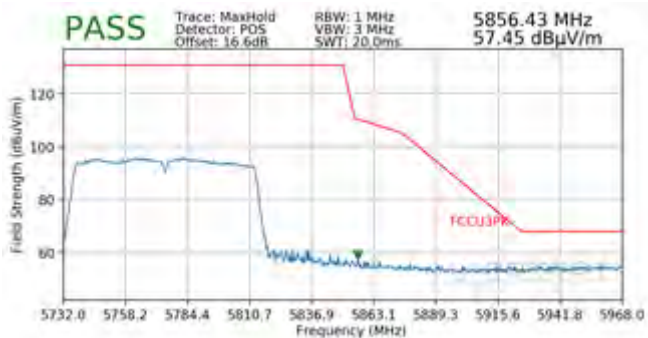


Plot 7-227. Radiated Lower Band Edge Plot (Average – UNII Band 2C)



Plot 7-228. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)

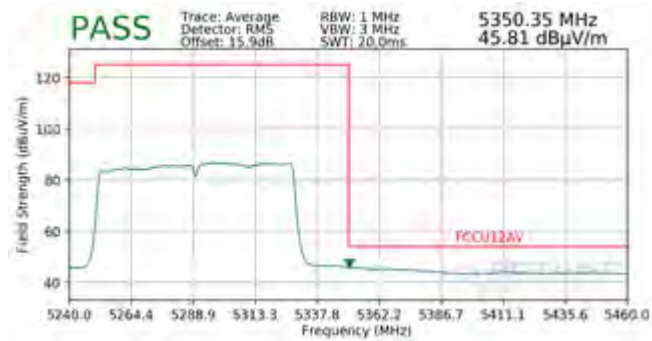
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



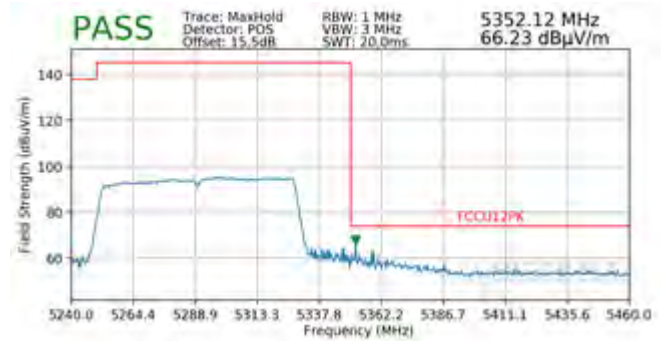
Plot 7-229. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 160 of 189

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



Plot 7-230. Radiated Band Edge Plot (Average – WCP)

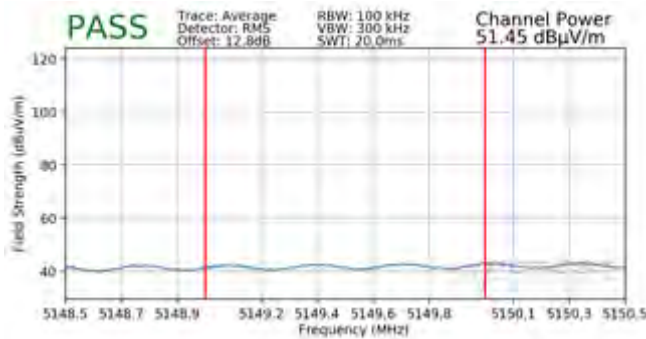


Plot 7-231. Radiated Band Edge Plot (Peak – WCP)

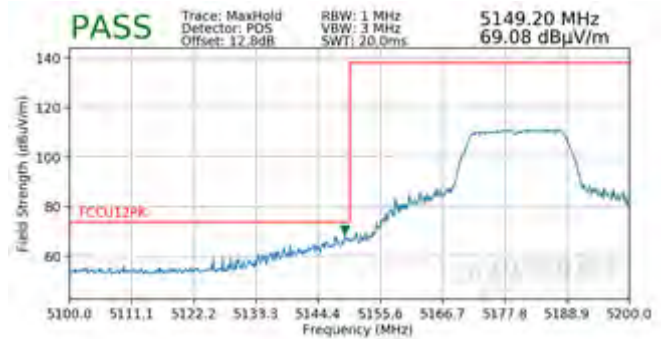
FCC ID: A3LSMN960KOR			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 161 of 189		

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

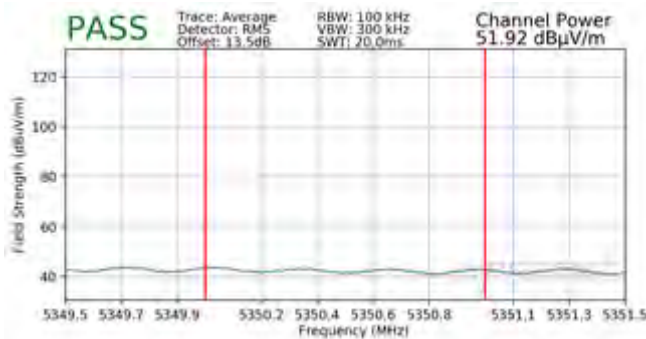


Plot 7-232. Radiated Lower Band Edge Plot (Average – UNII Band 1)



Plot 7-233. 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



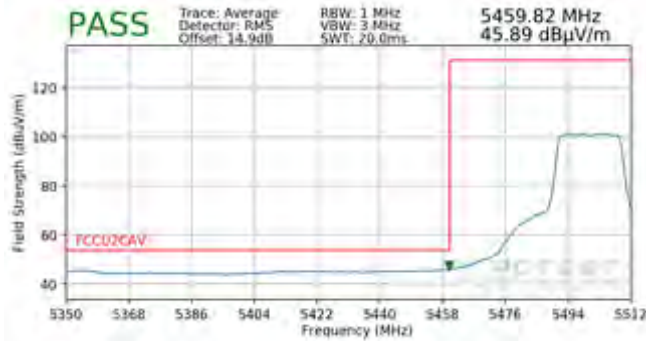
Plot 7-234. Radiated Upper Band Edge Plot (Average – UNII Band 2A)



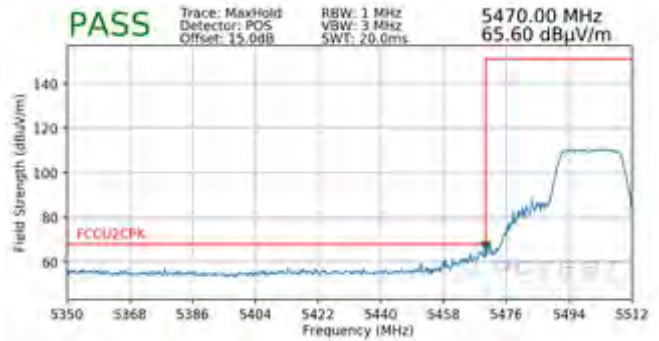
Plot 7-235. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

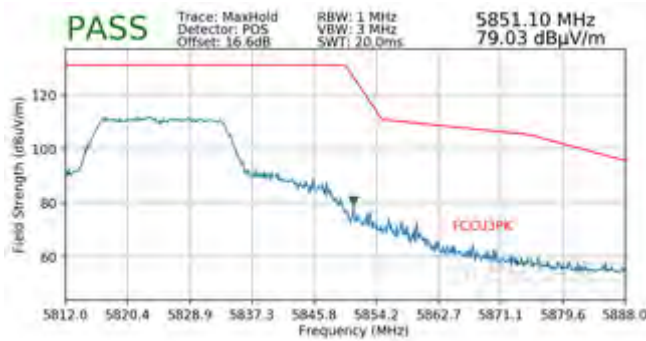


Plot 7-236. Radiated Upper Band Edge Plot (Average – UNII Band 2C)



Plot 7-237. Radiated Upper 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 7-238. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 163 of 189

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



Plot 7-239. Radiated Band Edge Plot (Average – WCP)

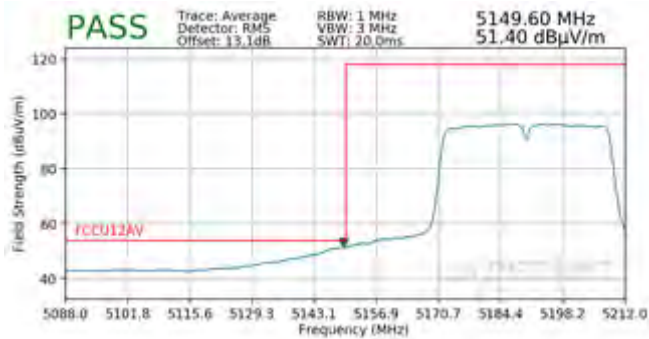


Plot 7-240. Radiated Band Edge Plot (Peak – WCP)

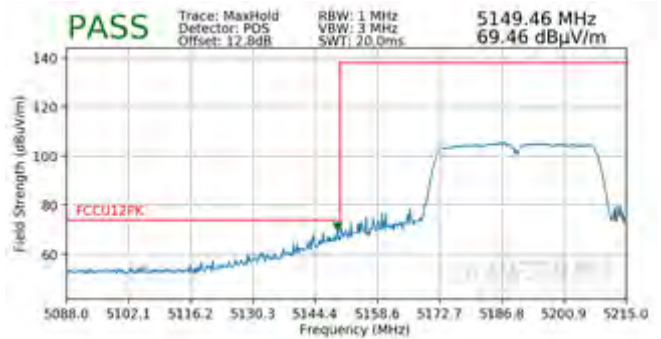
FCC ID: A3LSMN960KOR	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 164 of 189	

7.6.11 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 7-241. Radiated Lower Band Edge Plot (Average – UNII Band 1)



Plot 7-242. 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 7-243. Radiated Upper Band Edge Plot (Average – UNII Band 2A)



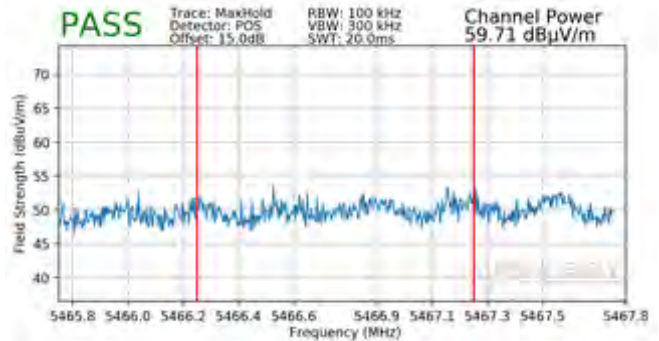
Plot 7-244. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 165 of 189

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

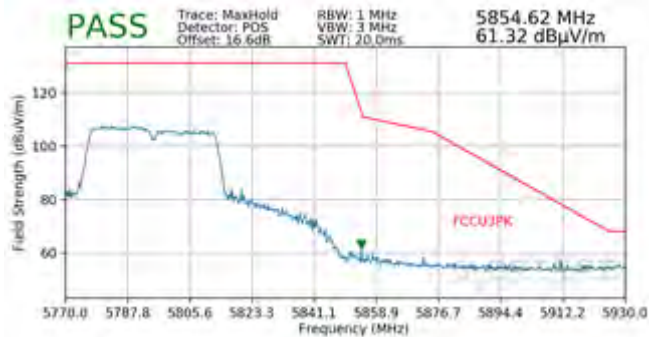


Plot 7-245. Radiated Lower Band Edge Plot (Average – UNII Band 2C)



Plot 7-246. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)

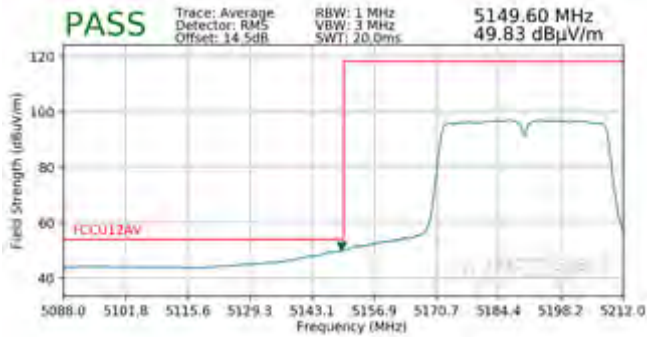
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



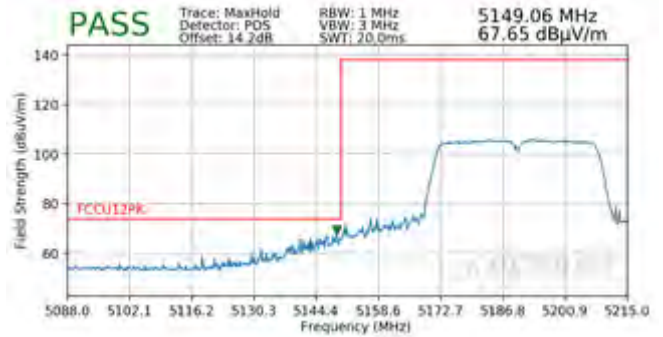
Plot 7-247. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 166 of 189

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



Plot 7-248. Radiated Band Edge Plot (Average – WCP)

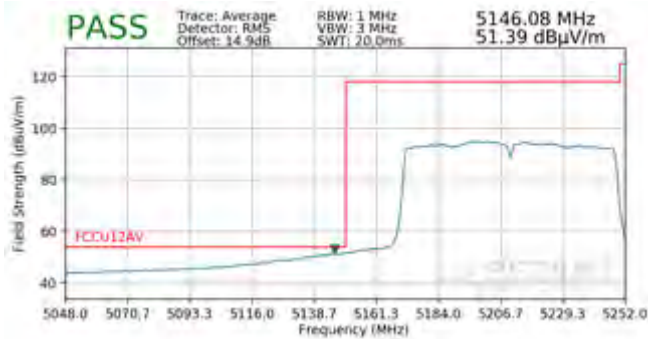


Plot 7-249. Radiated Band Edge Plot (Peak – WCP)

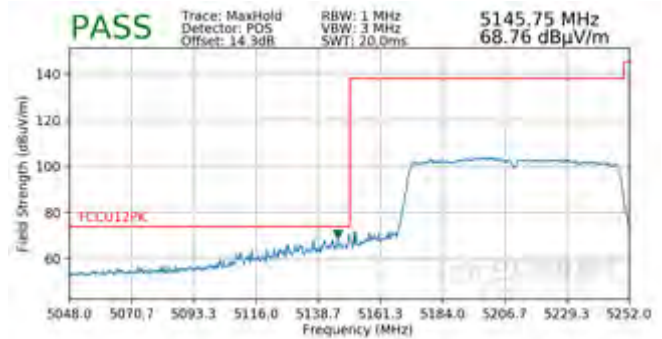
FCC ID: A3LSMN960KOR	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 167 of 189	

7.6.12 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 7-250. Radiated Lower Band Edge Plot (Average – UNII Band 1)

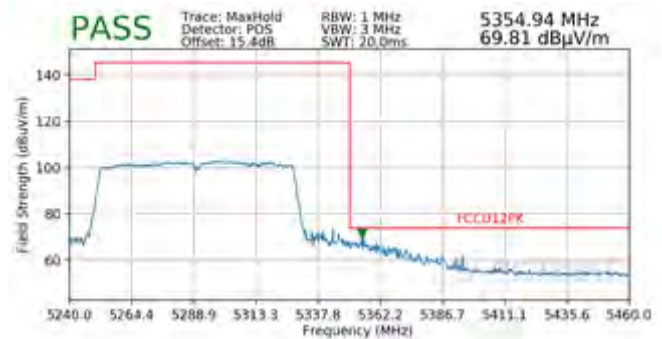


Plot 7-251. Radiated Lower Band Edge Plot (Peak – UNII Band 1)

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



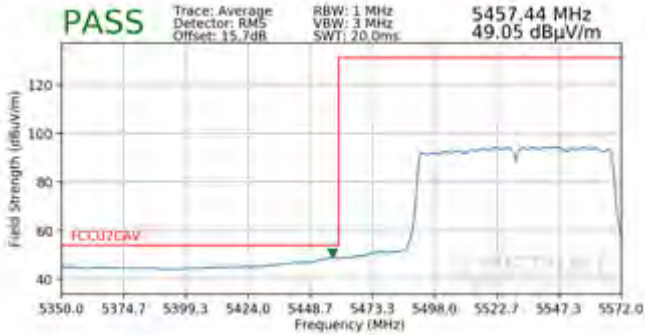
Plot 7-252. Radiated Upper Band Edge Plot (Average – UNII Band 2A)



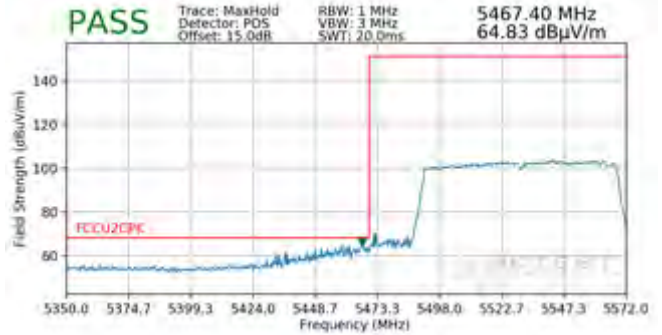
Plot 7-253. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 168 of 189

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

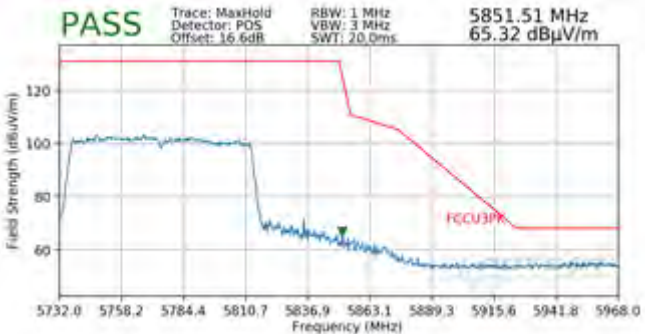


Plot 7-254. Radiated Lower Band Edge Plot (Average – UNII Band 2C)



Plot 7-255. Radiated Lower Band Edge Plot (Peak – UNII Band 2C)

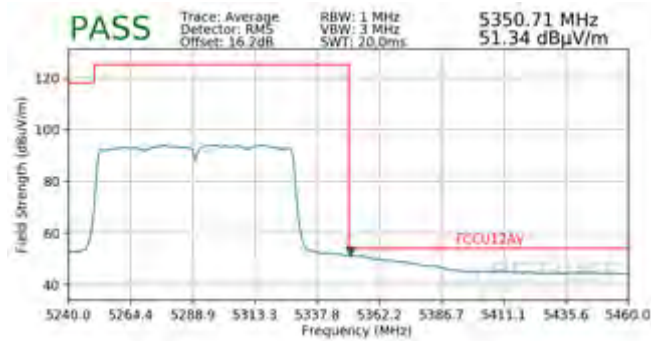
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



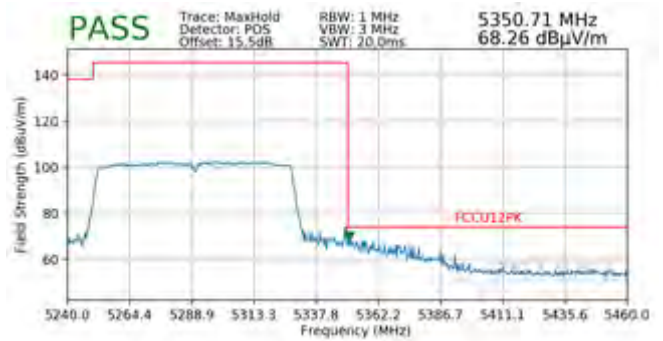
Plot 7-256. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 169 of 189

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



Plot 7-257. Radiated Band Edge Plot (Average – WCP)

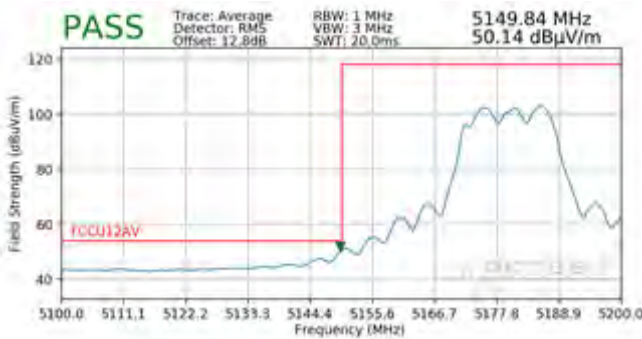


Plot 7-258. Radiated Band Edge Plot (Peak – WCP)

FCC ID: A3LSMN960KOR			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 170 of 189		

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

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



Plot 7-259. Radiated Lower Band Edge Plot (Average – UNII Band 1)



Plot 7-260. Radiated Lower Band Edge Plot (Peak – UNII Band 1)

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



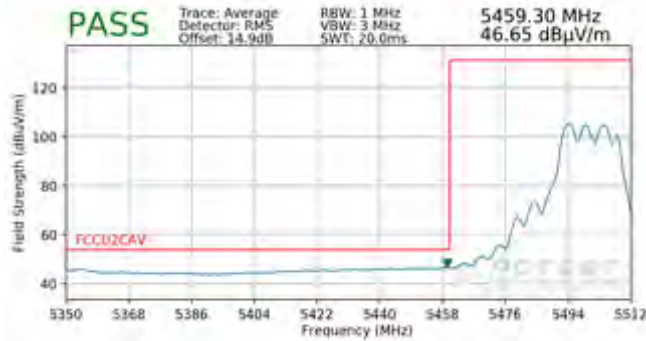
Plot 7-261. Radiated Upper Band Edge Plot (Average – UNII Band 2A)



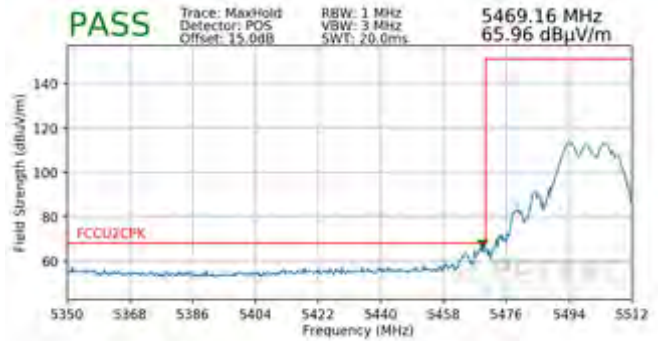
Plot 7-262. Radiated Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 171 of 189

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

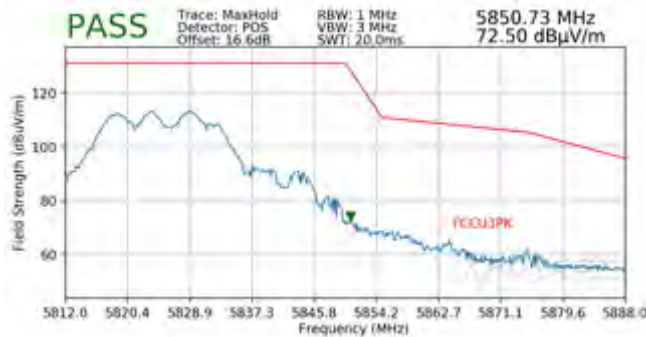


Plot 7-263. Radiated Upper Band Edge Plot (Average – UNII Band 2C)



Plot 7-264. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)

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



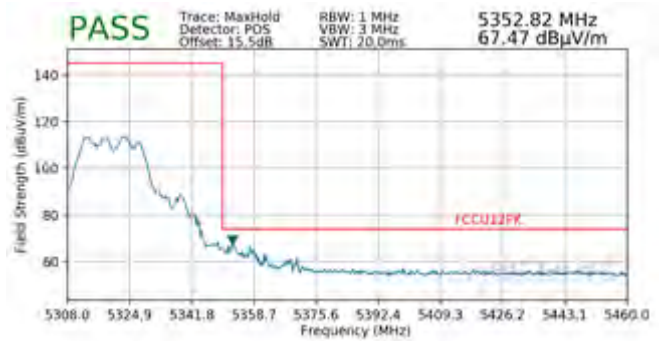
Plot 7-265. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 172 of 189

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



Plot 7-266. Radiated Band Edge Plot (Average – WCP)



Plot 7-267. Radiated Band Edge Plot (Peak – WCP)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 173 of 189

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 7-63 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 7-63. 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: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Test Setup

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

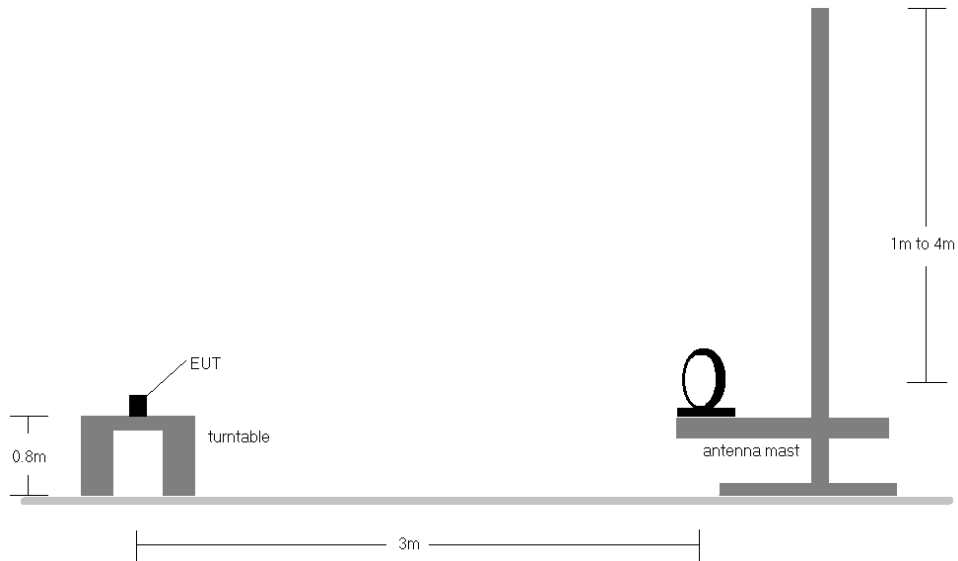


Figure 7-6. Radiated Test Setup < 30MHz

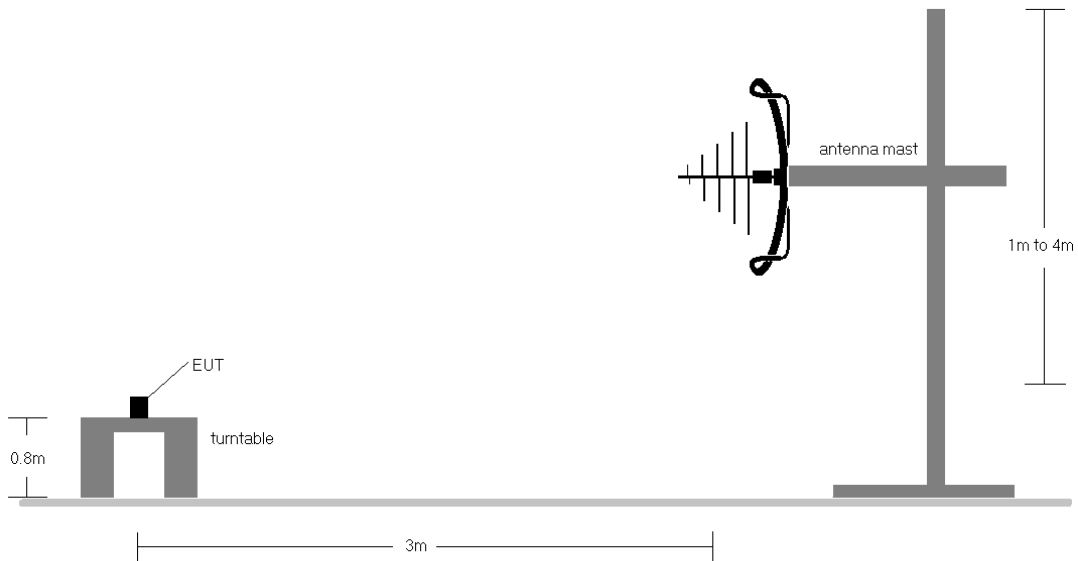


Figure 7-7. Radiated Test Setup < 1GHz

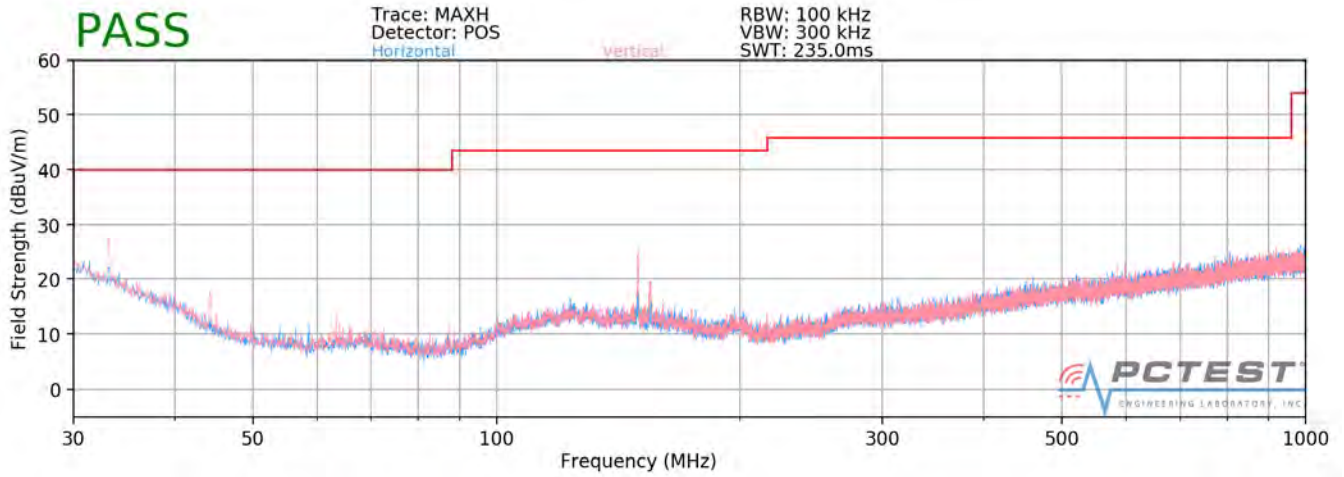
FCC ID: A3LSMN960KOR	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 175 of 189	

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 7-63.
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: A3LSMN960KOR	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 176 of 189

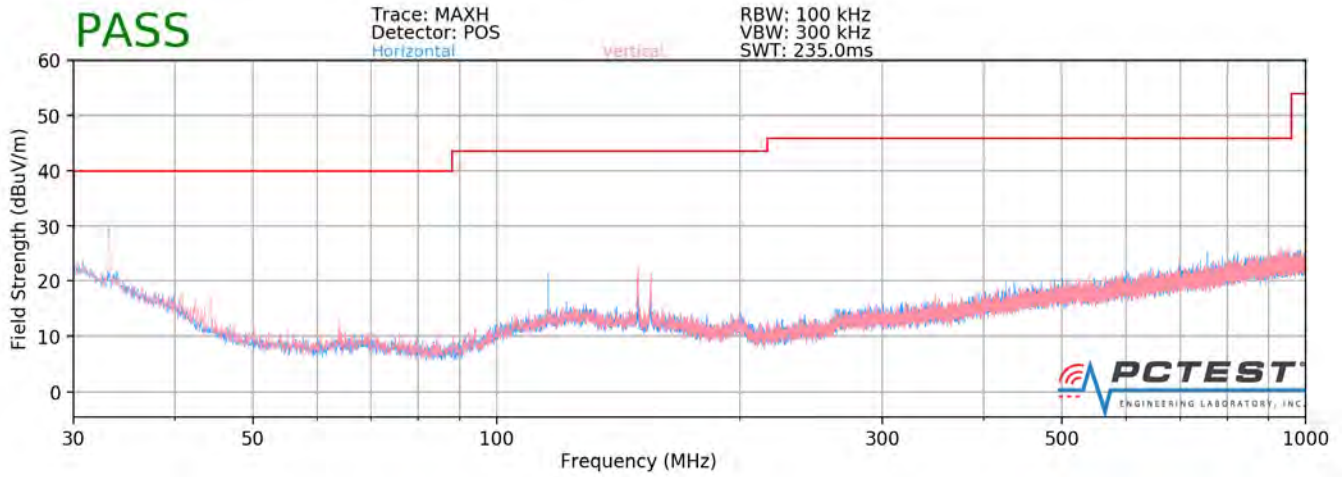
Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)
§15.209; RSS-Gen [8.9]



Plot 7-268. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157)

FCC ID: A3LSMN960KOR	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 177 of 189	

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



Plot 7-269. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157)

FCC ID: A3LSMN960KOR	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset	Page 178 of 189	

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 μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-64. 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

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Test Setup

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

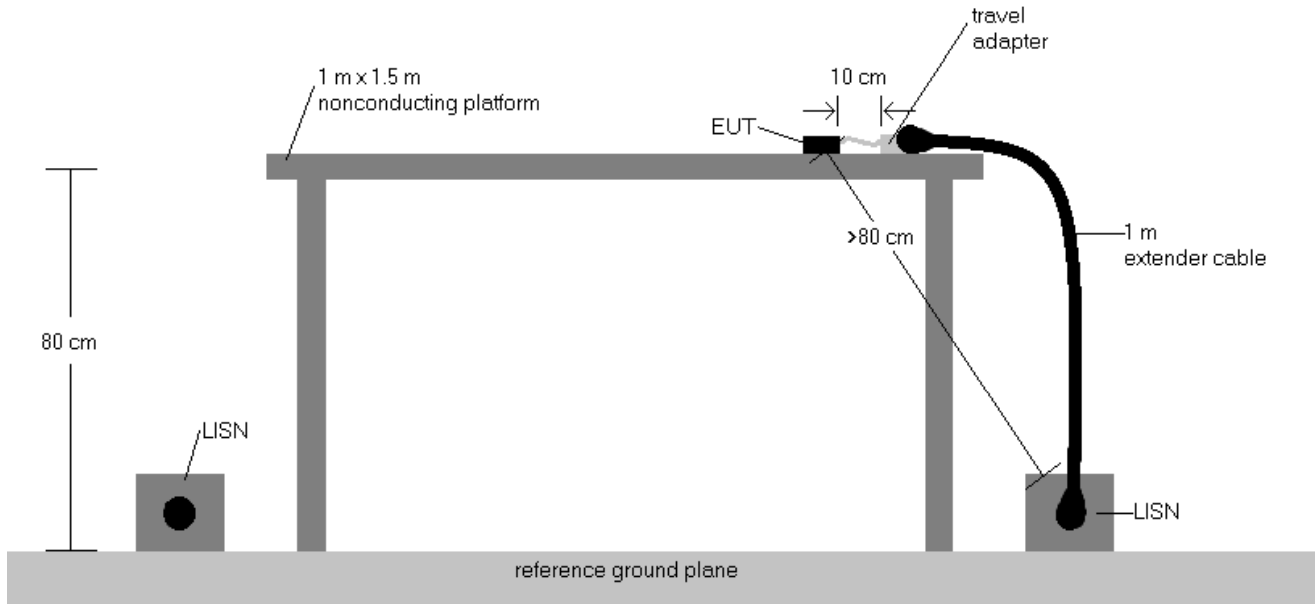
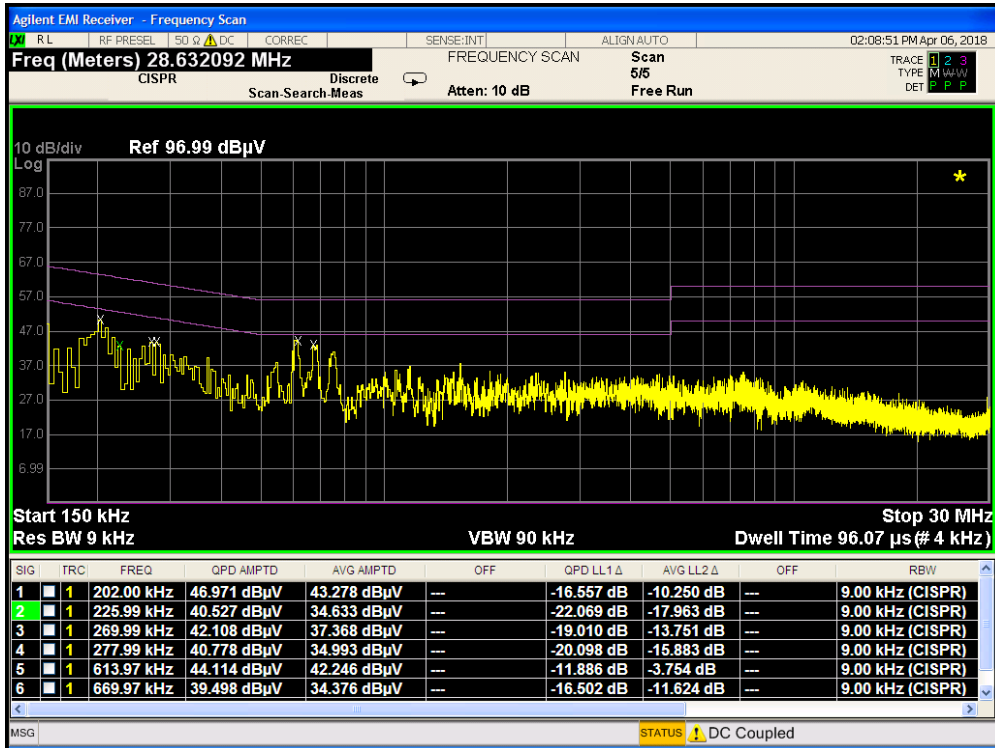


Figure 7-8. Test Instrument & Measurement Setup

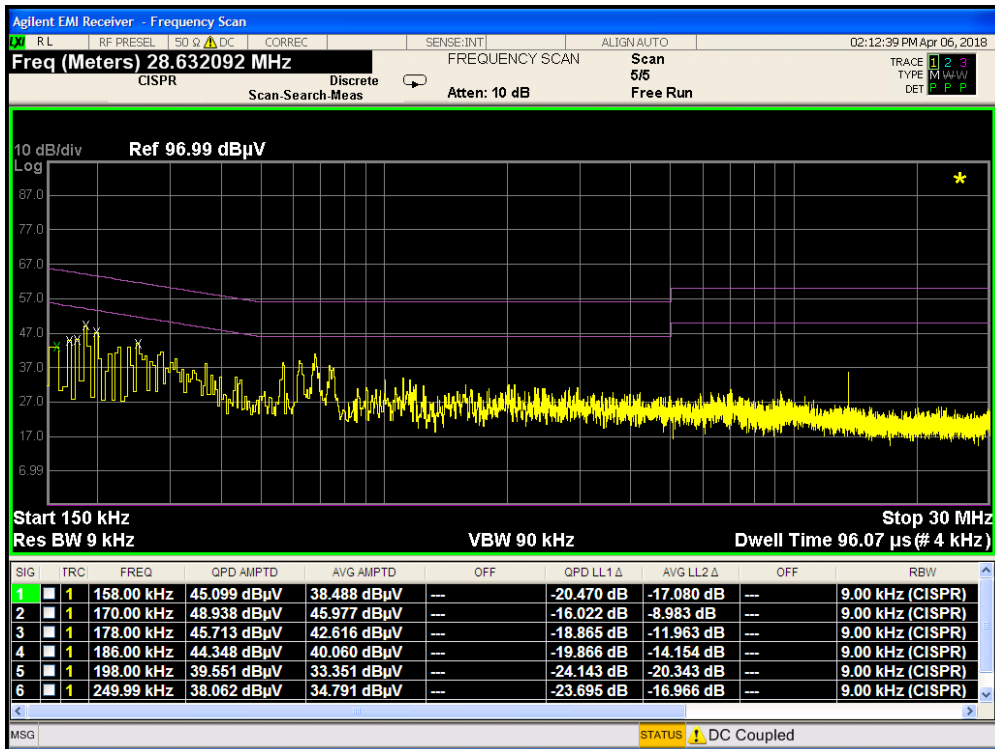
Test Notes

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. $Corr. (dB) = Cable\ loss (dB) + LISN\ insertion\ factor (dB)$
4. $QP/AV\ Level (dB\mu V) = QP/AV\ Analyzer/Receiver\ Level (dB\mu V) + Corr. (dB)$
5. $Margin (dB) = QP/AV\ Limit (dB\mu V) - QP/AV\ Level (dB\mu V)$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 180 of 189

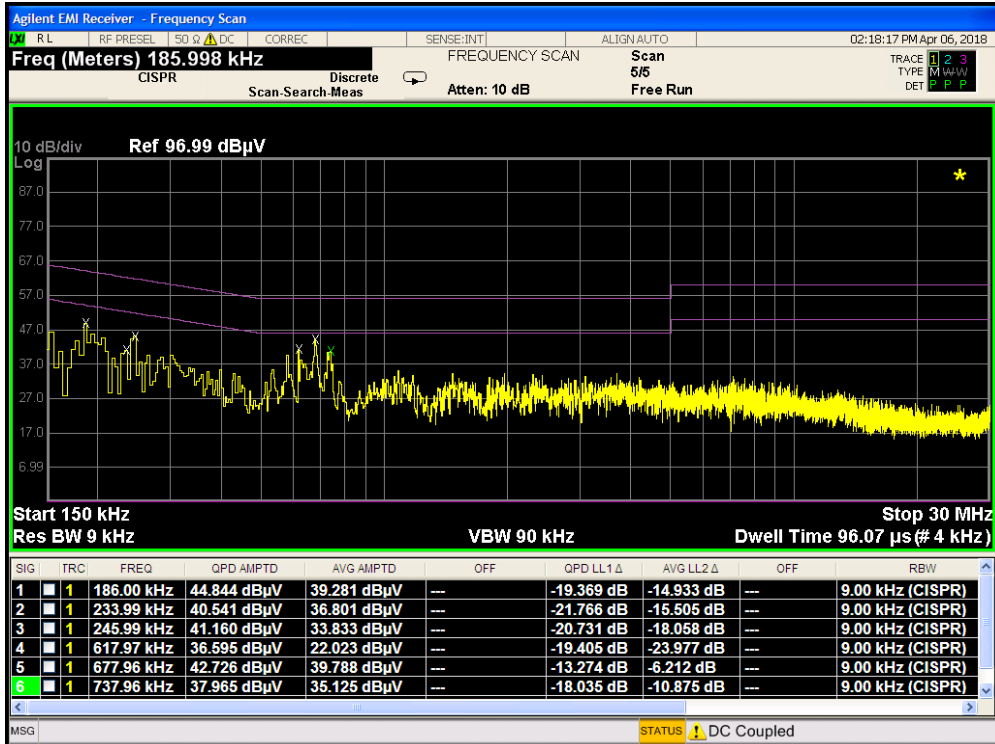


Plot 7-270. Line Conducted Plot with 802.11a UNII Band 1 with Travel Adapter (L1)

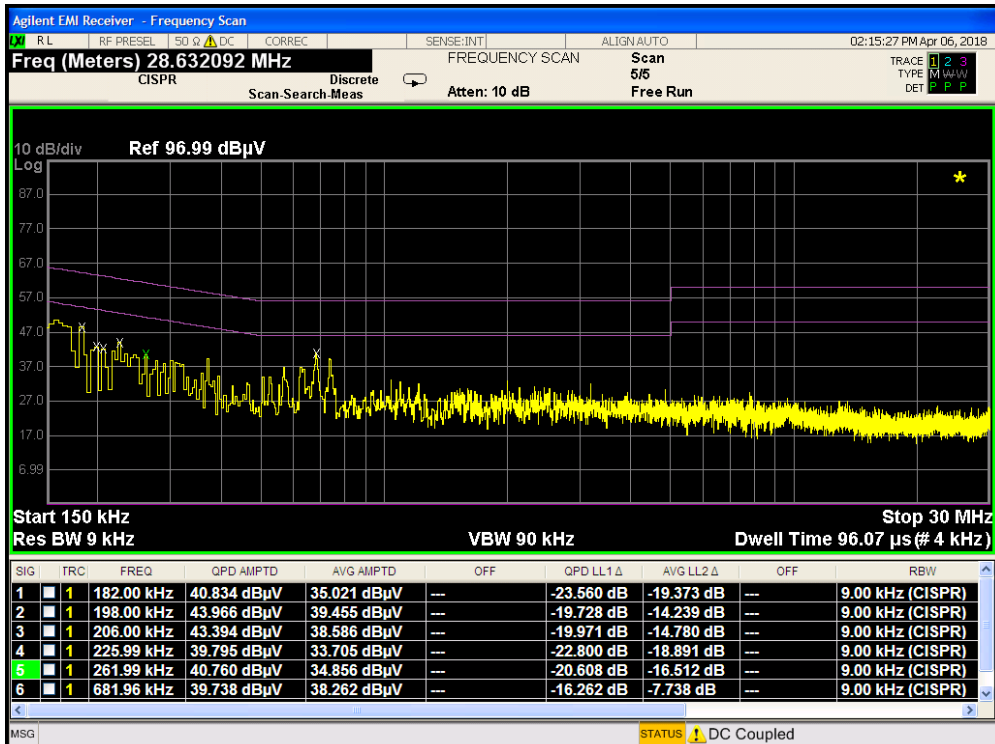


Plot 7-271. Line Conducted Plot with 802.11a UNII Band 1 with Travel Adapter (N)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 181 of 189

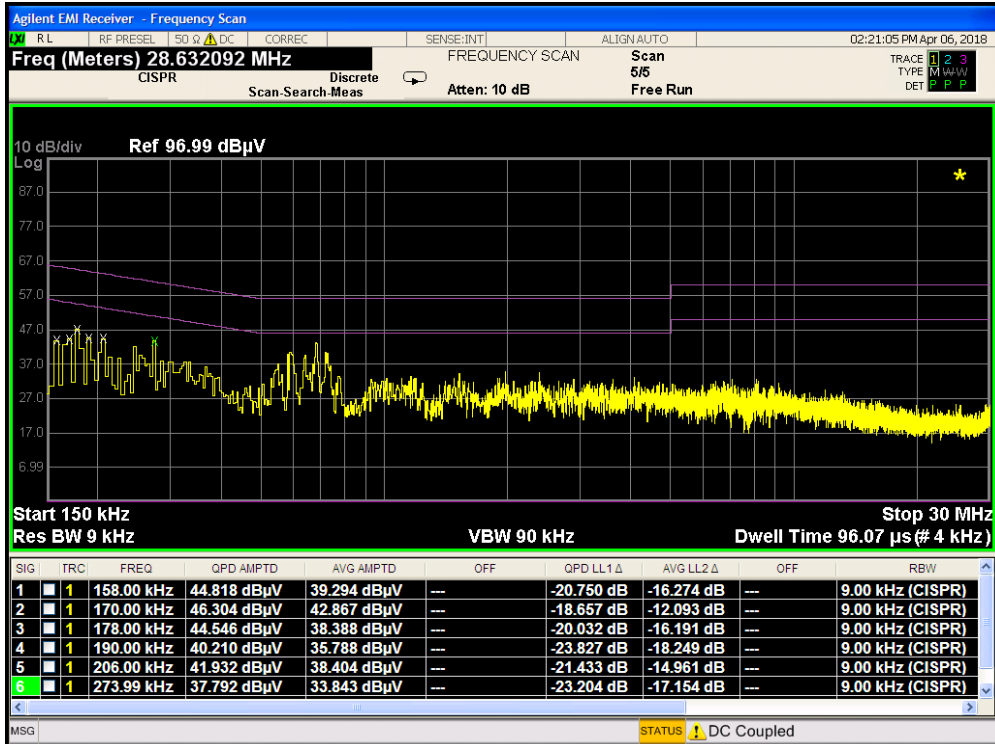


Plot 7-272. Line Conducted Plot with 802.11a UNII Band 2A with Travel Adapter (L1)

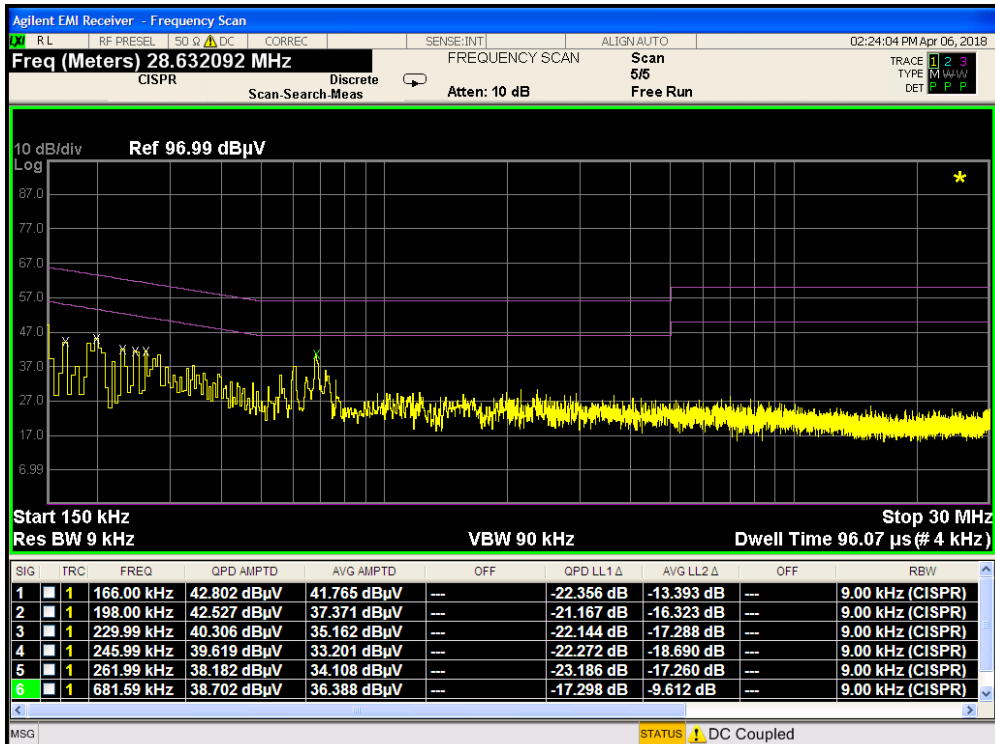


Plot 7-273. Line Conducted Plot with 802.11a UNII Band 2A with Travel Adapter (N)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 182 of 189

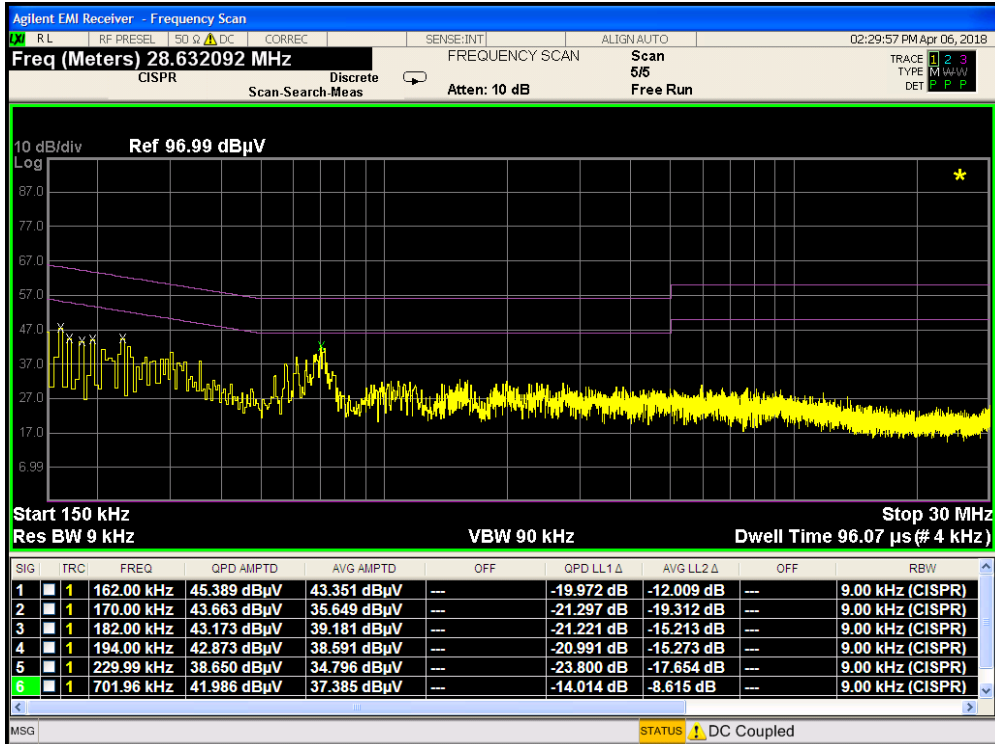


Plot 7-274. Line Conducted Plot with 802.11a UNII Band 2C with Travel Adapter (L1)

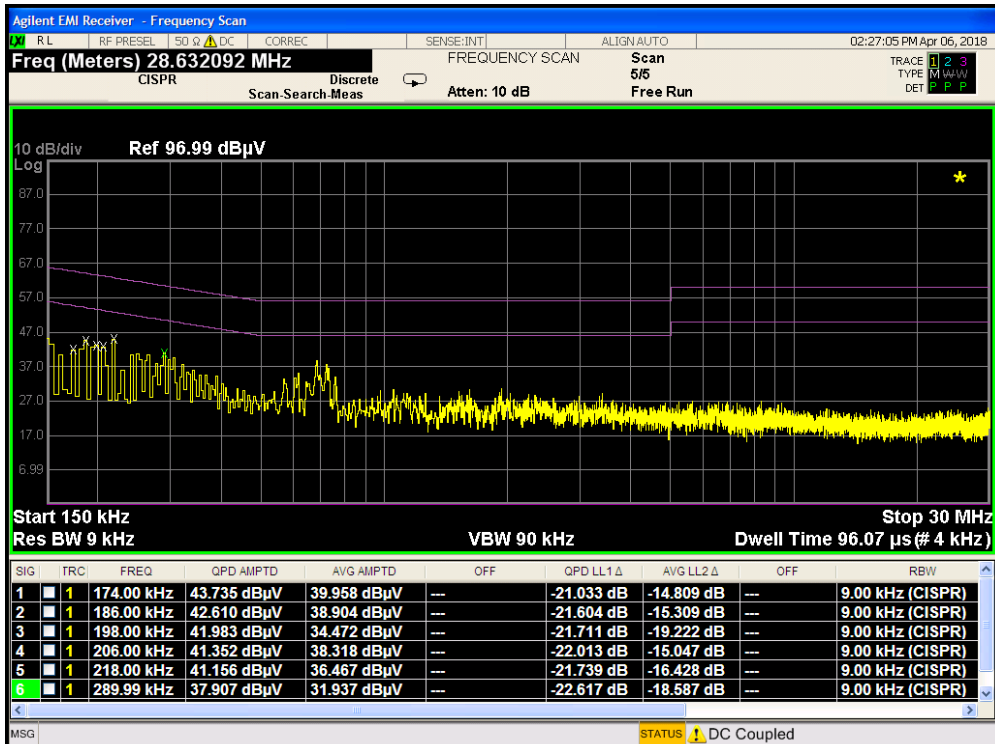


Plot 7-275. Line Conducted Plot with 802.11a UNII Band 2C with Travel Adapter (N)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 183 of 189

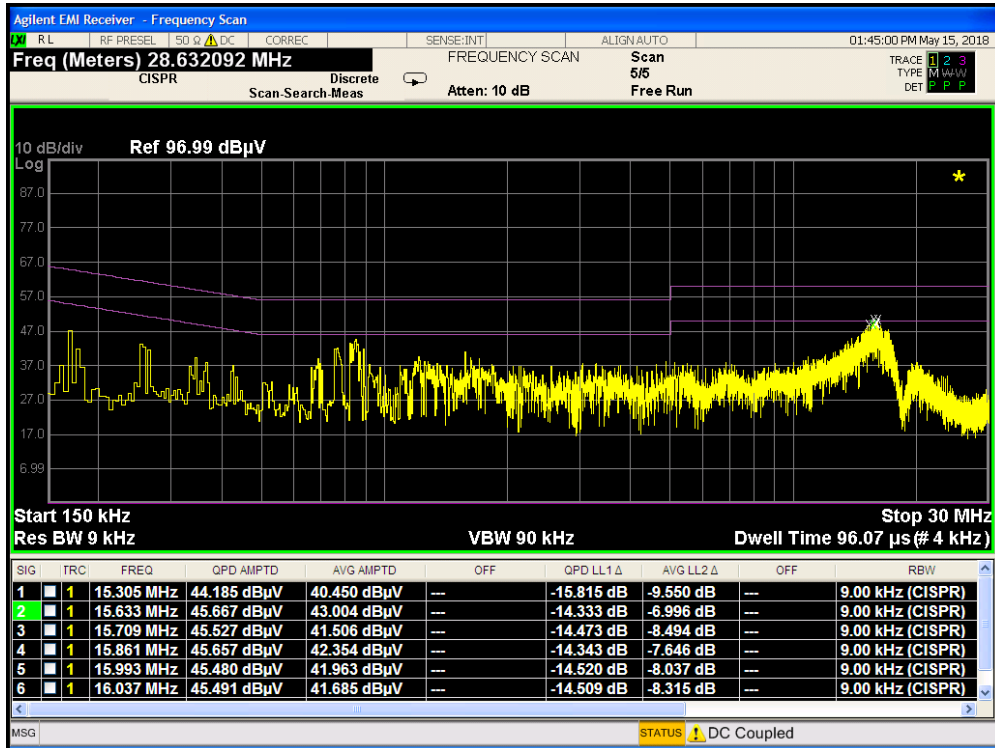


Plot 7-276. Line Conducted Plot with 802.11a UNII Band 3 with Travel Adapter (L1)

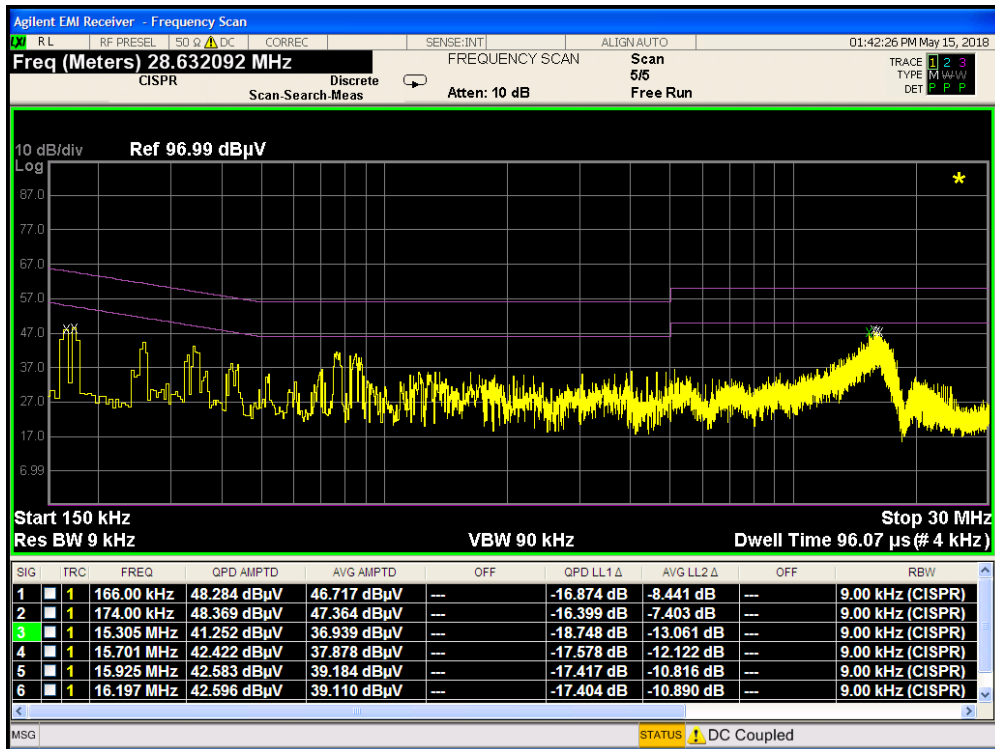


Plot 7-277. Line Conducted Plot with 802.11a UNII Band 3 with Travel Adapter (N)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 184 of 189

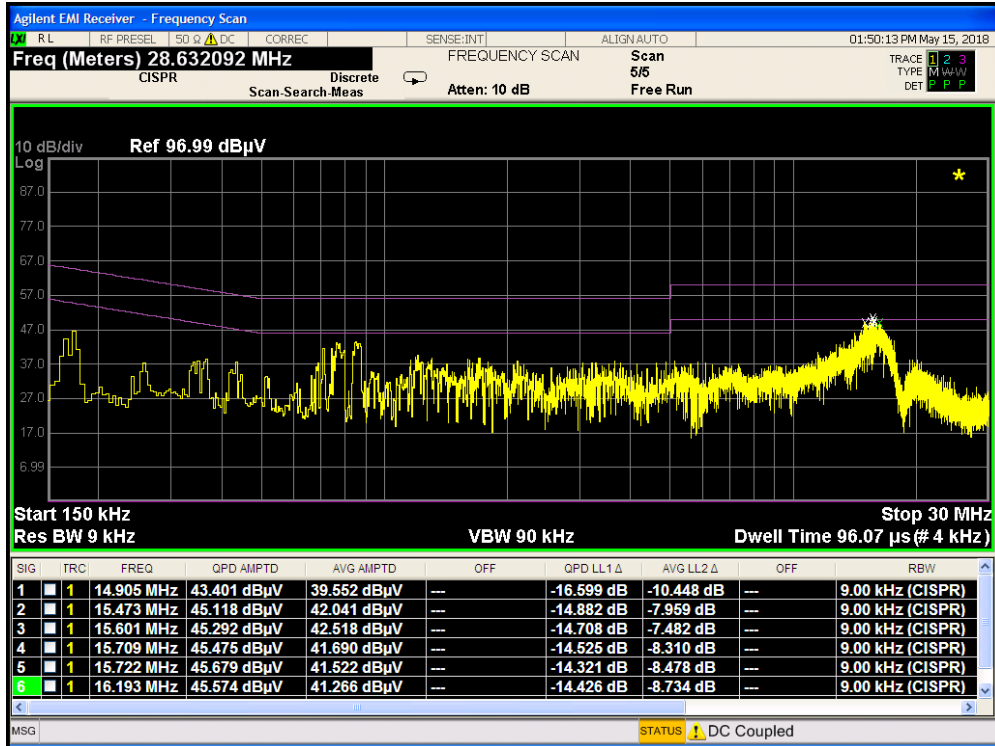


Plot 7-278. Line Conducted Plot with 802.11a UNII Band 1 with Wireless Charging Pad (L1)

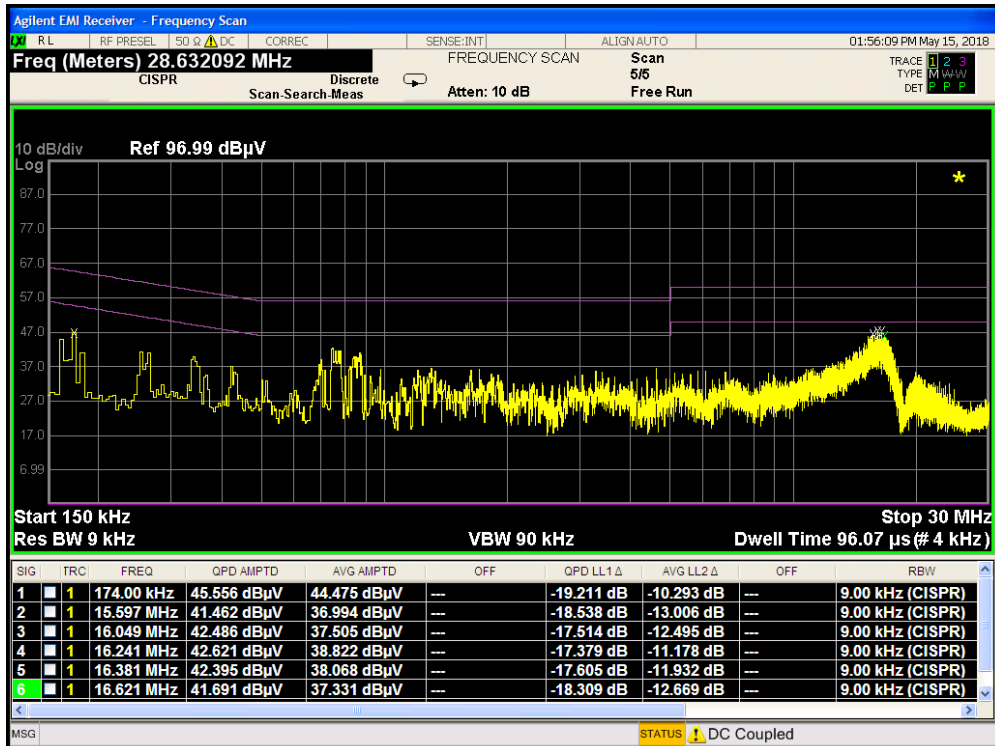


Plot 7-279. Line Conducted Plot with 802.11a UNII Band 1 with Wireless Charging Pad (N)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 185 of 189

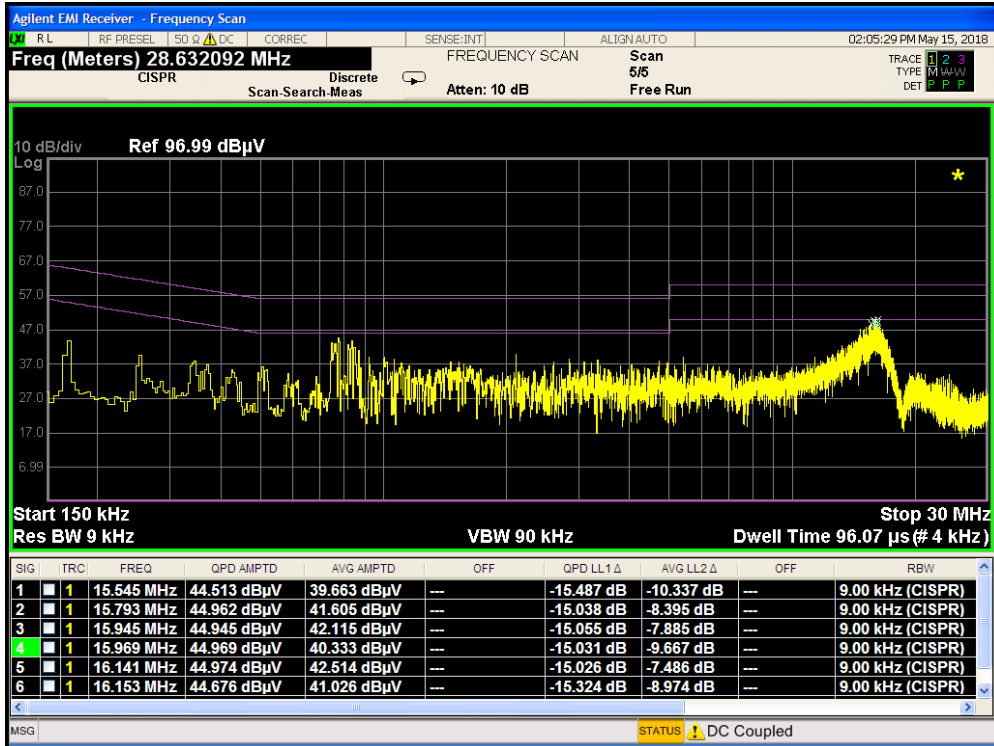


Plot 7-280. Line Conducted Plot with 802.11a UNII Band 2A with Wireless Charging Pad (L1)

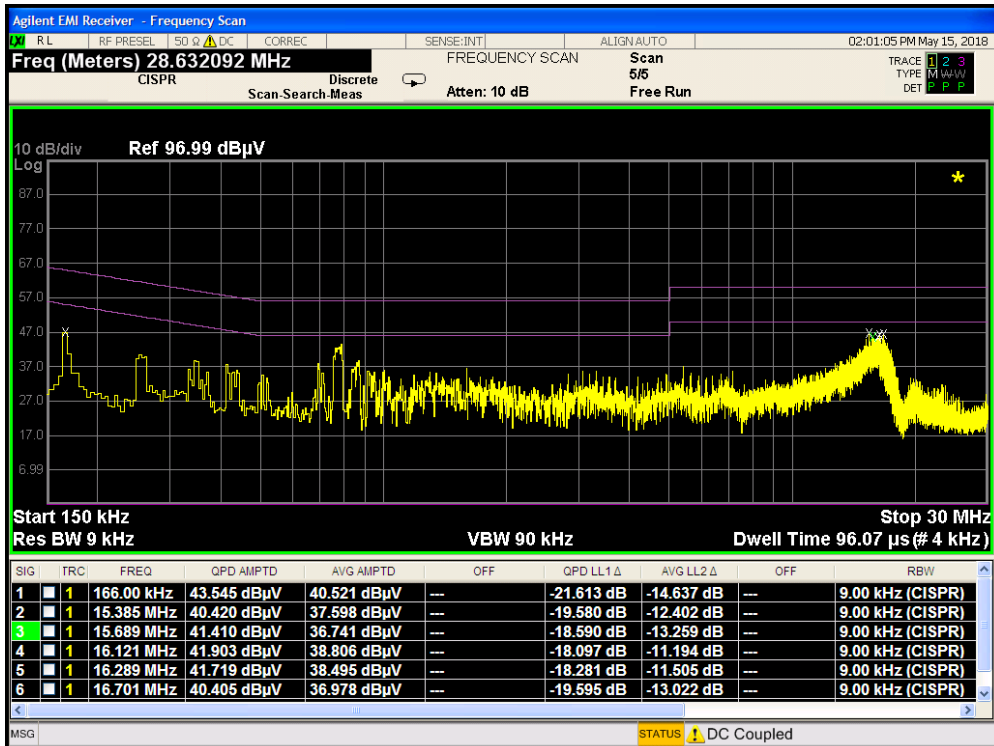


Plot 7-281. Line Conducted Plot with 802.11a UNII Band 2A with Wireless Charging Pad (N)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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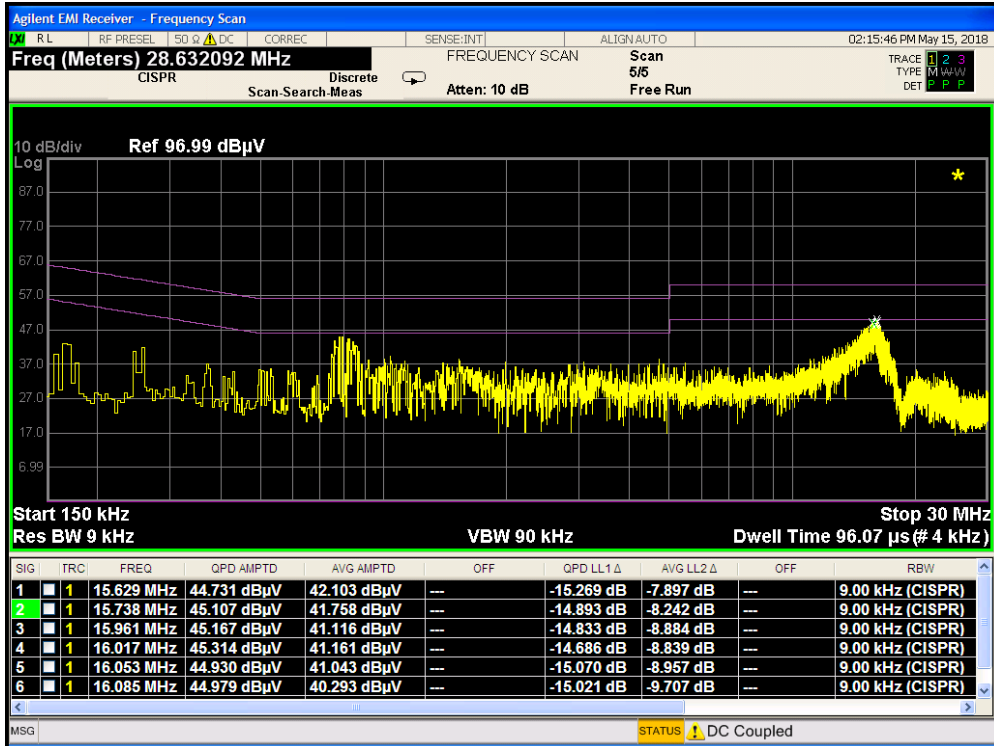


Plot 7-282. Line Conducted Plot with 802.11a UNII Band 2C with Wireless Charging Pad (L1)

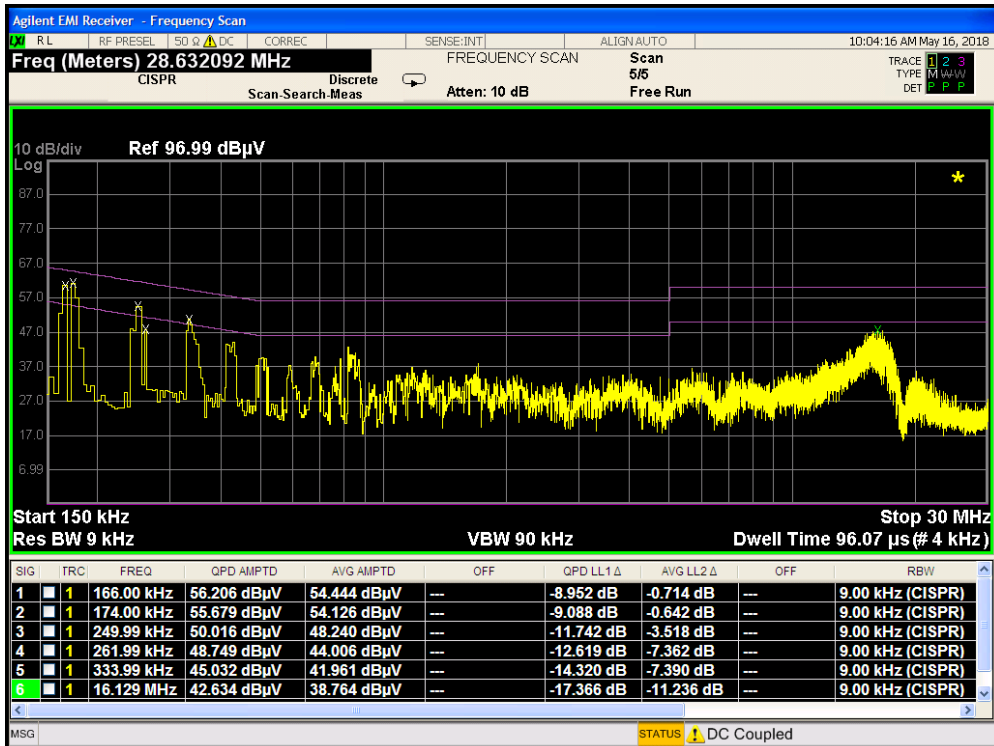


Plot 7-283. Line Conducted Plot with 802.11a UNII Band 2C with Wireless Charging Pad (N)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-284. Line Conducted Plot with 802.11a UNII Band 3 with Wireless Charging Pad (L1)



Plot 7-285. Line Conducted Plot with 802.11a UNII Band 3 with Wireless Charging Pad (N)

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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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: A3LSMN960KOR** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

FCC ID: A3LSMN960KOR		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1804130071-05.A3L	Test Dates: 4/6/2018-6/19/2018	EUT Type: Portable Handset		Page 189 of 189